

# Phase I Environmental Site Assessment

**100 North Main  
100 North Main Street  
Memphis, TN 38103**



**Prepared For:**

**Medallion Financial Corp.  
437 Madison Avenue  
New York, NY 10022**

**Prepared By:**

**DECA Real Estate Advisors, LLC  
DECA Project #1503.3398C108  
April 3, 2015**





April 3, 2015

Mr. Richard Spinelli  
Medallion Financial Corporation  
437 Madison Avenue  
New York, NY 10022

**RE: Phase I Environmental Site Assessment, 100 North Main  
100 North Main Street, Memphis, TN 38103  
DECA Project #1503.3398C108**

Dear Mr. Spinelli:

DECA Real Estate Advisors, LLC (DECA) is pleased to provide the results of our Phase I Environmental Site Assessment of the property known as **100 North Main**, and located at 100 North Main Street, Memphis, TN 38103. This assessment was completed in general accordance with ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process and the Medallion Financial Corp. scope of work for Phase I ESAs.

We appreciate the opportunity to provide consulting services to Medallion Financial Corp. If you have any questions concerning this report, or if we can assist you in any other matter, please contact Jeff Doss at 917.690.9498 or [jdoss@decaadvisors.com](mailto:jdoss@decaadvisors.com).

Sincerely,

**DECA Real Estate Advisors, LLC**

*I, Jeff Doss, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 part of 40 CFR 312. I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the site referenced above. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.*

Handwritten signature of Michael Gross in blue ink.

Prepared by: \_\_\_\_\_  
Michael Gross  
Project Manager

Handwritten signature of Keith Butler in blue ink.

Reviewed by: \_\_\_\_\_  
Keith Butler  
Senior Reviewer

Handwritten signature of Jeff Doss in blue ink.

Reviewed by: \_\_\_\_\_  
Jeff Doss  
Principal

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## 1.0. EXECUTIVE SUMMARY

### Findings, Conclusions and Recommendations

FINDINGS, CONCLUSIONS AND RECOMMENDATIONS SUMMARY							
Report Section		Further Investigation (Yes/No)?	De Minimis Condition	Recognized Environmental Condition (REC)	CREC and/or HREC	ASTM Non-Scope Condition	Recommendation
1.2	Significant Data Gap	No					
3.0	User Questionnaire	No					
4.3	Current Use of the Site	No					
4.4	Adjoining Properties	No					
5.1	Regulatory Records	No			✓		See below
5.2	Interviews	No					
5.3	Historical Use	No					
6.3	Chemical Uses	No					
6.4	Waste Generation, Storage, Disposal	No					
6.5	Storage Tanks	No			✓		See below
6.6	Polychlorinated Biphenyls	No					
6.7	Solid Waste Disposal	No					
6.8	Other Areas of Concern	No	✓				See below
7.1	Asbestos	No				✓	See below
7.2	Lead-Based Paint	No					
7.3	Lead in Drinking Water	No					
7.4	Radon	No					
7.5	Mold	No				✓	See below
7.6	Vapor Encroachment	No					

## Description of the Site

The Subject Property (or 'site'), 100 North Main, located at 100 North Main Street, Memphis, TN 38103, was constructed in 1965 and consists of a vacant high-rise office building totaling 792,873 gross square feet (SF) of floor area, situated on an approximately 1-acre site. The building is 38 stories in height, with an 8-level parking garage occupying the basement and portions of the first seven floors.

The adjoining properties generally consist of Adams Avenue, followed by commercial buildings including the former Crump Building (110 Adams Avenue), the Memphis Fire Museum (118 Adams Avenue) and the former Memphis police station (130 Adams Avenue) to the north with Memphis City Hall (125 North Main Street) to the northwest and the Shelby County Courthouse (140 Adams Avenue) to the northeast; A paved alleyway, followed by surface parking lots, commercial buildings (80-88 North Main Street) and a dog park to the south; North 2<sup>nd</sup> Street, followed by Calvary Episcopal Church (102 North 2<sup>nd</sup> Street) to the east; and North Main Street, followed by the Claridge House Condominiums (109 North Main Street), Moore's Family Restaurant (105 North Main Street) and Renaissance Apartments (99 North Main Street) to the west.

Prior to the current improvements, the site was developed with multiple low-rise (two- to four-story) commercial/retail buildings fronting on Main Street, Adams Avenue and 2<sup>nd</sup> Street. The northwestern portions of the site were destroyed by fire in 1891. Circa 1926, the northwest portions were redeveloped with the 3-story Baltimore Building (multi-tenant commercial/retail). By the mid-1940s the northeast portions were undeveloped, with the southeastern buildings demolished in the 1950s and this area utilized for surface parking while the remainder of the site was occupied by low-rise commercial/retail buildings. Between 1963 and 1965, the site was redeveloped with the existing 38-story high-rise office building. Based on the historical information reviewed as part of this ESA, the following addresses have historically been attributed to the site: 96 through 106 Main Street (formerly 218-228 Main Street), 107 through 125 Adams Avenue and 93 through 103 North 2<sup>nd</sup> Street (formerly 217-227 Second Street).

According to the owner's representative the building is planned to be gut renovated and built out into a combined hotel and residential apartment complex.

## Recognized Environmental Conditions

A recognized environmental condition (REC) is defined by ASTM Standard E 1527-13 as "the presence or likely presence of any hazardous substances or petroleum products in, on or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions."

This assessment has revealed no evidence of recognized environmental conditions in connection with the site.

### **Controlled Recognized Environmental Conditions**

A controlled recognized environmental condition (CREC) is defined by ASTM Standard E 1527-13 as “a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).”

This assessment has revealed no evidence of controlled recognized environmental conditions in connection with the site.

### **Historical Recognized Environmental Conditions**

A historical recognized environmental condition (HREC) is defined by ASTM Standard E 1527-13 as “a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).”

This assessment has revealed no evidence of historical recognized environmental conditions in connection with the site except for the following:

- A former site tenant, MCI Telecommunication Corp., was listed on the State UST and HIST UST databases as having one registered 2,000-gallon diesel fuel UST, installed in August 1986 and removed in October 1996. Upon removal of the UST, petroleum-impacted soils were identified, which resulted in a LUST incident being filed for the site. Subsequent remedial activities and sampling activities were conducted under the oversight of the TDEC and the spill closed.

### **De Minimis Conditions**

A de minimis condition is defined by ASTM as “a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis conditions are not recognized environmental conditions nor controlled recognized environmental conditions.”

This assessment has revealed no evidence of de minimis conditions in connection with the site except for the following.

- DECA observed localized de minimis staining at various locations throughout the parking garage areas, which is consistent with vehicle parking. The de minimis staining is not expected to be a concern for the site.

## ASTM Non-Scope Conditions

This assessment has revealed no evidence of ASTM non-scope environmental conditions in connection with the site except for the following:

- DECA observed suspect asbestos containing materials (ACM) such as non-friable vinyl floor tiles and friable acoustic ceiling tiles in good to fair condition in some areas of the building. These materials were not sampled to avoid needlessly damaging them. In addition, although the roofing materials are assumed to be a suspect ACM, samples were not collected to avoid potential damage to the roof. Finally, it is possible that suspect ACM are located in areas not accessed by DECA during the survey.
- DECA observed several water-stained ceiling tiles in some of the tenant spaces inspected, which are reportedly due to former leaks from the roof, windows and/or HVAC condensate lines and not indicative of current leaks. No active water leaks or visible mold growth was observed. The site representative stated that the stained tiles can be replaced as part of routine maintenance or upon renovation of the interior components. In addition, the inspection also identified localized evidence of water damage with some areas of peeling paint. The water-damage appears related to the intrusion of precipitation since the building was vacated.
- DECA observed two 55-gallon steel drums located on the main building roof, near the former rooftop restaurant. Several other smaller discarded containers were also observed in the various mechanical rooms and maintenance areas. One of the drums was labeled as containing DowThem, a commercial heat transfer liquid, which was likely utilized in the various rooftop HVAC equipment. No evidence of spills or leaks was observed near drums/containers.

## Recommendations

Based on the information available at the time of this assessment, DECA does not recommend additional investigation of the site; however, the following is recommended:

- Due to the presence of suspect ACM onsite, DECA recommends that if future activities in the building (i.e., renovation or demolition) will disturb any suspect asbestos material, then an asbestos survey be performed to determine if ACM are present prior to the proposed work. If ACM are present, then a licensed contractor must be retained to remove the asbestos in accordance with federal, State and local regulations. DECA also recommends developing an Asbestos Operations and Maintenance (O&M) Program to manage the suspect ACM in place. The purpose of the O&M Program is to outline elements such as continued in-place management of the material, labeling, record keeping, training and response actions should asbestos become damaged or is otherwise encountered onsite. The cost to develop the Asbestos O&M Plan is \$400. DECA can prepare an Asbestos O&M Program at the request of the Client.
- Any areas affected by continual water leaks should be repaired and subsequently inspected for the presence of mold growth as part of the renovation of the building. Any evidence of mold

should be cleaned and removed in accordance with applicable regulations prior to occupancy. In addition, sheetrock/plaster and other water damaged building materials should be removed from the building and properly disposed.

- The contents of the discarded drums and miscellaneous unidentified containers should be confirmed and properly disposed of offsite. The cost associated with the characterization and disposal of the identified chemicals is estimated at \$3,000 to \$5,000.

### Data Gap Summary

According to Section 3.2.21 of ASTM Standard E 1527-13 a data gap is a lack of or inability to obtain information required by the ASTM Standard despite good faith efforts to gather this information. Data gaps may result from incompleteness in any of the activities required by the ASTM Standard. The following data gaps occurred in connection with this report:

DATA GAP SUMMARY		
Report Section		Description
3.0	Environmental Liens or Activity and Use Limitations (AULs)	No significant data gap
4.4	Current Uses of Adjoining Properties	No significant data gap
4.5	Physical Setting Sources	No significant data gap
5.1	Federal and State Regulatory Records	No significant data gap
5.2	Interviews	No significant data gap
5.3	Historical Records Sources	No significant data gap
6.1	Methodology and Limiting Conditions	No significant data gap

## 2.0. INTRODUCTION

### 2.1. PURPOSE

The purpose of this Phase I ESA is to provide a professional opinion, to the extent feasible pursuant to the processes prescribed herein, on the likely presence of recognized environmental conditions and certain potential environmental conditions outside the scope of ASTM Standard Practice E 1527-13 in connection with the site at the time of the site survey. In addition, this report may be used in order to qualify for the Landowner Liability Protections ("LLPs") defense to CERCLA liability and/or to help understand potential environmental conditions that could materially impact the operation of the business associated with the site.

### 2.2. SCOPE OF SERVICES

This assessment was completed in general accordance with the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process Designation: E 1527-13 and the Client's scope of work for Phase I ESAs.

This assessment included a records review, a site survey, interviews and a report. The following items were specifically addressed:

**Site Survey** - A site survey was performed by DECA on March 2, 2015 and consisted of the following: Visual observations of the site, improvements, and surrounding properties were made to identify potential recognized environmental conditions such as underground storage tanks (USTs), aboveground storage tanks (ASTs), potential sources of polychlorinated biphenyls (PCBs), hazardous chemicals or materials and areas with surface stains or distressed vegetation. In addition, the adjoining properties were observed, without gaining access, to determine potential sources of contamination or environmental impact that could migrate to the site via surface water runoff, ground water transport, or other pathways.

**Federal and State Environmental Regulatory Review** - Regulatory records and databases were reviewed to identify use, generation, storage, treatment, disposal, or releases of hazardous materials or chemicals that may impact the site. The databases and search parameters prescribed by ASTM Standard E 1527-13 were used.

**Previous Environmental Reports** - Any previously completed environmental reports that were provided to DECA were reviewed to help identify the likelihood of past uses having led to recognized environmental conditions in connection with the site.

**Historical Records** - Reasonably ascertainable historical records were reviewed to determine past uses of the site and surrounding properties.

**Local Government Agency Records** - Local government agencies were contacted to determine historic uses of the site.

**Interviews** - DECA performed interviews with individuals knowledgeable about the site to obtain information regarding potential recognized environmental conditions and certain potential environmental conditions outside the scope of ASTM Standard Practice E 1527-13 in connection with the site.

**Review of Physical Settings Maps and Records** - DECA reviewed reasonably ascertainable physical settings maps and other sources of information referenced herein to obtain information regarding the topographic, hydrologic, geologic, and hydrogeologic characteristics of the site. In general, topographical information published by the United States Geological Survey (USGS) was reviewed in the form of a 7.5 Minute Quadrangle map.

**Non-ASTM Scope Items** - This assessment also included a limited evaluation of the potential for asbestos containing materials (ACM), lead-based paint, lead in drinking water, radon gas, wetlands, and mold.

**Environmental Site Assessment Report** - This Phase I ESA report represents the findings from DECA's review of the items described above and provides conclusions and recommendations based on the information gathered and the Client's Scope of Work.

### **2.3. SIGNIFICANT ASSUMPTIONS**

It is possible that even with the proper application of the above-listed Scope of Services conditions may exist onsite that could not be identified within the scope of the assessment or that were not reasonably identifiable from the available information. It is DECA's opinion that the site-specific information obtained from the regulatory review, records review and the interviews is reliable. However, DECA does not warrant or guarantee that the information provided by these sources is accurate or complete. The methodologies of this assessment are not intended to produce all inclusive or comprehensive results, but rather to provide the Client with information regarding the potential environmental concerns onsite.

### **2.4. LIMITATIONS**

This Phase I ESA was completed using the Scope of Work approved by the Client and in accordance with ASTM guidelines for the performance of Phase I ESAs. No other warranties, either expressed or implied, are made by DECA. DECA's evaluations, analyses, and opinions should not be taken as representations regarding the subsurface conditions or the actual value of the site.

Factual information and documentation concerning the site provided by the Client, its representatives, and any regulatory agencies consulted are assumed to be complete and correct. DECA's conclusions are based upon such factual information and documentation and on our observations of site conditions, as they existed on the date of the site survey.

The following services were not included within the Scope of Work for this assessment: acquiring permits; locating buried utilities; surveying for line and grade; preparing quantity and cost estimates; preparing detailed plans and specifications; preparing waste characterization and treatment schemes; conducting comprehensive asbestos, lead-based paint, and radon surveys; conducting lead in drinking

water testing; sampling onsite soils and groundwater; performing indoor air quality inspections; conducting wetlands assessments; or performing services not specifically defined herein.

DECA can make no assumptions regarding the potential environmental impact of conditions in any areas that were inaccessible at the time of the site visit. Except as otherwise specified herein, no physical or invasive testing was performed.

DECA obtained environmental agency database information from Environmental Data Resources, Inc. (EDR). The databases usually present the location of the entities by street address, which in many cases is the only reasonable means by which DECA can locate a database entity; the actual proximity of an entity to the site may not be accurately indicated by the street address given.

## **2.5. USER RELIANCE**

This Report may be relied upon by Medallion Financial Corp., its successors and assigns, rating agencies and bond investors in determining whether to make a loan evidenced by a note ("Property Note") secured by the Property; may be relied upon by any purchaser in determining whether to purchase the Property Note for this transaction from Medallion Financial Corp.; may be relied upon by any Rating Agency in rating securities issued by Medallion Financial Corp. and representing the interest in the Property Note; may be included with and referred to in materials offering the Property Note or an interest in the Property Note for sale. Notwithstanding the foregoing, DECA encourages interested third parties to conduct their own due diligence with a scope commensurate to the level of intended involvement.

Any other use by or distribution of this report to third parties, without the express written consent of DECA, is at the sole risk and expense of such third party.

DECA makes no other representation to any third party (not specified above) except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any such third party, either expressed or implied.



### 3.0. USER QUESTIONNAIRE

As required under ASTM 1527-13, DECA forwarded a User Questionnaire to Mr. Isaac Thomas with Thomas Investments LLC, the owner’s representative and designated site contact. The completed User Questionnaire was not returned to DECA. A copy of the User Questionnaire as sent is included in Appendix D of this report.

USER QUESTIONNAIRE	
<b>User Engaged Environmental Cleanup Liens and Activity And Use Limitation (AUL) Review</b>	The user did not provide answers to the User Questionnaire. In addition, the user did not engage DECA to review title and judicial records for environmental liens or Activity and Use Limitations (AULs) recorded against the Project. Furthermore, these documents were not provided to DECA for review. The lack of or inability to obtain this information represents a data gap. Based on the findings of this report, the absence of this information is not considered a <i>significant</i> data gap. Refer to Section 1.0 for additional information about the identification of <i>significant</i> data gaps.
<b>Specialized Knowledge</b>	The user did not provide answers to the User Questionnaire. In addition, the user did not provide information regarding specialized knowledge or experience. The lack of or inability to obtain this information represents a data gap. However, based on the findings of this report, the absence of this information is not considered a <i>significant</i> data gap.
<b>Relationship of Purchase Price to Fair Market Value</b>	The user did not provide answers to the User Questionnaire. In addition, the user did not provide information regarding relationship of purchase price to fair market value. The lack of or inability to obtain this information represents a data gap. However, based on the findings of this report, the absence of this information is not considered a <i>significant</i> data gap.
<b>Commonly Known or Reasonably Ascertainable Information</b>	The user did not provide answers to the User Questionnaire. In addition, the user did not provide information regarding commonly known or reasonably ascertainable information. The lack of or inability to obtain this information represents a data gap. However, based on the findings of this report, the absence of this information is not considered a <i>significant</i> data gap.
<b>Degree of Obviousness Regarding Presence of Contamination</b>	The user did not provide answers to the User Questionnaire. In addition, the user did not provide information regarding degree of obviousness regarding presence of contamination. The lack of or inability to obtain this information represents a data gap. However, based on the findings of this report, the absence of this information is not considered a <i>significant</i> data gap.

## 4.0. SITE DESCRIPTION

### 4.1. GENERAL SITE DESCRIPTION

This Report presents the observations and findings of a Phase I Environmental Site Assessment performed on the property known as 100 North Main, the site or subject property, on March 2, 2015. The site is located at 100 North Main Street, Memphis, TN 38103 and is currently vacant; however it was most recently utilized as a multi-tenant office building.

GENERAL SITE DESCRIPTION	
Property Name	100 North Main
Property Address	100 North Main Street Memphis, TN 38103
Applicable Local Jurisdiction(s)	City of Memphis, Shelby County
Property Type	Vacant (former multi-tenant office)
Year(s) Constructed / Age	1965 / 50 years old
Dates of Major Renovation(s), if applicable	Not provided
Number of Buildings	One
Number of Stories	38 with a basement
Net Rentable Floor Area <sup>1</sup>	436,280 SF
Gross Floor Area <sup>2</sup>	792,873 SF
Number of Tenant Spaces	N/A
Occupancy Status	0% (Vacant)
Site Area <sup>3</sup>	1.004 acres
Number of Parcels	One
Property Owner (legal name)	One Hundred North Main LLC

### 4.2. SITE LOCATION

The site is located in a densely developed mixed-use (residential and commercial/retail) area of downtown Memphis, TN 38103. Specifically, the site is located on the south side of Adams Avenue,

<sup>1</sup> Source for rentable floor area: Memphis Business Journal Article, August 12, 2013

<sup>2</sup> Source for gross building floor area: Shelby County Assessor's Office

<sup>3</sup> Source for land area: Shelby County Assessor's Office

which runs east to west along the northern site perimeter, between North Main Street (west) and North 2<sup>nd</sup> Street (east). A site location map is in Appendix B.

#### **4.3. CURRENT USE OF THE SITE**

The site is currently developed with a 38-story commercial office building with basement. An 8-level parking garage comprises the basement level and portions of the first seven floors. The building occupies the entire footprint of the site and is currently vacant/unoccupied; however, it is proposed to be renovated for use as a hotel and residential apartments.



View of the site building, looking north from Jefferson Avenue



View along the southern side of the site building, looking east



View of the loading dock area on the southern side of the building, looking north



View showing the southeastern corner of the building, looking northwest



View showing the eastern side of the building, looking west



View along the northern side of the building, looking west

#### 4.4. CURRENT USES OF ADJOINING PROPERTIES

**North:** Adams Avenue is immediately to the north; commercial buildings, including the former Crump Building (110 Adams Avenue), the Memphis Fire Museum (118 Adams Avenue) and the former Memphis police station (130 Adams Avenue) are further to the north. Memphis City Hall (125 North Main Street) is to the northwest and the Shelby County Courthouse (140 Adams Avenue) is to the northeast.

**South:** A paved alley is located immediately to the south; surface parking lots, commercial buildings (80-88 North Main Street) and a dog park are further to the south.

**East:** North 2<sup>nd</sup> Street is located immediately to the east; Calvary Episcopal Church (102 North 2<sup>nd</sup> Street) is further to the east.

**West:** North Main is located immediately to the west; Claridge House Condominiums (109 North Main Street), Moore's Family Restaurant (105 North Main Street) and Renaissance Apartments (99 North Main Street) are further to the west.

DECA's site survey and review of historical information did not reveal evidence of recognized environmental conditions in connection with the adjoining properties. However, several of the adjacent commercial/municipal properties were noted to be hazardous waste generators, maintained underground petroleum storage tanks and/or were associated with closed petroleum spills. These listings are detailed in Section 5.1 and were determined unlikely to present a significant environmental concern to the site.

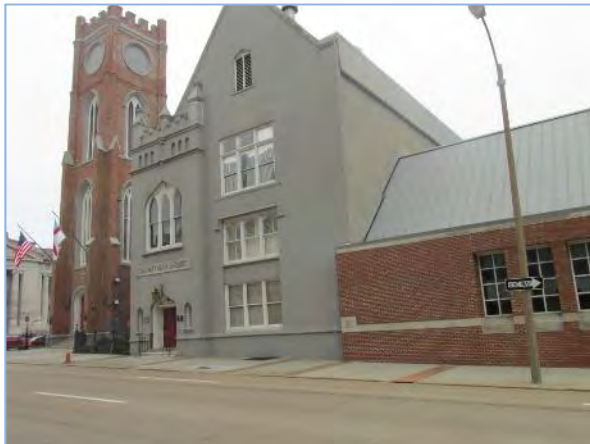




View of the northern adjacent property, looking north-northwest from the intersection of Adams Avenue and North 2<sup>nd</sup> Street



View of the southern adjacent properties, looking southwest from the alley to the south of the site



View of the eastern adjacent property, looking east from North 2<sup>nd</sup> Street



View of the northeastern surrounding property, looking northeast from the intersection of Adams Avenue and North 2<sup>nd</sup> Street



View of the western adjacent properties, looking southwest from the intersection of Adams Avenue and North Main Street



View of the northwestern surrounding property, looking northwest from the intersection of Adams Avenue and North Main Street

#### 4.5. PHYSICAL SETTING

The following physical setting resources were reviewed to provide information about the topographic, hydrologic, geologic, and/or hydrogeologic conditions of the site and surrounding properties.

##### 4.5.1. TOPOGRAPHY AND POTENTIAL WETLANDS

A review of the United States Geological Survey (USGS) 7.5-minute series topographic quadrangle map of Northwest Memphis, TN-AR was performed to identify evidence of man-made structures, fill areas, and natural features that may have an adverse effect on the environmental condition of the site. The Northwest Memphis, TN-AR map was issued in 1997.

DECA's review of the Northwest Memphis, TN-AR USGS topographic map revealed that the site and surrounding properties are shaded pink to indicate dense, urban development with no improvements depicted, except for several schools, churches and landmark buildings scattered throughout the surrounding area, including the northern adjacent municipal buildings and church adjacent to the east. The site is situated approximately 260 feet above mean sea level (amsl), with the overall topography of the surrounding area sloping gently downward to the west. No environmental concerns were identified based on a review of the Northwest Memphis, TN-AR topographic map.

No evidence of wetland areas was observed onsite during the site visit. In addition, DECA's review of the detail map provided by EDR and the Northwest Memphis, TN-AR topographic map revealed that no delineated wetlands areas are located onsite. According to the topographic map, the closest body of water is the Wolf River Lagoon located approximately 0.25 miles west of the site. In addition, the Mississippi River is located approximately 0.45 miles west of the site

A portion of the USGS topographic map of Northwest Memphis, TN-AR that includes the site is in Appendix B.

#### **4.5.2. SOIL**

Based on a review of the Physical Setting Source Summary prepared by Environmental Data Resources, which summarizes information compiled by the USDA Soil Conservation Service, the primary soil type located in the vicinity of the site is Graded Land (Udorthents). Graded Land consists of areas that have been graded in preparation for subdivisions and for commercial and industrial development. The depth to which these areas have been graded varies from several inches to five feet or more, and is most commonly about three feet. The slope after grading is generally from one to five percent. Granada, Loring and Memphis soils were the predominant soil types prior to grading, but in most areas the soils have been re-worked to the extent that the original soil type(s) cannot be determined. These soils are found at the outer limits of the City of Memphis and portions of Shelby County just outside the city limits.

#### **4.5.3. GEOLOGY**

According to the USGS National Water Summary, Tennessee region (1984), the site is located within the Coastal Plain physiographic province, which is characterized by areas of low relief and consists of inter-bedded layers of sand, gravel, and clay sediments that dip westward.

#### **4.5.4. HYDROGEOLOGY**

Based on a review of the above referenced document and the Northwest Memphis, TN-AR USGS topographic map, it is expected that onsite shallow groundwater will mimic local topography and flow to the west toward the Mississippi River.

The site currently uses municipally-supplied potable water and does not utilize local groundwater as a drinking water source.

## 5.0. RECORDS REVIEW

### 5.1. FEDERAL AND STATE REGULATORY RECORDS

Federal and state regulatory records and databases were reviewed to identify use, generation, storage, treatment, disposal or releases of hazardous materials or chemicals that may impact the site. Environmental Data Resources, Inc. (EDR) was contracted to provide the database. An explanation of the acronyms used and databases searched in this section can be found in Appendix E. The search radius for each regulatory database was plotted consistent with ASTM Standard E 1527-13.

Regulatory information from the following database sources regarding possible recognized environmental conditions, within the ASTM minimum search distance from the site, was reviewed. Specific facilities are discussed below in the table if determined possible that a potential recognized environmental condition exists at the site from the listed facilities. The following is a summary of the findings of the database review.

SUMMARY OF FEDERAL, STATE AND TRIBAL DATABASE FINDINGS			
Regulatory Database	Approximate Search Distance	Site Listed?	# Properties Listed
Federal NPL	1 mile	No	0
Federal Delisted NPL	½ mile	No	0
Federal CERCLIS	½ mile	No	0
Federal CERCLIS NFRAP	½ mile	No	1
Federal RCRA CORRACTS	1 mile	No	0
Federal RCRIS Non- CORRACTS TSD	½ mile	No	0
Federal RCRA Generators	Site & Adjoining	Yes	1
Federal Institutional Control/ Engineering Control Registry	Site	No	0
Federal ERNS	Site	No	0
Federal Brownfields	½ mile	No	3
State and Tribal NPL	1 mile	No	0
State and Tribal CERCLIS	½ mile	No	0
State and Tribal Landfill or Solid Waste Disposal Sites	½ mile	No	0
State and Tribal LTANKS/LUST	½ mile	Yes	12
State and Tribal Registered UST	Site & Adjoining	Yes	1



SUMMARY OF FEDERAL, STATE AND TRIBAL DATABASE FINDINGS			
Regulatory Database	Approximate Search Distance	Site Listed?	# Properties Listed
State and Tribal Registered AST	Site & Adjoining	No	0
State and Tribal Institutional Control/Engineering Control Registry	Site	No	0
State and Tribal Voluntary Cleanup Site	½ mile	No	0
State and Tribal Brownfield Sites	½ mile	No	0
SCRD Drycleaners	¼ mile	No	1
Historical Auto Stations Database (HISTAS)	¼ mile	No	53
Historical Cleaners	¼ mile	No	42

*\*DECA notes that according to ASTM E 1527-13, Section 8.1.2.1, the search distance may be reduced at the discretion of the environmental professional. The potential to impact the site, including DECA’s decision to reduce the search distances, was based on several factors including, but not limited to: regulatory status by applicable agencies, medium impacted, distance from the site, historical use of the site and surrounding properties, estimated direction of groundwater flow, soil/geologic factors, urban setting, and other factors. In this case, there were no databases with reduced search distances.*

The site was identified on the RCRA-NonGen, FINDS, TN LUST, TN RGA LUST, TN UST, TN HIST LUST, NYMANIFEST and HISTCL databases under the names MCI Telecommunications Corporation and W.R. Grace & Company. These listings are summarized as follows:

**Federal Resource Conservation and Recovery Act (RCRA):** A NonGen is a former registered/regulator generator which does not presently generate hazardous waste. The site was listed on the RCRA-NonGen database under the name W.R. Grace & Co. and is discussed below.

- o W.R. Grace & Co. (USEPA ID No. TND044877918), P.O. Box 277. This facility reportedly operated as a hazardous waste generator November 1980. No violations were identified associated with this listing, and there is no reported evidence in the database search to suggest that this facility presents an environmental concern to the site. W.R. Grace & Co. is also listed on the MANIFEST database as generating PCB wastes in 1991 under a different and possibly temporary EPA generator ID number.

**Facility Index List (FINDS):** The FINDS database is not mandated by ASTM. Typically, the FINDS database contains both facility information and ‘pointers’ to other sources that contain more detail. W.R. Grace & Co. is also included on the FINDS database. In this case, no relevant information was provided regarding the FINDS listing, although the site’s inclusion on the FINDS database is likely attributable to its inclusion on the RCRA database.

**State and Tribal Registered UST Database:** MCI Telecommunication Corp., was listed on the State UST and HIST UST databases (ID No. 9792144) as having one registered tank, a 2,000-gallon fiberglass

reinforced plastic [FRP] UST, containing diesel fuel, installed in August 1986 and removed in October 1996. Information included in the 2013 EnSafe Phase I ESA, summarized in Section 5.3.3, indicates that the tank was used by MCI as part of its microwave antenna facility, and was located in the southeast corner of the lower lobby level, west of the generator room. The tank was removed in 1996. Upon its removal, petroleum-impacted soils were identified, which resulted in a LUST incident being filed for the site. Subsequent remedial activities and sampling was conducted under the oversight of the TDEC and the spill closed (see LUST database listing below and Section 5.3.3). The closed LUST listing is considered a historical recognized environmental condition (also see Sections 1.0 and 6.5.1).

State and Tribal Leaking Underground Storage Tank (LUST) Database: MCI Telecommunication Corp., was identified on the LUST database related to one closed release incident. The incident is related to the discovery of petroleum impacted soils during the above-referenced removal of a diesel fuel UST. No additional details were provided in the database; however, as detailed in Section 5.3.3, the impacts were remediated to the satisfaction of the TDEC and the site status is classified as '1a Completed Tank Closure'. The closed LUST listing is considered a historical recognized environmental condition (also see Sections 1.0 and 6.5.1).

Historical Cleaners (HISTCL): This database provides information compiled by EDR from various sources which identify potential facilities that were potentially historically occupied by a dry cleaners, cleaners, laundromat, cleaning/laundry, wash & dry, etc. The site address 106 N. Main Street was identified on the HISTCL database under the name of a former occupant George Place Hatters. This facility was not cross-referenced on any other database indicative of a hazardous waste generation or chemical/petroleum release; therefore, this listing is unlikely to represent a significant environmental concern to the site.

The database search generated information on the following listings for the surrounding properties within ASTM radius guidelines that could potentially impact the site:

**Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) – No Further Remedial Action Planned (NFRAP):** CERCLIS-NFRAP listings are those facilities that were removed from the CERCLIS list following an initial investigation because either no contamination was found or contamination was not serious enough to warrant Superfund Action or NPL consideration.

One CERCLIS-NFRAP site, Shulton Inc. - Toiletries Division, 1725 South 3<sup>rd</sup> Street, was identified within one-half mile of the site. However, this facility is incorrectly mapped as being located at North 3<sup>rd</sup> Street and is actually located over three miles south of the site. The USEPA completed a preliminary assessment of this property in August 1984 and it was subsequently archived. Nine RCRA violations exist for the facility; however, corrective action was taken by the responsible parties and each of the violations has been resolved. Based on this information, its distance and hydraulically crossgradient location (three miles south) it is unlikely that this listing represents a significant environmental concern to the site. The Shulton Inc. property is also listed on the RCRA-NonGen database.

**Federal Resource Conservation and Recovery Act (RCRA):** This database includes selective information on facilities which generate, transport, store, treat and/or dispose of hazardous waste as defined by the

Resource Conservation and Recovery Act (RCRA). One adjoining property was listed on the RCRA database, and is summarized as follows:

- City of Memphis - Former Police HQ Building (USEPA ID No. TNR000017566), 128 Adams Avenue, adjacent to the north, across Adams Avenue and hydraulically crossgradient of the site. This facility reportedly operated as a RCRA-SQG since November 2003. It is not cross referenced on the MANIFEST database, but is identified as generating lead and dimethyl sulfate. No RCRA violations exist for this property, and there is no reported evidence in the database search to suggest that this property presents an environmental concern to the site.

**Federal Brownfields Sites:** A Brownfield site is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant or contaminant. The US Brownfields database includes Cooperative Agreement Recipients (CARs) and Targeted Brownfields Assessment (TBA) sites. These listings receive direct and/or indirect funding from the USEPA to conduct site investigation and/or remediation.

Three US Brownfields listings (Firestone Tire and Rubber, 138 Poplar Avenue; Vacant Building, 26 S. Main Street; and Wolf River Harbor, Lower Mouth to A.W. Willis Bridge) were identified within a one-half mile radius of the site. For each of the listed properties, the USEPA provided funding to conduct Phase I ESAs. No additional information is provided in the database. Each of the three listed Brownfields facilities are located over one-eighth mile and hydraulically cross- to downgradient of the site. In addition, given the dense urban nature of the surrounding area, and that the site and surrounding area utilize potable water from a municipal source, it is unlikely that these US Brownfield listings represent a significant environmental concern to the site.

**State and Tribal LUST:** Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. The Tennessee Department of Environment and Conservation (TDEC) administers the LUST program in Tennessee.

Twelve listings were identified on the TN LUST database within a one-half mile radius from the site. Eleven of the twelve listings have received regulatory closure from the TDEC. Typically regulatory agencies such as the TDEC issue a 'closed' status when investigative and/or remedial actions have been adequately completed and all related paperwork has been submitted to and approved by the appropriate department.

The one active LUST listing is for the Greyhound Terminal, 203 Union Avenue, located approximately 1,860 feet south and hydraulically crossgradient of the site based on the assumed direction of groundwater flow. The status of this facility is identified as 'Closure Monitoring'. Based upon its distance, regulatory status, presumed hydraulically crossgradient location and that the site and surrounding area utilize municipally supplied drinking water, DECA considers this listing unlikely to be present a significant environmental concern for the site. This facility was also listed on the LUST TRUST, which indicates that it is eligible for reimbursement for remediation costs from the TN Petroleum UST Fund.

**State and Tribal Registered UST:** USTs are regulated under Subtitle I of the RCRA and must be registered with the state department responsible for administering the UST program. In Tennessee, these data come from the TDEC Facility & Tank Report database.

One State UST facility is associated with an adjacent property and is summarized as follows:

- Fire Department (PBS ID No. 9791111), 118 Adams Avenue, located adjacent to the north, across Adams Avenue and hydraulically crossgradient of the site. This property is listed as having one 500-gallon steel UST containing gasoline, installed in 1961 and removed in 1990. This property was not cross-referenced on the LUST or other databases indicative of a release; therefore, it is unlikely to represent an environmental concern to the site. This facility was also listed on the TN Historical UST database (HIST UST).

**State Coalition for Remediation of Drycleaning Facilities (SCRD DRYCLEANERS):** One SCR DRYCLEANERS listing (Memphis City Schools, 285 Court Avenue) was identified within a one-quarter mile radius of the site. This facility is a former drycleaner that is being redeveloped into a new public school. Soil and groundwater have been impacted with various chlorinated solvents and petroleum hydrocarbons attributed to historic dry cleaning operations. Some soil excavation and groundwater remediation have been conducted, and additional remedial activities are ongoing. Based on the information in the database report, its distance and presumed hydraulically crossgradient location, it is unlikely that this facility represent a significant environmental concern to the site.

**Historical Auto Stations Database (HISTAS):** The HISTAS database provides information compiled by EDR from various sources which identify potential facilities that were historically occupied by a filling/gasoline/service station, auto repair shop, auto service station, etc.

Fifty-three HISTAS facilities were listed in the database report within a one-quarter mile radius from the site. There is no evidence in the database to indicate that these former facilities are a potential a concern for the site. One of the identified HISTAS facilities, Schneider's Supply House (103 North 2<sup>nd</sup> Street), is located adjacent to the site. This facility was not cross-referenced on the LUST or any other database indicative of a release. Therefore this listing is unlikely to represent a significant environmental concern to the site.

**Historical Cleaners (HISTCL):** The database provides information compiled by EDR from various sources which identify potential facilities that were potentially historically occupied by a dry cleaners, cleaners, laundromat, cleaning/laundry, wash & dry, etc.

Forty-two HIST CLEANERS facilities were listed in the database report within a one-quarter mile radius from the site. There is no evidence in the database to indicate that these former facilities are a potential a concern for the site. None of the identified HIST CLEANERS facilities was associated with an adjacent property.

**Orphan Properties:** The database report also includes a list of 10 "orphan" properties; i.e., listings identified in the vicinity of the site that could not be plotted due to inaccurate or incomplete information within the database. These listings are for facilities located on various databases. Through

area reconnaissance and based on the limited information included in the database, DECA determined that all of the “orphan” properties appeared to be outside the ASTM minimum search distance; therefore, these listings are not expected to be a concern relative to the site.

## 5.2. INTERVIEWS AND USER PROVIDED INFORMATION

The following information was provided to DECA to help identify the possibility of recognized environmental conditions in connection with the site:

### 5.2.1. INTERVIEWS

The following site and municipal representatives, and/or other persons knowledgeable of the site were interviewed and/or websites reviewed during the preparation of this report:

INTERVIEWS		
Name and Organization	Street Address and/or Web Address	Phone Number and/or Email
Isaac Thomas, Owner’s Representative, Thomas Investments LLC		305.766.8645 or <a href="mailto:thomasinvestmentsllc@gmail.com">thomasinvestmentsllc@gmail.com</a>
Shelby County Assessor’s Office	<a href="http://www.assessor.shelby.tn.us">http://www.assessor.shelby.tn.us</a>	
Dwan L. Gilliom, Director, City of Memphis Public Works	125 North Main Street, Room 608 Memphis, TN 38103 <a href="http://www.memphistn.gov/Government/PublicWorks.aspx">http://www.memphistn.gov/Government/PublicWorks.aspx</a>	901.636.6742 or <a href="mailto:pubworks@memphistn.gov">pubworks@memphistn.gov</a>
Administration Division, City of Memphis Fire Services	65 South Front Street Memphis, TN 38103 <a href="http://www.memphistn.gov/Government/FireServices/Administration.aspx">http://www.memphistn.gov/Government/FireServices/Administration.aspx</a>	901.636.1400 or <a href="mailto:mfdinquiries@memphistn.gov">mfdinquiries@memphistn.gov</a>
Melanie Stanley, Paralegal, Tennessee Department of Environment and Conservation	312 Rosa L. Parks Avenue, 2 <sup>nd</sup> Floor Nashville, TN 37243	615.253.5407 or <a href="mailto:melanie.stanley@tn.gov">melanie.stanley@tn.gov</a>

### 5.2.2. USER PROVIDED INFORMATION

DECA was not provided with a completed pre-survey questionnaire. A copy of the pre-survey questionnaire sent to Mr. Isaac Thomas is included in Appendix D.

In lieu of the completed pre-survey questionnaire, DECA was provided with the following previous environmental assessment of the site:

USER PROVIDED INFORMATION	
Title and Author	Report Date
Phase I Environmental Site Assessment; prepared by EnSafe Inc.	November 27, 2013

Pertinent information obtained from DECA’s review of the above-listed documentation is in Section 5.3.3 and other applicable sections of this report.

**5.2.3. ENVIRONMENTAL PERMITS**

Based on the information obtained as part of this assessment, no environmental permits are currently required for the site.

**5.3. HISTORICAL USE INFORMATION**

The following is a summary of the historical uses of the site and surrounding properties as determined by DECA’s research of the referenced historical sources:

**5.3.1. PAST USES OF THE SITE**

*ASTM E 1527-13 states that “all obvious uses of the property shall be identified from the present, back to the property’s first developed use, or back to 1940, whichever is earlier.”*

The past uses of the site, as determined by a review of a previous Phase I ESA report, aerial photographs, Sanborn maps, historic USGS topographic maps, city directories, and tax assessor records are summarized in the following table:

PAST USES OF THE SITE	
Years	Use
Prior to 1883-1926	Developed with multiple low-rise (two- to four-story) commercial/retail buildings fronting on Main Street, Adams Avenue and 2 <sup>nd</sup> Street. Northwestern portions were destroyed by fire in 1891.
1926-1950	Northwestern portions were redeveloped with the 3-story Baltimore Building (multi-tenant commercial/retail)
1950-1965	Northeastern portions are vacant/undeveloped, with remaining portions occupied by low-rise commercial/retail buildings
1965-Present	Developed with the existing 38-story high-rise office building (currently vacant)

DECA’s review of historical information did not reveal evidence of recognized environmental conditions in connection with the site. However, it should be noted at a former tenant of the Baltimore Building (George’s Place Hatters, 106 N. Main Street) was identified on the EDR historic cleaners (HISTCL). Given

that this facility was not cross referenced on any regulatory databases indicative of hazardous waste generation or chemical/petroleum spills, that the site was redeveloped with the existing building, including the excavation of a basement area, that the suspected dry cleaning facility ceased operations over 60 years ago, and the site and surrounding area are supplied potable water from a municipal source, this listing is unlikely to represent a significant environmental concern to the site.

### **5.3.2. PAST USES OF ADJOINING PROPERTIES**

According to the historical information reviewed for this assessment, the adjoining properties were densely developed with various commercial/retail uses by the late-1880s, with municipal uses (fire, police and courthouse) to the north, a church to the east and a hotel to the west. The existing county courthouse was constructed to the northeast in 1909, with the existing buildings to the north (Crump, police and fire department buildings) to the north constructed between 1909 and 1911. By 1950, a department store was located to the southwest and a parking lot was to the southeast. The Civic Center and City Hall were constructed to the northwest by the early 1960s, with the additional development and the plaza constructed in the 1970s and early 1980s. Properties to the southwest are shown as undeveloped in the early-1960s and redeveloped with the existing high-rise residential/retail building by the late-1960s. Interstate 40 was constructed further to the north in the early 1970s.

DECA's site survey and review of historical information did not reveal evidence of recognized environmental conditions in connection with the adjoining properties. Several adjacent commercial properties were noted to be hazardous waste generators, petroleum storage facilities and/or were associated with closed petroleum spills; however, these listings, detailed previously in Section 5.1, were determined unlikely to present a significant environmental concern to the site.

### **5.3.3. PREVIOUS ENVIRONMENTAL ASSESSMENTS**

DECA reviewed a Phase I ESA prepared by EnSafe Inc. and dated November 27, 2013. As of the issue date of the 2013 report, the site was developed with the currently existing 38-story commercial building. The building was partially occupied with various office tenants. According to the report, the following historical sources were reviewed: aerial photographs from 1931 to 1990, city directories from 1883 to 2012, and Sanborn maps from 1888 to 1969, as well as personal interviews and local agency records searches. According to the historical review, the site was previously occupied by various commercial and retail uses from at least the 1880s. A fire that occurred in 1891 destroyed buildings on the northwest portion of the site, and this portion was redeveloped with the Baltimore Building circa 1926, which included multiple office and retail tenants. The northwestern portions of the site were demolished in the mid-1940s, with the southeastern buildings demolished in the 1950s and the area utilized as a surface parking lot. The site was re-developed with the existing office building by 1965.

The report noted that a former tenant, MCI Telecommunications Corporation, installed a 2,000-gallon diesel fuel UST at the southeast corner of the lower lobby level, west of the generator room, in August 1986, to fuel an emergency backup generator. MCI was identified on the UST and HIST UST databases related to this tank. The tank was removed in October 1996, with documents submitted to the TDEC describing the tank and associated components to be in excellent condition. Woodstock Industrial Services removed 1,400 gallons of diesel fuel from the tank prior to its removal. The tank had been set



in a concrete vault, and field screening did not detect elevated concentrations of organic vapors. Four confirmatory post-excavation soil samples were collected from the base of the excavation following the tank removal and submitted for laboratory analysis of total petroleum hydrocarbons (TPH) diesel-range organic (DRO) compounds. TPH DRO was detected in a sample at a concentration of 25.8 parts per million (ppm) and resulted in the TDEC assigning a spill incident for the site (LUST and RGA LUST database listings) and requiring the collection of an additional sample outside the tank vault. Results for this sample indicated a TPH DRO concentration of 13.9 ppm. Stockpiled soil excavated from the vault contained TPH DRO at a concentration of 29.1 ppm. Each of these concentrations was below the applicable TDEC screening levels. In addition, approximately 520 gallons of water was removed from the tank excavation. This water was sampled for TPH DRO, with results indicating no detections. Based on the soil data, the TDEC allowed the excavated soils to be utilized to backfill the excavation and the floor area patched with concrete to match existing grade. The TDEC Division of Underground Storage Tanks (DUST) issued a Final Approval of UST Closure letter on March 5, 1997. Give the regulatory closure of the spill file the 2013 report concluded that the former UST did not represent a REC. DECA concurs with this opinion, but notes that the former UST and closed spill file should be classified as a historical recognized environmental condition (see Sections 1.0, 5.1 and 6.5.1).

The 2013 report identified one recognized environmental condition in connection with the site, which is summarized as follows:

- Based upon the proximity and historical uses of the southeastern adjacent property, the potential for releases from abandoned USTs to have migrated to the site is considered a REC. Potentially impacted media includes soil, soil vapor, and groundwater.

DECA notes that the southern adjacent property was not identified on any regulatory agency databases indicative of petroleum storage and/or a release. In addition, given the hydraulically crossgradient location of properties to the south/southeast, that the tanks were likely removed during the redevelopment of the property and that the site and surrounding properties utilize municipally supplied potable water, it is DECA's opinion that this property is unlikely to represent a significant environmental concern to the site.

In addition to the aforementioned REC, the 2013 report identified several business environmental risks (BERs), which are summarized as follows:

- Based upon the length of time the surrounding densely urban area has been commercially developed with uses involving hazardous substances and petroleum products prior to environmental regulations, the potential for regional soil and groundwater poses a BER related to soil vapor intrusion during redevelopment activities and residential uses.

DECA notes that given the time of operation for these nearby properties and their potential prior use, the area cannot be confirmed of having no subsurface impacts; however, no specific operation or activity was noted that warrants additional investigation at this time. Several of the adjacent/surrounding properties were listed on the regulatory databases indicating hazardous waste generation and/or releases; however, these listings, detailed previously in Section 5.1, were determined unlikely to present a significant environmental concern to the site.



- Although the reported concentrations of petroleum hydrocarbons in site soils following the removal of the diesel fuel UST are considered de minimis, there is a potential for vapor intrusion from this area. This risk should be considered as part of future redevelopment and occupancy plans.

Given the residual concentrations of petroleum constituents identified in site soils and that almost 15 years have passed since the UST was removed, the possibility of a vapor intrusion condition is unlikely. Further, the tank was located within an unoccupied parking garage area, where vapors (if) would be addressed by the garage vehicle exhaust ventilation system.

- Several containers of unknown/unspecified liquids, including several 55-gallon drums were observed throughout the various mechanical rooms and maintenance areas. These materials should be characterized and properly disposed of offsite.

DECA concurs that the identified discarded chemicals be properly characterized and disposed of offsite.

The 2013 report also identified staining in the parking garage, loading dock and other areas of the building as de minimis. The 2013 report did not provide any recommendations for additional investigation of the site. The text portions of the 2013 report are included in Appendix C.

#### 5.3.4. AERIAL PHOTOGRAPHS

DECA reviewed aerial photographs obtained from EDR to confirm prior uses of the site and nearby properties. Copies of the available aerial photographs are included in Appendix C. The results of the aerial photograph review are summarized in the following table:

AERIAL PHOTOGRAPHS		
Year	Site	Adjoining and Surrounding Properties
1937	Developed with multiple low-rise buildings fronting along Main Street (west), Adams Avenue (north) and 2 <sup>nd</sup> Street (east). An alleyway divides the site into eastern and western halves. In general, the site development is consistent with the 1907 and 1950 Sanborn maps (see Section 5.3.5).	Adams Avenue is to the north, followed by low-rise commercial buildings (west) and the existing fire and police buildings (west). The county courthouse building is to the northeast. Main Street is to the west, followed by several large commercial buildings, consistent with the hotel and department store noted on the 1950 Sanborn map. An alleyway is to the south, followed by densely developed low-rise buildings, with Jefferson Avenue beyond. 2 <sup>nd</sup> Street is to the east, followed by a church and low-rise commercial buildings.
1958	Similar to the previous aerial photograph, except that the northeastern portions of the site appear undeveloped	Similar to the previous aerial photograph, except that several surface parking lots are now visible to the southeast

1965	Developed with a high-rise commercial building, consistent with the current structure	Similar to the previous aerial photograph, except that the properties to the southwest, across Main Street are shown as undeveloped land. Some additional mid- and high-rise development is to the northwest, with ongoing development further to the north.
1971-1973	Similar to the previous aerial photograph	Similar to the previous aerial photograph, except that the properties to the southwest, across Main Street have been re-developed with the existing commercial buildings. Some additional mid- and high-rise development is to the north and Interstate 40 is being constructed further to the north.
1980-2012	Similar to the previous aerial photograph	Similar to the previous aerial photograph, except that the existing City Hall plaza has been constructed to the northwest and the southeast adjacent property is now shown as a surface parking lot

The results of the aerial photograph review did not identify recognized environmental conditions in connection with the site or surrounding properties. However, due to the long term, dense urban use of the site and surrounding areas, the aerial photographs did not provide significant details regarding potential environmental concerns at the site or surrounding properties. Therefore, DECA primarily relied on a review of the other historical sources to determine the former uses of the site and surrounding properties.

### 5.3.5. SANBORN MAPS

Sanborn Maps constitute a source of prior site uses of properties for many cities and towns throughout the United States. The maps were originally created to assist insurance underwriters in evaluating the potential fire risk of structures requiring insurance. In addition, these maps are also useful in determining the previous uses of a property. Sanborn Maps often contain information relating to uses of individual buildings, location of certain petroleum and chemical storage tanks, and the storage of other potentially toxic substances. Sanborn Maps begin their coverage in 1866.

DECA reviewed Sanborn Maps obtained from EDR to confirm prior uses of the site and nearby properties. The following table summarizes the findings of DECA’s review of the available Sanborn Maps:

SANBORN MAPS		
Year	Site	Adjoining and Surrounding Properties
1888	Developed with approximately 19 low-rise buildings (2 to 4-stories), fronting along Main Street (west), Adams Avenue (north) and 2 <sup>nd</sup> Street (east). The buildings are identified as a boarding house and various commercial/retail uses, including a piano	Adams Avenue is to the north, followed by retail stores, a police station and a fire station. Main Street is to the west, followed by a hotel and retail stores. Commercial/retail uses are to the south, including tin smiths, furniture shops and boarding houses. 2 <sup>nd</sup> Street is to the east, followed by a church, Turkish

	repair shop, furniture shops, wallpaper and printing shop and a museum. The central portion of the site is occupied by an alleyway.	baths, a steam laundry and a warehouse.
1897	Generally consistent with the 1888 map depictions, except that the northwest portion is noted to have been damaged by a fire. A young men's association occupies the northeast portion.	Similar to the previous Sanborn Map, except that several of the commercial/retail tenants have changed
1907	Similar to the previous Sanborn Map, except the former boarding house at the central portion is now identified as a hotel. In addition, the northwest portions have been redeveloped with a retail store and a printing and binding shop. Several of the other retail tenants have also changed.	Similar to the previous Sanborn Map, except that a women's jail and a stone yard are across Adams Avenue the north and a memorial hall is across 2 <sup>nd</sup> Street to the east. Several of the surrounding retail tenants have also changed, including a liquor store and bakery to the west.
1950-1952	Similar to the previous Sanborn Map, except that the northeast portions are undeveloped. Building tenants include retail stores, restaurants and a hotel. The alleyway at the center of the site is now identified as North November 6 <sup>th</sup> Street.	Properties to the north of Adams Avenue (east) have been redeveloped with a police station and fire house. Properties to the northeast have been developed with the existing county courthouse. Properties to the southwest have been developed with small retail stores and a department store. Properties to the south consist of small retail stores. A goodwill facility is visible to the east, with a parking lot to the southeast. Gasoline tanks are south of the firehouse to the north and within the parking lot to the southeast.
1965-1969	Developed with a high-rise commercial building, consistent with the current structure. A bank, several retail stores and parking garages are noted on the first and several upper floors.	A bank and office/retail buildings are across Adams Avenue to the north (west), with City Hall to the northwest. A hotel and retail stores are across Main Street to the west, with undeveloped land to the southwest. Properties to the south and east are shown generally consistent with their 1952 map depictions.

DECA's review of the above Sanborn Maps did not reveal evidence of recognized environmental conditions in connection with the adjoining properties. However, DECA notes that several of the adjacent properties were identified to be hazardous waste generators, petroleum storage facilities and/or were associated with closed petroleum spills. These listings, detailed previously in Section 5.1, were determined unlikely to present a significant environmental concern to the site.

### 5.3.6. HISTORIC TOPOGRAPHIC MAP

DECA reviewed the 1997 Northwest Memphis, TN-AR topographic quadrangle map, as well as several historic Memphis, TN-AR (1925, 1940, 1955, and 1960) and Northwest Memphis, TN-AR (1965, 1973, and 1993) topographic quadrangle maps provided by EDR. The 1925 map shows the area surrounding the site as developed with an extensive road network, generally consistent with the existing roadways; however, no buildings or other structures are depicted. The Wolf River and Mud Island are further to

the west. The 1940 and 1955 maps show the site and most of the surrounding areas as shaded black indicating they are densely developed with buildings. An unshaded block, consistent with the existing park is further to the south. The 1960 through 1997 maps show the site and surrounding properties as shaded pink to indicate dense, urban development with no improvements depicted, except for several schools, churches and landmark buildings scattered throughout the surrounding area, including the northern adjacent municipal buildings and church adjacent to the east. The 1965 through 1993 maps also show the site developed with a rectangular-shaped building, consistent with the current structure.

A portion of the topographic map that includes the site is in Appendix B and the historic topographic maps are in Appendix C.

### **5.3.7. CITY DIRECTORIES**

City directories have been published for cities and towns across the United States since the 1700s. Originally a list of residents, the city directory developed into a sophisticated tool for locating individuals and businesses in a particular urban or suburban area. Twentieth century directories are generally divided into three sections: a business index, a list of resident names and addresses, and a street index. With each address, the directory lists the name of the resident or, if a business is operated from this address, the name and type of business (if unclear from the name).

EDR conducted a search and provided copies of available historical city directory listings for the site and adjacent properties. The historical city directory listings were reviewed to identify information regarding past uses of the site and surrounding properties to determine if historical usage represented a recognized environmental condition to the site. DECA notes that the site and adjoining properties consist of older, multiple-story, multi-tenant buildings and have had multiple addresses over time; therefore, a complete analysis of the onsite directory listings was not feasible given that several hundred tenants were identified on the city directories for the site, adjoining and nearby properties. Based on the volume of city directories, DECA did not tabulate these listings and they are not included in the appendices of the report but can be provided separately upon request.

Listings for the site identify multiple commercial/ retail tenants from the mid-1920s through the early-1960s. Listings for the late 1960s through 2013 identify the site as being occupied by numerous law firms and legal services companies, insurance agencies, financial companies, retail stores and parking garages. W.R. Grace was also noted as occupying multiple floors from the late 1960s through the early 1990s. These listings are consistent with the construction of the current office building in 1965.

Surrounding properties also consisted of various commercial/retail properties from the 1920s, with municipal (fire and police) uses to the north. Properties along Main Street consisted predominantly of municipal/government uses, residential properties (apartments), retail stores and restaurants from the 1960s through 2013. Properties on 2<sup>nd</sup> Street include Calvary Church, municipal offices, parking lots, legal services and retail uses. Properties along Adams Avenue have generally consisted of various municipal uses (police, fire, courthouse and legal services offices) and commercial/retail uses. Given the urban nature of the surrounding properties, that none of the adjacent properties were listed on the regulatory databases indicating a release, except for one hazardous waste generator and one petroleum storage facility, and that the site and surrounding area utilize municipally-supplied drinking water, DECA

concludes that these listings are not expected to present a significant environmental concern to the site.

**5.3.8. CHAIN OF TITLE REVIEW**

The Client did not engage DECA to perform a Chain of Title review nor was a Chain of Title provided to DECA for review. Given that the historical use of the site was established through a review of a previous Phase I ESA; aerial photographs back to 1937, historic topographic maps back to 1925, Sanborn maps back to 1888, and city directories back to 1926, DECA determined that the historical use of the site was properly assessed.

**5.3.9. LOCAL GOVERNMENT AGENCY RECORDS**

**TAX ASSESSOR INFORMATION**

The following salient property data was obtained from the Shelby County Assessor's Office website.

TAX ASSESSOR INFORMATION	
Parcel / Lot I.D.	002012 00001C
Legal Description	Not Provided
Land Area, Acres	1.0040
Building Area(s), SF	792,873
Year Built	1965
Owner	One Hundred North Main LLC

Copies of the pertinent records are included in Appendix C.

**FIRE CODE COMPLIANCE**

DECA submitted a Freedom of Information Act (FOIA) request regarding storage tanks, chemical spills, or any other environmental responses or concerns at the site to the Memphis Fire Services Department - Administrative Division to obtain information indicating recognized environmental conditions in connection with the site. No response was received as of the issue date of this report, but any pertinent findings will be forwarded to the Client upon receipt.

**BUILDING CODE COMPLIANCE**

DECA submitted a FOIA request regarding material building code concerns at the site to Mr. Dwan Gilliom, the Director of the Memphis Public Works Department, to obtain information indicating recognized environmental conditions in connection with the site. No response was received as of the issue date of this report, but any pertinent findings will be forwarded to the Client upon receipt.

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION**

DECA submitted a FOIA request to the Tennessee Department of Environment and Conservation (TDEC) for information regarding the former onsite UST and LUST listing. DECA received a response from the TDEC, dated March 12, 2015, which indicated that no files were maintained for the site by this agency.

## 6.0. SITE SURVEY

Mr. Jeff Doss representing DECA performed a walk-through survey of the site on March 2, 2015. A summary of the walk-through survey and identification of property representatives who allowed access to the site or who were contacted to obtain information for this assessment is provided in the following table.

ON-SITE SURVEY AND INTERVIEW SUMMARY*	
Survey Date	March 2, 2015
Field Observer	Mr. Jeff Doss
Weather Conditions	Cloudy/rainy with temperatures of approximately 50s° Fahrenheit
Escort During Survey	Mr. Isaac Thomas, Thomas Investments LLC
Interviewed Prior to or After the Survey on Site	Mr. Thomas

\*Contact information for the listed representatives is included in Section 5.2.1

### 6.1. METHODOLOGY AND LIMITING CONDITIONS

Representative areas of the site were observed by DECA during the course of the walk-through survey, including the exterior portions, building exteriors, roofs, building systems (HVAC, plumbing, electrical, etc.) and interior areas (tenant spaces and common areas).

No limiting conditions were encountered during the site survey.

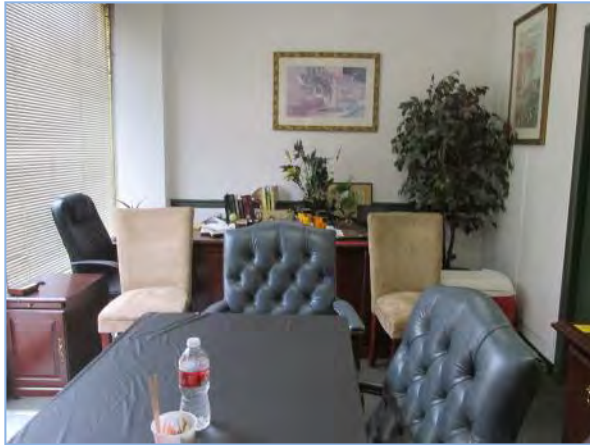
### 6.2. DESCRIPTION OF IMPROVEMENTS

#### 6.2.1. GENERAL DESCRIPTION OF THE SITE

The site improvements consist of a 38-story commercial office building, with basement. An 8-level parking garage comprises the basement level and portions of the first seven floors. The building contains 792,873 gross SF of floor area, occupies the entire footprint of the site and is currently vacant/unoccupied; however, it is proposed to be renovated into a hotel and residential apartments.

Representative areas of the site were observed by DECA during the course of the walk-through survey, including the exterior portions, building exteriors, roofs, building systems (HVAC, plumbing, electrical, etc.) and interior areas (tenant spaces and common areas).





View of a typical tenant office



View of the parking garage



View of a typical hallway



View of the main entrance lobby



View of a typical tenant conference room



View of a typical tenant restroom





View of a typical elevator lobby



View of a typical tenant meeting room



View of a typical tenant office reception area



View of the restaurant dining area



View of the restaurant kitchen on the 37<sup>th</sup> floor



View of the outdoor restaurant seating area on the 36<sup>th</sup> floor rooftop

**6.2.2. UTILITIES**

According to Mr. Thomas, the following is a table of utilities supplied to the site and the names of the suppliers:

UTILITIES	
Utility	Provider
Domestic Water	Memphis Light Gas & Water (MLGW)
Sanitary Sewer	City of Memphis Public Works
Storm Sewer	City of Memphis Public Works
Electricity	MLGW
Natural Gas	MLGW

**6.3. CHEMICAL USES**

No hazardous substances or activities involving the use of hazardous substances were observed onsite during the survey. The regulatory records review and interviews indicated that a former tenant W.R. Grace was identified as a RCRA hazardous generator; however, no violations were associated with this listing. In addition, another former tenant MCI Telecommunications formerly maintained a diesel fuel UST, which was reportedly removed in 1996. A spill incident associated with the UST was remediated to the satisfaction of the TDEC and is considered a historical recognized environmental condition (see Sections 1.0, 5.1, 5.3.3 and 6.5.1). DECA did observe two 55-gallon steel drums located on the main building roof, near the outdoor seating area associated with the former restaurant. Several other smaller discarded containers were also observed in the various mechanical rooms and maintenance areas. One of the drums was labeled as containing DowThem, a commercial heat transfer liquid, likely utilized in the various rooftop HVAC equipment. No evidence of spills or leaks was observed near drums/containers. DECA recommends that the contents of the drums/containers be confirmed and properly disposed of offsite (see Sections 1.0 and 6.8).

**6.4. WASTE GENERATION, STORAGE, AND DISPOSAL**

During the survey, a visual evaluation for the generation, treatment, storage, and/or disposal of regulated and non-regulated wastes at the site was performed. The results are summarized in the following table:

WASTE GENERATION, STORAGE, AND DISPOSAL				
Type of Waste	Storage Location	Quantity/ How Stored	Waste Generation Process	Disposal Method
<b>Regulated Waste</b>				
None	NA	NA	NA	NA
<b>Non-Regulated Waste</b>				
Municipal trash	NA	NA	NA	NA
Storm Sewer	NA	NA	Storm water discharge	City of Memphis
Sewage	NA	NA	NA	City of Memphis municipal sewer

**6.4.1. REGULATED WASTE**

No evidence that regulated wastes are generated, treated, stored or disposed of at the site was observed on the date of the survey. In addition, the regulatory records review and interviews did not reveal evidence of any activities involving the production of hazardous or regulated wastes at the site.

**6.4.2. NON-REGULATED WASTE**

**Solid Waste**

As the site is vacant/unoccupied, no significant quantities of solid wastes are currently generated at the site. A small plastic grease container, likely associated with the former site restaurant was observed in the loading dock area. This container should be removed as part of routine maintenance.

**Storm Sewer**

Storm water from the site discharges to onsite storm drains and curbside drains along the adjacent roadways (Main Street, Adams Avenue and 2<sup>nd</sup> Street). The onsite and curbside drains reportedly discharge to the City of Memphis municipal storm water system.

**Sewage**

According to site personnel, sanitary wastes are discharged to the City of Memphis Public Works municipal sewer system.



View of the waste kitchen grease container in the loading dock area



View of a typical parking garage storm drain

## 6.5. STORAGE TANKS

### 6.5.1. UNDERGROUND STORAGE TANKS

An underground storage tank (UST) is defined in Subtitle I of the Resource Conservation and Recovery Act (RCRA) as “a tank system, including its piping that has at least 10 percent of its combined volume underground.” This term does not include any: (a) Farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes; (b) Tanks used for storing heating oil for consumptive use on the premises where stored; (c) Septic tanks; (d) Pipeline facilities; (e) Surface impoundments, pits, ponds, or lagoons; (f) Storm-water or wastewater collection systems; (g) Flow-through process tanks; (h) Liquid traps or associated gathering lines directly related to oil or gas production and gathering operations; or (i) Storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor. USTs are subject to federal regulations established by the EPA in 40 CFR Parts 280 and 281 if they are used to store either petroleum or substances defined as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), except any substance regulated as a hazardous waste under Subtitle C of RCRA. Owners and operators of regulated USTs are required to register their tanks with the state agency responsible for administering the UST program.

A former site tenant, MCI Telecommunication Corp., was listed on the State UST and HIST UST databases (ID No. 9792144) as having one registered tank, a 2,000-gallon FRP UST, containing diesel fuel, installed in August 1986 and removed in October 1996. Information included in the 2013 Phase I ESA indicates that the tank was used by MCI as part of its microwave antenna facility, and was located in the southeast corner of the lower lobby level, west of the generator room. Upon its removal, petroleum-impacted soils were identified, which resulted in a LUST incident being filed for the site. Subsequent remedial activities and sampling was conducted under the oversight of the TDEC and the spill was ultimately closed. As noted in Section 5.3.3, the closed LUST listing is considered a historical recognized environmental condition (also see Sections 1.0 and 5.1).

No evidence of current or additional former USTs (e.g., vent or fill pipes) was observed onsite at the time of DECA's site survey.

#### 6.5.2. ABOVEGROUND STORAGE TANKS

The site survey identified a small approximately 25- to 50-gallon aboveground storage tank (AST), likely a day tank, located within the generator room. It is likely that the tank as well as the generator were formerly serviced by the 500-gallon diesel fuel UST removed in 1996. No evidence of spills or releases was observed in the vicinity of the AST. If future plans for the site do not included the use of the generator or the AST, then they should be removed in accordance with applicable regulations.

No visual evidence that would indicate the existence of any other current or former or equipment that would require the use of ASTs onsite was observed by DECA during the survey. In addition, the interviews and regulatory database review completed for this assessment did not reveal evidence of current or former ASTs onsite.



View of the diesel fuel AST (day tank) within the generator room

#### 6.6. POLYCHLORINATED BIPHENYLS

Polychlorinated biphenyls (PCBs) are organic chemical compounds that were used extensively in electrical equipment from the late 1920s until the USEPA banned their manufacture in 1978. Since PCBs are good insulators and are non-flammable, they were widely used as coolants and lubricants in oil-filled electrical equipment such as electrical transformers and capacitors, hydraulic elevators, and hydraulic service bay lifts. The site was evaluated for the presence of equipment that could contain PCBs. Per ASTM E 1527-13 and the Client's scope of work, the site survey did not include the investigation of light ballasts, which could also contain PCBs.

Older transformers and other electrical equipment could contain PCBs at a level that subjects them to regulation by the USEPA. PCBs in electrical equipment are controlled by USEPA regulations 40 CFR, Part 761. Under the regulations, there are three categories into which electrical equipment can be classified:



- Less than 50 parts per million (PPM) of PCBs – “Non-PCB” equipment
- 50 ppm-500 ppm – “PCB-Contaminated” electrical equipment
- Greater than 500 ppm – “PCB” equipment

No fluid-containing equipment (i.e., hydraulic trash compactors, electric transformers) suspected of containing PCBs was observed onsite. DECA notes that the building is equipped with 12 traction-driven electric elevators, which do not utilize hydraulic fluid. In addition there is one hydraulic lift reportedly affiliated with the loading dock area. The machinery related to this lift was not accessible at the time of the survey as the site representative was unaware of the location of the mechanical room associated with the lift.



View of the main building elevator lobby



View of elevator equipment in the upper floor mechanical room

#### 6.7. EVIDENCE OF SOLID WASTE DISPOSAL

DECA did not observe evidence of dumping or direct burial activity (such as disturbed soil, filled areas, mounds, or depressions) onsite at the time of the survey.

#### 6.8. OTHER AREAS OF CONCERN

DECA evaluated the site for evidence of the following potential recognized environmental conditions:

OTHER AREAS OF CONCERN		
Area of Concern	Not Observed	Observed
Chemical/Petroleum Odors	X	
Pools of Liquid	X	
Floor Drains and Sumps		X
Stains or Corrosion	X	

OTHER AREAS OF CONCERN		
Area of Concern	Not Observed	Observed
Unidentified Containers		X
Pits, Ponds, or Lagoons	X	
Monitoring or Other Wells	X	
Stained Soil or Pavement		X
Air Quality	X	
Stressed Vegetation	X	

### Floor Drains and Sumps

Several floor drains were observed in the restrooms and mechanical rooms onsite. The floor drains reportedly discharge to the City of Memphis Public Works municipal sewer system. No chemicals are stored in the vicinity of the floor drains. No staining, corrosion, odors, or other evidence of potential environmental impairment was observed around the floor drains.

### Unidentified Containers

DECA observed two 55-gallon steel drums located on the main building roof, near the outdoor seating area associated with the former restaurant. Several other smaller discarded containers were also observed in the various mechanical rooms and maintenance areas. One of the drums was labeled as containing DowThem, a commercial heat transfer liquid, likely utilized in the various rooftop HVAC equipment. No evidence of spills or leaks was observed near drums/containers. DECA recommends that the content of the drums/containers be confirmed and properly disposed of offsite (see Section 1.0).

### Stained Soil or Pavement

DECA observed localized de minimis staining at various locations throughout the parking garage areas, which is consistent with vehicle parking. The de minimis staining is not expected to be a concern for the site.



View of two drums located on the lower building roof



View of a typical onsite floor drain



## **7.0. ASTM NON-SCOPE CONDITIONS**

### **7.1. ASBESTOS**

Asbestos is a naturally occurring mineral characterized by crystals that form long, thin fibers. When disturbed, these fibers can become airborne and enter the body through inhalation or ingestion. Inhalation or ingestion of asbestos fibers may lead to increased risk of developing one or more diseases. Asbestos has been used in the manufacture of hundreds of products. These products are frequently referred to as asbestos-containing materials (ACM). The use of ACM has been gradually phased out by government regulations beginning in the 1970s.

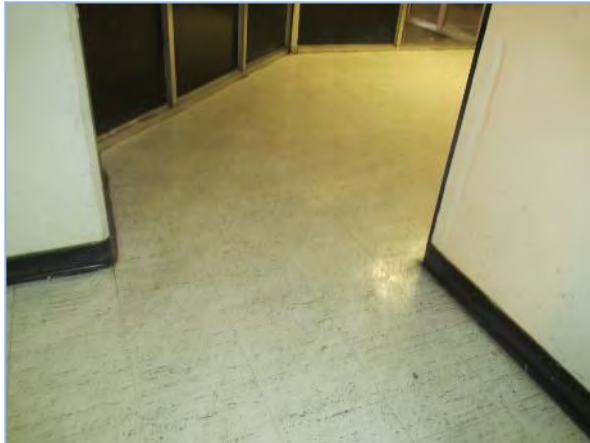
The Asbestos Ban and Phase-Out Rule (ABPO) was published by the USEPA on July 12, 1989. According to the ABPO, certain asbestos-containing products were to be banned at staged intervals over a seven-year period. However, the United States 5<sup>th</sup> Circuit Court of Appeals vacated and remanded most of the rule. As part of the ruling, it left intact the portion banning ACM that was not being manufactured, produced, or imported on the date the rule was published. In 1993, the USEPA published an update clarifying which asbestos-containing products are no longer subject to the ABPO and therefore remain in use. The following building materials were specifically included: vinyl-asbestos floor tile, roofing felt, and roof coatings. According to the USEPA, other building materials that possibly still contain asbestos include caulking putties, construction mastics, and textured coatings. Therefore, based on this information and the construction date, ACM was likely used in some of the building materials.

DECA performed a preliminary visual screening survey of the site to identify suspect ACM and to assess their general condition. The survey consisted of noting suspect ACM (materials that were readily accessible and visible during the site survey) that are commonly known to potentially contain asbestos. Sampling and analysis of suspect ACM observed in good to fair condition was not performed part of this assessment. No friable suspect ACM surfacing, spray-on, or thermal system insulation materials were observed in the areas inspected onsite. All exposed pipes were either uninsulated or were insulated with fiberglass or foam rubber. DECA observed non-friable vinyl floor tiles and friable acoustic ceiling tiles in good condition in some areas of the building. These materials were not sampled to avoid needlessly damaging them. In addition, although the roofing materials are assumed to be a suspect ACM, samples were not collected to avoid potential damage to the roof. Finally, it is possible that suspect ACM are located in areas not accessed by DECA during the survey. The findings of the asbestos survey are summarized in the following table:

<b>ASBESTOS SCREENING SURVEY RESULTS</b>				
<b>Material Observed</b>	<b>Location</b>	<b>Friable</b>	<b>Condition</b>	<b>Confirmed/ Suspect ACM</b>
Vinyl floor tile & associated mastic	Throughout	No	Good	Suspect
Ceiling tile	Throughout	Yes	Good/Fair	Suspect
Wallboard & joint compound	Throughout	No	Fair	Suspect
Other construction mastics	Throughout	No	N/A	Suspect
Roofing materials	Roof	No	N/A	Suspect
Other suspect building materials	Concealed - not observed during survey	N/A	N/A	Suspect

The suspect ACM, where observed, are in good to fair condition and do not pose an immediate concern. The materials noted in the above table are to be considered suspect ACM until such time that a comprehensive survey is completed and tests are performed that demonstrate that no asbestos is present in the materials, or construction material specifications are provided that state that no asbestos was used in the materials.

Due to the presence of suspect ACM onsite, DECA recommends that if activities in the building (i.e., renovation or demolition) will disturb any suspect asbestos material, then an asbestos survey be performed to determine if ACM are present prior to the proposed work. If ACM are present, then a licensed contractor must be retained to remove the asbestos in accordance with federal, State and local regulations. DECA also recommends developing an Asbestos Operations and Maintenance (O&M) Program to manage the suspect ACM in place. The purpose of the O&M Program is to outline elements such as continued in-place management of the material, labeling, record keeping, training and response actions should asbestos become damaged or is otherwise encountered onsite. The cost to develop the Asbestos O&M Plan is \$400. DECA can prepare an Asbestos O&M Program at the request of the Client.



View of vinyl floor tile within a vacant tenant space



View of vinyl floor tile and acoustic ceiling tile within a common area lobby



View of roofing and roof flashing materials



View of typical interior office finishes

## 7.2. LEAD-BASED PAINT

Lead is a highly toxic metal that was used for many years in products found in and around residences. In addition, lead may cause a range of health effects, from behavioral problems and learning disabilities, to seizures and death. When absorbed into the body through inhalation or ingestion, lead can be toxic and is particularly damaging to the neurological development of young children. Ingestion of lead-contaminated surface dust from sources such as damaged paint is considered the most common pathway of childhood lead poisoning. However, when properly maintained and managed, lead-based paint poses little risk.

Since the 1980s, the USEPA and its federal partners have banned or limited lead used in consumer products, including residential paint. States and municipalities have set up programs to identify and treat lead poisoned children and to rehabilitate deteriorated housing. To protect families from exposure to lead-based paint, dust and soil, Congress passed the Residential Lead-Based Paint Hazard Reduction

Act (also known as Title X) in 1992. Section 1018 of this law directed the Department of Housing and Urban Development (HUD) and the USEPA to require the disclosure of known information on lead-based paint and lead-based paint hazards before the sale or lease of most residential properties constructed before 1978. Title X ensures that renters and purchasers of residential properties constructed prior to 1978 receive the information necessary to protect themselves and their families from lead-based paint hazards. These requirements became effective in 1996. Finally, the USEPA established Hazard standards for paint, dust, and soil in most pre-1978 housing and child-occupied facilities. These requirements became effective in 2001.

The requirements for lead-based paint are intended for residential properties constructed prior to 1978. Since the site improvements are used exclusively for commercial purposes, lead-based paint is not considered an environmental concern.

### **7.3. LEAD IN DRINKING WATER**

Lead has historically been used in pipes, solder, and brass fixtures used in water distribution systems and plumbing material. In 1986, the USEPA banned the use of lead at concentrations exceeding 0.2% lead in solder and 8% lead in other plumbing material. Additionally, the USEPA issued the Lead and Copper Rule for drinking water in 1992. This rule required public water systems to sample and test their drinking water for lead contamination, implement appropriate corrosion control treatments, and replace lead service lines where water samples continue to exceed the USEPA's recommended action level for lead. The action level, which applies to both public water systems and residences, was established at 15 micrograms per liter (ug/L).

The site uses potable water supplied by Memphis Light, Gas, & Water (MLGW). DECA's review of the MLGW 2013 Water Quality Report revealed that the potable water supply meets current USEPA requirements for lead in drinking water.

### **7.4. RADON**

Radon is a cancer-causing radioactive gas formed by the decay of uranium found in soils and rocks. It typically moves up through the ground into buildings through cracks and holes in the foundation due to pressure differentials between the building interior and the surrounding soil. It can also enter buildings through the water supply, particularly well water, and is released when water is run for showering or other uses. Once inside an enclosed space, radon can accumulate. The Surgeon General has warned that radon is the second leading cause of lung cancer in the United States. According to the USEPA, there is an increased risk of developing lung cancer when exposed to levels of radon above four picocuries per liter (pCi/L) of air.

The USEPA and the Centers for Disease Control and Prevention use a continuous exposure of 4.0 pCi/L of air as the suggested remedial action level for radon exposure. The suggested remedial action level for radon exposure is intended for residential properties. The USEPA's Map of Radon Zones assigns counties in the United States to one of the following three zones based on radon potential:

- Zone 1 has a predicted average indoor radon screening level greater than 4.0 pCi/L

- Zone 2 has a predicted average indoor radon screening level between 2.0 and 4.0 pCi/L
- Zone 3 has a predicted average indoor radon screening level less than 2.0 pCi/L

According to the USEPA radon zone map, the site is located in Zone 3, which has a predicted average radon level of less than 2.0 pCi/L. Therefore, radon accumulation is not expected to be a concern for the site.

## 7.5. MOLD

As part of this assessment, DECA performed a limited visual inspection for the conspicuous presence of mold. A class of fungi, molds have been found to cause a variety of health problems in humans, including allergic, toxicological, and infectious responses. Molds are decomposers of organic materials, and thrive in humid environments. When mold spores land on a damp spot indoors, they may begin reproducing and digesting the source material in order to survive. When excessive moisture or water accumulates indoors, mold growth will often occur, especially if the moisture problem remains undiscovered or unaddressed. Therefore, interior areas of buildings with poor ventilation and high humidity are the most common locations of mold growth. Building materials including drywall, wallpaper, baseboards, wood framing, insulation and carpeting are often host to mold growth. There is no practical way to eliminate all molds and mold spores in the indoor environment; however, the best way to control indoor mold growth is to control moisture. In addition, mold growth may be a problem after flooding.

Currently, there are no USEPA regulations or standards for airborne mold contaminants.

DECA observed the accessible interior areas of the building, including interior walls and ceilings, mechanical closets, and areas under sinks for the presence of conspicuous mold or water intrusion. No sampling was conducted as part of this assessment. DECA's evaluation was not designed to discover all areas that could be affected by mold growth onsite. However, it is intended to give the Client an indication as to whether or not conspicuous (based on observed areas) mold growth is present at the site. This evaluation did not include a review of pipe chases, HVAC systems or areas behind enclosed walls and ceilings.

DECA observed several water-stained ceiling tiles in some of the tenant spaces inspected, which are reportedly due to former leaks from the roof, windows and/or HVAC condensate lines and not indicative of current leaks. No active water leaks or visible mold growth was observed. The site representative stated that the stained tiles can be replaced as part of routine maintenance or upon renovation of the interior components. In addition, the inspection also identified localized evidence of water damage with some areas of peeling paint. The water-damage appears related to the intrusion of precipitation since the building was vacated.

As the building is currently vacant but proposed to be gut renovated in the near future areas affected by continual water leaks should be repaired and subsequently inspected for the presence of mold growth as part of any renovation of the building. Any evidence of mold should be cleaned and removed in



accordance with applicable regulations prior to occupancy. In addition, sheetrock/plaster and other water damaged building materials should be removed from the building and properly disposed.



Water damage due to window leaks on an upper floor



Small area of water damage in the ceiling

## 7.6. VAPOR ENCROACHMENT

As part of this assessment, DECA evaluated the potential for vapor encroachment into onsite structures following the general methodology outlined in ASTM E-2600-10 utilizing professional judgment. The Tier 1 screening assessment was employed to determine if a potential vapor encroachment condition (VEC) exists at the site. The site, adjoining properties and hydraulically upgradient properties were assessed for known or suspected contaminated facilities within approximate minimum search distances. A Tier 1 screening assessment generally consists of the following: a search distance test to identify if there are any known or suspected contaminated sites within the area of concern (AOC); a chemicals of concern (COC) test to determine if chemicals of concern exist at the known or suspected contaminated facilities and a plume test to determine whether or not COC in the contaminated plume may be within the critical distance (or AOC). The critical distance is defined as the linear distance in any direction from the nearest edge of the plume to the site. If the critical distance from the site to the nearest edge of a petroleum hydrocarbon plume is within 528 feet (1/10-mile) or within 1,760 feet (1/3-mile) for non-petroleum COC (e.g., trichloroethylene, perchloroethylene, etc.), then it is assumed that COC are within the AOC and a potential VEC exists, and additional screening may be necessary. The critical distance and AOC may be modified using professional judgment based on hydraulic gradient direction and contaminant plume width.

The decision to recommend additional screening, even if a potential VEC is determined by distance, is based on other criteria including existing and planned use of the property, type of structures potentially impacted, physical setting, hydraulic gradient, depth to groundwater, soil characteristics, activities in the surrounding area and the presence of natural or manmade conduits. Based on an evaluation of this collective criteria, the potential for a VEC from current and surrounding land use activities is considered low due to the available documentation which suggests no significant visual or olfactory evidence of petroleum hydrocarbon or VOC contamination that has migrated to the groundwater or which has

significantly impacted the soil from current and surrounding activities at the site. A Tier 2 screen is not recommended at this time.

## APPENDICES

### Appendix A – Reference Information

- Definitions and Acronyms

### Appendix B – Maps, Aerial Photographs, Plans and Drawings

This appendix includes items such as the following, if available:

- Site location map, site plan and/or land survey
- Current/Recent Aerial Photograph
- Building layout plan, floor plan(s), pertinent excerpted portions of building plans
- USGS Topographic Map

### Appendix C – Historical Resources and Municipal Research

This appendix includes items such as the following, if available and applicable:

- Historical Aerial Photographs
- Sanborn Map and/or “No Coverage” receipt from EDR
- City directories, historical topographic maps, other historical sources researched
- Assessor records
- Records relating to outstanding fire or building code violations and FOIA requests
- Zoning information such as the zoning ordinance, zoning verification letter, documentation regarding special exceptions, etc. (if applicable to the scope of work)

### Appendix D – Supporting Documentation – Previous Reports, Questionnaires, etc.

This appendix includes items such as the following, if available:

- Pre-survey questionnaire
- Previous Environmental Reports (text portions only)
- Correspondence with the owner, property manager, site contact, etc.
- Property brochure / broker marketing materials / offering memorandum, etc.
- Rent roll and/or tenant listing

### Appendix E – Environmental Database Report

### Appendix F – Qualifications



## Appendix A

### Reference Information

#### Definitions

Adjoining properties – any real property or properties where the border is contiguous or partially contiguous with that of the site, or that would be contiguous or partially contiguous with that of the property but for a street, road, or other public thoroughfare separating them.

Appropriate inquiry – that inquiry constitution “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice” as defined in CERCLA, 42 USC§9601(35)(B), that will give a party to a commercial real estate transaction the innocent landowner defense to CERCLA liability (42 USC§9601(A) and (B) and §9607(b)(3)), assuming compliance with other elements of the defense.

Controlled recognized environmental condition (CREC) - Defined by ASTM Standard E 1527-13 as “a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

De minimis condition - A de minimis condition is defined by ASTM as "a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis conditions are not recognized environmental conditions nor controlled recognized environmental conditions."

Historical recognized environmental condition (HREC) – Defined by ASTM Standard E 1527-13 as “a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).”

Material threat – a physically observable or obvious threat which is reasonably likely to lead to a release that, in the opinion of the environmental professional, is threatening and might result in impact to public health or the environment. An example might include an aboveground storage tank that contains a hazardous substance and which shows evidence of damage. The damage would represent a material threat if it is deemed serious enough that it may cause or contribute to tank integrity failure with a release of contents to the environment.

Practically reviewable – information that is practically reviewable means that the information is provided by the source in a manner and in a form that, upon examination yields information relevant to the property without the need for extraordinary analysis of irrelevant data. The form of the information shall be such that the user can review the records for a limited geographic area. Records that cannot be feasibly retrieved by reference to the location of the property or a geographic area in which the property is located are not generally practically reviewable.

Publicly available – information that is publicly available means that the source of the information allows access to the information by anyone upon request.

Reasonably Ascertainable/ Standard Sources – availability of record information varies from information source to information source, including governmental jurisdictions. The user or environmental professional is not obligated to identify, obtain, or review every possible record that might exist with respect to a property. Instead, this practice identifies record information that shall be reviewed from standard sources, and the user or environmental professional is required to review only record information that is reasonably ascertainable to those standard sources. Record information that is reasonable ascertainable means (1) information that is publicly available, (2) information that is obtainable from its source within reasonable time and cost constraints, and (3) information that is practically reviewable.

Reasonable time and cost – information that is obtainable within reasonable time and cost constraints means that the information will be provided by the source within 20 calendar days of receiving a written, telephone, or in-person request at no more than an nominal cost intended to cover the source’s cost of retrieving and duplicating the information. Information that can only be reviewed by a visit to the source is reasonably ascertainable if the visit is permitted by the source within 20 days of request.

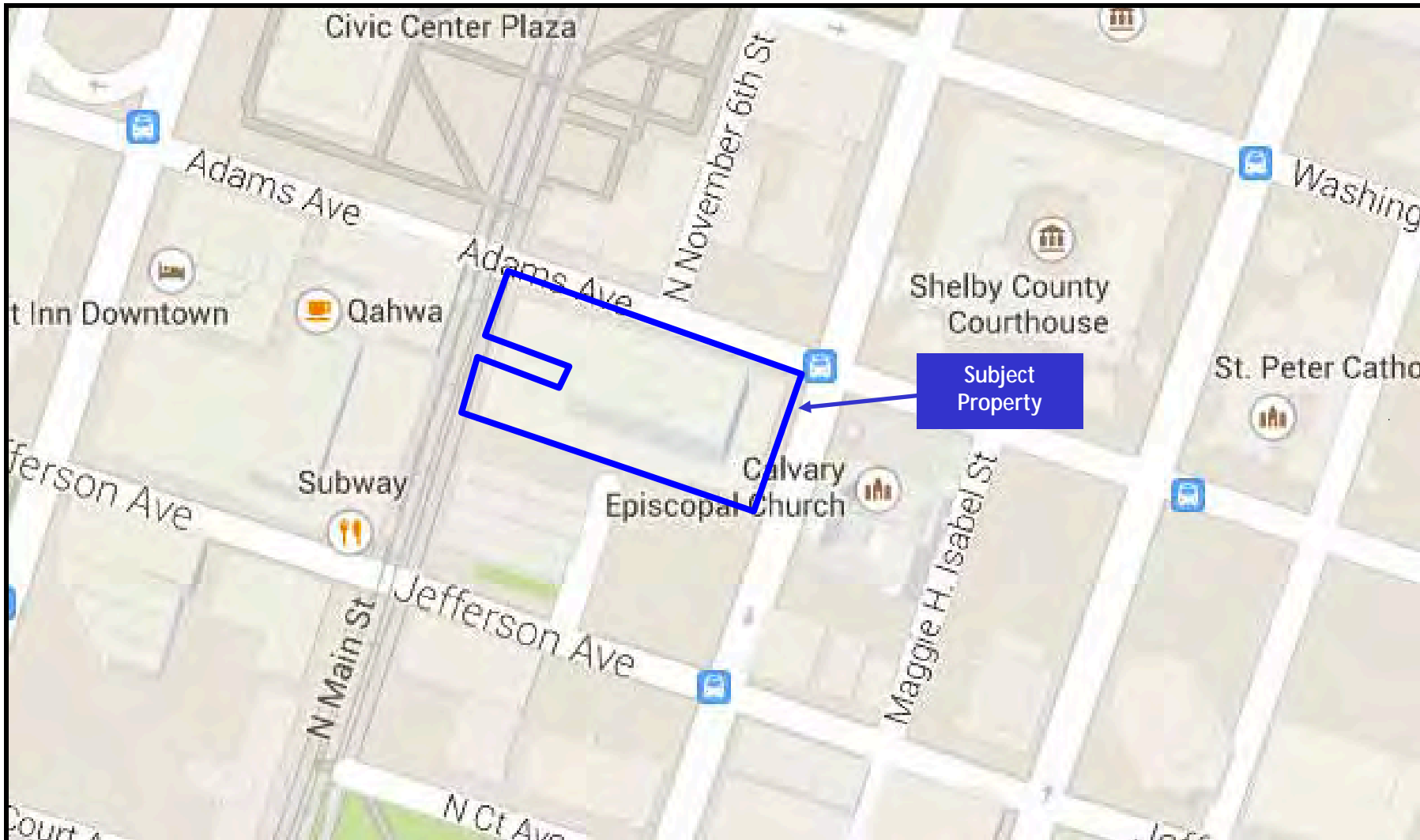
Recognized environmental conditions – defined by ASTM Standard E 1527-13 as “the presence or likely presence of any hazardous substances or petroleum products in, on or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions.”

User – the party seeking to use Practices E 1527 or E 1528 to perform an environmental assessment of the property. A user may include, without limitation, a purchaser of a property, a potential tenant of a property, an owner of a property, a lender, or a property manager.

ACRONYMS			
<b>ACM</b>	asbestos-containing material	<b>NCP</b>	National Contingency Plan
<b>AST</b>	aboveground storage tank	<b>NFRAP</b>	former CERCLIS sites where no further remedial action is planned under CERCLA
<b>ASTM</b>	American Society for Testing and Materials	<b>NIOSH</b>	National Institute of Occupational Safety & Health
<b>AULs</b>	Activity and Use Limitations	<b>NPDES</b>	national pollutant discharge elimination system
<b>bgs</b>	below ground surface	<b>NPL</b>	National Priorities List
<b>CERCLA</b>	Comprehensive Environmental Response, Compensation and Liability Act of 1980 (as amended, 42 USC § 9601 et seq.)	<b>OSHA</b>	Occupational Safety and Health Administration
<b>CERCLIS</b>	Comprehensive Environmental Response, Compensation and Liability Information System (maintained by EPA)	<b>PACM</b>	presumed asbestos-containing material
<b>CFR</b>	Code of Federal Regulations	<b>PLM</b>	polarized light microscopy
<b>CORRACTS</b>	facilities subject to Corrective Action under RCRA	<b>PRP</b>	potentially responsible party (pursuant to CERCLA 42 USC § 9607(a))
<b>ECRA</b>	Environmental Cleanup Responsibility Act	<b>RCRA</b>	Resource Conservation and Recovery Act (as amended, 42 USC § 6901 et seq.)
<b>EDR</b>	Environmental Data Resources, Inc.	<b>RCRIS</b>	Resource Conservation and Recovery Act Information System
<b>EPCRA</b>	Emergency Planning and Community Right to Know Act ((also known as SARA Title III), 42 USC § 11001 et seq.)	<b>REC</b>	recognized environmental condition
<b>ERNS</b>	Emergency Response Notification System	<b>ROC</b>	record of communication
<b>ESA</b>	environmental site assessment	<b>RST</b>	registered storage tank
<b>FOIA</b>	United States Freedom of Information Act (5 USC § 552 et seq.)	<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986 (amendment to CERCLA)
<b>HREC</b>	historical recognized environmental condition	<b>SIC</b>	Standard Industrial Classification
<b>IAQ</b>	Indoor Air Quality	<b>TEM</b>	transmission electron microscopy
<b>ISRA</b>	Industrial Site Recovery Act	<b>TSDF</b>	hazardous waste treatment, storage or disposal facility
<b>LBP</b>	lead-based paint	<b>ug/L</b>	micrograms per liter
<b>HVAC</b>	Heating, Ventilating and Air Conditioning	<b>USC</b>	United States Code
<b>IBC</b>	International Building Code	<b>USEPA</b>	United States Environmental Protection Agency
<b>LRST</b>	leaking registered storage tank	<b>USGS</b>	United States Geological Survey
<b>LUST</b>	leaking underground storage tank	<b>UST</b>	underground storage tank
<b>MSDS</b>	material safety data sheet		

## **Appendix B**

### **Maps, Current/Recent Aerial Photograph, Plans and Drawings**



Subject  
Property



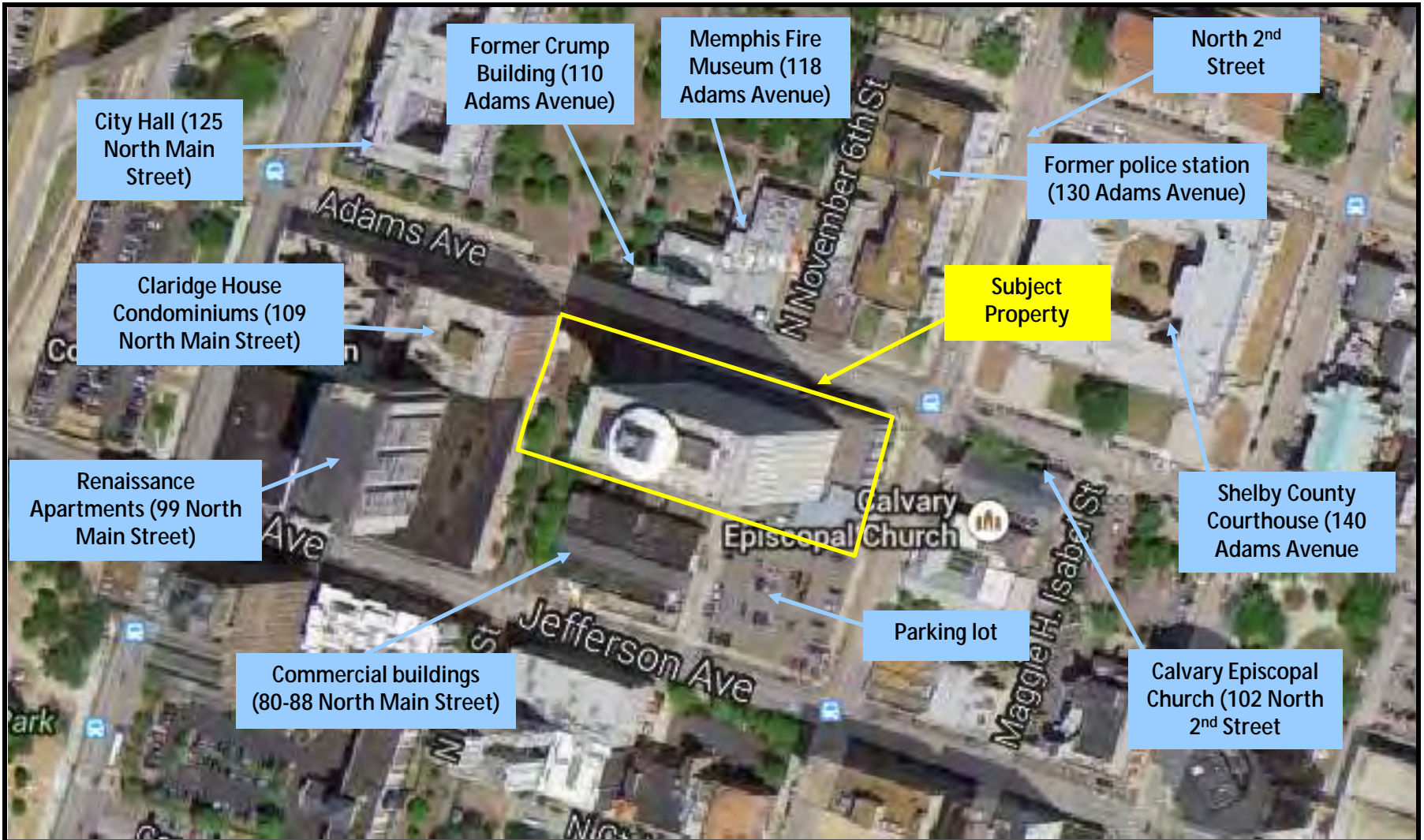
**SITE LOCATION MAP**

100 North Main  
100 North Main Street  
Memphis, TN 38103

Source Google Maps







Former Crump Building (110 Adams Avenue)

Memphis Fire Museum (118 Adams Avenue)

North 2<sup>nd</sup> Street

City Hall (125 North Main Street)

Former police station (130 Adams Avenue)

Claridge House Condominiums (109 North Main Street)

Subject Property

Renaissance Apartments (99 North Main Street)

Shelby County Courthouse (140 Adams Avenue)

Commercial buildings (80-88 North Main Street)

Parking lot

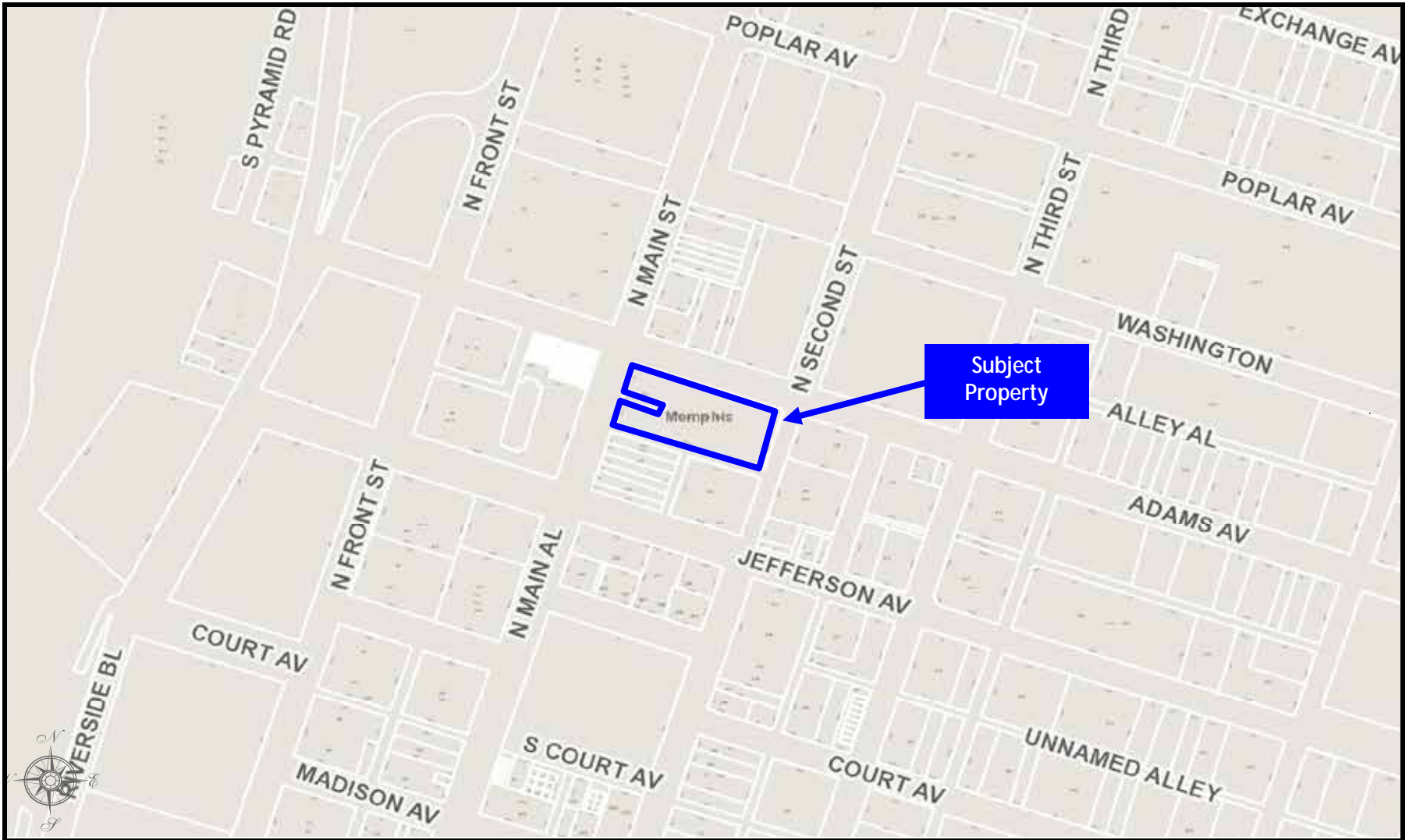
Calvary Episcopal Church (102 North 2<sup>nd</sup> Street)

**SITE AERIAL**

100 North Main  
100 North Main Street  
Memphis, TN 38103

Source Google Earth





**PARCEL MAP**

100 North Main  
100 North Main Street  
Memphis, TN 38103

Source Shelby County Assessor's Office



**N**







Subject Property

TOPOGRAPHIC MAP

100 North Main  
 100 North Main Street  
 Memphis, TN 38103

Source: USGS

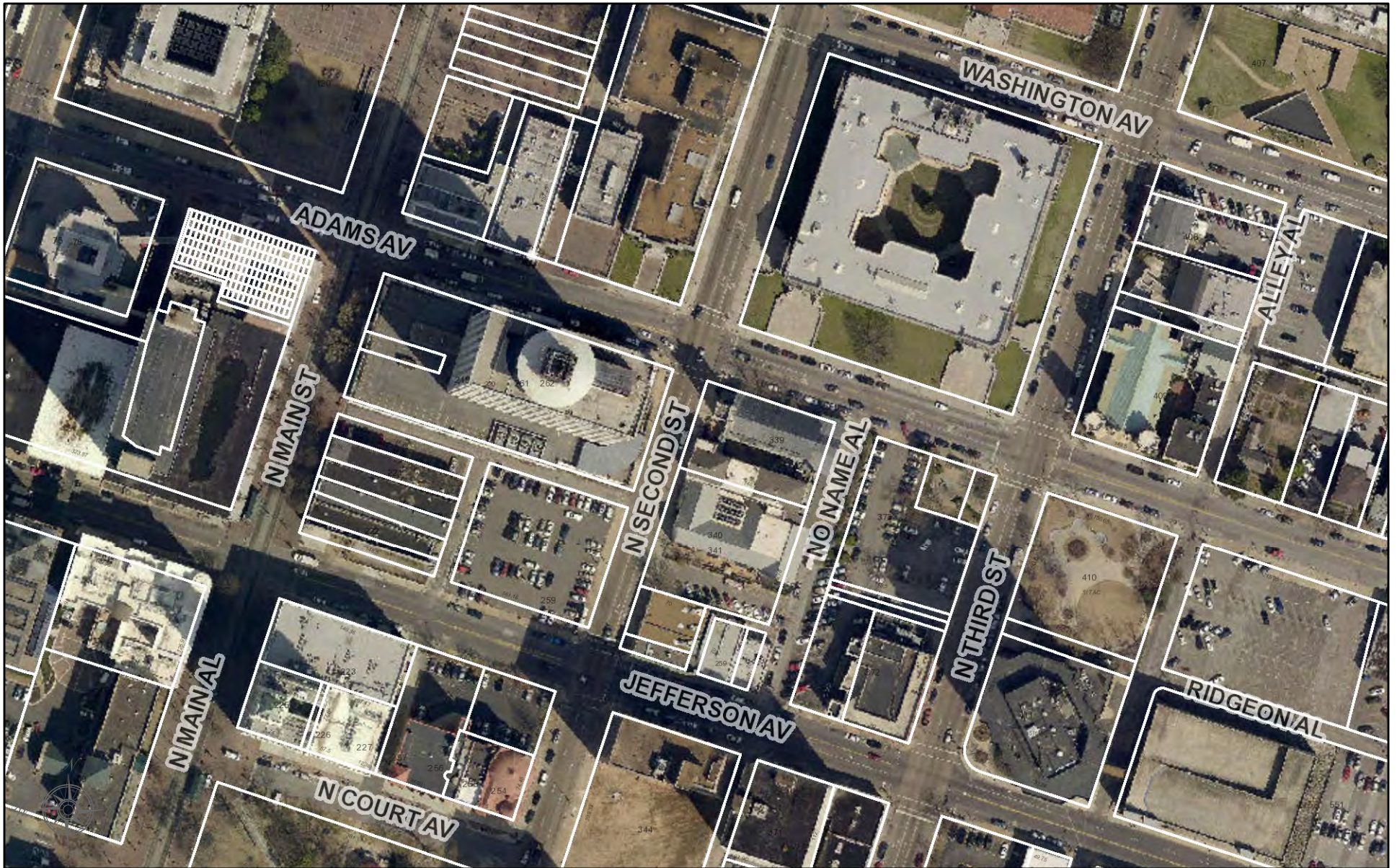


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**Appendix C**  
**Historical Resources and Municipal Research**



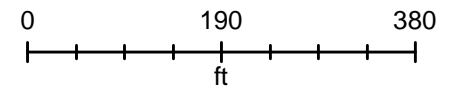
# 100 North Main Street Main Parcel



**CHEYENNE JOHNSON, ASSESSOR**  
**SHELBY COUNTY, TENNESSEE**

DISCLAIMER: THIS MAP IS FOR PROPERTY ASSESSMENT PURPOSES ONLY. IT IS NOT CONCLUSIVE AS TO LOCATION OF PROPERTY OR LEGAL OWNERSHIP AND THEREFORE, SHOULD NOT BE RELIED UPON AS A REPRESENTATION OF ANY PROPERTY FOR ANY PURPOSE.

MAP DATE: March 23, 2015





# CHEYENNE JOHNSON

## Assessor of Property

Property Location and Owner Information	2014 Appraisal and Assessment Information
<p>Parcel ID: 002012 00002</p> <p>Property Address: 0 N MAIN ST</p> <p>Municipal Jurisdiction: MEMPHIS</p> <p>Neighborhood Number: 00708B83</p> <p>Tax Map Page: 132F</p> <p>Land Square Footage:</p> <p>Acres: 0.0430</p> <p>Lot Dimensions: 21X90.41</p> <p>Subdivision Name:</p> <p>Subdivision Lot Number: 0219</p> <p>Plat Book and Page:</p> <p>Number of Improvements: 0</p> <p>Owner Name: ROSEN IZZY &amp; ET AL</p> <p>In Care Of: FREEMAN REAL ESTATE CO INC</p> <p>Owner Address: 100 N MAIN ST STE 2200</p> <p>Owner City/State/Zip: MEMPHIS, TN 38103 5011</p>	<p>Class: COMMERCIAL</p> <p>Land Appraisal: \$ 23,800</p> <p>Building Appraisal: \$ 0</p> <p>Total Appraisal: \$ 23,800</p> <p>Total Assessment: \$ 9,520</p> <p>Greenbelt Land: \$ 0</p> <p>Homesite Land: \$ 0</p> <p>Homesite Building: \$ 0</p> <p>Greenbelt Appraisal: \$ 0</p> <p>Greenbelt Assessment: \$ 0</p> <p><a href="#">Click Here for 2013 Values</a></p> <p><a href="#">View: Assessor's GIS Map</a></p> <p><a href="#">View: GIS Parcel Map</a></p>

Dwelling Construction Information	
<p>Stories:</p> <p>Exterior Walls:</p> <p>Land Use: - VACANT LAND</p> <p>Year Built:</p> <p>Total Rooms:</p> <p>Bedrooms:</p> <p>Bathrooms:</p> <p>Half Baths:</p> <p>Basement Type:</p>	<p>Heat:</p> <p>Fuel:</p> <p>Heating System:</p> <p>Fireplace Masonry:</p> <p>Fireplace Pre-Fab:</p> <p>Ground Floor Area:</p> <p>Total Living Area:</p> <p>Car Parking:</p>

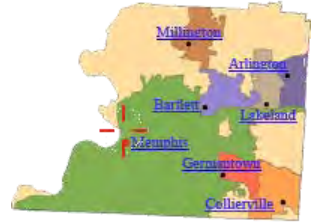
[Other Buildings on Site for this Property](#)  
[See Permits Filed for this Property](#)  
[See Sales Data for this Property](#)

Disclaimer: The information presented on this web site is based on the inventory of real property found within the jurisdiction of the county of Shelby in the State of Tennessee. Shelby County assumes no legal responsibility for the information contained within this web site. This is not a bill and does not serve as a notice or invoice for payment of taxes nor does it replace scheduled notices mailed to property owners.

# Tom Leatherwood Shelby County Register of Deeds

### Property Data

Owner: ROSEN IZZY & ET AL  
 Property Address: 0 N MAIN ST  
 Tax District: MEMPHIS  
 Parcel ID: 002012 00002  
 Tax Map: 132F [TIFF PDF](#)  
 Year Built:  
 Lot Number: 0219  
 Subdivision Name:  
 Plat BK. & PG.:  
 Dimensions: 21X90.41  
 Land Total: 0.04  
 Total Acres: 0.04  
 Owner's address: 100 N MAIN ST  
 FREEMAN REAL ESTATE CO INC  
 MEMPHIS, TN 38103-5011  
 Class: COMMERCIAL  
 Use: - VACANT LAND  
 Zoning: CBD  
 Taxes: [County Tax Info](#)  
[Memphis Tax Info](#)  
 Appraisal: [Appraisal Info](#)  
[Recent and Comparable Sales Search](#)



### Shelby County



Search Type: Address

To optimize search, leave street direction and type off. ie., MAIN instead of N MAIN ST.

- Parcels
- Streets
- 2ft Contours - 2006
- FEMA Flood Plain
- Cemeteries
- AERIALS
- Parks
- Streams
- Parcel IDs
- Soil Data
- CITY BOUNDARIES
- LEGENDS

### Property Transactions

Item 1  
 Inst #: [4667-184](#)  
 Inst Type: UNKNOWN  
 Sales Date: 03/19/1962  
 Sales Price: 21,200  
 Item 2  
 Inst #: [4667-184](#)  
 Inst Type: UNKNOWN  
 Sales Date: 03/19/1962  
 Sales Price: 21,200

### NAD83 Coordinates

X Coordinate: 757590  
 Y Coordinate: 321552

Property data, transactions and parcels reflect information from the April 2014 certified tax roll. More recent information is available at [Property Search](#).

Property tax maps and parcel boundaries do not reflect accurate survey information or exact legal ownership boundaries but are only provided for general information purposes.

Property tax maps are provided to the County Register by the County Assessor's office "on or before October 1 of each year" according to T.C.A. 67-5-806.

Aerial Map - 2004 is from the 2004 USGS flyover. Parts of North and Southwest Shelby County were not included in this flyover.

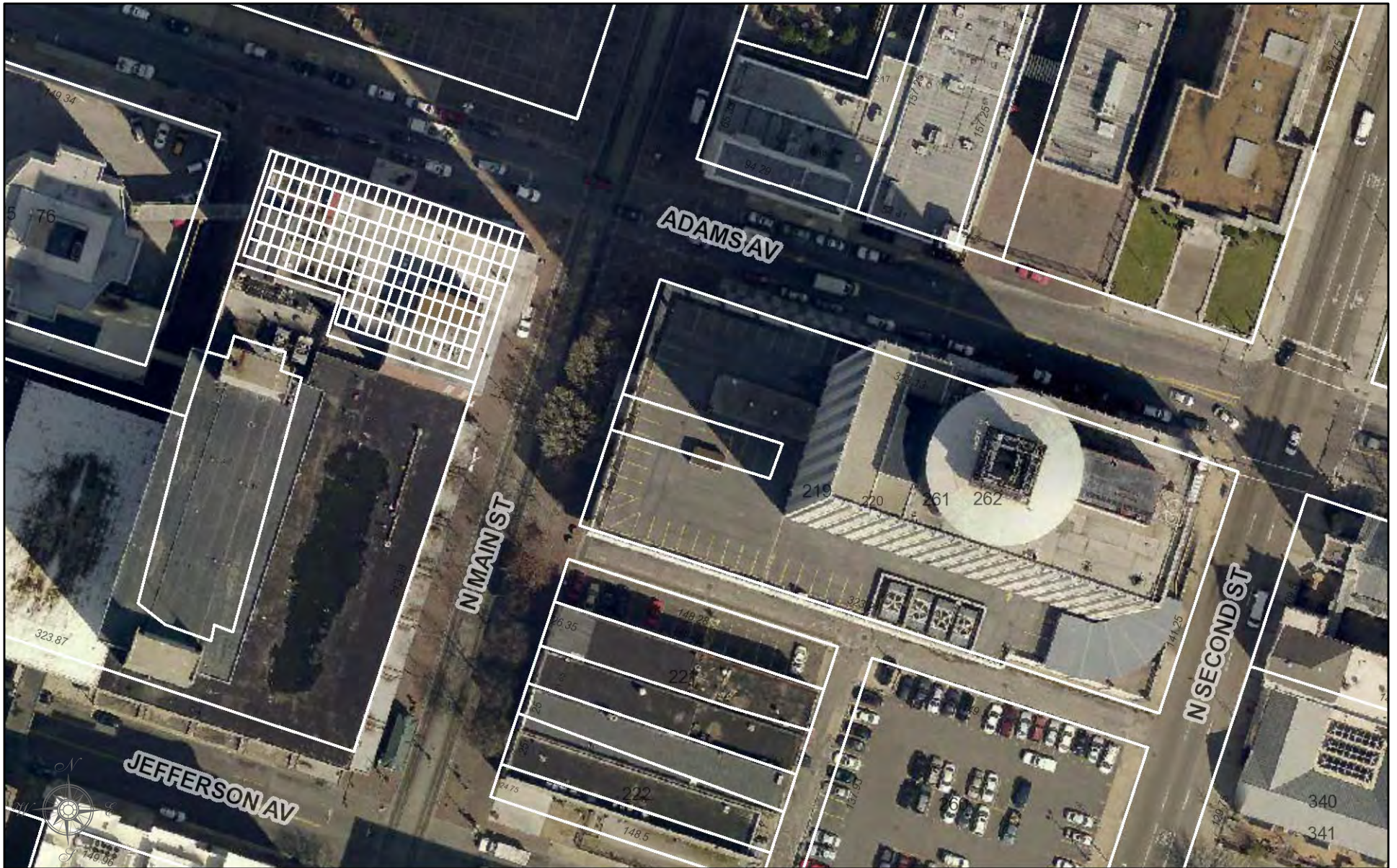
FEMA data is based on their Q3 Flood Data product. More information is available at [http://www.fema.gov/plan/prevent/fhm/fq\\_q3.shtm](http://www.fema.gov/plan/prevent/fhm/fq_q3.shtm).

Soil data is derived from the United States Department of Agriculture, Natural Resources Conservation Service. More information is available at <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>.

Cemetery points were provided by the Shelby County Historical Commission and do not reflect accurate survey information or exact cemetery locations within parcels. The information provided is for general purposes only.



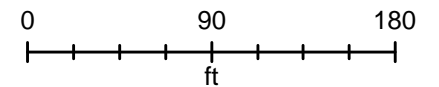
# Izzy Rosen Parcel



**CHEYENNE JOHNSON, ASSESSOR**  
**SHELBY COUNTY, TENNESSEE**

DISCLAIMER: THIS MAP IS FOR PROPERTY ASSESSMENT PURPOSES ONLY. IT IS NOT CONCLUSIVE AS TO LOCATION OF PROPERTY OR LEGAL OWNERSHIP AND THEREFORE, SHOULD NOT BE RELIED UPON AS A REPRESENTATION OF ANY PROPERTY FOR ANY PURPOSE.

MAP DATE: March 23, 2015



# CHEYENNE JOHNSON

## Assessor of Property

Property Location and Owner Information	2014 Appraisal and Assessment Information
<p>Parcel ID: 002012 00001C</p> <p>Property Address: 100 N MAIN</p> <p>Municipal Jurisdiction: MEMPHIS</p> <p>Neighborhood Number: 00708B83</p> <p>Tax Map Page: 132F</p> <p>Land Square Footage: Acres: 1.0040</p> <p>Lot Dimensions:</p> <p>Subdivision Name:</p> <p>Subdivision Lot Number: 0219</p> <p>Plat Book and Page:</p> <p>Number of Improvements: 1</p> <p>Owner Name: ONE HUNDRED NORTH MAIN LLC</p> <p>In Care Of:</p> <p>Owner Address: 100 N MAIN ST STE 2901</p> <p>Owner City/State/Zip: MEMPHIS, TN 38103 0554</p>	<p>Class: COMMERCIAL</p> <p>Land Appraisal: \$ 732,900</p> <p>Building Appraisal: \$ 3,050,400</p> <p>Total Appraisal: \$ 3,783,300</p> <p>Total Assessment: \$ 1,513,320</p> <p>Greenbelt Land: \$ 0</p> <p>Homesite Land: \$ 0</p> <p>Homesite Building: \$ 0</p> <p>Greenbelt Appraisal: \$ 0</p> <p>Greenbelt Assessment: \$ 0</p> <p><a href="#">Click Here for 2013 Values</a>  <a href="#">View: Assessor's GIS Map</a>  <a href="#">View: GIS Parcel Map</a></p>

Commercial Structure Information	
Land Use:	- OFFICE HIGH
Total Living Units:	0
Structure Type:	OFFICE BLDG H-R 5ST
Year Built:	1965
Investment Grade:	C
Building Square Footage:	792873

[Other Buildings on Site for this Property](#)  
[See Permits Filed for this Property](#)  
[See Sales Data for this Property](#)

**Disclaimer:** The information presented on this web site is based on the inventory of real property found within the jurisdiction of the county of Shelby in the State of Tennessee. Shelby County assumes no legal responsibility for the information contained within this web site. This is not a bill and does not serve as a notice or invoice for payment of taxes nor does it replace scheduled notices mailed to property owners.





**From:** Michael Gross <[mgross@decaadvisors.com](mailto:mgross@decaadvisors.com)>  
**Subject:** FOIA Request, Memphis, TN  
**Date:** March 11, 2015 at 1:31 PM EDT  
**To:** [pubworks@memphistn.gov](mailto:pubworks@memphistn.gov)  
Dwan L. Gilliom, Director, City of Memphis Public Works – 901.636.6742  
FOIA Request, Compliance/Violations  
100 North Main Street, Memphis, TN 38103

To Whom It May Concern:

DECA Real Estate Advisors (DECA) is performing a due diligence assessment of the commercial property located at 100 North Main Street, Memphis, TN 38103. As part of our due diligence efforts we are requesting the following information:

1. The issuance date of the initial base building Certificate of Occupancy (C.O.) or Certificates for Use for each building. Copies are requested if available.
2. The dates of the most recent code inspection of the property.
3. If there are any known building code violations on file, and if so, what they are. Documentation of any active violations and correspondence with the owner's representative relating to such violations is also requested.

It is preferable if any documentation pertaining to this request is provided electronically via email versus hard copies via regular postal mail. If you have any questions regarding this request please contact me at 301.502.4330 or by email at [mgross@decaadvisors.com](mailto:mgross@decaadvisors.com). Thank you for your assistance.

Michael Gross,  
Environmental Project Manager  
Michael Gross  
Project Manager  
DECA Real Estate Advisors, LLC  
301.502.4330  
[mgross@decaadvisors.com](mailto:mgross@decaadvisors.com)  
[www.decaadvisors.com](http://www.decaadvisors.com)



**From:** Michael Gross <[mgross@decaadvisors.com](mailto:mgross@decaadvisors.com)>  
**Subject:** FOIA Request, Stafford, VA  
**Date:** March 11, 2015 at 1:22 PM EDT  
**To:** [MFDInquiries@memphistn.gov](mailto:MFDInquiries@memphistn.gov)  
Administration Division, City of Memphis Fire Services – 901.636.1400  
FOIA Request, Compliance/Violations  
100 North Main Street, Memphis, TN 38103

To Whom It May Concern:

DECA Real Estate Advisors (DECA) is performing a due diligence assessment of the commercial property located at 100 North Main Street, Memphis, TN 38103. As part of our due diligence efforts we are requesting the following information:

1. The date of the most recent fire/life safety inspection of the property
2. If there are any known fire code violations or issues with regards to the property
3. If there are currently any USTs on the property and if there are historical records indicating that had been there previously, and
4. If there are records of any fires or hazardous materials incidents at the property

It is preferable if any documentation pertaining to this request is provided electronically via email versus hard copies via regular postal mail. If you have any questions regarding this request please contact me at 301.502.4330 or by email at [mgross@decaadvisors.com](mailto:mgross@decaadvisors.com). Thank you for your assistance.

Michael Gross,  
Environmental Project Manager  
Michael Gross  
Project Manager  
DECA Real Estate Advisors, LLC  
301.502.4330  
[mgross@decaadvisors.com](mailto:mgross@decaadvisors.com)  
[www.decaadvisors.com](http://www.decaadvisors.com)

2004 Mt. Vernon Street, Philadelphia, PA 19130  
Tel: 917.690.9498 Fax: 215.701.0798 [www.decaadvisors.com](http://www.decaadvisors.com)



**From:** Michael Gross <[mgross@decaadvisors.com](mailto:mgross@decaadvisors.com)>  
**Subject:** FOIA Request, Memphis, TN  
**Date:** March 11, 2015 at 9:45 PM EDT  
**To:** [ask.tdec@tn.gov](mailto:ask.tdec@tn.gov)  
Stan Boyd, Director, Division of Underground Storage Tanks, TDEC – 615.532.0945  
FOIA Request, Compliance/Violations  
100 North Main Street, Memphis, TN 38103

To Whom It May Concern:

DECA Real Estate Advisors (DECA) is performing a due diligence assessment of the commercial property located at 100 North Main Street, Memphis, TN 38103. As part of our due diligence efforts we are requesting the following information:

1. Any documents relating to the closed UST or LUST listings at the subject property
2. Any documents related to hazard waste storage or release at the subject property

It is preferable if any documentation pertaining to this request is provided electronically via email versus hard copies via regular postal mail. If you have any questions regarding this request please contact me at 301.502.4330 or by email at [mgross@decaadvisors.com](mailto:mgross@decaadvisors.com). Thank you for your assistance.

Michael Gross,  
Environmental Project Manager  
Michael Gross  
Project Manager  
DECA Real Estate Advisors, LLC  
301.502.4330  
[mgross@decaadvisors.com](mailto:mgross@decaadvisors.com)  
[www.decaadvisors.com](http://www.decaadvisors.com)

## Melanie Stanley

---

**From:** Melanie Stanley  
**Sent:** Thursday, March 12, 2015 1:47 PM  
**To:** 'Michael Gross'  
**Cc:** Ask Tdec; Austin Payne  
**Subject:** Ask TDEC Request ID 60309

Good afternoon Mr. Gross,

Please see the attached response in regard to your records request for 100 North Main Street, Memphis, TN 38103. If you have any questions please do not hesitate to contact me.

Sincerely,

Melanie Stanley

Paralegal

Tennessee Department of Environment and Conservation

Office of General Counsel

312 Rosa L. Parks Avenue, 2<sup>nd</sup> Floor

Nashville, TN 37243

Phone: (615)253-5407

Email: [Melanie.Stanley@tn.gov](mailto:Melanie.Stanley@tn.gov)



TENNESSEE DEPARTMENT OF  
ENVIRONMENT AND CONSERVATION



STATE OF TENNESSEE  
DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
Office of General Counsel  
William R. Snodgrass Tennessee Tower  
312 Rosa L. Parks Avenue, 2<sup>nd</sup> Floor  
Nashville, TN 37243  
Telephone: (615) 532-0131

March 12, 2015

**VIA ELECTRONIC MAIL**

Michael Gross  
Project Manager  
DECA Real Estate Advisors, LLC  
2004 Mt. Vernon Street  
Philadelphia, PA 19130

Re: Public Records Request—March 11, 2015  
100 North Main  
100 North Main Street  
Memphis, TN 38103

Dear Mr. Gross,

The Tennessee counterpart to the Federal Freedom of Information Act is found in Tennessee Code Annotated Section 10-7-503. Unlike the federal law, the Tennessee Public Records Act does not require the State to “sort through files to compile information.” As a courtesy, a search of our central office files was run, and no records regarding the above referenced property were found.

Again, please understand that our courtesy search was based upon your description of the records you are seeking, and it was limited to local files only. In many cases there may be additional records at other TDEC offices. Additionally, the Department has made a significant amount of information available to the public at [www.tn.gov/environment](http://www.tn.gov/environment). Also, you may find helpful the Water Pollution Permits Data Viewer, which can be accessed at <http://www.tn.gov/environment/wpc/dataviewer/>.

As always, Tennessee law does allow the public access to review most records that are maintained in state offices. All of our non-confidential records are open for inspection between the hours of 8:00 a.m. and 4:00 p.m. at our Nashville Central Office and each of our Field Offices. You may request copies of documents that you identify during your inspection. There may be a charge for copies and labor costs pursuant to Tennessee Rule 0400-01-01-.01.

You should also be aware that records related to the development of public policy may be unavailable for public inspection pursuant to the deliberative process privilege, which has been recognized by Tennessee courts.

DECA Real Estate Advisors, LLC

March 12, 2015

Page 2

It may be helpful to your search if you call the field office in advance of your planned inspection, so that the personnel familiar with the filing system are available to assist you. If you have any questions please do not hesitate to contact me.

Sincerely,



Melanie Stanley

Paralegal



**TENNESSEE ENVIRONMENT AND CONSERVATION CONTACT LIST**

DIVISION OF AIR POLLUTION CONTROL	615-532-0554
DIVISION OF ARCHEOLOGY	615-741-1588
DIVISION OF NATURAL AREAS	615-532-0431
DIVISION OF RADIOLOGICAL HEALTH	615-532-0364
DIVISION OF REMEDIATION	615-532-0900
DIVISION OF HAZARDOUS & SOLID WASTE MANAGEMENT	615-532-0780
DIVISION OF UNDERGROUND STORAGE TANKS	615-532-0945
DIVISION OF WATER RESOURCES	
WATER SUPPLY	615-532-0191
GROUNDWATER PROTECTION	615-532-0761
WATER POLLUTION CONTROL	615-532-0625
MEMPHIS ENVIRONMENTAL FIELD OFFICE	901-371-3000
JACKSON ENVIRONMENTAL FIELD OFFICE	731-512-1300
COLUMBIA ENVIRONMENTAL FIELD OFFICE	931-840-4142
NASHVILLE ENVIRONMENTAL FIELD OFFICE	615-687-7000
COOKEVILLE ENVIRONMENTAL FIELD OFFICE	931-432-7605
CHATTANOOGA ENVIRONMENTAL FIELD OFFICE	423-634-5745
KNOXVILLE ENVIRONMENTAL FIELD OFFICE	865-594-5450
JOHNSON CITY ENVIRONMENTAL FIELD OFFICE	423-854-5404



a global professional services company

creative thinking. custom solutions.®

5724 Summer Trees Dr. | Memphis, Tennessee 38134 | Telephone 901-372-7962 | Facsimile 901-372-2454 | www.ensafe.com

November 27, 2013

Isaac Thomas  
One Hundred North Main LLC  
100 North Main Street, Suite 2901  
Memphis, Tennessee 38103

Re: Phase I Environmental Site Assessment  
100 North Main Building — Memphis, Tennessee

Dear Mr. Thomas:

EnSafe is pleased to provide the enclosed Phase I Environmental Site Assessment. If you have any questions or require additional information, please contact me at (901) 947-4368 or hbrauer@ensafe.com.

Respectfully submitted,

EnSafe Inc.

By: Holly Brauer  
Project Manager

engineering | environment | health & safety | technology

## PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

100 NORTH MAIN BUILDING  
100 NORTH MAIN STREET  
MEMPHIS, TENNESSEE 38103

EnSafe Project Number:  
0888814496

Prepared for:

One Hundred North Main LLC  
100 North Main Street, Suite 2901  
Memphis, Tennessee 38103

Prepared by:



EnSafe Inc.  
5724 Summer Trees Drive  
Memphis, Tennessee 38134  
(901) 372-7962  
(800) 588-7962  
www.ensafe.com

November 27, 2013

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## EXECUTIVE SUMMARY

EnSafe Inc. performed a Phase I Environmental Site Assessment (ESA) of the 100 North Main Building (subject property) in Memphis, Tennessee, in general conformance with the ASTM International (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* Designation E 1527-05. The subject property was assessed for the presence of petroleum products and a range of contaminants regulated by the Comprehensive Environmental Response, Compensation, and Liability Act. The goal of this Phase I ESA is to identify evidence of *recognized environmental conditions* to determine whether the condition of the property indicates that hazardous substances or petroleum products may be present from past or current releases or if there is a potential for a release to a structure or to soil, groundwater, or surface water<sup>1</sup>. The findings, conclusions, and environmental professional opinion in this Phase I ESA report result from interviews, an environmental records search, historical and regulatory research, and a site visit on October 18, 2013.

### Subject Property

The subject property is at 100 North Main Street, part of a central downtown 12-block open mall area undergoing continual redevelopment of historical buildings into apartments, unique retail stores, offices, restaurant, and entertainment businesses to promote revitalization of the downtown area. The 1-acre subject property is improved with a 792,873-square-foot 38-story high-rise office building that encompasses the north half of a city block bordered by Adams Avenue to the north, South Second Street to the east, and an unnamed alley to the south. An approximately 1,850-square-foot tax parcel that provides pedestrian access to the main floor lobby of the 100 North Main Building from the west-adjointing North Main Street is leased by the subject property owner. Additional addresses used at the subject property include 95 North Second Street (vacant but most recently occupied by Freedom Bail Bonds) and 94 North Main Street (occupied by Sam's Hamburgers restaurant).

### Historical Uses

The earliest useful historical sources, an 1883 city directory and 1888 Sanborn fire insurance map, show the subject property with two- to four-story row-type businesses with store fronts on Main Street, Adams Avenue, and Second Street. The multi-tenant, three-story Baltimore Building at this location between 1926 and 1958 was occupied by collection and detective agencies, insurance and real estate agents, a secretary school, tailors and uniforms, sales companies, attorneys, court reporters, bookkeepers, advertising agencies, temporary employee staffing agencies, a newspaper, storage, and cosmetics. Additional historical occupants of the subject property include a yeast manufacturer, dental and surgical equipment supply company, clothing retailer, furniture stores, plumber, and musical instrument warehousing, repairing, servicing, and sales. Although city directory listings for many of the occupants of the subject property prior to redevelopment in 1965 do not indicate specific type(s) of business activities conducted, prior occupants of the subject property with operations that may have involved the use of hazardous substances and petroleum products include: a photo studio (film developing with fixatives, acetic acid, and other developing solutions, wastewater generation, and silver generation/reclamation); a hat manufacturer (inorganic mercury compounds such as mercuric nitrate, to treat felt and small-animal fur and cleaning solvents; furniture and instrument manufacturing and repair (use of stains, paint, adhesives, and thinner/solvent); and printing and binding (use of oil-based inks, solvents, and adhesives).

<sup>1</sup>ASTM Standard Practice E 1527-05 defines a *recognized environmental condition* as "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property." The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

Structures at the subject property were razed between 1938 and 1959, with some areas used as an open parking lot, until construction of the present-day building began in 1963. Since completion in 1965, the subject property has housed a variety of tenants including administrative offices occupied by attorneys, title companies, court recorders, insurance brokers, and local government agencies because of its proximity to the Shelby County courthouse. Union Planters Bank occupied the main (street) level of this building, and other financial-related businesses have been tenants; additional occupants of note were The Tennessee Club (within an indoor pool on the 36<sup>th</sup> floor) and a rotating circular glass restaurant that operated as Top of the 100 Club and the Pinnacle.

No drycleaners, vehicle repair, gasoline or service stations, or aboveground storage tanks were identified at the subject property from historical or regulatory research. MCI Telecommunications Corporation (MCI), a former tenant, installed a 2,000-gallon diesel fuel underground storage tank (UST) to fuel an emergency generator in 1986 and removed it upon lease termination in 1996. The UST was set in a concrete vault in the southeast corner of the lower lobby level. Concentrations of total petroleum hydrocarbons (TPH) diesel-range organic (DRO) compounds remaining in soil were below screening levels applicable at that time, and the Tennessee Department of Environmental Conservation (TDEC) Division of Underground Storage Tanks issued Final Approval of Closure on March 5, 1997.

### Surrounding Area

The subject property is in a portion of downtown Memphis that has been developed commercially, with documented uses since 1883 including retail stores, laundry services, service- and entertainment-oriented business, local government agencies, and offices. In the 1960s, downtown Memphis underwent significant deterioration that resulted in abandoned streets and buildings, many of which were demolished and replaced by parking lots. Beginning in the mid-1980s, heavy renovation of notable buildings resulted in the revitalized downtown area currently occupied by residences (apartments and condominiums), offices (municipal and private), and retail businesses (restaurants, clothing stores). Regulatory database research identified over 100 potential historical drycleaners and service stations within one-quarter mile of the subject property in addition to sites with documented hazardous waste generation, bulk underground fuel storage, and releases from UST systems. Regulatory agency file review did not indicate reported releases at surrounding area sites have migrated to the subject property.

One adjoining property (86 to 92 North Second Street) was occupied by a large steam laundry plant then by a former auto park station with two gasoline USTs within 100 feet southeast of the subject property. That site's addresses are not on the state's list of sites with registered or leaking USTs, in a voluntary cleanup program, or on EDR's proprietary auto station database; Memphis Steam Laundry is on the proprietary historical cleaners database at this address.

### Environmental Professional Opinion

This Phase I ESA has identified evidence of a *recognized environmental condition* in connection with the subject property. Based on the proximity and historical uses of the southeast-adjointing property, the potential for releases from abandoned USTs to have migrated to the subject property is considered a *recognized environmental condition*. Potentially impacted media includes soil, soil vapor, and groundwater.



## 1.0 INTRODUCTION

### 1.1 Purpose

EnSafe Inc. was retained by One Hundred North Main LLC to conduct a Phase I Environmental Site Assessment (ESA) of the 100 North Main Building (subject property) in Memphis, Shelby County, Tennessee. The subject property was assessed for the presence of petroleum products and a range of contaminants regulated by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This assessment satisfies one of the requirements to qualify for a landowner liability protection (innocent landowner, bona fide prospective purchaser, and contiguous property owner) under CERCLA; that is, all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice, as defined in 42 U.S. Code Section 9601 (35)(B).

The Phase I ESA's goal is to identify evidence of *recognized environmental conditions* to determine whether the condition of the property indicates that hazardous substances or petroleum products may be present from past or current releases or if there is a potential for a release to a structure or to soil, groundwater, or surface water. In the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* Designation E 1527-05, the ASTM International (ASTM) defines a *recognized environmental condition* as the following:

The term . . . means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies (Standard Practice E 1527-05).

This Phase I ESA was also intended to identify *historical recognized environmental conditions*, which ASTM defines as an "environmental condition which in the past would have been considered a *recognized environmental condition*, but which may or may not be considered a *recognized environmental condition* currently" and *business environmental risks*, which can have a material environmental or environmentally driven impact on the business associated with the current or planned use of a parcel of commercial real estate.

Based on the length of time the surrounding densely urban area has been commercially developed with uses involving hazardous substances and petroleum products prior to environmental regulations, the potential for regional soil and groundwater contamination poses a *business environmental risk* related to vapor intrusion during development activities (e.g., subsurface excavation) and uses (e.g., residential)<sup>2</sup>. Although the reported concentrations of petroleum hydrocarbons remaining after UST removal are considered *de minimis*, the potential for vapor intrusion from this area is also a *business environmental risk* that should be considered as part of future redevelopment and occupancy plans.

EnSafe observed what appeared to be obsolete containers (including 55-gallon drums), unidentified substances, and open containers with free liquids — primarily in mechanical and equipment rooms and in the maintenance areas — at the subject property. The costs and potential liability associated with identifying, characterizing, and properly disposing of unidentified substances and cleaning up spills from open containers of hazardous substances and petroleum products pose a *business environmental risk*. Staining on floors, walls, and pavement in the parking garage, loading dock, elevator equipment, and mechanical rooms is considered *de minimis* based on the limited visual extent, the physical condition of the concrete, and lack of conduits (e.g., French drains, wells) to the subsurface in those areas.

<sup>2</sup> *Business environmental risks* are those that may have a material environmental or environmentally driven impact on the business associated with the current or planned use of a parcel or commercial real estate.



## 1.2 Scope of Services

The Phase I ESA includes the following.

- Visual inspection of the subject property on October 18, 2013, by Holly Brauer and Anna Serrano of EnSafe.
- Interviews with personnel listed in Section 3.2.
- Review of standard and additional federal, state, and local environmental records sources for the property and properties within 1 mile. The records research was conducted by Environmental Data Resources Inc. (EDR) and the results are presented in *The EDR Radius Map Report with GeoCheck* (Appendix A).
- Review of regulatory information available from the U.S. Environmental Protection Agency (U.S. EPA) Envirofacts Web site and files at the Tennessee Department of Environment and Conservation (TDEC) Memphis Environmental Field Office (EFO). Select portions of regulatory documents are provided in Appendix B.
- Review of aerial imagery of the subject property area on Google Earth, including Google Earth's Historical Imagery timeline feature, which showed aerial images dated January 1997; February and October 2003; February and October 2004; March 2005; January, July, and August 2006; June 2007; January and April 2008; April 2010; May and August 2011; and November 2012. The Google Earth images are courtesy of various organizations — including the U.S. Geological Survey (USGS), U.S. Department of Agriculture (USDA) Farm Service Agency, DigitalGlobe, 2013 Sanborn, and State of Arkansas — and were not reproduced for this report.
- Review of the following historical and land-use documents:
  - USGS 7.5-Minute Series topographic maps of the Northwest Memphis quadrangle dated 1965, 1973, 1993, and 1997; and 15-Minute Series topographic maps of the Memphis quadrangle dated 1955 and 1960. Due to copyright restrictions, USGS topographic maps were not reproduced for this report.
  - Aerial photographs dated 1931, 1937, 1938, 1940, 1949, 1953, 1959, 1962, 1964, 1969, 1971, 1977, 1981, and 1990 from the Shelby County Archives; snapshots of the subject property provided are in Appendix C.



- Aerial maps dated 1938, 1949, 1971, 1981, 1990, 2004, 2006, 2008, 2010, 2012, and 2013 on the Shelby County Register of Deeds Web site.
- City directories dated 1921 to 2012 at approximately five-year intervals included in *The EDR-City Directory Abstract* (Appendix D).
- City directories dated 1888 to 1907 on the Shelby County Register of Deeds Web site; select screen shots are in Appendix D.
- Sanborn fire insurance map dated 1888, 1897, 1907, 1950, 1952, 1965, and 1969 in the *Certified Sanborn Map Report* (Appendix E).
- Review of property record information, warranty deeds (Appendix F), and tax parcel maps from the Shelby County Assessor of Property and the Shelby County Register of Deeds Web sites.
- Physical setting information (Appendix G) obtained from the following sources were reviewed:
  - Flood zone information from the Federal Emergency Management Agency (FEMA) online Map Service Center Web site;
  - Soil Survey information from the USDA Natural Resources Conservation Service (NRCS) Web Soil Survey Web site; and
  - Wetlands information from the U.S. Fish and Wildlife Service National Wetland Inventory Web site.
- Review of a Building Diagram Package (Appendix H) that shows floor layouts, general use/type of space, size, and occupying tenants provided by John Freeman, president of Freeman Real Estate Company, which occupies and manages the building for the subject property owner.

## 1.3 Client Information and User Responsibilities

EnSafe was retained by One Hundred North Main LLC to conduct the Phase I ESA. According to ASTM, the *user* shall make known the reason for the Phase I ESA. In contracting EnSafe for the Phase I ESA, Mr. Thomas did not indicate why the Phase I ESA was being conducted; therefore, in accordance with ASTM E 1527-05 Section 6.7, EnSafe assumes the purpose is to qualify for landowner liability protection





from CERCLA liability. Mr. Freeman indicated the building was proposed for redevelopment for residential and hotel uses. Section 6 of ASTM E 1527-05 describes tasks to be performed by the *user* that will help the environmental professional identify the possibility of *recognized environmental conditions*. The tasks do not require the technical expertise of, and are generally not performed by, an environmental professional as part of a Phase I ESA. Mr. Thomas did not indicate knowledge of the following.

- Environmental cleanup liens that are filed or recorded against the site under federal, tribal, state, or local law.
- Activity and land-use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry. AULs are an explicit recognition by a federal, state, or local regulatory agency that residual levels of hazardous substances or petroleum products may be present on a property, and that unrestricted use of the property may not be acceptable. The term includes both legal and physical controls. AULs are often recorded in land title records and on state institutional or engineering controls registries.
- Any specialized knowledge or experience that is material to *recognized environmental conditions* in connection with the property.
- The relationship of the purchase price to the fair market value of the property.
- Commonly known or reasonably ascertainable information within the local community about the property that is material to *recognized environmental conditions* (i.e., information that would help identify conditions indicative of releases or threatened releases on the property including, but not limited to, chemical and petroleum use on the property, spills or releases of chemicals or petroleum products, and environmental cleanups).



## 2.0 GENERAL SITE SETTING

### 2.1 Location and Physical Setting

The subject property is at 100 North Main Street in Memphis, Shelby County, Tennessee, at north latitude 35°08'52.08" and west longitude 90°03'03.60". The subject property's ZIP code is 38103. The 100 North Main Building is part of a central downtown 12-block open mall area (also known as Main Street Mall and Mid-America Mall) undergoing continual redevelopment of historical buildings into apartments, unique retail stores, offices, restaurant, and entertainment businesses to promote revitalization of the downtown area. Tennessee is the 15<sup>th</sup> state in the nation for listings of properties on the National Register of Historical Places (NRHP) and Memphis is the second city in Tennessee, with 179 sites, several of which adjoin or are within two city blocks of the subject property.

North Main Street is accessible to pedestrians and a Memphis Area Transportation Authority Main Street Trolley (vintage trolley rail system that began operating in 1993); vehicle traffic is prohibited. The Shelby County Assessor of Property Card describes the subject property (Tax Parcel ID 002012 00001C) as a 1-acre parcel improved with a 792,873-square-foot 38-story high-rise office building. At 430 feet tall, the 100 Main Street Building has the distinction of being the "tallest building in Memphis" and, as detailed in Sections 3.1 and 3.2, is locally known as the "UP Building" because of former occupancy by Union Planters (UP) Bank and large illuminated UP sign that was dismantled in 2005 when UP Bank was acquired by Regions Bank. The building has also been occupied by The Tennessee Club (within an indoor pool on the 36<sup>th</sup> floor) and a rotating circular glass restaurant that operated as Top of the 100 Club and the Pinnacle.

The 100 North Main Building footprint encompasses the entire subject property parcel, except for an approximately 1,850-square-foot tract (Tax Parcel 002012 00002) that provides pedestrian access to the main floor lobby of the 100 North Main Building from the west-adjointing North Main Street. The remainder of the subject property is bordered by Adams Avenue to the north, South Second Street to the east, and an unnamed (private) alley to the south. Additional addresses used at the subject property include 95 North Second Street (vacant but most recently occupied by Freedom Bail Bonds) and 94 North Main Street (occupied by Sam's Hamburgers restaurant).

Figure 1 is a Site Location Map and Figure 2 shows the location of the subject property relative to surrounding properties.

\\Esdadnet\cad\CAD PROJECTS\14496\_100 N. Main\Plans\14496\_B001\_SITE\_LOC\_SMMK.dwg

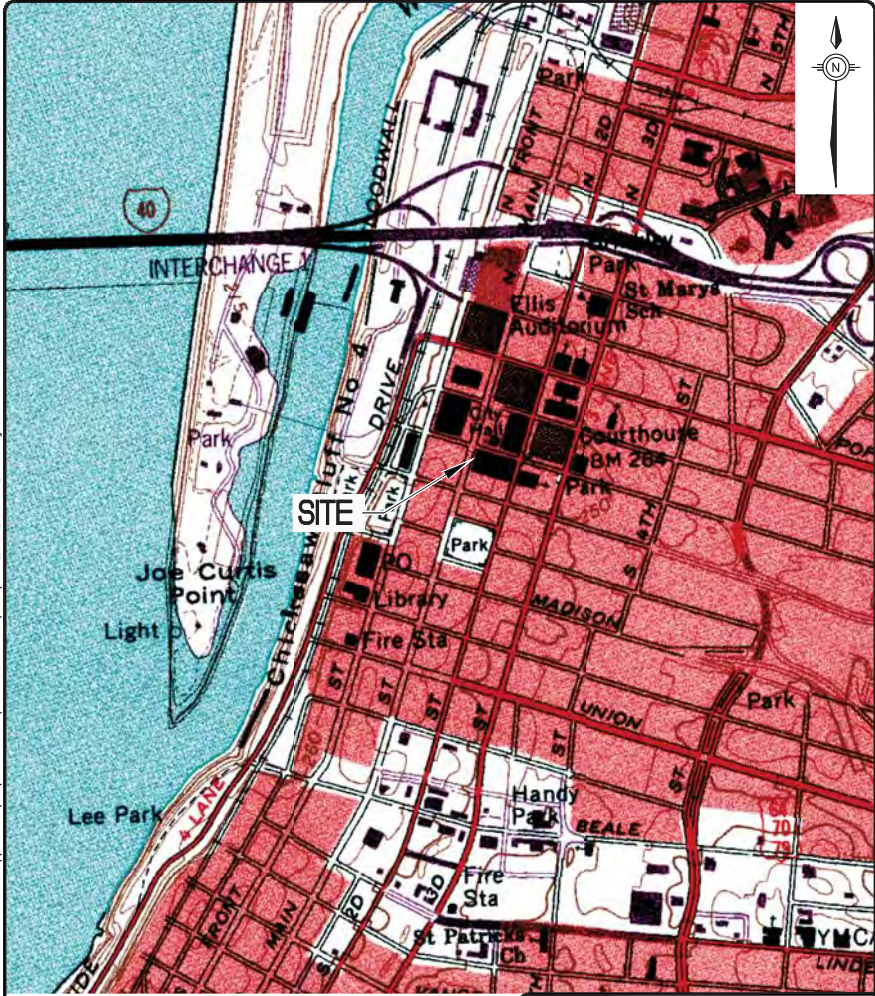


FIGURE 1  
SITE LOCATION MAP  
100 N. MAIN STREET  
MEMPHIS, TENNESSEE 38103

MAP SOURCE:  
U.S.G.S. 7.5 MINUTE QUADRANGLE  
NORTHWEST MEMPHIS, TN-AR 1965 - PHOTO-REVISED 1993  
SOUTHWEST MEMPHIS, TN-AR 1965 - PHOTO-REVISED 1993

REQUESTED BY: A.SERRANO  
DRAWN BY: BRONSON  
DWG DATE: 10/29/13  
DWG NO: 14496\_B001

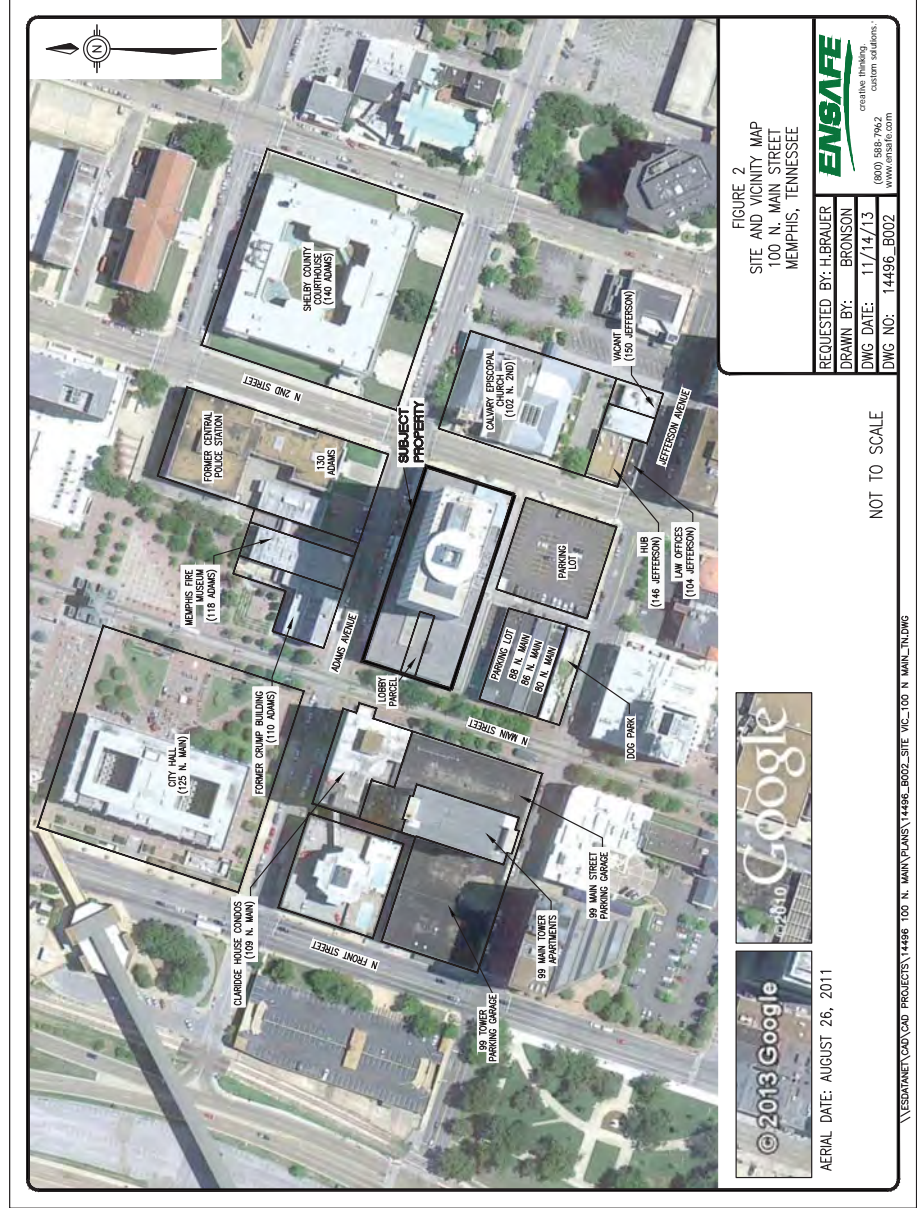


FIGURE 2  
SITE AND VICINITY MAP  
100 N. MAIN STREET  
MEMPHIS, TENNESSEE

REQUESTED BY: H.BRAUER  
DRAWN BY: BRONSON  
DWG DATE: 11/14/13  
DWG NO: 14496\_B002

NOT TO SCALE



AERIAL DATE: AUGUST 26, 2011

\\ESDADNET\cad\CAD PROJECTS\14496\_100 N. MAIN\PLANS\14496\_B002\_SITE\_VIC\_100 N MAIN\_TN.DWG







## 2.2 Topographic Conditions

Topographic information was obtained from review of USGS topographic maps and the Shelby County Register of Deeds Web site, which includes an aerial photograph overlain by 2-foot topographic contours measured in 2006. The Physical Setting Source section of the environmental database search report maps the approximate center of the subject property at 259 feet above mean sea level and lists a general topographic gradient with relief towards the south, which is consistent with other topographic resources that show the southeast corner of the subject property at 260 feet above mean seal level and the northwest corner. During the site visit, the subject property was observed to generally slope down to the south-southeast.

## 2.3 Surface Water and Site Drainage

No surface water bodies were observed on the subject property or adjoining properties. Precipitation runoff discharges to curbed storm drains along Adams Avenue, North Main Street, North Second Street, and Jefferson Avenue.

The U.S. Fish and Wildlife Service National Wetlands Inventory Wetlands Mapper did not map wetlands on the subject property. The nearest named surface water body is the Wolf River Harbor of the Mississippi River, which is approximately 1,300 feet west of the subject property. The Mississippi River is not used as a drinking water source and there are no surface water intakes in the Memphis area that supply public water.

FEMA mapped the subject property in "Other Areas Zone X" which it defines as "Areas determined to be outside the 0.2% annual chance floodplain." A Flood Insurance Rate Map downloaded from FEMA's Online Mapping Service Center is provided in Appendix G.

## 2.4 Geology and Hydrogeology

According to the USDA NRCS Web Soil Survey (Appendix G), the subject property soil is Graded land, silty materials (udorthent, silty), which is a well-drained silt loam in hydrologic class B and is well drained with moderate infiltration rates and moderately coarse textures. This soil type is typically encountered in urban areas where grading and other disturbance has altered the original soil surface characteristics.

First water is typically encountered in the fluvial transition zone and in the fluvial aquifer, in which groundwater movement frequently parallels surface topography of local drainage patterns toward major surface water features. Where groundwater is infrequently encountered in the loess, it typically represents a thin groundwater zone perched on a clay layer. Shallow groundwater in the loess and the



fluvial aquifers is generally a poor quality; consequently, it is not used for potable water. Most of the water used in the region is supplied from the Memphis Sand, a prolific and regionally extensive Tertiary sand aquifer across western Tennessee, eastern Arkansas, and northern Mississippi. In the Memphis area, the Memphis Sand aquifer, encountered from 570 to 670 feet below ground surface (bgs), provides water for most municipal, industrial, and commercial supplies.

## 2.5 Wells

No groundwater wells were identified or reported to be on the subject property. EDR researched Federal USGS and state databases and identified 19 wells within 1 mile of the subject property on the USGS database, 37 wells on the state database, and four wells on EDR's proprietary AQUIFLOW Information System database<sup>1</sup>.

The following wells registered with the USGS could be located by facility name and with hydrogeological information (well depths and reported aquifer in parentheses): west-adjoint Former Claridge Hotel/Current Claridge Condominiums (442 feet, Memphis Sand), Federal Reserve Bank (401 feet), Gerbers, Leader Federal (51 feet), Sterick Building basement (455 feet, Memphis Sand), Exchange Building (445 feet), Goldsmith's (480 feet, Memphis Sand), Former Chisca Hotel (300 feet, Memphis Sand), City of Memphis Light, Gas and Water Division (MLGW), Commercial Appeal (56 feet, terrace and surficial deposits), Kraus Model Cleaners (401 feet), and Bannon Ice (396 feet, Memphis Sand). Groundwater level measurements were only reported for the Claridge Hotel (48 feet bgs in January 1932) and the Commercial Appeal (13.5 feet bgs in October 1988).

The state-registered wells identified by EDR are described as commercial (primarily for downtown buildings, hotels, banks, and retail stores), industrial (for manufacturing facilities and a laundry), municipal (Federal Reserve Bank), test wells, and other unspecified uses.

EDR identified the following three locations on AQUIFLOW; based on the dates of data collected and the distance from the subject property, this groundwater information (particularly related to flow direction) is not useful with respect to determining conditions at the subject property.

- EDR Well ID 20649 (one-quarter to one-half mile east-southeast of the subject property) — groundwater measured between 9.68 and 17.84 feet bgs, with a northeast flow direction, in 1997.

<sup>1</sup> EDR developed the AQUIFLOW Information System by reviewing reports submitted to regulatory authorities at select sites from which it extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to the water table.



- EDR Well ID 17618 (one-half to 1 mile southeast of the subject property) — groundwater measured between 4.99 feet and 6.58 feet bgs, with a northwest flow direction, in 1995.
- EDR Well ID 20545 (one-half to 1 mile southeast of the subject property) — groundwater measured between 8.78 and 22.50 feet bgs, with a northwest flow direction measured in 1996.

EDR mapped the Memphis Wilbert Vault Company, between 660 feet and 1,320 feet to the northeast, as the nearest Federal Public Water Supply System within 1 mile of the subject property. The mapped location is the address of the well owner, not the physical location, which is at 3929 Lakeview in southwest Memphis, over 10 miles from the subject property.



### 3.0 SUBJECT PROPERTY

#### 3.1 Historical Uses

EnSafe reviewed historical and land-use resources listed in Section 1.2 and conducted interviews listed in Section 3.2 to determine past uses of the subject property. The historical document review and interviews were conducted to identify evidence of *recognized environmental conditions* in connection with the subject property from past uses onsite.

The earliest historical resources reviewed, an 1883 city directory and 1888 Sanborn map, indicate the subject property had even-numbered addresses between 96 and 106 Main Street and odd-numbered addresses between 107 and 125 Adams Avenue and 93 to 103 Second Street. Circa 1904, several downtown Memphis street addresses were renumbered and streets were renamed, which is reflected in the historical discussion in this section. Those renumbered addresses associated with the subject property are as follows.

- 218 to 228 Main Street became 106 to 96 North Main Street
- 111 Adams Avenue became 31 to 37 Adams Avenue
- 227 to 217 Second Street became 93 to 107 North Second Street

Earlier historical resources (particularly Sanborn maps and city directories) that indicated a property or building was occupied by a store (designated by an "S") but did not identify the type of business, or the names were an individual or not otherwise indicative of the type of operations/uses conducted. Although those resources documented occupancy, development, and improvement, they were of limited usefulness with respect to determining historical uses.

No drycleaners, vehicle repair, gasoline or service stations, or aboveground storage tanks were identified at the subject property from historical or regulatory research.

#### 3.1.1 North Main Street Sites

In the 1880s, the west half of the property had row-type businesses that fronted North Main Street. The 1888 Sanborn map shows six stores between 218 and 228 Main Street; 218, 220, 222, and 228 had four floors and 224, 224½, and 226 had three floors. The store at 218 Main Street store, in the northwest corner of the subject property, was occupied by a yeast manufacturer in 1888 and a dental and surgical equipment supply company in 1890. The late 1880s city directories listed individuals' names but did not indicate if the address was residential or a business.



#### **218 to 222 Main Street/104 to 108 North Main Street**

A fire that occurred in 1891 destroyed the 218 to 228 Main Street buildings, indicated on the 1897 Sanborn map as "Ruins of Fire," which was rebuilt as one structure at 106 North Main Street. BryBlock Mercantile Company (BryBlock) and sewing machine companies (J.T. Norred, New Home, White, and Wilcox & Gibbs) occupied this location between 1902 and 1912. In general, many of the building occupants and company names (e.g., McClintock's and A.J. Engle & Co.) listed in 1912 to 1915 city directories at 104 and 106 North Main Street do not indicate specific type(s) of business activities conducted.

The Baltimore Building is listed in city directories as "se corner" of North Main Street and Adams Avenue and at 106 North Main Street. Beginning in 1910 with Baltimore Dairy Lunch, a restaurant operated at 104 or 106 North Main Street in the Baltimore Building through 1958. The basement of 104 North Main Street was occupied by Baltimore Billiard Hall in 1926.

The 108 North Main Street address was first listed in city directories in 1918, occupied by Piggly Wiggly, through 1926. Palace Meat Market was at 106 North Main Street in 1921. Between 1926 and 1958, multiple tenants of second and third floor "rooms" listed at the Baltimore Building in city directories reviewed included collection and detective agencies, insurance and real estate agents, a secretary school, tailors and uniforms, sales companies, attorneys, court reporters, bookkeepers, advertising agencies, temporary employee staffing agencies, a newspaper, storage, and cosmetics. As with earlier city directories, building occupants' listed names listed did not indicate specific type(s) of business activities; for example, if Colby Uniforms cleaned or laundered uniforms or if DaMillie Cosmetics manufactured or blended personal products. Based on "Photo" labeling on the 1950 and 1952 Sanborn maps, various studios (LeNard Studio Photography, Tooley Miron Studios) that operated at 104 North Main Street from 1948 to 1958 developed film, a process that may have involved use of hazardous substances (developing solution, fixatives, and acetic acid) and generation of wastewater, and silver generation/reclamation.

From 1932 to 1958, the 108 North Main Street address was occupied by The Toggery Clothing Co., a man's clothing store. In 1932, George's Place hatters was listed at the Baltimore Building; 19<sup>th</sup> century hat makers used inorganic mercury compounds (mercuric nitrate) to treat felt and small-animal fur associated with hat manufacturing. Historical research did not document if this business manufactured hats but the building size and setting (downtown near residences and hotels, where fumes would be prohibitive) of the Baltimore Building facility indicates a large hat manufacturing plant did not operate at this location. EDR lists George's Place Hatters on its Historical Cleaners database.



#### **224 Main Street/102 North Main Street**

The 1888 Sanborn map shows Robinson Dime Museum at this location (sharing a common wall with the south-adjointing 224½ Main Street building), with R. Kupferschmidt listed as the occupant of 224 Main Street. This address is listed as vacant in 1890. The 1897 Sanborn map labeled this building as a store but city directory listings do not indicate what type. From 1901 to 1903, this building was part of the larger BryBlock mercantile business that extended north to Adams Avenue. Additional businesses at this address were L. Horn & Co./Horn Brothers store (1903 to 1910), Wolf Friedman ladies furnishing (1921 to 1932), Dunwoody's Clothes Shop (1938), and National Liquor Store (1943 to 1958).

#### **224½ Main Street/100 North Main Street**

The 1888 Sanborn map shows this building used as the Robinson Dime Museum (sharing the common wall with north-adjointing 224 Main Street). This address was vacant in 1890. The 1897 Sanborn map labeled this building as a furniture store but city directory listings do not indicate if furniture was manufactured or repaired, processes which involve the use of hazardous substances (stains, paint, adhesives, and thinner/solvent). From 1901 to 1903, this building was part of the larger BryBlock mercantile business that extended north to Adams Avenue. Additional businesses at this address were Century Liquor and Cigar Co. (1904-1908), Otto Steiger (1910), Levitch B G (1921), The Peoples Store (1926), Esther Dress Shop (1932), Clarks Furniture Mart (1943), Memphis Military Tailors (1948 to 1953), and Friedman's Fashions women's clothing (1958 to 1963).

#### **226 Main Street/98 North Main Street**

The businesses that operated at the 226 Main Street store shown in the 1888 and 1897 Sanborn maps were not named in the 1888 city directory. The store had an open elevator in the rear (east end) of the building. The property address was not listed in 1900. Residential occupants (private individuals' names) were listed in 1902 and 1904. Subsequent businesses at this address include Stein Co. Racket Store in 1907, Colonial Theater in 1910, Beauty Theatre (1921 to 1926), Friedman Shop women's clothing (1932 to 1953), and National Liquor Store (1963)<sup>2</sup>. Sanborn maps identified an open elevator at 98 North Main Street.

#### **228 Main Street/96 North Main Street**

The 228 Main Street, at the southwest corner of the subject property, was a furniture store from 1888 to 1897; an open (freight) elevator was midway along the building's south wall (Jefferson Avenue). The property address was not listed in 1900 and residential occupants

<sup>2</sup> A Racket Store was an individually owned and operated variety stores primarily found in the South that retailed an assortment of merchandise including ladies' and men's ready-to-wear clothing, pots, pans, tableware, shoes, boots, etc.



(private individuals' names) were listed was listed in 1902 and 1904. The 1907 Sanborn map shows a store on the ground floor and a storage warehouse on the upper floors, which is consistent with the 1910 city directory that lists Lewis Wrecking Transfer and Storage Company at 96 North Main Street. Additional occupants of this address included Gerstel Morris (1907), Lewis & Ginsburg clothing store (1921 to 1938), U.S. Surplus Store (1953 to 1958), and Sailor Tailor general merchandise (1963). Sanborn maps identified an open elevator at 96 North Main Street.

### 3.1.2 Adams Avenue Sites

Historical Adams Avenue addresses associated with the subject property were 31-37 Adams Avenue and, after 1904, 107-125 Adams Avenue. The subject property was bisected by North November 6<sup>th</sup> Street until the 100 North Main Building was constructed.

#### 31-35 Adams Avenue/109-115 Adams Avenue

The 1888 Sanborn map shows three row-type buildings at 31, 33, and 35 Adams Avenue used for storage, a carpentry shop, and an office, respectively; late 1980s city directories list individuals' names and were not useful in determining historical uses. This part of the subject property was burned in the 1891 fire discussed in Section 3.1.1 and is labeled as "ruins of fire" in 1897. City directories did not list 31, 33, or 35 Adams Avenue between 1900 and 1905.

The two-story 111 Adams Avenue building constructed after the fire was labeled as a printing and binding company, according to the 1907 Sanborn map, which identified the following equipment onsite: a 25-horsepower engine, a tank, electric motors, and an elevator. City directories list street level addresses at this location as vacant, with Nelson's Business College on the 2<sup>nd</sup> floor in 1907. City directories did not list this address in 1910.

Some businesses listed in city directories appear to have been offices and restaurants; examples of those are J.B. McKinney Land Investment Co., Edwards Lunch Room, and Holeman Justice of the Peace. City directories also list various individual and company names without an indication of the type of business conducted at that location. Listed businesses that may have used hazardous substances and petroleum products at this location, based on general industry knowledge, include Wagner Electric Co. (111 Adams Avenue) and V.F. Botto & Co., a wholesale tobacco company (115 Adams Avenue).

#### 37 Adams Avenue/117-125 Adams Avenue

The earliest historical resources obtained for this Phase I ESA indicate this property was a boarding house in the late 1880s/early 1990s. From the early 1990s to 1963, a restaurant and lobby were on the ground level above which was a three-story hotel that operated under various names through 1963.



### 3.1.3 North Second Street Sites

The 1888 Sanborn map labels the building that occupies the east end of the subject property, fronting North Second Street, as the four-story Adams Building at 217 to 227 North Second Street. The Memphis Club occupied the upper floors of this building, with a floodlit performing stage on the ground level. Storefronts along North Second Street were occupied by a plumber, restaurant, piano repairing, wallpaper and painting, and furniture; neither Sanborn maps nor city directories indicates if furniture was manufactured or repaired at these store locations (219 and 227 North Second Street).

The 1891 fire did not involve this portion of the subject property and, by 1897, was the Young Men's Hebrew Association, with storefronts for musical instrument repair and music shops. Sanborn maps and city directories from the early 1900s to mid-1950s list various businesses involving musical instrument manufacturing, warehousing, repairing, servicing, and sales.

The Memphis Artesian Water Department, City of Memphis Board of Water Commissioners, justices of the peace, constables, court reporters, and union worker offices were at this location between 1921 and 1932.

The following businesses may have had operations involving the use or storage of hazardous substances or petroleum products, based on general industry knowledge: furniture stores (various floors/addresses), general warehousing (various floors/addresses), Gintone Laboratories (103 North Second Street), Latsen & Arnold printers (97 North Second Street), Holland Furnace Co. (93 North Second Street). Neither Sanborn maps nor city directories indicated specific activities conducted by those businesses; the printing industry uses hazardous substances including oil- and solvent-based inks and solvents.

### 3.1.4 North November 6<sup>th</sup> Street

The north-to-south trending North November 6<sup>th</sup> Street divided the subject property between 115 and 117 Adams Avenue until 1963, when the 100 North Main Building was constructed. This street name was listed in 1953 to 1968 city directories; during which time there were no addresses listed for this street between Adams Avenue and Jefferson Avenue. Sanborn maps indicate this street was an alleyway for vehicle access.

### 3.1.5 100 North Main Building

Historical aerial photographs show the subject property developed as it appeared in corresponding Sanborn maps. The structures at the northeast corner (105 and 107 North Second Street) were razed between 1938 and 1940; structures in the southeast corner (93 and 95 North Second Street) were razed between 1953 and 1959 and used as an open parking lot.





The 102 to 106 North Main Street addresses are listed as "Under Construction" in the 1963 city directory, which is consistent with the January 1964 aerial photograph that shows significant land disturbance. Construction was completed in 1965, which is consistent with the 1965 Sanborn map and 1965 aerial photography. No changes to the building exterior are evident in comparison of aerial photographs taken after 1965.

Two additional addresses associated with the present-day building are 95 North Second Street, most recently occupied by a bail bondsman, and 94 North Main Street, which was occupied by a liquor store between 1968 and 1992 and has been a restaurant since 2003. The 1965 Sanborn map labels the northwest portion of the building as a bank.

The 100 North Main Building has housed a variety of tenants since construction. Because of its proximity to the Shelby County courthouse, most of the former tenants were administrative offices occupied by attorneys, title companies, court recorders, insurance brokers, and local government agencies. UP Bank occupied the main (street) level of this building, and other financial-related businesses have been tenants; the original UP Bank safe was recently removed from the subject property. Additional occupants of note were The Pinnacle Restaurant (rotating restaurant atop the building), and The Tennessee Club (with swimming pool and spa).

### 3.1.6 Ownership

EnSafe reviewed warranty deeds dating back to 1901 that were readily available on the Shelby County Register of Deeds Web site; none of the ownership records indicated historical uses of the subject property. One Hundred North Main LLC acquired the subject property on August 1, 2013.

### 3.2 Interviews

EnSafe conducted the following interviews with personnel associated with the subject property.

#### Key Site Manager

The user of the Phase I ESA identified Mr. Freeman as the point of contact for access to the site. Mr. Freeman has been the property manager at the subject property since 1978 during which time office space has been leased by various attorneys, banks, and associated companies. Mr. Freeman accompanied EnSafe during the site visit and explained the historical significance of some areas: the Pinnacle Restaurant comprised the 38<sup>th</sup> floor until it was closed in the late 1990s and the Tennessee Club occupied the 36<sup>th</sup> floor with a spa, natatorium, and exercise equipment. The ceiling above the swimming pool retracted with skylights. The pool was constructed of metal, which was cut up and removed and the floor filled with concrete; pool filtration and other chemical equipment had



been removed. Mr. Freeman said a high pressure water tank on the 24<sup>th</sup> floor burst and flooded the underlying floors in May 2011. Additional information provided by Mr. Freeman is discussed throughout this report.

#### Maintenance Manager

EnSafe interviewed Maintenance Manager John Ballentine, who has been employed at the site 1974. Based on the length of time Mr. Ballentine has been at this location and the functions of his job, Mr. Ballentine meets ASTM's definition of a Key Site Manager and information he provided is discussed throughout this report.

#### State and/or Local Government Officials and Government Agencies

EnSafe emailed a request for information related to TDEC Division of Remediation (DOR) sites in the subject property area, including a US Brownfields site (26 South Main Street) to Jordan English, TDEC Memphis EFO DOR Manager. Mr. English said he was unaware of any DOR sites in that location and referred EnSafe to Herb Nicholson, TDEC Memphis EFO Division of Solid Waste Management (DSWM) Manager for additional information. EnSafe interviewed Mr. Nicholson by telephone regarding solid or hazardous waste sites in the subject property area. Mr. Nicholson was unaware of any active DSWM sites at the subject property and suggested review of files at the Memphis EFO.

EnSafe requested information from the City of Memphis Fire Department Hazardous Material Inspector regarding records of fire department inspections, and any releases, spills, or fires of, or caused by, hazardous materials to which the fire department has responded at 100 North Main Street. EnSafe has not received a response.

EnSafe interviewed Trish Goforth, Shelby County Land Use Control Department secretary, regarding permits and land use for the subject property. Ms. Goforth referred EnSafe to an online database to research building permits issued for the subject property.

EnSafe contacted Gerald Wood, MLGW Transformer Foreman, regarding electrical transformers inside the building. The observed transformers are dry-type (no mineral oil) and low voltage. Mr. Wood confirmed the mini-transformers are not owned by MLGW, and stated that vault transformers in downtown Memphis owned by MLGW do not contain polychlorinated biphenyls.

### 3.3 Prior Environmental Assessments

EnSafe was not made aware of or provided for review any prior environmental assessments for this Phase I ESA. Mr. Freeman was unaware of prior environmental assessments of the subject property.



### 3.4 Current Uses

The subject property was visually assessed on October 18, 2013, by Ms. Brauer and Ms. Serrano of EnSafe, accompanied by Mr. Freeman and Mr. Ballentine. The purpose of the site reconnaissance was to determine current uses and to identify evidence of *recognized environmental conditions* in connection with the subject property. The building diagram provided by Mr. Freeman is in Appendix H and photographs taken during the site visit are in Appendix I.

The lower lobby is comprised of the first level for the parking garage with ramps leading to the street-level parking garage entrance, three staircases, 10 elevators, lobby space, restrooms, 22,067 square feet of available office space, and six mechanical rooms comprised of two pump rooms, a back-up generator room, a janitor's office, the maintenance office, and miscellaneous storage for the maintenance department.

The main floor is comprised of the main lobby area with escalators and 10 elevators (five serve the Lower Level to the 22<sup>nd</sup> floor and five serve the 22<sup>nd</sup> to 38<sup>th</sup> floors), parking deck, and street-level entrances off North Main Street, North Second Street, and Adams Avenue; along the south side of the building (unnamed alley) were a loading zone with a former freight elevator and two Dumpsters. The main floor has approximately 24,000 square feet of available space including the former UP Bank area and storefront formerly occupied by a bail bondsman company at 95 North Second Street, and is occupied by Sam's Hamburgers, in the southwest corner of the building at 94 North Main Street.

Floors 2 through 8 are parking decks on which two elevators were formerly in use. Floors 6 and 7 have boiler rooms; according to Mr. Ballentine, the boilers are fueled by natural gas. Floor 7 also has two cooling towers. Floor 8 has a chiller room, two cooling tower fans, and an out-of-service chiller.

Floors 9 through 36 each have 15,764 square feet, of which 10,000 to 13,900 square feet are available. Common areas on each of the 28 floors include restrooms, lobby, janitor closet, mechanical and electrical rooms, a stairwell, and elevators. Floor 23 has maintenance, mechanical, and boiler/hot water heater rooms. Floor 24 has an elevator equipment room and a high pressure water tank. Floor 33 has an elevator equipment room and a former computer server room. Floor 35 has an elevator generator room, unoccupied office space, and the former MCI Telecommunication Corporation equipment room. Floor 36 has the cable elevator equipment room for the upper floor elevators.



Floors 37 and 38 are a circular structure on the building's roof. Floor 37 has three mechanical rooms, a lobby with restrooms, five stairwells, and two storage spaces. Floor 38, currently unoccupied, was the rotating Pinnacle of Memphis Restaurant that closed in 1998; remnants of the restaurant found throughout the lounge, kitchen, and serving area included appliances, utensils, furniture, linens, shelves, dishwashing and sanitizing chemical dispenser, and freezers.

Mr. Ballentine said that electricity, natural gas, and potable water are provided by MLGW, and sanitary sewer services are provided by the City of Memphis Public Works Division. Mr. Ballentine was unaware of any former septic systems or groundwater wells on the subject property. All elevators are cable with electric switches; none reportedly contain hydraulic fluid reservoirs.

### 3.5 Interior and Exterior Observations

Table 1 lists environmental issues and identifies those present or applicable to the subject property<sup>1</sup>, based upon EnSafe's visual observations of the interior and exterior, interviews, review of environmental records sources, and regulatory research. Each environmental issue present or applicable is discussed in sections as noted in the table.

**Table 1**  
**Interior and Exterior Observations**

<b>Issue/Category</b>	<b>Present or Applicable</b>	<b>Report Section</b>
<b>Interior and Exterior Observations</b>		
Hazardous Substances and Petroleum Products	Yes	3.5.1
Storage Tanks	Yes	3.5.1 and 3.6
Pesticides and Herbicides	No	—
Source of Strong, Pungent, or Noxious Odors	No	—
Pools of Liquids	Yes	3.5.2
Drums and Containers	Yes	3.5.1
Unidentified Substance Containers	Yes	3.5.3
Polychlorinated Biphenyls	No	—
<b>Interior Observations</b>		
Fuel Source for Heating and Cooling Systems	Yes	3.4
Stains or Corrosion (on walls, floor, and ceilings)	Yes	3.5.4
Floor Drains, Sumps, and Pits	Yes	3.5.5
<b>Exterior Observations</b>		
Pits, Ponds, or Lagoons	No	—
Stained Soil or Pavement	Yes	3.5.6
Stressed Vegetation	No	—
Solid and Hazardous Waste	Yes	3.5.7
Wastewater	No	—
Wells	No	—
Septic Systems or Cesspools	No	—



### 3.5.1 Hazardous Substances, Petroleum Products, and Storage Tanks

Hazardous substances and petroleum products were observed throughout the building in maintenance, mechanical, boiler, and chiller rooms. Products observed include one 55-gallon drum of water treatment chemical; 5-gallon buckets of Non-Fibered Roof Coating, ANCO OX 1000 feed water oxygen scavenger, 440 Henry Cove Base; gallon containers of bleach, paint, paint thinner, Otis Lubricant, Valvoline Diesel 5W-40 Engine Oil; several 5-gallon containers of paint, ANCOTREAT 1207, ANCOOL 3390 (scale, sludge, and corrosion inhibitor for cooling towers), and petroleum products; quarts of Slip-it Mechanic's Sliding Compound, Nylube, solid state starter/VSD coolant, Top Job Ammonia; and several 12-ounces aerosol spray cans of lubricant, paint, and bug spray.

EnSafe observed what is believed to be a 30-gallon diesel fuel day tank for the back-up generator; the tank is located in the generator room in the southeast corner of the lower lobby level. The tank is reportedly filled from 5- to 10-gallon jerricans stored on the concrete floor in the generator room. The generator was formerly fueled by diesel in an underground storage tank (UST) registered to MCI Telecommunications Corporation at the subject property address, discussed in Section 3.6.

Former computer and telephone data set equipment was powered by automotive-type lead acid batteries stored in a metal unit in the data room on the 33<sup>rd</sup> floor. EnSafe did not observe corrosive stains in this room.

### 3.5.2 Pools of Liquid

Pools of liquid that appear to be from condensation, equipment blowdown, or cooling water was observed in mechanical, boiler, chiller, and maintenance rooms throughout the building.

### 3.5.3 Unidentified Substance Containers

Unlabeled containers of which Mr. Ballentine was unaware of the contents observed inside the building included several 5-gallon containers, one 30-gallon container in the 8<sup>th</sup> floor chiller room, and two 55-gallon drums in a lower lobby level storage room.

### 3.5.4 Stains or Corrosion

Stains, drips, and spills from paint, lubricants, and other maintenance products were observed on the concrete floor of the mechanical rooms and maintenance rooms.



### 3.5.5 Floor Drains, Sumps, and Pits

Several floor drains observed throughout the building in the mechanical, boiler, chiller, and maintenance rooms reportedly discharge to the municipal sanitary sewer system. EnSafe did not observe sumps or pits within the building footprint; grated covers on Adams Avenue and North Second Street sidewalks drain precipitation and provides city access to sewer piping.

### 3.5.6 Stained Soil or Pavement

The pavement throughout the parking garage, loading dock, and elevator equipment rooms was stained and marked.

### 3.5.7 Solid and Hazardous Waste

Solid waste generated by active tenants is accumulated in Dumpsters and in several locations on the lower lobby level. Additional wastes from former tenants and the recent flooding observed during the site visit include office equipment and furniture, floor and ceiling tiles, paper products, cardboard boxes, sinks, tires, hot water heaters, and wheels/rims.

### 3.6 Environmental Records Review

EnSafe obtained standard environmental record source information directly from a commercial service (EDR) and from U.S. EPA Envirofacts and TDEC Web sites. The subject property address is listed on the following environmental databases.

#### MCI Telecommunications Corporation — 100 North Main Street — Facility ID 9-792144

The subject property is on the UST, Historical Underground Storage Tanks (HIST UST), and Leaking Underground Storage Tanks (LUST) databases for a 2,000-gallon diesel fuel tank installed by MCI Telecommunications Corporation for its microwave terminal at the subject property in August 1986; MCI Telecommunications Corporation arranged for the tank to be removed when it did not renew its lease at the subject property. The UST was located in the southeast corner of the lower lobby level west of the generator room.

Documents submitted to TDEC for the October 28, 1996, removal described the tank and piping (fiberglass-coated steel) in excellent condition and stated that Woodstock Industrial Services removed 1,400 gallons of diesel fuel from the tank prior to removal. The tank had been set in a concrete vault, and field screening did not detect organic vapors. Four soil samples were collected (one from each corner of the excavation) at 8 feet bgs and sent to a state-approved laboratory for analysis of total petroleum hydrocarbons (TPH) diesel-range organic (DRO) compounds, which were detected at 25.8 parts per million (ppm). TDEC required an additional sample outside the vault (in native fill) for



TPH DRO analysis, which was detected at 13.9 ppm. Stockpiled soil contained 29.1 ppm TPH DRO. All of the TPH DRO levels were below screening levels applicable at that time. Approximately 520 gallons of tank pit water encountered during removal was sampled for and analyzed for TPH DRO compounds, which were not detected. The fill was returned to the vault excavation and filled with concrete to match existing ground surface. TDEC Division of Underground Storage Tanks (DUST) issued a Final Approval of UST Closure letter on March 5, 1997.

**W.R. Grace and Company — 100 North Main Street — TND044877918**

W.R. Grace and Company is listed as a former generator of hazardous waste at the subject property address. Historical research indicates the subject property was the regional office address for W.R. Grace and Company that was used, between 1968 and 1992, for hazardous waste generation correspondence. U.S. EPA Envirofacts lists this facility ID as inactive.



**4.0 AREA RECONNAISSANCE**

The current and historical uses of adjoining properties described below are based upon visual observations during the site reconnaissance and information obtained from interviews, historical research, and regulatory research conducted for the subject property, as listed in Section 1.2. EDR provided a database search report that made environmental records for surrounding area properties reasonably ascertainable and practically reviewable. Sites listed in the environmental records search within the ASTM-defined minimum search distance for the databases on which they appear are discussed in Sections 4.1 through 4.3.

**4.1 Adjoining Properties**

The subject property is in a portion of downtown Memphis that has been developed commercially since at least 1883 (the earliest year that Memphis-area city directories sorted occupants by street name). Adjoining properties have been retail stores (clothing, furniture, and jewelry), commercial (furniture sales, liquor, and laundry services), service- and entertainment-oriented (hotels, restaurants, and barber shops), local government (court house, police department, and fire department), and offices (insurance agents, banks, attorneys). Downtown Memphis city addresses were renumbered circa 1904, which is reflected in the adjoining properties discussion in this section.

Earlier historical resources (particularly Sanborn maps and city directories) that indicated a property or building was occupied by a store (designated by an "S") but did not identify the type of business, or the names were an individual or not otherwise indicative of the type of operations/uses conducted. Although those resources documented occupancy, development, and improvement, they were of limited usefulness with respect to determining historical uses.

In the 1960s, downtown Memphis underwent significant deterioration that resulted in abandoned streets and buildings, many of which were demolished and replaced by parking lots. Beginning in the mid-1980s, heavy renovation of notable buildings resulted in the revitalized downtown area currently occupied by residences (apartments and condominiums), offices (municipal and private), and retail businesses (restaurants, clothing stores).

**4.1.1 Shelby County Tax Parcel 002012 00002**

This 21-foot by 90-foot rectangular parcel is within the west-central portion of the subject property and represents the open lobby space between the escalators at the North Main Street entrance. The parcel has been owned by Izzy Rosen et al since 1960, and managed by Freeman Realty. One Hundred North Main LLC leases this space, according to Mr. Freeman.



#### 4.1.2 North

The north-adjointing properties border or front Adams Avenue between North Main Street and North Second Street. Addresses associated with these locations west to east are as follows.

##### **114 to 116 South Main Street (formerly 216 Main Street)**

This address was occupied by a saloon (1883) and various stores (1888 to 1900) until the present-day structure, named the North Memphis Savings Bank Building at 116 North Main Street, was constructed in the early 1900s. North Memphis Savings Bank, UP Bank, Stanley Trezevant, and E.H. Crump were major tenants of the multi-story structure through the mid-1960s, when UP moved to the 100 North Main Building. The 116 North Main Street address has not been used (listed in city directories) since that time.

Mr. Trezevant and Mr. Crump owned or were involved in various real estate, mortgages, underwriting, and insurance business ventures. Mr. Crump sold this property to the City of Memphis in May 1974, by which time the building was referred to as the Crump Building with a deeded address of 110 Adams Avenue (see below).

The most recent occupants of this building, the Downtown Memphis Commission (DMC) — formerly the Center City Commission — and Chamber of Commerce offices have used 114 North Main Street since 2003. The DMC, an independent development agency, is the official partnership between local government and the private business community in downtown Memphis.

##### **108 Adams Avenue (formerly 32 Adams Avenue)**

Historical sources indicate this building was occupied by a saloon and boarding house (1883 to 1888), a cigar factory (1897), and Chase Lighting Co. store (1903 to 1907). City directories did not list the 108 Adams Avenue address after 1921, and Sanborn maps show the building as offices connected to the Crump Building.

##### **110 Adams Avenue (formerly 32½ Adams Avenue)**

Historical sources indicate this building was occupied by a Chinese laundry (1883 to 1897), a cigar factory (1897), stores (1907), a dance studio and offices (1921 to 1926), and a barber (1938 to 1943). E.H. Crump occupied this location (associated with the Crump Building) from the 1940s to the mid-1970s, after which it was occupied by government agencies. The 110 Adams Avenue address was not listed in city directories after the early 1990s.



##### **112 Adams Avenue (formerly 34 Adams Avenue)**

Historical sources indicate this location was occupied by a saloon and various stores (1883 to 1897). A business called "New Chicago Steam Dye and Chemical Cleaning Works" was listed at 34 Adams Avenue from 1900 to 1902. The 112 Adams Avenue address is listed with individual names (type of business not indicated) in 1921 and 1926, as the Roma Lunch Room (1932), White Printing & Publishing Co. (1938), and Otto's Barber & Beauty Supplies (1943). From the mid-1940s to mid-1960s, this address is associated with E.H. Crump's business offices at 110 Adams Avenue.

##### **114 Adams Avenue (formerly 36 Adams Avenue)**

Historical sources indicate this building was occupied by a physician's office (1883 to 1888), vacant (1895 to 1897), Hop Lee Chinese laundry (1899 to 1907), R.L. Polk & Co. (1912), with individual names between 1890 to 1926, a Justice of the Peace (1932), a restaurant (1938 to 1943), and city and county offices (early 1960s to 1987). The 1897 Sanborn map shows the 36 Adams Avenue location as a "printer" or "painter" (the labeling is illegible), which is inconsistent with corresponding city directories.

##### **North November 6<sup>th</sup> Street**

Historical resources did not identify occupants of or addresses associated with this street, which ends at Adams Avenue between the Fire Museum and Crump Building.

##### **116 to 118 Adams Avenue (formerly 38 to 40 Adams Avenue)**

Features that historically adjoined the subject property, based on review of Sanborn maps, include a 900-blue-barrel (bbl) cistern within the Adams Avenue and North Main Street intersection and a 1,200-bbl cistern within North Second Street, southeast of the subject property; both cisterns were shown in the 1888 Sanborn map and neither was shown in 1897. In addition, a triple fire hydrant and fire alarm box for a "High Pressure Fire Service" associated with the north-adjointing Memphis Fire Department were within the intersection of Adams Avenue and North Second Street.

This location was first occupied by the Fire and Police Department Headquarters and the City Prison for Women and Boys/City Workhouse (1888 to 1907). In 1910, the Memphis Fire Station No. 1 was built east of its original location, adjacent to the Central Police Station. Various names have been associated with this location (116 to 118 Adams Avenue) including Memphis Fire Department Pumper 1, Water Tower 1, and Truck 2 (1921), Memphis Fire Department Hook and Ladder 2 (1926 to 1948), Fire Department Engine Co. No. 1 and Truck No. 2 (1953 to 1963), and Engine House No. 1 (1968). Sanborn maps show a gasoline tank between the south (front) side of the fire department engine house



in 1950 and 1952. The tank is not shown in 1965 or 1969 Sanborn maps. The 116 Adams Avenue address is not listed in city directories after 1963. The Traffic Violations Bureau is listed at 118 Adams Avenue from 1978 to 1982.

The Fire Station #1 at 118 Adams Avenue is listed on the UST and HIST UST databases for a 500-gallon gasoline UST located approximately 55 feet north of Adams Avenue. The City of Memphis Property Maintenance Bureau registered the tank for removal in December 1990. Confirmation soil samples collected from the tank's excavation were below DUST action levels but the fill material was turned and aerated for 1 year, at which time the TPH concentrations were below action levels and the site was issued a Final Approval of UST Closure letter on May 16, 1991.

The station was renovated and currently houses the Fire Museum, which contains numerous exhibits on fire safety and history of firefighting in Memphis. The Fire Museum of Memphis dedicated the education center at 118 Adams Avenue as the Robert G. Snowden Fire Safety Education Center in 2008.

#### **120 to 126 Adams Avenue (formerly 42 to 44 Adams Avenue)**

Historical sources indicate this area was occupied by the Police Department livery and stables (1883 to 1888) then used by the police department as a storage yard (1897) and a stone yard (1907) at which offenders worked making small rocks out of big rocks. This area was included in the 1910 and 1911 construction of the Fire Department and Police Department structures.

#### **128 to 130 Adams Avenue (formerly 46 to 48 Adams Avenue)**

Historical sources indicate the 46 Adams Avenue address was occupied by O. Lilly Carriages (1883) and Police Station and Court Recorders (1888 to 1893). The Memphis Fire Department operated at 48 Adams from 1888 to 1910. City directories list several names assigned to the various divisions at these addresses — also referred to as “nw corner w 2<sup>nd</sup>” — including Danbury Steamer No. 1/Pioneer Hook & Truck No. 1 (1883), Engine House No. 1/Hook & Ladder Truck (1888), Memphis Fire & Relief Association/Salvage Corps. No. 1 (1903), and Engine Co. No. 1/Water Tower Co. 1 (1907 to 1910).

In 1912, the newly constructed building was occupied by Police Headquarters, Central Police Station, city prison, police court, city court, and Fire and Police Commission offices. The address is listed as vacant in 1987 to 1992 city directories, and was not listed in post-1992 city directories.



The City of Memphis Former Police Headquarters Building, 40 feet north of the subject property at 128 Adams Avenue, is a Resource Conservation and Recovery Act small-quantity generator (SQG) of hazardous waste. U.S. EPA Envirofacts lists the facility ID (TNR0000017566) as active under North American Industrial Classification System (NAICS) Code 56291 (Remediation Services). TDEC files indicate this facility generated hazardous waste containing lead and dimethyl sulfate. Based on the NAICS code and types generated, the waste may have been associated with clandestine laboratory seizures or investigations; TDEC Memphis EFO had no files for this facility.

#### **4.1.3 Northeast**

The Shelby County Courthouse is northeast of the subject property at 140 Adams Avenue and occupies the entire city block bordered by North Second Street on the west, Washington Street to the north, North Third Street on the east, and Adams Avenue on the south. Prior to construction of the courthouse between 1906 and 1909, the southwest quadrant (at the Adams Avenue and North Second Street intersection) of the courthouse city block that adjoins the subject property was occupied by First Baptist Church (210 Second Street), T.A. Fisher Marble Yard and Marble Shop (56 Adams Avenue), and three-story boarding houses with store fronts occupied by carpenter and painters (58, 60, and 62 Adams Avenue) from 1883 to the early 1900s. The 1907 Sanborn map labeled the city block with “Court House to Be Built Here” and showed no structures.

#### **4.1.4 Southeast**

The southeast-adjointing properties front North Second Street south from Adams Avenue and are owned or operated by Calvary Episcopal Church, at 102 North Second Street. The church building southeast of the Adams Avenue and North Second Street intersection has been at this location since 1884, and is the oldest Memphis building in continuous use. The building was partially renovated in 1881 and a stucco veneer removed from the outer walls to expose the original clay bricks in 1961. Calvary Episcopal Church (at North Third Street and Jefferson) formerly generated hazardous waste. U.S. EPA Envirofacts lists the facility ID (TNR000006734) as inactive, and information indicating hazardous waste streams generated was not provided.

Historical addresses associated with the remaining adjoining parcels are 86 to 100 North Second Street (formerly 222 to 236 Second Street). From north to south, former occupants or uses for these addresses are summarized below.

#### **102 North Second Street (formerly 222 Second Street)**

The earliest historical source reviewed, an 1883 city directory, lists this address as vacant. Dr. Ziermann occupied this location, used for Turkish Baths, from 1884 to 1892. Subsequent occupants of this address appeared to be residential until 1903, after which parking for the Calvary Episcopal Church Memorial Hall and Parish House has occupied this location.





#### **102 North Second Street (formerly 224 Second Street)**

City directories list various laundry facilities at this address beginning with Snow Flake Laundry (1883), Memphis Steam & Laundry and Shirt Factory (1887), and Memphis Printing Company (1897). Since 1903, this location has been part of the Calvary Episcopal Church Memorial Hall and Parish House.

#### **94 to 98 North Second Street (formerly 226 to 228 Second Street)**

The F&M Livermore Co. Iron and Ry Supply Co. and the Jewish Spectator are listed at these addresses in 1887; the 1888 Sanborn map shows a three-story structure with iron warehousing on the first floor and residents on the second and third floors. The Manogue-Pidgeon Iron Co. operated at this location between 1892 and 1907, storing “heavy hardware” in the building. In 1908, the property became operated by Pidgeon Thomas Iron Co., which occupied 94, 96, and 98 North Second Street until the mid-1930s. Subsequent occupants include International Distributors of general merchandise (1932 to 1943) and Memphis Goodwill Industries (1948 to 1973). Since the mid-1970s, this property has been part of the Calvary Episcopal Church; various organizations listed include Calvary Church Day Nursery, Free Kindergarten, and Mothers Circle of Calvary Episcopal Church.

#### **86 to 92 North Second Street (formerly 230 to 234 Second Street)**

The earliest historical sources reviewed identified J. Walsh wood and coal yard with offices and a scale at this location from 1883 to 1888, Memphis Steam Laundry from 1890 to 1926, and Memphis Printing Co. from 1892 to 1926. EDR lists Memphis Steam Laundry at 79, 80, and 86 North Second Street on its Historical Cleaners database. The 1907 Sanborn map shows Rosier & Hiens Memphis Steam Laundry occupying 86 to 92 North Second Street with what appear to be engines, boilers, and/or tanks in the east (rear) side.

Circa 1930, these buildings were vacated and razed and the property operated as a paid parking lot by Julian Allenberg (1938 to 1943), Higgs and Gala Auto Park (1948), Allenberg Parking Station (1973), and Allright Parking Station (1978 to 1982). Two underground gasoline tanks are shown in the northwest corner of this property (within 100 feet of the subject property) on 1950 to 1969 Sanborn maps; neither these address nor the business names is listed on EDR’s Historical Auto Station database or on registered UST or HIST UST databases.

#### **4.1.5 South**

The west half of the subject property is bordered on the south beyond an alley by a parking lot associated with a series of storefronts, the nearest of which is 90 North Main Street (formerly 230 Main Street), and the east half by an open parking lot beyond the alley at North Second Street and Jefferson Avenue.



#### **90 to 92 North Main Street (formerly 230 Main Street)**

Two building spaces occupied, and used interchangeably, 90 and 92 North Main Street until the north portion (92 North Main Street) was razed and used for parking in the 1980s. The buildings have been occupied by Memphis Paint & Glass Co. and Dollison Wallpaper Co. (1913), Tri-State Paint Co. (1920 to 1926), Scott-Kelley Furniture Co. (1943 to 1948), Sterling Furniture Co. (1953), House of Chrome discount furniture (1963), Handi-Photo (1978 to 1982), and First Tennessee Bank ATM (1987).

#### **91 North Second Street (formerly 229 Second Street)**

This parcel has been a coin-operated/self-pay parking lot operated by All-Rite Systems since 1978, and owned by Jefferson Partners. The property was vacant in 1883. Historical occupants have included Besthoff & Co. saw works (finishing and repairing) on the ground floor and female boarding on the upper floors (1888), J.P. Carey & Co. (1893 and 1898), The Livermore Foundry and Machining Co. (1898), Livermore Iron & Supply Store (1904 to 1908), J.E. Roof Paint Manufacturing Co. and La Veau Roofing Company (1908), Tri-State Paint Co. (1926), vacant (1932), Justice of the Peace and Constable office (1938), Scott-Kelly Furniture Co. (1943), Ellis Marvin Co. office supplies (1948), and Army Surplus Outlet store (1953 to 1973).

The buildings that occupied the remainder of the Jefferson Block (extending west to North November 6<sup>th</sup> Street and south to Jefferson Avenue) had addresses between 79 and 87 North Second Street (formerly 231 to 239 Second Street) and 118 to 130 Adams Avenue (formerly 38 and 40 Adams Avenue). Occupants with businesses expected to have involved hazardous substances or petroleum products include a tin shop (1888 at 231 Second Street), furniture stores (1888 to 1930s), paint company 1932 at 83 North Second Street), blue print and supply company (1963 to 1968 at 83 North Second Street), and Memphis Steam Laundry (1932 to 1953 at 77 to 79 North Second Street).

#### **4.1.6 West**

The west- adjoining property, at the northwest corner of Adams Avenue and North Main Street, is the current location of Claridge House Condominiums (109 North Main Street). The earliest use identified from review of city directories and Sanborn maps was as a hotel with storefronts (individual names not indicative of the business type) between 13 and 23 Adams Avenue and 215 to 227 North Main Street. Hotel names listed in city directories were Duffy’s European Hotel (1888 to 1894) and Arlington Hotel (1895 to 1920s); Sanborn maps dated 1907 list the types of stores as restaurants, dining, bake shop, wholesale liquor, saloon, and offices. The Arlington Hotel was demolished in the 1920s.



The Claridge Hotel was constructed new in 1924 as Memphis' tallest hotel and operated as an upscale entertainment for locals and luxurious hotel for almost 40 years. Individual businesses that operated at the hotel through circa 1970 include barbers, beauty shops, cab companies, restaurants, pubs, coffee shops, liquor store, meeting rooms, print shop, and organizational clubs. Sanborn maps show elevators, coal bins, and boiler/engine rooms. Consistent with the surrounding area, urban decline affected this hotel, which closed in December 1968.

The address is listed as vacant from 1973 to 1983. After being vacant for almost 15 years, it was extensively renovated and reopened as Claridge House Apartments in 1984. The 1987 to 1997 city directories list the Claridge House apartments and City of Memphis credit union. The address was not listed in 2003. The building was again renovated as Claridge House Condominiums in 2004. The Claridge House Apartment/Condominiums is listed in 2006 and is the current occupant. This building is on the NRHP. None of the associated or supporting businesses that have operated within the hotel and apartment buildings is expected to have involved the use or bulk storage of hazardous substances or petroleum products.

#### 4.1.7 Southwest

In the early to late 1880s and late 1890s, this quarter block was occupied by the Clay Building and Equitable Building, respectively, with 229 to 239 Main Street and 14 to 18 Jefferson Avenue addresses. These buildings were occupied by various stores (music house, furniture store, watchmaker, shirt maker) and offices including early Commercial Appeal and Avalanche Appeal offices. In 1905, Nathan and Louis Bry opened Bry's Department Store, which competed with other major Memphis department stores such as Goldsmith's and Lowenstein's.

Bry's Department Store encompassed this quarter block (aka BryBlock or Bry's Block) at 89 North Main Street, with individual storefronts from 77 to 91 North Main Street and 76 to 78 Jefferson Avenue until 1956, when the store was sold to Lowenstein's. The store closed in 1964. In 1966 and 1967, a 248-unit tower apartment — Tower Apartments at 99 North Main Street — was constructed above the third floor.

#### 4.1.8 Northwest

The open landscaped and decoratively paved Civic Center Plaza of Memphis City Hall, at 125 North Main Street, is northwest of the subject property, beyond the Adams Avenue and North Main Street intersection. Memphis City Hall is listed on the UST database with a 15,000-gallon dual-purpose tank (heating oil and backup generator fuel) installed on February 26, 1966. There is one file at TDEC Memphis EFO that contains a March 19, 1999, survey documenting compliance with 1998 upgrade requirements.



The city hall building and plaza were constructed in 1963. Prior to that, the quarter block that adjoins the subject property was occupied by stores and parking garages fronting Adams Street and North Main Street at addresses listed below. Most of the buildings and parking structures had been vacated and razed in late 1950s.

#### 129 North Main Street (formerly 205 Main Street)

This building was a saloon in 1883. In the late 1880s, this four-story building was occupied by Dean & Lilly Coffee & Spice storefront that had a roaster and spice mill in the rear portion, unloaded from a conveyor in an alley north of that structure; additional occupants on upper floors were Memphis Abstract Co., Mozart Hall, and YMCA Rooms. By 1912, the storefront address was used by the Star Theatre. City directories list various individual names for business offices on upper floors from 1903 to 1921. Subsequent retail businesses at this location included Ferguson Furniture House (1926), and Ira A. Watson Corp. dry goods (1932). By the late 1940s, a store (J.C. McMahan Co. curtain manufacturers) operated at the combined front half of 123, 125, and 129 Main Street addresses, behind (west of which) was a 44-car parking garage completed circa 1951.

#### 125 North Main Street (formerly 207 Main Street)

From 1888 to 1892, this building was occupied by the YMCA and Knights of Pythias (K of P) Hall on the second and fourth floors, respectively, of this four-story building. The Vienna Café, a bakery with a large oven central to the store, was on the street level in 1892 and 1897, above which were halls on each floor. By 1907, the building stocked hardware in the upper levels; no indication of the ground level occupant was identified but Sanborn maps labeled the oven as "Old" and "Not Used." Frank Ozanne was listed at this address (varying between 125 and 129 North Main Street) from 1903 to 1912. Subsequent retail occupants listed at this address were Scott-Kelly Furniture Co. (1917 and 1921), McConnell Furniture Co. (1926), Hughes Department Store (1932), and Army Store (1948).

#### 123 North Main Street (formerly 209 Main Street)

A confectionery is listed at this address in 1883. The K of P Hall/Hall 39 occupied this four-story building in the late 1880s to early 1890s. A gunsmith is shown at the store front level in 1897 and 1907, and a printing shop (with electric motor noted) on the second floor in 1907. From the late 1880s to 1903, Woodruff & Oliver, agents, and Mme A. Godart were listed in upper floors.

JG Schmidt & Son (1907 to 1917), John Ray Suspender Co. (1907 and 1912), and Crescent Printing Co. (1907) were listed on the third floor of this building in city directories. In 1921, Jacob Levy & Bro. and Memphis Typewriter Co. were listed on the second floor. Subsequent retail occupants listed at this address were McConnell Furniture Co. (1926), Hughes Department Store (1932), Army Store (1948), and Army & Navy Store general merchandise (1958).



#### **121 North Main Street (formerly 211 Main Street)**

Memphis Bird, Brush & Novelty Store operated at this three-story building in the early 1880s to 1990s. Additional occupants of upper floors named in city directories included Memphis Wire & Iron Works (1903), C.J. Scherer & Son and Imperial Theatre (1912), and New York Salvage Co. (1917). Military Army Store (general merchandise) was listed in 1932 followed by Sewing Machine Exchange in 1948.

#### **119 North Main Street (formerly 213 Main Street)**

Dammann & Murphy wholesale liquor store occupied the storefront of this this four-story building from the early 1880s to 1907. Various doctors' names were listed on upper floors at this address in the early 1900s to early 1920s. The address was occupied by The Eggers Co. in 1917, Military Army Store in 1926 and, after being vacant from the early 1930s to 1940s, by and Sibyl Hats in the late 1940s to early 1950s.

#### **115 North Main Street (formerly 215 Main Street)**

This building had a drug store (A. Renkert & Co.) on the street level, above which were various doctors' offices, from 1883 to 1938. From the mid-1940s to mid-1950s, the front portion of the building (fronting North Main Street) was a restaurant (The Chef) and the rear portion a store (84 Adams Avenue).

#### **78 Adams Avenue (formerly 14 Adams Avenue)**

Flynn & Clark saloon and restaurant operated at this location in 1883 to 1888. By 1897, Swiss House, a boarding house with furnished rooms, operated at this location. Business occupants listed on upper floors between the mid-1900s to early 1930s included Arnold & Co., Pure Bros., Memphis Barber College, and Louis Burchart real estate. Longhill Fish Company and Longhill Fisheries (wholesale fish) operated the storefront at this location from the late 1930s to early 1950s, with Shamrock Grill restaurant also listed in 1948.

#### **80 Adams Avenue (formerly 16 Adams Avenue)**

This three-story building had a barber shop storefront in 1883, with the German Gazette and Otto Richter listed in the late 1880s to late 1890s. Several businesses/occupants were on various floors at this location between the early 1900s and 1940s according to city directories, including Macon Credit Co. (1907 and 1912), O'Donnell-McCormick Company (1921 and 1922), Jos. Spiro (1926), Howards Cleaners (1932), and Four Aces Liquor Mart (1942 to 1950). EDR lists Howard Cleaners on its Historical Cleaners database.



#### **82 Adams Avenue (formerly 18 Adams Avenue)**

This three-story building had a saloon and restaurant storefront in 1883, with the German Gazette and Otto Richter listed in the late 1880s to late 1890s. Various company names — Single & Bright, and O'Donnell-McCormick Company — were listed at this address from 1907 to the 1930s; the address was listed as vacant in 1932. The Bartenders' Union Hall was listed at this address in 1909. Between 80 and 82 Adams Avenue was an auto parking lot — Day & Night Auto Park, Adams Garage, and Parkrite Systems Inc. — from 1938 to 1958.

### **4.2 Surrounding Area Properties**

The subject property is in a burgeoning retail and commercial district in downtown Memphis that includes Shelby County Courthouse and Memphis City Hall, supported by high-rise and low-rise offices, restaurants, bakeries, apartment buildings, parking lots and garages, and an electric trolley. The following presents information obtained from database searches, regulatory research, and document review for surrounding area properties identified on environmental databases within the ASTM approximate minimum search distance for the database on which they are listed, or with records related to releases, investigations, and/or remediation activities. The discussion also includes publicly available information obtained from EnSafe in-house regulatory research information (obtained from TDEC file reviews conducted as part of former Phase I ESAs on properties in the surrounding area).

#### **4.2.1 LUST Sites**

EDR mapped 10 sites with reported releases from USTs within one-half-mile of the subject property. One of those, Mud Island, was incorrectly mapped at 125 North Front Street, which is the address of the tank/property owner, not the physical location of the tanks. This site was not researched further because the tank location (280 Mud Island Road) is over 2 miles north-northwest of the subject property.

#### **Morgan Keegan Tower — 50 North Front Street — Facility ID 9-791873**

The Morgan Keegan Tower, approximately 310 feet west-southwest of the subject property, is on the UST, HIST UST, and LUST databases with one 550-gallon diesel fuel UST installed in July 1985 and closed-in-place in March 1999. Confirmation soil sampling collected during UST closure did not indicate contamination above applicable cleanup levels and TDEC issued a Final Approval of UST Closure letter on a June 3, 1999.



**One Memphis Place Venture — 200 Jefferson Avenue — Facility ID 9-792521**

One Memphis Place, approximately 430 feet southeast of the subject property, is on the UST, HIST UST, and LUST databases with one unregistered 500-gallon diesel fuel UST installed in December 1985 and taken out of use in December 1998. EnSafe reviewed TDEC DUST's archived file, which indicates a release occurred in 1993 and contamination was defined and the site placed in closure monitoring in September 1994. Groundwater monitoring events for nine wells in 1995 and 1996 detected TPH above the 1-part per billion (ppb) action level applicable at that time. Based on the results of semi-annual groundwater monitoring events and stability of the plume, site-specific standards of 10 ppm TPH in groundwater and 690 ppm TPH in soil were approved by TDEC on September 28, 1994. Correspondence submitted to TDEC sated the site "does not appear to be associated with the onsite UST but was from a storm sewer located adjacent to Jefferson Avenue" from "two gasoline and diesel pumps" across Jefferson Avenue; the onsite diesel fuel tank had passed a tank tightness test in 1993. Quarterly closure monitoring was conducted in 1996 and 1997, monitoring wells were abandoned and a monitoring well abandonment report submitted in February 1997, and TDEC issued case closure on March 13, 1997. Groundwater, encountered at approximately 16 feet bgs at this site, flowed southeast (away from the subject property) during the investigation activities.

The last compliance inspection conducted on September 9, 1998, while the UST was still in use, found no violations. The owner submitted a Permanent Closure Report on February 1, 1999, for tank removal, which was approved by TDEC DUST on June 25, 1999.

**Humphreys Investment Co. — 22 North Third Street — Facility ID 9-790411**

This facility, approximately 750 feet south-southeast of the subject property, on the UST, HIST UST, and LUST databases with one 550-gallon used oil UST installed in January 1963 and two 4,000-gallon USTs with unreported contents installed in May 1963. The site is listed on the LUST database for a release discovered during tank removal on March 15, 1994, for which TDEC issued a Contamination Case Closed letter on January 29, 2001.

**Wells Fargo Armored Service Corp. (Loomis, Fargo & Co.) — 277 Monroe Avenue — Facility ID 9-790838**

This facility, just under one-half mile southeast of the subject property, on the LUST and LUST TRUST databases, registered one 10,000-gallon gasoline UST and one 12,000-gallon diesel fuel UST as installed April 8, 1976. On August 26, 1997, the USTs were removed along with 130 tons of contaminated soil for offsite disposal. In addition, 618 gallons of water in the tank excavations was pumped, treated, and disposed. During removal, two smaller, older USTs were discovered but left in place because Loomis, Fargo & Co. did not claim responsibility for them. The property was then purchased by the Memphis Center City Development Corporation (MCCDC) for construction of AutoZone Park (baseball field).



The MCCDC removed the older USTs in January 1998; soil surrounding the tank was reportedly clean. MCCDC then sold the property to another company for development of an apartment complex that overlooks AutoZone Park. As part of the real estate transaction, a Phase II ESA was conducted that identified petroleum contamination (Extractable Petroleum Hydrocarbons [EPH], TPH, and benzene) in groundwater. On August 15, 2000, TDEC authorized semi-annual monitoring only for the groundwater contamination. During construction of the apartment complex, the wells installed during the Phase II ESA were destroyed. One well was reinstalled (where there was no building foundation) and monitored, which consistently detected TPH and benzene. Groundwater was reported to flow to the west, away from the subject property.

**Radisson Hotel — 185 Union Avenue — Facility ID 9-792503**

The Radisson Hotel, one-third mile south of the subject property, is on the LUST database with a 1,000-gallon diesel fuel UST installed March 8, 1986. The Radisson Hotel's consultants submitted a removal application, which was approved by TDEC DUST. During removal activities, TDEC was notified via amended application that in-place closure was necessary because removal was not feasible due to proximity to onsite structures and utilities. The tank was cut open, the contents (approximately 60 gallons of sludge) were removed for offsite disposal, and soil samples were collected from around the tank pit. No water or visual evidence of contamination was encountered and all soil samples were below laboratory detection limits. TDEC issued a No Further Action letter on June 19, 1997.

**Greyhound Terminal — 203 Union Avenue — Facility ID 9-790376**

The Greyhound Terminal, approximately one-third mile south of the subject property, on the LUST and LUST Trust Fund (TRUST) databases from a diesel fuel system release in November 1989. The tanks were installed in 1967 and replaced with one 12,000-gallon diesel fuel tank in 1990. This facility has undergone several investigations, corrective action, and monitoring between 1989 and 2008, including a free-product recovery system to control migration of groundwater south to Union Avenue (away from the subject property), numerous mobile-enhanced multi-phase events and hand-bailing removals of free product/phase-separated hydrocarbons (PSH), comprehensive groundwater sampling events, direct-push technology soil investigation and numerous new monitoring well installation, and installation of a dual-phase extraction system. As of 2008 (July 11, 2008, Site Status Monitoring Report), the contamination (groundwater plume and PSH) was confined to the Greyhound property. TDEC files include a Final Approval of Contaminated Closure on July 25, 2012.



#### **Downtown Texaco — 119 North Danny Thomas Boulevard — Facility ID 9-791320**

This facility, over one-third mile east of the subject property, is on the LUST database with one 10,000-gallon gasoline UST, two 8,000-gallon gasoline USTs, and one 1,000-gallon waste oil UST installed June 16, 1985, and removed June 5, 1997. Monitoring wells were installed and abandoned as required by TDEC, which issued a case closure letter on April 23, 1998.

#### **Exxon R/S #5-7142 — 186 North Danny Thomas Boulevard — Facility ID 9-791283**

Exxon is listed on the LUST database from a release identified from former tanks installed in 1977 and removed in March 1989. On July 22, 1993, TDEC issued a case closure letter for the release. This active gas station (The Hop In # 317), over one-third mile east of the subject property, has two 12,000-gallon gasoline tanks installed in 1989 and one 12,000-gallon gasoline UST installed in 1993. TDEC files have a letter from July 25, 2012, with no violations at this facility from the three USTs.

#### **Fire APP Maintenance Shop — 354 Adams Avenue — Facility ID 9-791110**

This facility, over one-third mile east of the subject property, is on the UST and LUST databases with one 560-gallon used oil tank installed in 1956, two 1,000-gallon fuel USTs installed in 1960 and 1971, and one 2,000-gallon varsol tank, the installation date of which is not indicated. The three larger USTs were removed on August 22, 1991, and the used oil tank was removed December 16, 1991. Soil samples collected during UST closure did not indicate contamination above applicable cleanup levels and TDEC issued a February 13, 1995, Final Approval of UST Closure letter based on a review of the analytical results.

#### **4.2.2 LUST TRUST**

Three sites were listed on the LUST TRUST database, which contains information on sites that had accidental releases of petroleum eligible for reimbursement from the Tennessee Petroleum UST fund. The Greyhound Terminal and Wells Fargo Armored Service Corp. sites were discussed in Section 4.2.1. The remaining site listed on the database — Elliott Whittington Building Materials (Facility ID 9-790294) at 2964 South Third Street — was mapped incorrectly and is over 5 miles south of the subject property.

#### **4.2.3 State Coalition for Remediation of Drycleaners**

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998 and is comprised of representatives of states with established drycleaner remediation programs including Tennessee's Drycleaner Environmental Response Program. The Memphis City Schools site, just over one-quarter mile southeast of the subject property at 285 Court Avenue, is listed on the SCRCD database.



The Memphis City Schools site consists of several tracts of land that were redeveloped to accommodate a new school. From the early 1900s to early 1970s, Loeb Laundry occupied the property; drycleaning services were added to the three-story plant circa 1937. As of the 1990s, the buildings associated with Loeb Laundry were removed and an asphalt parking lot was constructed. The property was eventually sold to the City of Memphis.

Soil, groundwater, and free product samples collected at the site indicated the presence of Stoddard Solvent, TPH, and tetrachloroethene (PCE) and other volatile organic compounds (VOCs) in laterally localized "hot spots" within the then-proposed footprint of the school building. Soil remediation goals were 500 ppm TPH, 6 ppm PCE, and 60 ppm trichloroethene (TCE). Soil removal (chosen as an expedited means of removing source contamination) was planned with two 16-foot-deep by 225-square-foot excavations within the chlorinated solvent source area and a 14-foot-deep by 1,435-square-foot excavation within the TPH/free product contaminated areas. The excavations were terminated when confirmation samples collected from the walls and floor of the excavations indicated contaminant concentrations were below the established regulatory levels. The maximum PCE and TCE concentrations detected within the exposed soil surface post-excavation were 7.2 and 13.70 ppm, respectively.

A groundwater recovery system comprised of a trench network and recovery well (RW)/pump-and-treat operation unit was installed from 2001 and 2003 (before and after school construction, respectively) to extract residual contaminants from groundwater. Five wells, including the RW, were included in the groundwater recovery monitoring. Prior to the groundwater remediation system startup in June 2003, groundwater contained up to 1,210 ppb PCE, up to 345 ppb TCE, up to 537 ppb cis-1,2-dichloroethene, and up to 437 ppb vinyl chloride. After system startup, vinyl chloride concentrations dropped to 1.88 ppb, and PCE and TCE declined overall (266 ppb and 166 ppb, respectively), with some fluctuation occurring. The system pumps 30 to 50 gallons per minute and has discharged 300,000 gallons of effluent per month to the sanitary sewer.

Following soil remediation and development of the school, passive gas samplers and summa canisters were utilized as part of an air/soil gas monitoring program to determine if hot spots remained, if contaminants entered the new school via vapor intrusion, and if the vapor concentrations detected were a health hazard to the students. Vapor monitoring study indicated no apparent health risk.

Two remedial events of in-situ injections of zero-valent iron and various hydrogen donors and nutrients were conducted in 2007 and 2009 using the RW and a monitoring well (MW-23) in the source area. Four groundwater monitoring events followed the 2007 injection event and two groundwater monitoring



events followed the 2009 injection event. During the four monitoring events in 2008 and 2009, chlorinated VOC concentrations were below the 1-ppb laboratory detection limit and U.S. EPA Maximum Contaminant Levels and Region 9 Preliminary Remediation Goals (applicable at that time). Chlorinated VOC monitoring in the RW and monitoring wells to evaluate the efficacy of the remedial program is ongoing.

#### 4.2.4 Local Brownfields Sites

EDR identified two facilities on the US Brownfield list. One, Firestone Tire and Rubber, is mapped at 138 Poplar Avenue, which is the property owner's (City of Memphis government) address, not the actual location of the Brownfields site. The Firestone Tire and Rubber facility is approximately 1.25 miles northeast of the subject property, which is outside the ASTM minimum search distance for Brownfields sites, and was not researched further.

The second site, 26 South Main Street, is less than one-quarter mile south of the subject property. EnSafe conducted Phase I and II ESAs of the property in 2012 as part of a community-wide Wolf River Brownfields grant issued to Shelby County by the U.S. EPA. The information presented below was excerpted from Phase I and II ESA report, which are publicly available. The Phase II ESA activities, discussed below, were conducted to address *recognized environmental conditions* and *business environmental risks* identified during the Phase I ESA.

- Naphthalene was detected in sub-slab soil gas at concentrations that exceeded residential adjusted ambient air regional screening levels. The naphthalene concentrations were within the site target lifetime cancer risk range of  $1 \times 10^{-4}$  to  $1 \times 10^{-6}$ . No further action was recommended regarding vapor intrusion.
- VOCs and EPH concentrations detected in soil samples collected beneath a petroleum-stained area in the basement were below screening levels protective of an excavation worker. No further action was recommended regarding soil sampling beneath the basement floor.
- Chrysotile in three different types of floor tile on the first floor was identified as part of a limited asbestos survey.
- Lead-based paint was identified on every floor of the building, and a Lead Management Program for occupancy, renovations, or demolition.



#### 4.2.5 EDR Proprietary Historical Cleaners Database

EDR identified 42 sites on its proprietary Historical Cleaners database within one-quarter mile of the subject property; of those, one (Georges Place Hatters at 106 North Main Street) was on the subject property (discussed in Section 3.1.1) and two Memphis Steam Laundry locations (Section 4.1.4) adjoined the subject property. Drycleaners are an environmental concern because of their use of chlorinated solvents (e.g., PCE) and/or petroleum products (e.g., Stoddard Solvent), and the potential for management and/or disposal of waste solvent in a manner that could cause releases to the environment.

#### 4.2.6 EDR Proprietary Historical Auto Stations Database

EDR identified 55 sites within one-quarter mile of the subject property on its Historical Auto Stations database; of those, none was on or adjoined the subject property. Repair operations are an environmental concern due to the potential for use and release of hazardous substances (e.g., solvents, degreasers, paint, and paint-related products) and petroleum products (e.g., oils, lubricants, fuel). Many of the gas stations listed on this database operated prior to environmental laws that regulated UST release prevention (tank construction, corrosion protection, overfill and leak detection, monitoring, etc.), and closure/removal (including soil and groundwater sampling and remediation).

#### 4.3 Orphan Sites

EDR listed 20 orphan site records; orphan sites are those that EDR could not map due to poor or inadequate address information. Based upon address information given, Internet mapping resources, and the site reconnaissance, none of the orphan sites are within the ASTM-recommended minimum search distances for the environmental databases on which they appear.





## 5.0 RESULTS OF THE ENVIRONMENTAL PROFESSIONAL INQUIRY

EnSafe performed a Phase I ESA of the 100 North Main Building in Memphis, Tennessee, in general conformance with the scope and limitations of the ASTM Practice E 1527-05. Any exceptions to, or deletions from, this practice are described throughout the report.

### 5.1 Summary of Findings and Conclusions

The subject property is at 100 North Main Street, part of a central downtown 12-block open mall area undergoing continual redevelopment of historical buildings into apartments, unique retail stores, offices, restaurant, and entertainment businesses to promote revitalization of the downtown area. North Main Street is accessible to pedestrians and a vintage trolley rail system. The Shelby County Assessor of Property Card describes the subject property as 1-acre tax parcel 002012 00001C improved with a 792,873-square-foot 38-story high-rise office building. At 430 feet tall, the 100 Main Street Building has the distinction of being the tallest building in Memphis, locally known as the UP Building because of former occupancy by UP Bank and large illuminated UP sign that was dismantled in 2005; other notable tenants include The Tennessee Club (within an indoor pool on the 36<sup>th</sup> floor) and a rotating circular glass restaurant that operated as Top of the 100 Club and the Pinnacle.

The 100 North Main Building footprint encompasses the entire subject property parcel, except for an approximately 1,850-square-foot tract (Tax Parcel 002012 00002) that provides pedestrian access to the main floor lobby of the 100 North Main Building from the west-adjointing North Main Street. The remainder of the subject property is bordered by Adams Avenue to the north, South Second Street to the east, and an unnamed alley to the south. Additional addresses used at the subject property include 95 North Second Street (vacant but most recently occupied by Freedom Bail Bonds) and 94 North Main Street (occupied by Sam's Hamburgers restaurant).

#### Historical Uses

The earliest useful historical sources, an 1883 city directory and 1888 Sanborn fire insurance map, show the subject property with two- to four-story row-type businesses with store fronts on Main Street, Adams Avenue, and Second Street. A fire that occurred in 1891 destroyed buildings in the northwest portion of the subject property. The Baltimore Building was constructed at this location and, between 1926 and 1958, multiple tenants of second and third floor rooms listed in city directories included collection and detective agencies, insurance and real estate agents, a secretary school, tailors and uniforms, sales companies, attorneys, court reporters, bookkeepers, advertising agencies, temporary employee staffing agencies, a newspaper, storage, and cosmetics. Additional historical occupants of the subject property include a yeast manufacturer, dental and



surgical equipment supply company, clothing retailer, furniture stores, plumber, and musical instrument warehousing, repairing, servicing, and sales. In general, city directory listings (e.g., McClintock's and A.J. Engle & Co.) for many of the occupants of the subject property prior to redevelopment in 1965 do not indicate specific type(s) of business activities conducted.

Prior occupants of the subject property with operations that may have involved the use of hazardous substances and petroleum products include: a photo studio (film developing with fixatives, acetic acid, and other developing solutions, wastewater generation, and silver generation/reclamation); a hat manufacturer (inorganic mercury compounds such as mercuric nitrate, to treat felt and small-animal fur and cleaning solvents; furniture and instrument manufacturing and repair (use of stains, paint, adhesives, and thinner/solvent); and printing and binding (use of oil-based inks, solvents, and adhesives).

The structures at the northeast corner (105 and 107 North Second Street) were razed between 1938 and 1940; structures in the southeast corner (93 and 95 North Second Street) were razed between 1953 and 1959 and used as an open parking lot. The 102 to 106 North Main Street addresses are listed as "Under Construction" in the 1963 city directory, which is consistent with a January 1964 aerial photograph that shows significant land disturbance and the reported 1965 construction completion date of the 100 North Main Building. The subject property has housed a variety of tenants since construction. Because of its proximity to the Shelby County courthouse, most of the tenants have been administrative offices occupied by attorneys, title companies, court recorders, insurance brokers, and local government agencies. UP Bank occupied the main (street) level of this building, and other financial-related businesses have been tenants; the original UP Bank safe was recently removed from the subject property. Additional occupants of note were The Pinnacle Restaurant (rotating restaurant atop the building), and The Tennessee Club (with indoor swimming pool and spa).

Two additional addresses associated with the present-day building are 95 North Second Street, most recently occupied by a bail bondsman, and 94 North Main Street, which was occupied by a liquor store (1968 to 1992) and has been a restaurant since 2003.

No drycleaners, vehicle repair, gasoline or service stations, or aboveground storage tanks were identified at the subject property from historical or regulatory research.



### Regulatory Research

The subject property address is listed on environmental databases for one 2,000-gallon diesel tank that fueled an emergency generator. MCI Telecommunications Corporation, a former tenant, installed the tank in 1986 and removed it upon lease termination in 1996. The UST was located in the southeast corner of the lower lobby level west of the generator room. The tank had been set in a concrete vault and concentrations of TPH DRO remaining in soil (at 20 to 30 ppm) were below screening levels applicable at that time, and TDEC issued Final Approval of Closure on March 5, 1997.

W.R. Grace and Company is listed as a former generator of hazardous waste at the subject property address. Historical research indicates the subject property was the regional office address for W.R. Grace and Company that was used, between 1968 and 1992, for hazardous waste generation correspondence, and that hazardous waste was not generated at this location.

### Surrounding Area

The subject property is in a portion of downtown Memphis that has been developed commercially, with documented uses since 1883 obtained from historical resources reviewed for this Phase I ESA. Adjoining properties have included retail stores (clothing, furniture, and jewelry), commercial (furniture sales, liquor, and laundry services), service- and entertainment-oriented (hotels, restaurants, and barber shops), local government (court house, police department, and fire department), and offices (insurance agents, banks, attorneys). In the 1960s, downtown Memphis underwent significant deterioration that resulted in abandoned streets and buildings, many of which were demolished and replaced by parking lots. Beginning in the mid-1980s, heavy renovation of notable buildings resulted in the revitalized downtown area currently occupied by residences (apartments and condominiums), offices (municipal and private), and retail businesses (restaurants, clothing stores).

Regulatory database research identified over 100 potential historical drycleaners and service stations within one-quarter mile of the subject property in addition to sites with documented hazardous waste generation, bulk underground fuel storage, and releases from UST systems. Regulatory agency file review did not indicate reported releases at surrounding area sites have migrated to the subject property. One adjoining property — 86 to 92 North Second Street — was home to a large steam laundry plant (with what appear to be engines, boilers, and tanks in a 1907 Sanborn map) replaced by a former auto park station (with two underground gasoline tanks shown within 100 feet southeast of the subject property on 1950 to 1969 Sanborn maps). That site's addresses are not on the state's list of sites with registered or leaking USTs, in a voluntary cleanup program, or on EDR's proprietary auto station database; Memphis Steam Laundry is on the proprietary historical cleaners database at this address.



### 5.2 Environmental Professional Opinion

This Phase I ESA has identified evidence of a *recognized environmental condition* in connection with the subject property.

Based on the proximity and historical uses of the southeast-adjointing property, the potential for releases from abandoned USTs to have migrated to the subject property is considered a *recognized environmental condition*. Potentially impacted media includes soil, soil vapor, and groundwater.

Based on the length of time the surrounding densely urban area has been commercially developed with uses involving hazardous substances and petroleum products prior to environmental regulations, the potential for regional soil and groundwater contamination poses a *business environmental risk* related to vapor intrusion during development activities (e.g., subsurface excavation) and uses (e.g., residential).

Although the reported concentrations of petroleum hydrocarbons remaining after UST removal are considered *de minimis*, the potential for vapor intrusion from this area is also a *business environmental risk* that should be considered as part of future redevelopment and occupancy plans.

EnSafe observed what appeared to be obsolete containers (including 55-gallon drums), unidentified substances, and open containers with free liquids — primarily in mechanical and equipment rooms and in the maintenance areas — at the subject property. The costs and potential liability associated with identifying, characterizing, and properly disposing of unidentified substances and cleaning up spills from open containers of hazardous substances and petroleum products pose a *business environmental risk*. Staining on floors, walls, and pavement in the parking garage, loading dock, elevator equipment, and mechanical rooms is considered *de minimis* based on the limited visual extent, the physical condition of the concrete, and lack of conduits (e.g., French drains, wells) to the subsurface in those areas.

### 5.3 Additional Investigation

The Phase I ESA did not give rise to unusual circumstances regarding identified environmental conditions, where greater certainty would be required and where additional Phase I ESA investigation would be required to detect the presence of hazardous substances or petroleum products.



#### 5.4 Data Failures/Data Gaps

According to ASTM E 1527-05, Section 8.3.2, all obvious uses of the property shall be identified from the present, back to the property's first developed use, or back to 1940, whichever is earlier. The earliest useful historical sources obtained for this Phase I ESA, an 1883 city directory and 1888 Sanborn map, showed the subject property commercially developed; therefore, a data failure has occurred. The data failure is considered a significant data gap that may have affected EnSafe's ability to identify *recognized environmental conditions*.

EnSafe did not receive a response to a request for information regarding records of fires or spills involving hazardous substances from the fire department, which is a data gap that may have limited EnSafe's ability to identify *recognized environmental conditions*.

Limitations and exceptions discussed in Section 5.5 are also considered significant data gaps encountered that may have affected EnSafe's ability to identify *recognized environmental conditions*.

#### 5.5 Limitations and Exceptions

EnSafe's Phase I ESA generally conforms to the ASTM Standard Practice for ESAs (ASTM E 1527-05). EnSafe did not sample soil, groundwater, or surface water as part of the Phase I ESA. Assessment of these items is based upon visual observations and sources as referenced throughout the report. This report should not be construed as verifying the present property owner or operator's compliance with federal, state, and local regulations or as a recommendation to purchase, sell, or develop the subject property.

The quality and scale of aerial photographs obtained for this Phase I ESA limited the ability to make observations related to onsite development and/or activities.

Historical USGS topographic maps reviewed for this ESA show the subject property in red, which indicates urban development. In those areas, the USGS typically showed only buildings/properties with public, commercial, or municipal interests such as parks, schools, fire stations, and churches, which limited the topographic maps' usefulness as a historical source.

Earlier (1880s to 1940s) historical resources (particularly Sanborn maps and city directories) that indicated a property or building was occupied by a store (designated by an "S") but did not identify the type of business, or the names were an individual or not otherwise indicative of the type of operations and uses conducted. Although those resources documented occupancy, development, and improvement, they were of limited usefulness with respect to determining historical uses.



The following are specific limitations and exceptions associated with this Phase I ESA.

- The quantity of material in storage areas and poor lighting throughout the building limited observations.
- The incompleteness of regulatory files available at the TDEC Memphis EFO.
- The inability to interview former owners and occupants.

#### 5.6 Significant Assumptions

This report is a prudent, reasonable evaluation of the subject property's observed environmental condition. EnSafe assumes no responsibility for conditions or information not practically reviewable, or information that was not accurately disseminated by any party.

#### 5.7 User Reliance

The assessment was prepared under contract for the exclusive use of One Hundred North Main LLC. Any other party's reliance on this report is at risk unless EnSafe grants authorization. In accordance with the ASTM Standard Practice E 1527-05, this Phase I ESA is presumed to be valid for 180 days from the date of completion. A Phase I ESA that meets or exceeds this practice and was completed more than 180 days previously may be used to the extent allowed in Sections 4.7 and 4.8 of the ASTM Standard Practice E 1527-05.



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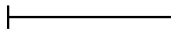
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INQUIRY #: 4211947.9

YEAR: 1937

 = 500'



### 1937 Aerial Photograph

100 North Main  
100 North Main Street  
Memphis, TN 38103



N

Source: EDR







INQUIRY #: 4211947.9

YEAR: 1958

— = 500'



### 1958 Aerial Photograph

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Memphis, TN 38103

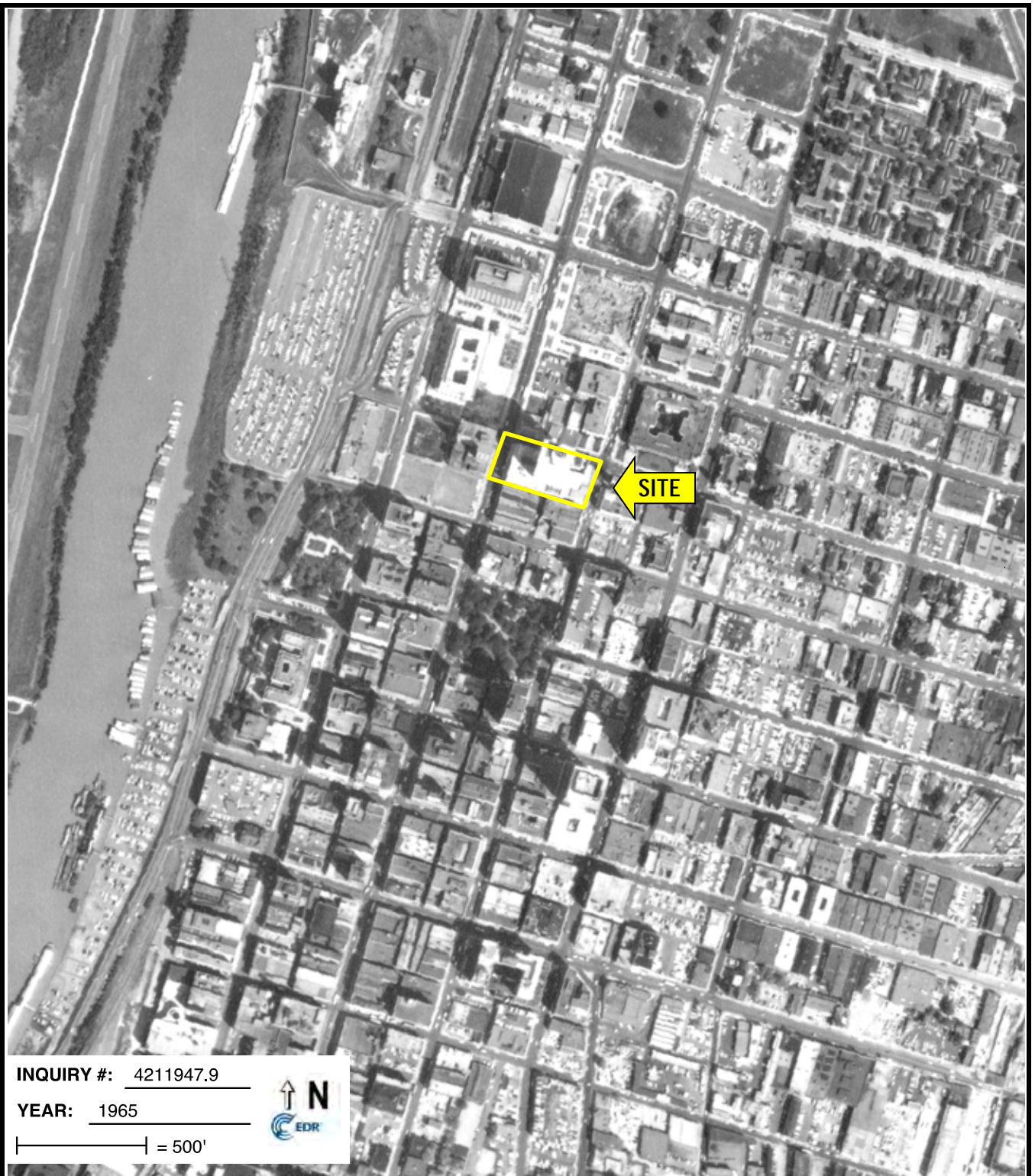


N

Source: EDR







INQUIRY #: 4211947.9

YEAR: 1965

| = 500'



1965 Aerial Photograph

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Memphis, TN 38103



N


Source: EDR





INQUIRY #: 4211947.9

YEAR: 1971

 = 500'



### 1971 Aerial Photograph

100 North Main  
100 North Main Street  
Memphis, TN 38103

Source: EDR



N







INQUIRY #: 4211947.9

YEAR: 1973

— = 500'



### 1973 Aerial Photograph

100 North Main  
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Memphis, TN 38103



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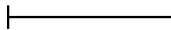
Source: EDR





INQUIRY #: 4211947.9

YEAR: 1980

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### 1980 Aerial Photograph

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Memphis, TN 38103



N

Source: EDR







INQUIRY #: 4211947.9

YEAR: 1985

|—————| = 500'



### 1985 Aerial Photograph

100 North Main  
100 North Main Street  
Memphis, TN 38103



N

Source: EDR







INQUIRY #: 4211947.9

YEAR: 1990

— = 500'



### 1990 Aerial Photograph

100 North Main  
100 North Main Street  
Memphis, TN 38103



Source: EDR





INQUIRY #: 4211947.9

YEAR: 1994

— = 500'



### 1994 Aerial Photograph

100 North Main  
100 North Main Street  
Memphis, TN 38103



N

Source: EDR







INQUIRY #: 4211947.9

YEAR: 1997

— = 500'



### 1997 Aerial Photograph

100 North Main  
100 North Main Street  
Memphis, TN 38103



N

Source: EDR







INQUIRY #: 4211947.9

YEAR: 2001

— = 750'



### 2001 Aerial Photograph

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Memphis, TN 38103



Source: EDR

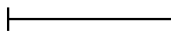






INQUIRY #: 4211947.9

YEAR: 2006

 = 500'



### 2006 Aerial Photograph

100 North Main  
100 North Main Street  
Memphis, TN 38103



N

Source: EDR








INQUIRY #: 4211947.9

YEAR: 2007

 = 500'



### 2007 Aerial Photograph

100 North Main  
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Memphis, TN 38103



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Source: EDR

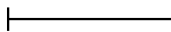






INQUIRY #: 4211947.9

YEAR: 2008

 = 500'



### 2008 Aerial Photograph

100 North Main  
100 North Main Street  
Memphis, TN 38103

Source: EDR



N







INQUIRY #: 4211947.9

YEAR: 2010

— = 500'



2010 Aerial Photograph

100 North Main  
100 North Main Street  
Memphis, TN 38103



N

Source: EDR







INQUIRY #: 4211947.9

YEAR: 2012

— = 500'



### 2012 Aerial Photograph

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Memphis, TN 38103

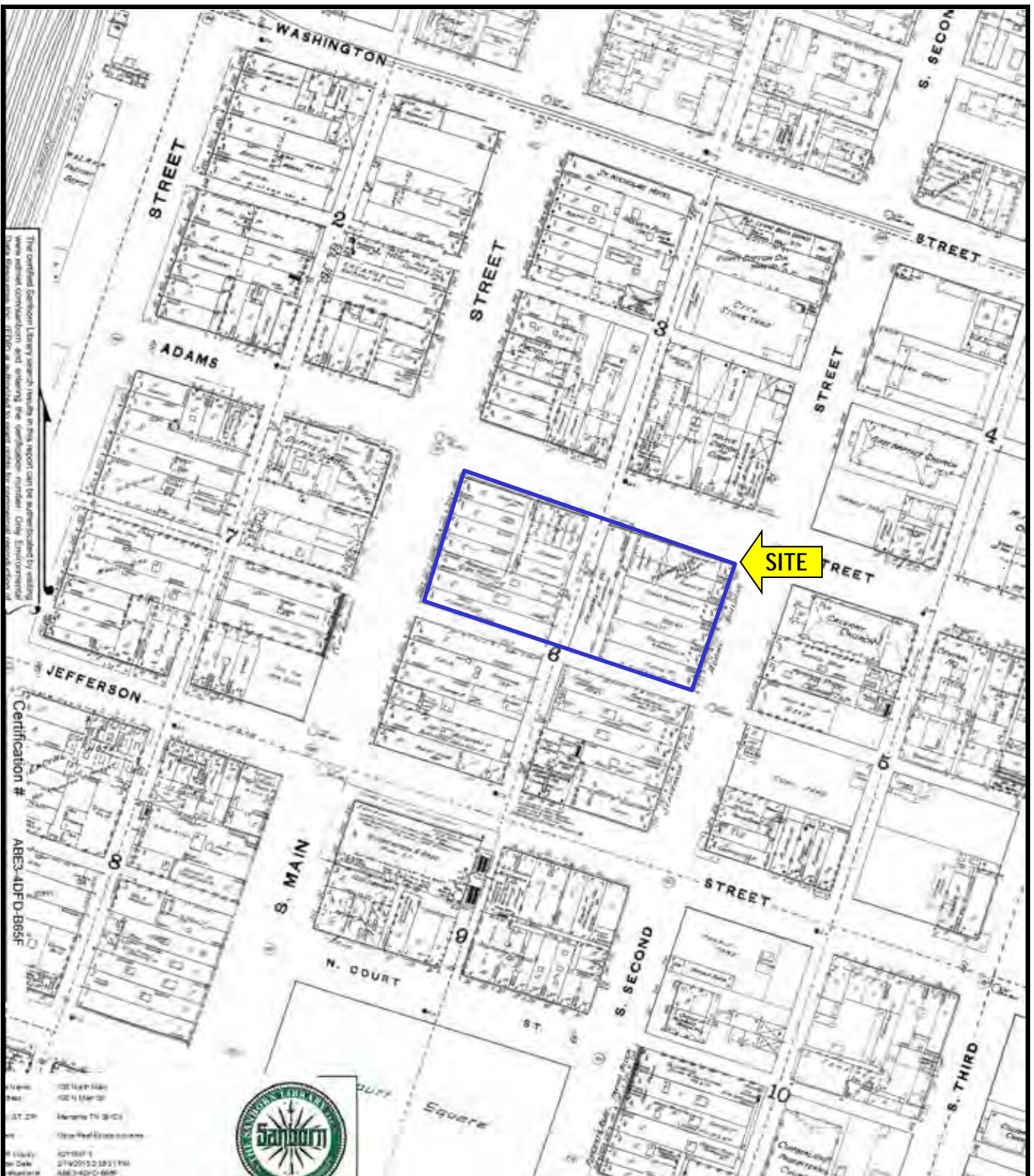


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Source: EDR







The original Sanborn Library search results in this report can be attributed by visiting the online Sanborn Library and entering the geographic coordinates. Digitized Sanborn fire insurance maps are available for purchase from the Sanborn Foundation. For more information, visit [www.sanborn.com](http://www.sanborn.com).

Certification #  
ABEC-40FD-B66F

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### 1888 Sanborn Map

100 North Main  
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 Memphis, TN 38103

Source: EDR







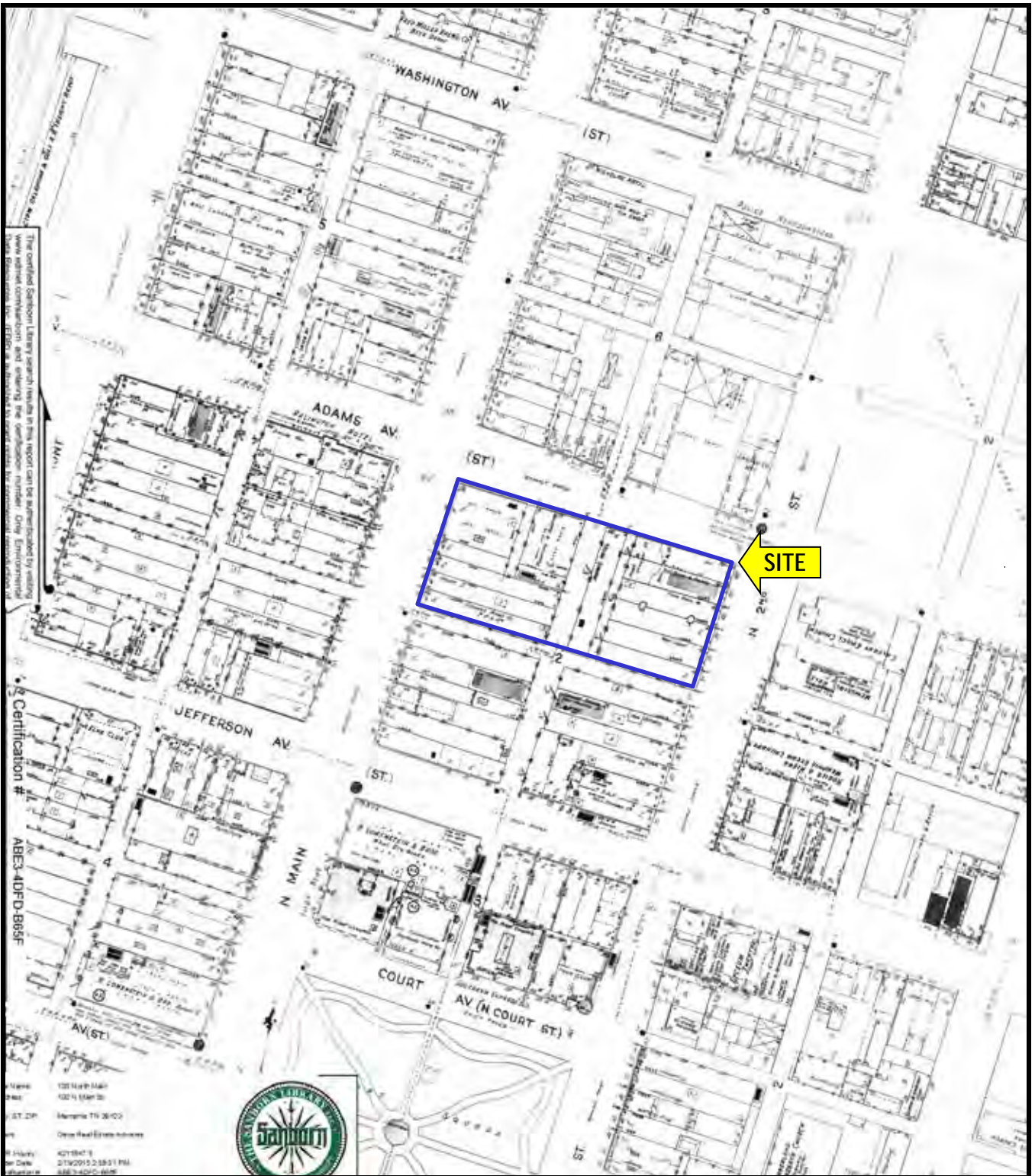
### 1897 Sanborn Map

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Memphis, TN 38103



Source: EDR





The certified Sanborn Library search results in this report can be substantiated by visiting www.edr.com and entering the applicable number. Only Environmental Data Resources Inc. (EDR) is authorized to provide this environmental information.

Certification #  
ABEC-10FD-B66F

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1907 Sanborn Map

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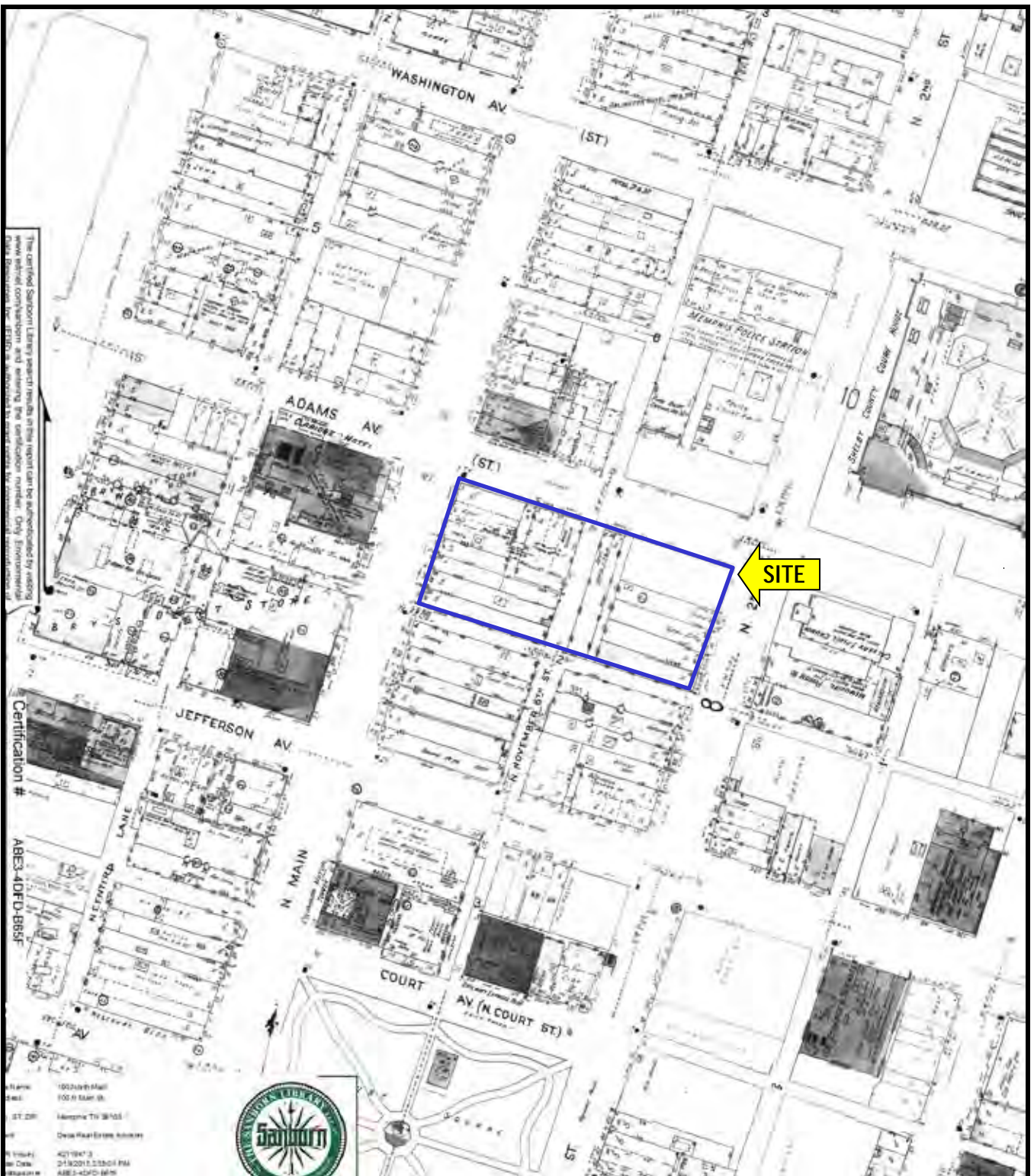


**DECA**  
REAL ESTATE ADVISORS



N





The certified Sanborn Library search results on this report can be authenticated by adding new aerial comparisons and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to certify aerials for environmental investigations.

Certification #

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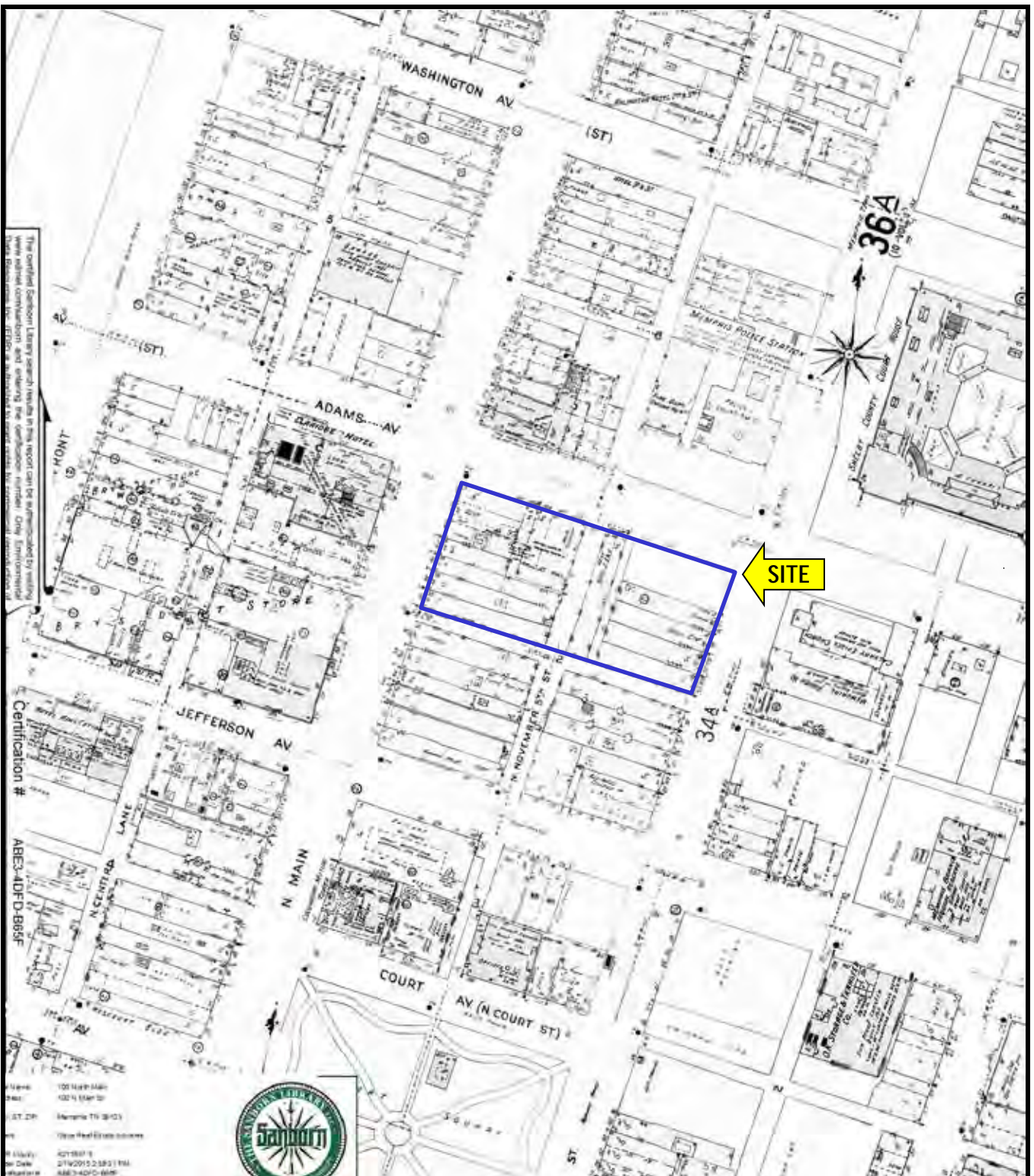
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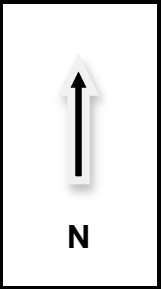




The certified Sanborn Library search results in this report can be authenticated by visiting [www.sanborn.com](http://www.sanborn.com) and entering the geographic coordinates. Only Environmental Data Resources Inc. (EDRI) is authorized to create copies for commercial purposes.

Certification #  
ABEC-10F-D-886F

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 County: Shelby  
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 Edition: 1952



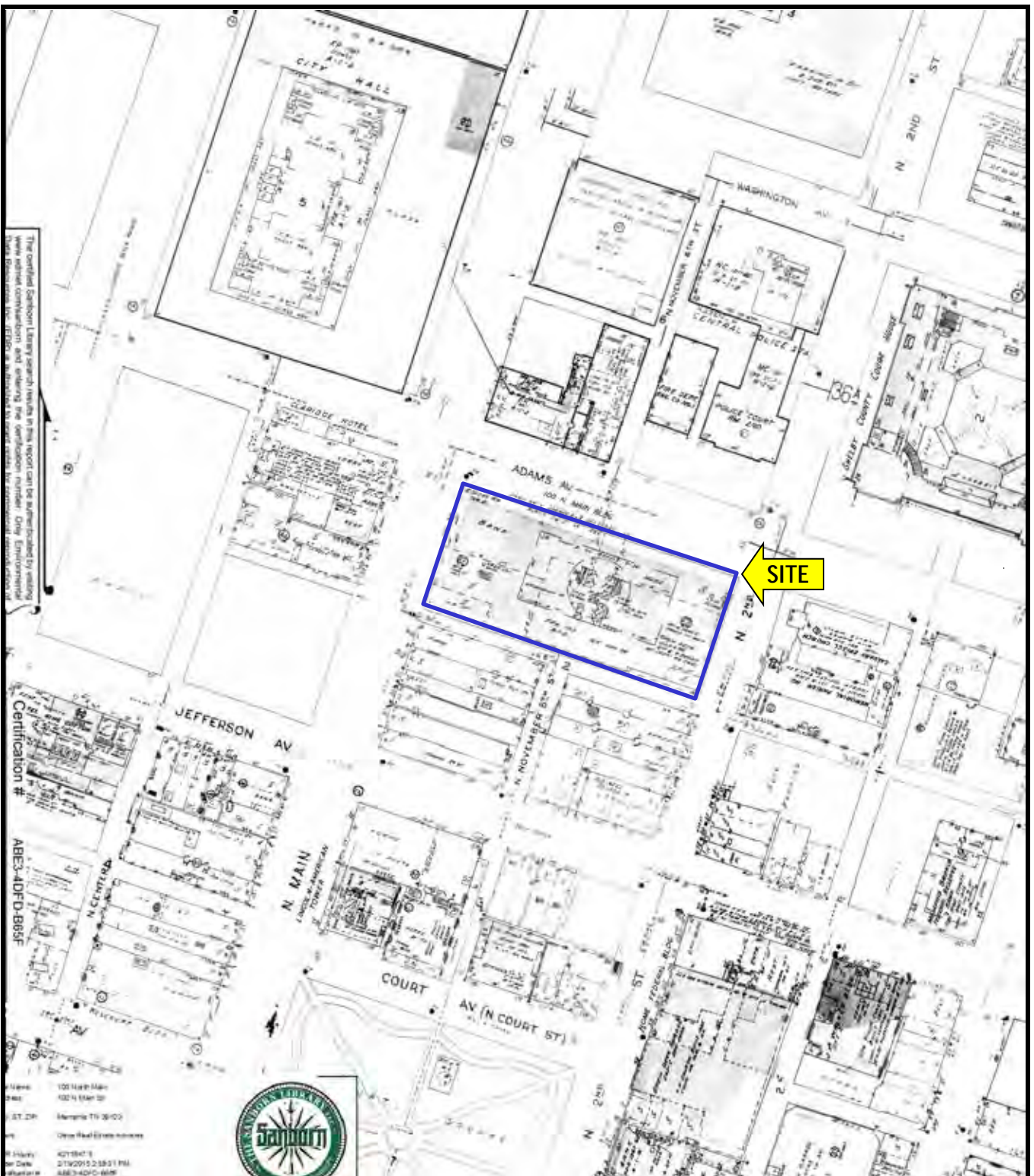
### 1952 Sanborn Map

100 North Main  
 100 North Main Street  
 Memphis, TN 38103

Source: EDR







The certified Sanborn Library search results in this report can be substantiated by visiting the web address combination and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to search and certify Sanborn fire insurance maps.

Certification #  
ABEC-10FD-886F

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1965 Sanborn Map

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Source: EDR

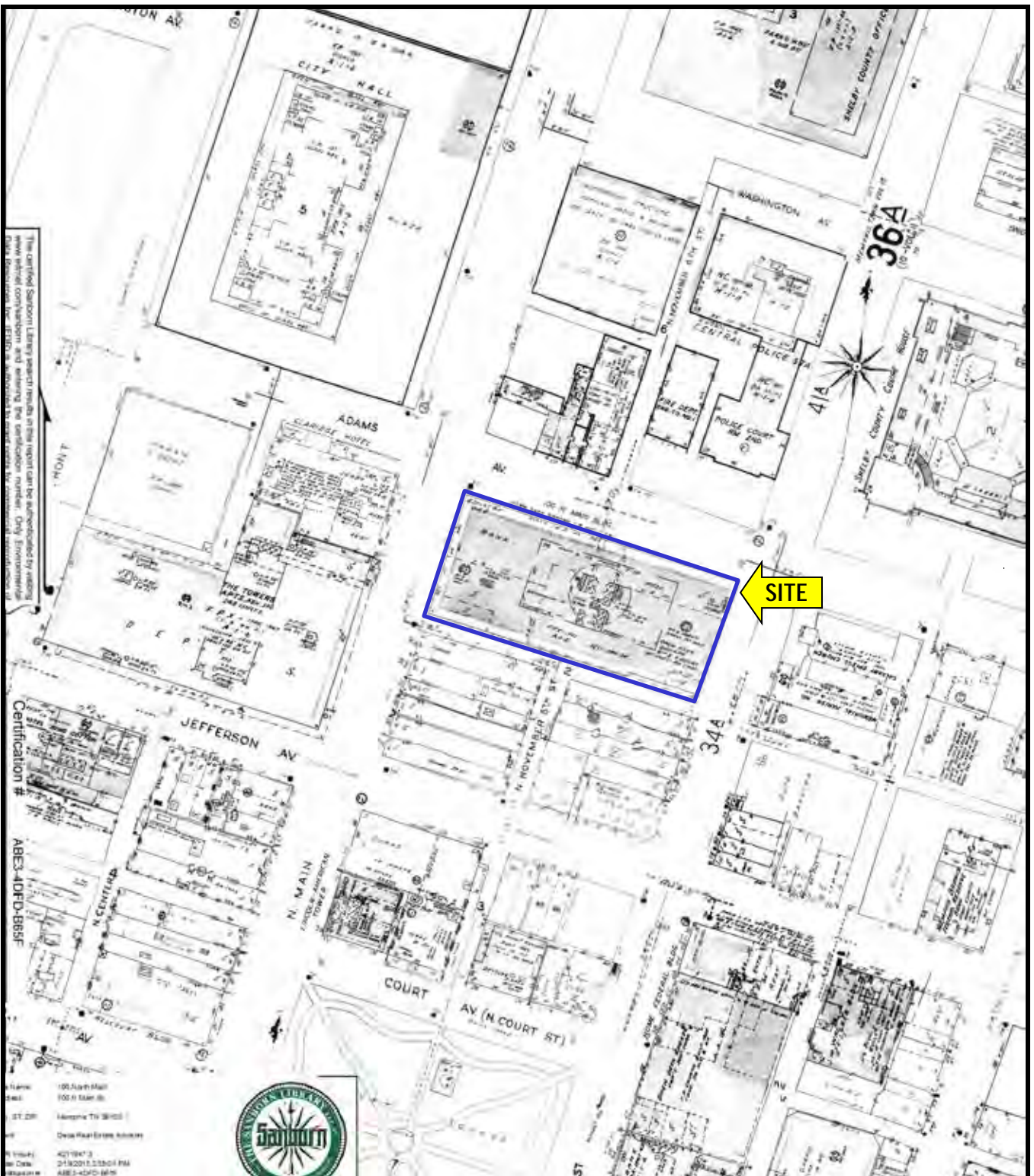


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N





The certified Sanborn Library search results on this report can be substantiated by using  
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 Data Resources Inc. (EDRI) is authorized to provide access to certified information.

Certification #  
 ABEC-10FD-B88F

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1969 Sanborn Map

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 Memphis, TN 38103

Source: EDR

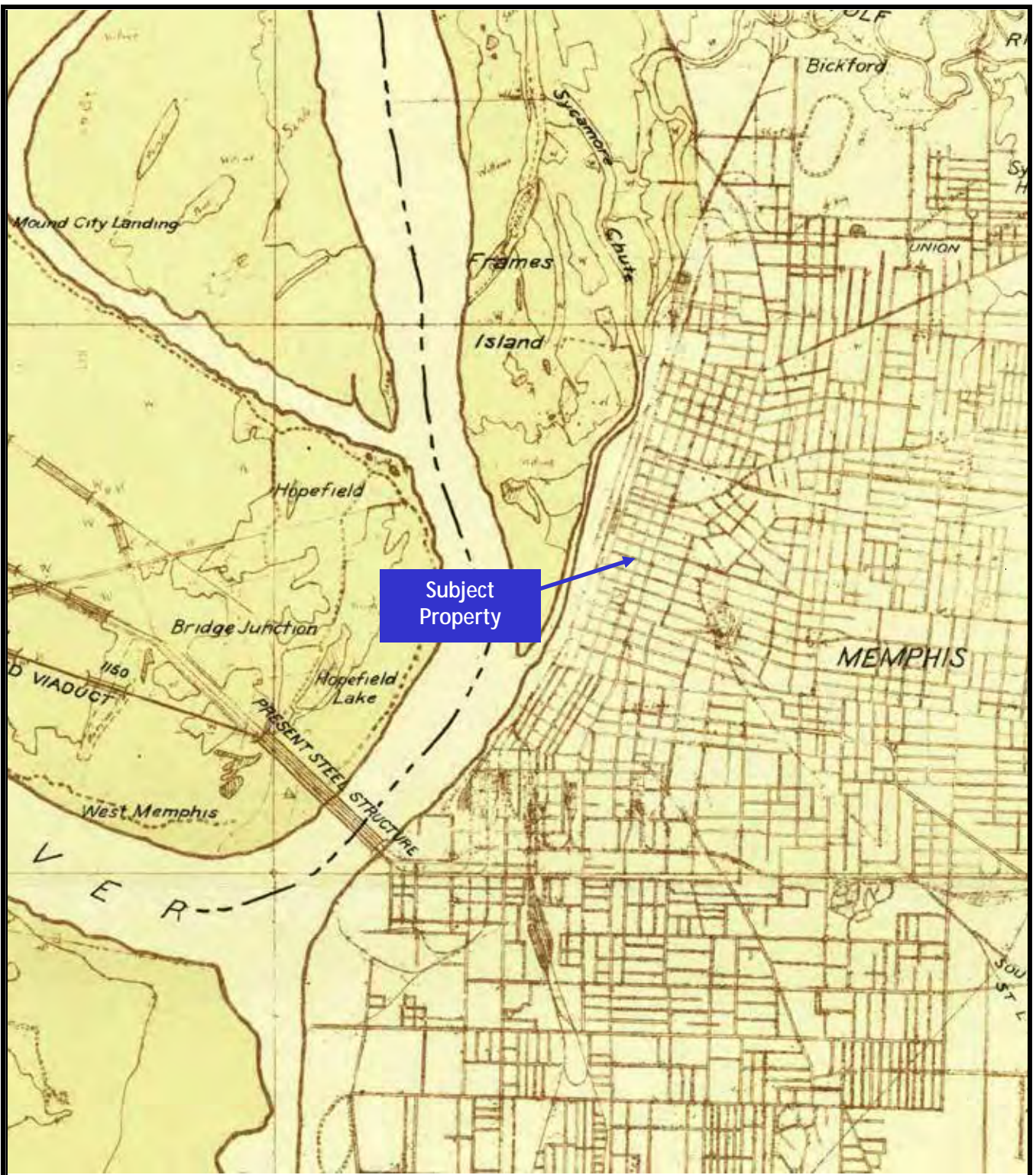


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**DECA**  
 REAL ESTATE ADVISORS





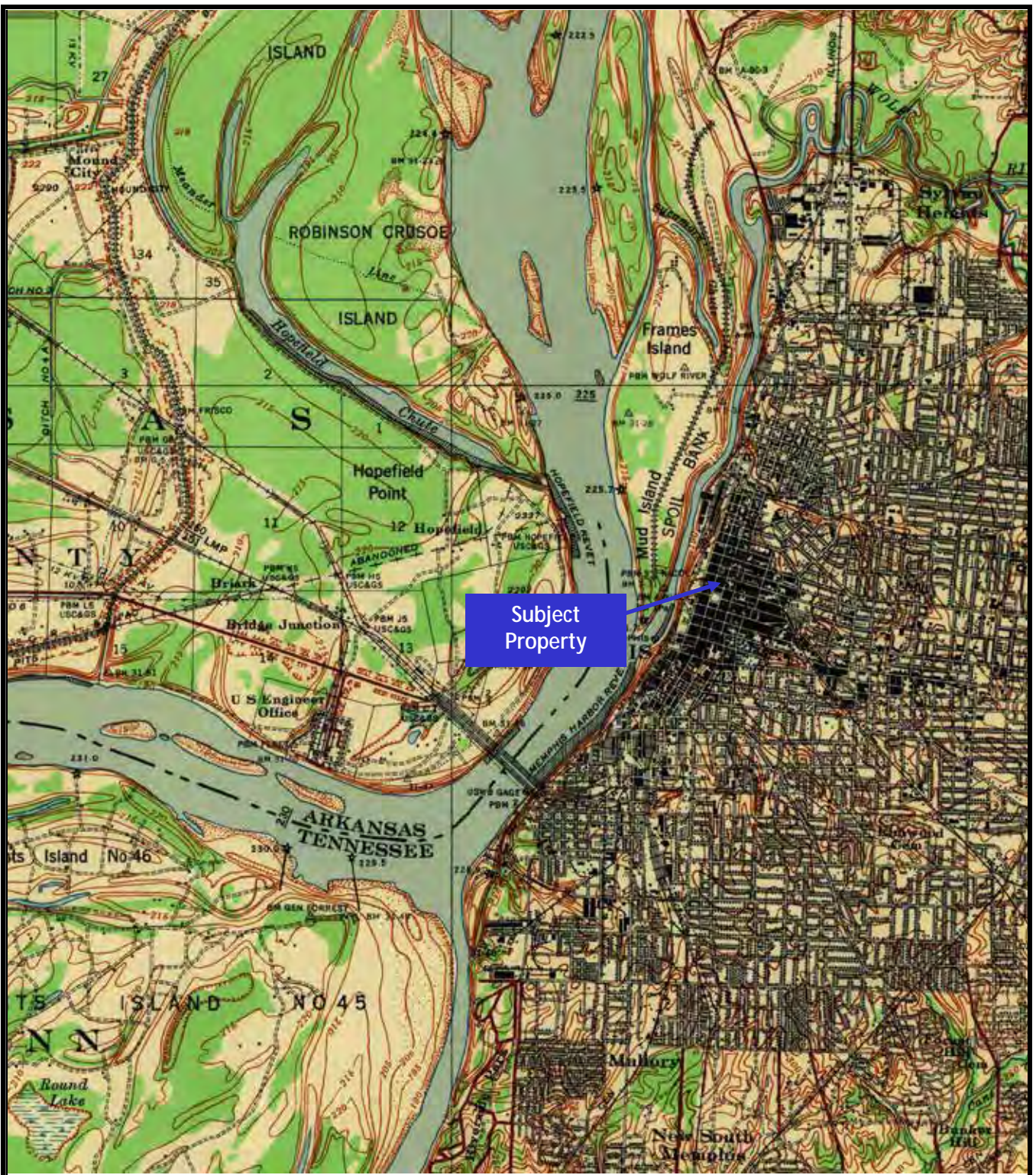
1925 Topographic Map

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Memphis, TN 38103

Source: EDR







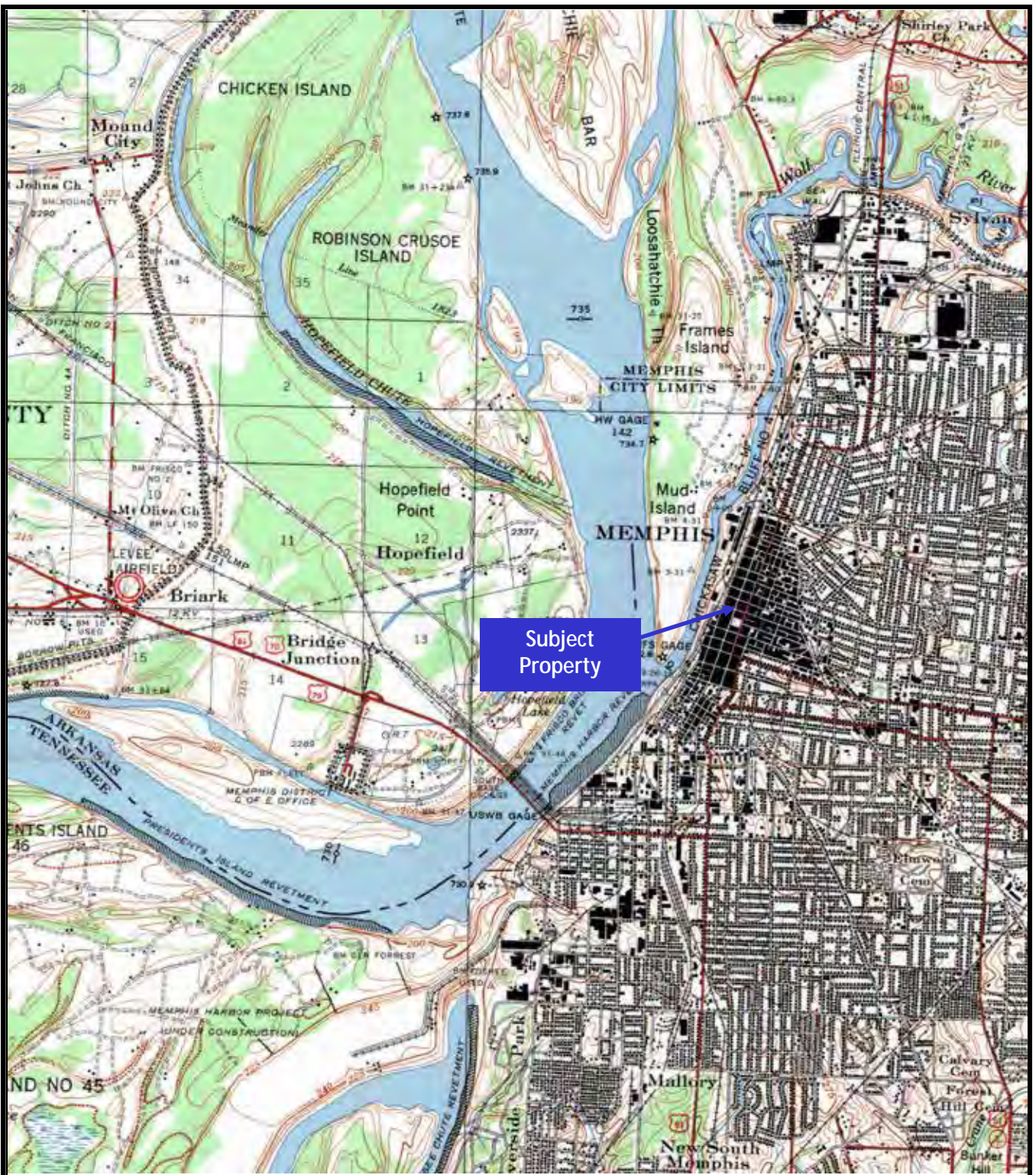
1940 Topographic Map

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Memphis, TN 38103

Source: EDR







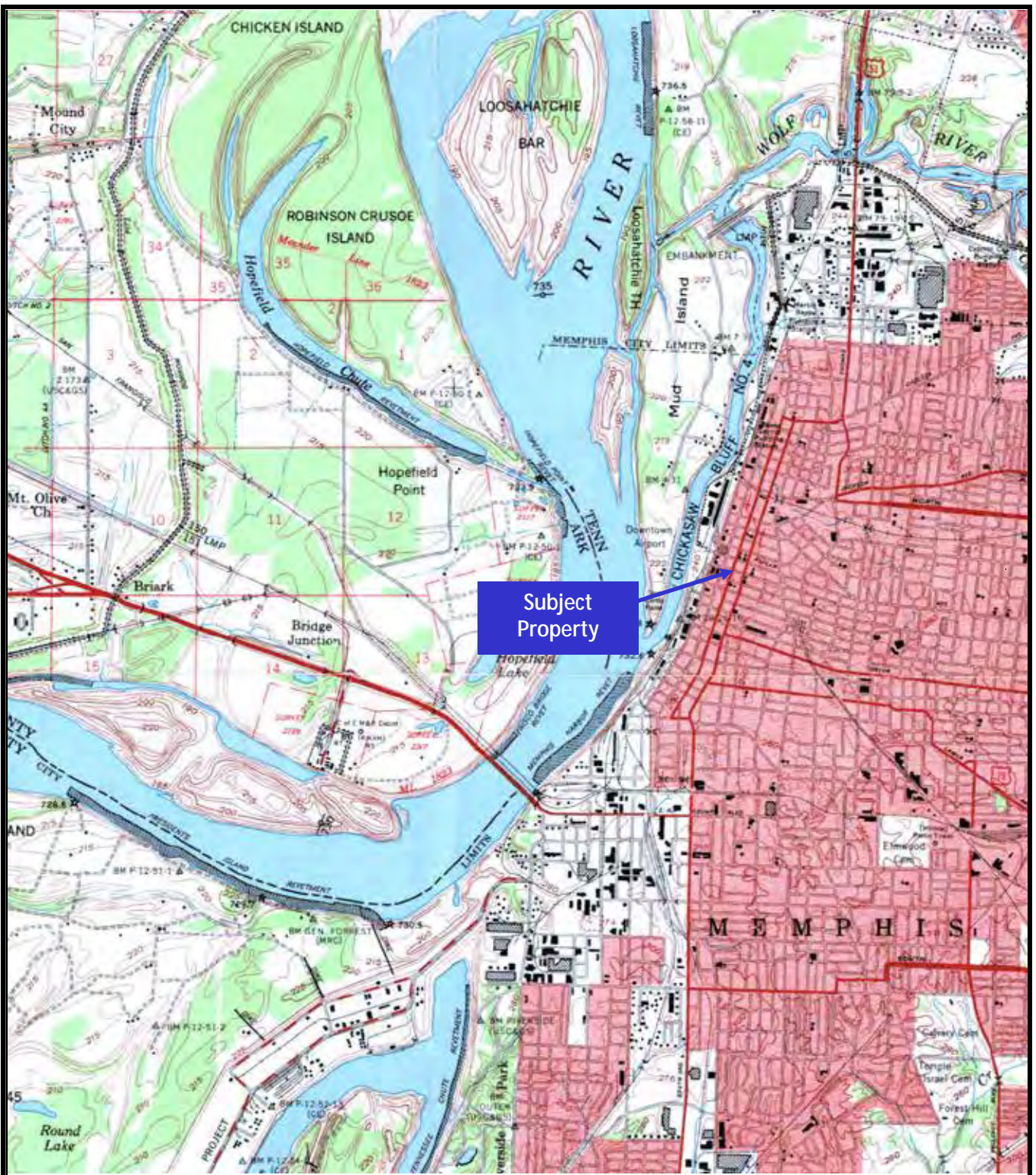
1955 Topographic Map

100 North Main  
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 Memphis, TN 38103

Source: EDR







Subject Property

1960 Topographic Map

100 North Main  
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Memphis, TN 38103

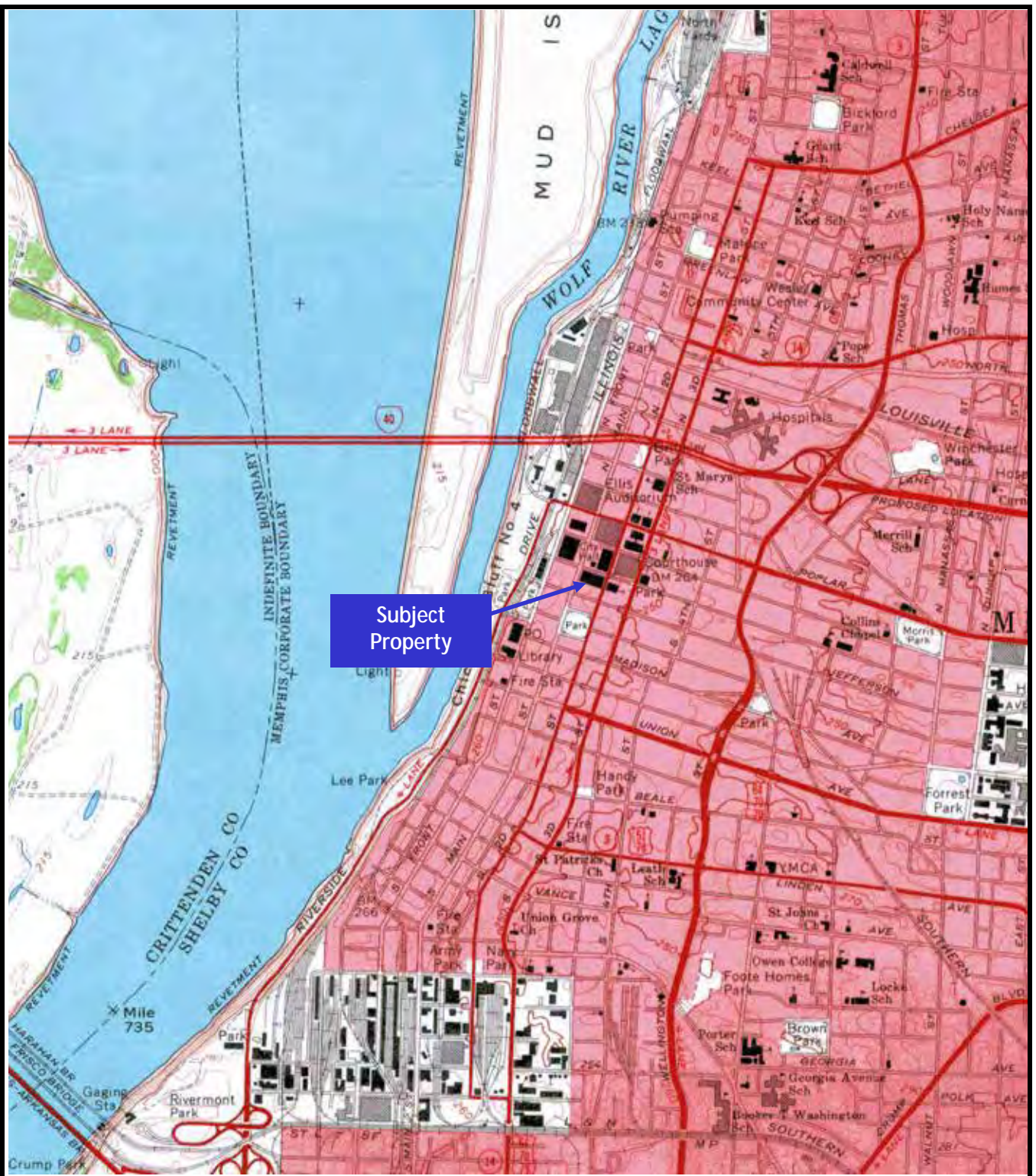


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Source: EDR







Subject Property

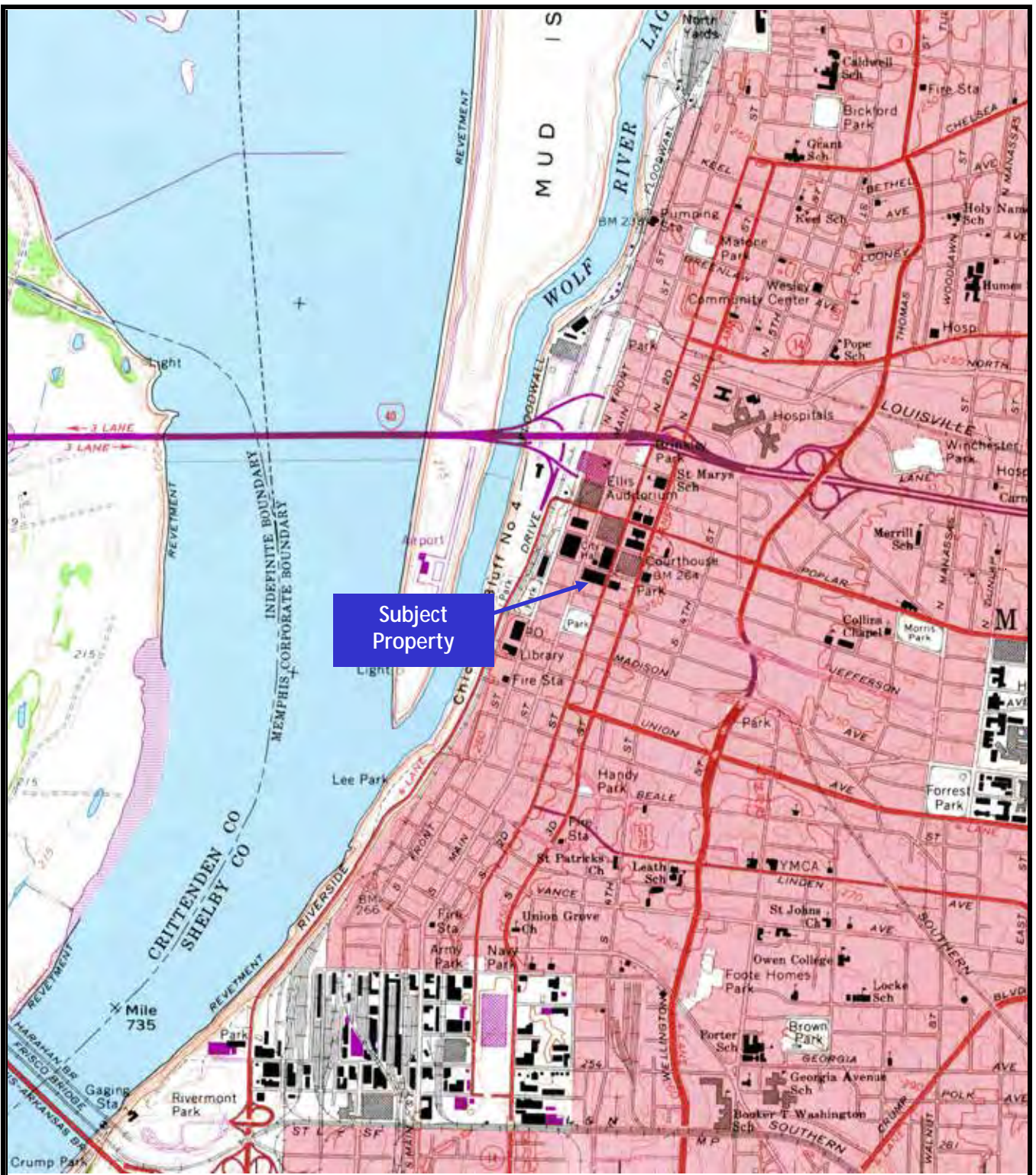
1965 Topographic Map

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Source: EDR







Subject Property

1973 Topographic Map

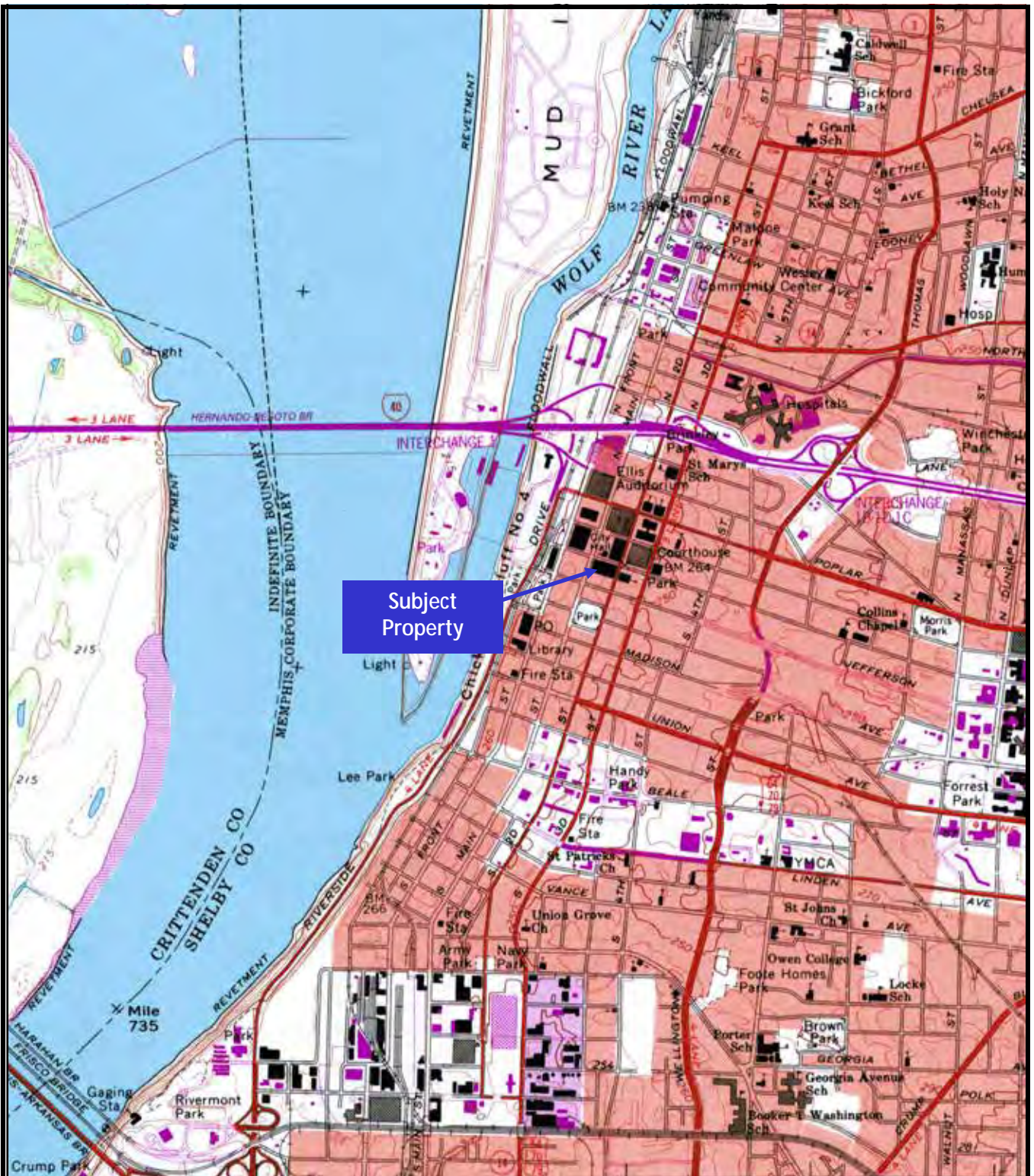
100 North Main  
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 Memphis, TN 38103



Source: EDR







1993 Topographic Map

100 North Main  
 100 North Main Street  
 Memphis, TN 38103

Source: EDR







Subject Property

1997 Topographic Map

100 North Main  
 100 North Main Street  
 Memphis, TN 38103



N

Source: EDR





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**Appendix D**  
**Previous Reports and Other Documentation**



## PRE-SURVEY QUESTIONNAIRE

**100 North Main Street  
Memphis, TN 38103**

DECA Real Estate Advisors, LLC (DECA) has been contracted to perform a Property Condition Assessment (PCA) and Phase I Environmental Site Assessment (ESA) of 100 North Main Street in Memphis, TN (the Property). The purpose of the following Questionnaire is to assist DECA Real Estate Advisors, LLC (DECA) in the completion of these assessments.

Information requested in the Questionnaire is essential in completing our reports. Therefore, **it is important that the Questionnaire be completed to the best of the ability of persons knowledgeable of the Property, and copies of documentation requested be provided (in electronic format and prior to the site survey, if possible).** It is also preferred that the Questionnaire be completed within the Word document for ease of transmittal via email.

We will need to perform a walk-through survey of the Property as part of this effort and will contact you in the next day or so to coordinate that. During the survey DECA staff will require access to the site and representative building systems, equipment, mechanical rooms, roofs, common areas and **30% or more of tenant spaces** (including vacant units). DECA will not bring ladders or other tools, so this should be provided by on-site management or maintenance staff, if necessary.

Please complete this Questionnaire as soon as possible and email back prior to the visit if possible. Send back any documentation to **Jeff Doss** at [jdoss@decaadvisors.com](mailto:jdoss@decaadvisors.com) or fax to 215.701.0798. Please indicate within the Questionnaire if hard copies of documents will be available on site, transmitted via U.S. mail or delivery service, as applicable.

**Please provide the contact information of the person(s) completing this questionnaire below, along with their signature(s).**

Name:	Title:
Company:	Date:
Email:	Phone #:

Length of time familiar with the property: \_\_\_\_\_

\_\_\_\_\_  
Date: \_\_\_\_\_

Signature

Name:	Title:
Company:	Date:
Email / Fax:	Phone #:

Length of time familiar with the property: \_\_\_\_\_

\_\_\_\_\_  
Date: \_\_\_\_\_

Signature

## PRE-SURVEY QUESTIONNAIRE

<i>GENERAL PROPERTY DATA</i>	
Property Name	
Property Tax ID #, Account #, Lot and/or Block	
Property Address	
Applicable Jurisdictions (City/Town, County)	
Property Type (retail, multifamily, office, etc.)	
Year(s) Constructed / Age	
Dates of Major Renovation(s), if applicable	
Number of Buildings and Use for each (e.g, 5 multi-family, 2 laundry, 1 maintenance, etc.)	
Number of stories; note if basements are present	
Net Rentable Floor Area (square feet, SF) if multiple bldgs, list for each	
Gross Floor Area (SF); if multiple bldgs, list for each	
Number of Tenant Spaces	
Occupancy Status (% or # of occupied & total)	
Site Area (acres or SF)	
Number of Parcels	
Total Number of Parking Spaces	
Number of Handicap Accessible Parking Spaces	Total _____ Van Accessible _____
Property Owner (legal name)	
Property Management Company & Contact (if different from persons identified above)	



## PRE-SURVEY QUESTIONNAIRE

Utility Providers	
Water	
Sanitary Sewer	
Storm Sewer	
Electric	
Gas, Oil and/or Propane	

If the property contains any buildings that are owned by another entity and not within the scope of this assessment (**such as a ground lease at a shopping center or anchor stores**), please identify them here: \_\_

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If there are any components or equipment within buildings subject to this assessment that are owned by and/or the responsibility of tenants or subject to NNN leases, such as HVAC units, paving, common area finishes, etc., please identify them here: \_\_\_\_\_

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**Are any capital improvements or renovations planned or underway?\_\_\_\_\_ If Yes, describe below:**

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**Describe past expansions, renovations or major capital improvements (attach documentation):**

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**If the property is LEED Certified provide the certification level:\_\_\_\_\_**

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## PRE-SURVEY QUESTIONNAIRE

**Are you aware if any of the following are present at the property (use Y or N):**

	Yes	No
1. Foundation or structural issues, such as differential settlement?		
2. Any equipment or components (such as roofing, windows, etc.) that require repair or replacement either because of damage or age?		
3. Any recurring maintenance/repair issues, such as repeated window leaks, plumbing leaks, tripped circuits, etc.?		
4. Fire sprinkler heads subject to recall, such as Omega/Central?		
5. Polybutylene piping, ABS piping, or galvanized steel water lines?		
6. EIFS (exterior insulation & finish system), compressed or composite board siding, or masonite?		
7. Aluminum wiring (multi-family properties)		
8. Fire retardant treated plywood (multi-family properties)		
9. High pressure boilers/water heaters?		
10. Issues with inadequate parking capacity traffic flow within the property or ingress/egress?		
11. Fire code, building code, or zoning violations?		
12. Current or past flood damage?		
13. Current or past water leaks?		
14. Current of past incidents of mold?		
15. Past abatement or correction of conditions involving mold?		
16. Complaints of symptoms relating to mold?		
17. Current or past allegations of mold-related ailments?		

**If you answered Yes to any questions in the table above, please provide additional details:**

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## PRE-SURVEY QUESTIONNAIRE

Do you have any knowledge of the following operations, currently or historically, at the subject property and, if so, please explain and provide all pertinent documentation **(use Y or N)**:

	Yes	No
1. Chemical manufacturing/storage		
2. Petroleum storage/gasoline station		
3. Dry cleaning operations		
4. Automobile uses (service, storage, disposal, etc.)		
5. Electronic assembly or manufacturing		
6. Agriculture		
7. Airport		
8. Agriculture		
9. Printing facility		
10. Railroad		
11. Other facilities that potentially utilized hazardous materials and/or generated hazardous waste		
12. Are you aware of current or former underground storage tanks (USTs) or aboveground storage tanks (ASTs) on-site?		

**If you answered Yes to any questions in the table above, please provide additional details:**

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## PRE-SURVEY QUESTIONNAIRE

<i>PROPERTY HISTORY</i>	
Was the structure ever renovated? What year?	
How long has the property/structures on-site been used for its current purpose?	
Were there previous structures on the property? If yes, note the number and use	
What was the property's previous use?	
Who previously occupied the property?	
If the property was vacant land, note whether it was pasture land, agricultural land, wooded land, etc	
Have environmental remediation activities been conducted on the property (e.g. asbestos abatement, tank removal, soil cleanup, asbestos removal, asbestos operations & maintenance program). If yes, provide copies of documents.	
Has the property had any environmental violations? If yes, briefly describe below	
Have any environmental site assessments been conducted on the property? (If yes, briefly describe below and provide copies if available)	

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## PRE-SURVEY QUESTIONNAIRE

**Documentation:** Please provide a copy of each of the following, **if applicable**, and note (by placing a Y in the appropriate cells) whether each will be provided electronically or via hard copy.

<i>DOCUMENT/REPORT TYPE</i>	<i>ELECTRONIC</i>	<i>HARD COPY ONSITE</i>	<i>HARD COPY VIA MAIL</i>
Property Brochure / Leasing Literature, etc.			
Rent Roll / Occupancy Report			
Base Building Certificate(s) of Occupancy			
Building Permit(s)			
Outstanding Citations for Fire, Building, or Zoning Code Violations			
Previous Environmental Site Assessment or Property Condition Report(s)			
Appraisal Report(s), current or previous			
Accessibility Survey (such as ADA, FFHA)			
Facade Inspection Report (if applicable for jurisdiction and building height)			
ALTA/Land Title Survey and/or Site Plan			
Floor Plans			
Construction Drawings and/or Specifications			
Capital Improvements records and/or summary			
Proposals, bids for capital improvements			
Capital expenditure forecasts/budgets			
Fire alarm / fire sprinkler / fire pump test / emergency generator inspection/test reports			
Elevator certificates, load test reports, modernization studies; escalator certificates			
Infrared (IR) survey, eddy current testing, or other equipment inspection/test reports			
Warrantees for Major Items (such as roofs)			
Equipment descriptions and/or schedules, if applicable (such as for HVAC, hot water, water purification or treatment systems)			
Vendor Listing (for equipment service contracts)			



## PRE-SURVEY QUESTIONNAIRE

<i>DOCUMENT/REPORT TYPE</i>	<i>ELECTRONIC</i>	<i>HARD COPY ONSITE</i>	<i>HARD COPY VIA MAIL</i>
Previous tenant lists			
Asbestos surveys/abatement documents/O&M Plans			
Information regarding property-owned transformers			
UST closure documents and/or tightness records			
Waste disposal/hazardous waste manifests			
Lead-based paint (LBP) inspection reports or O&M Plan			
Permits/registration (i.e. tank, boiler, air emissions, wastewater)			
Material Safety Data Sheets (MSDS)			
Other, describe:			



## PRE-SURVEY QUESTIONNAIRE

### ASTM User Questionnaire

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the “*Brownfields Amendments*”), the *user* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that “*all appropriate inquiry*” is not complete.

*If you answer Yes to any of the following, please elaborate as appropriate.*

**1. Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).**

Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law? \_\_\_\_\_

\_\_\_\_\_

**2. Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).**

Are you aware of any activity and use limitation (AULs), such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? \_\_\_\_\_

\_\_\_\_\_

**3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).**

As the *user* of this *ESA* do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business? \_\_\_\_\_

\_\_\_\_\_

**4. Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).**

Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Continued on next page





## PRE-SURVEY QUESTIONNAIRE

**5. Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30).**

Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as *user*,

(a.) Do you know the past uses of the *property*? \_\_\_\_\_

(b.) Do you know of specific chemicals that are present or once were present at the *property*? \_\_\_\_\_

(c.) Do you know of spills or other chemical releases that have taken place at the *property*? \_\_\_\_\_

(d.) Do you know of any environmental cleanups that have taken place at the *property*? \_\_\_\_\_

**6. The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).**

As the *user* of this *ESA*, based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*? \_\_\_\_\_

**Appendix E**  
**Environmental Database Report**

100 North Main  
100 N Main St  
Memphis, TN 38103

Inquiry Number: 4211947.2s  
February 19, 2015

## The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
www.edrnet.com

FORM LBC-MGA

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**Thank you for your business.**  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

100 N MAIN ST  
SHELBY County, TN 38103

#### COORDINATES

Latitude (North): 35.1477000 - 35° 8' 51.72"  
Longitude (West): 90.0512000 - 90° 3' 4.32"  
Universal Transverse Mercator: Zone 15  
UTM X (Meters): 768645.0  
UTM Y (Meters): 3893206.5  
Elevation: 259 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 35090-B1 NORTHWEST MEMPHIS, TN AR  
Most Recent Revision: 1999

#### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20100702, 20120618  
Source: USDA

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
MCI TELECOMMUNICATIONS CORP 100 N MAIN STREET MEMPHIS, TN	TN RGA LUST	N/A
MCI TELECOMMUNICATIONS CORP 100 NORTH MAIN ST. MEMPHIS, TN 38103	TN UST Compartment Status: Permanently Out of Use	N/A
MCI TELECOMMUNICATIONS CORP 100 N MAIN STREET MEMPHIS, TN 38103	TN LUST Current Status: 1a Completed Tank Closure	N/A
W R GRACE & COMPANY 100 NORTH MAIN BLDG MEMPHIS, TN 38103	NY MANIFEST	N/A

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## EXECUTIVE SUMMARY

MCI TELECOMMUNICATIONS CORP 100 NORTH MAIN ST. MEMPHIS, TN 38103	TN HIST UST	N/A
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GRACE W R & CO 100 NORTH MAIN ST MEMPHIS, TN 38103	FINDS	N/A
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### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable") government records either on the target property or within the search radius around the target property for the following databases:

### STANDARD ENVIRONMENTAL RECORDS

#### Federal NPL site list

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

#### Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

#### Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System  
FEDERAL FACILITY..... Federal Facility Site Information listing

#### Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

#### Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

#### Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls  
LUCIS..... Land Use Control Information System

#### Federal ERNS list

ERNS..... Emergency Response Notification System

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**EXECUTIVE SUMMARY**

**State- and tribal - equivalent NPL**

TN SHWS..... List of Inactive Hazardous Substance Sites  
 AR SHWS..... Hazardous Substance Remedial Action Trust Fund Priority List

**State and tribal landfill and/or solid waste disposal site lists**

TN SWF/LF..... Solid Waste Disposal Facilities  
 AR SWF/LF..... Solid Waste Facility Permit Database

**State and tribal leaking storage tank lists**

TN HIST\_LUST CO..... Leaking Underground Storage Tanks Sites  
 INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

**State and tribal registered storage tank lists**

AR UST..... Underground Storage Tank Data  
 TN AST..... Aboveground Storage Tanks  
 AR AST..... Aboveground Tank Database  
 INDIAN UST..... Underground Storage Tanks on Indian Land  
 FEMA UST..... Underground Storage Tank Listing

**State and tribal institutional control / engineering control registries**

TN ENG CONTROLS..... Engineering Control Sites  
 AR ENG CONTROLS..... Engineering Controls Sites Listing  
 AR INST CONTROL..... Institutional Control/Land Use Restriction Sites

**State and tribal voluntary cleanup sites**

TN SRP..... State Remediation Program List  
 TN VCP..... Voluntary Cleanup, Oversight and Assistance Program Sites  
 AR VCP..... Voluntary Cleanup Program Sites  
 INDIAN VCP..... Voluntary Cleanup Priority Listing

**State and tribal Brownfields sites**

TN BROWNFIELDS..... Superfund VOAP Listing  
 AR BROWNFIELDS..... Brownfields Projects

**ADDITIONAL ENVIRONMENTAL RECORDS**

**Local Lists of Landfill / Solid Waste Disposal Sites**

ODL..... Open Dump Inventory  
 DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
 TN SWRCY..... Recycling Facilities Listing  
 AR SWRCY..... Recycling Directory  
 INDIAN ODL..... Report on the Status of Open Dumps on Indian Lands

**Local Lists of Hazardous waste / Contaminated Sites**

US CDL..... Clandestine Drug Labs

**EXECUTIVE SUMMARY**

TN DEL SHWS..... Deleted State Hazardous Waste Sites  
 TN PRIORITYCLEANERS..... DCERP Remediation Sites Listing  
 TN CDL..... Registry of Contaminated Properties  
 AR CDL..... Methamphetamine Contaminated Properties Listing  
 US HIST CDL..... National Clandestine Laboratory Register

**Local Land Records**

LIENS 2..... CERCLA Lien Information  
 TN LIENS..... Liens Information

**Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System  
 AR SPILLS..... Emergency Response Incidents

**Other Ascertainable Records**

DOT OPS..... Incident and Accident Data  
 DOD..... Department of Defense Sites  
 FUDS..... Formerly Used Defense Sites  
 CONSENT..... Superfund (CERCLA) Consent Decrees  
 ROD..... Records Of Decision  
 UMTRCA..... Uranium Mill Tailings Sites  
 US MINES..... Mines Master Index File  
 TRIS..... Toxic Chemical Release Inventory System  
 TSCA..... Toxic Substances Control Act  
 FTTS..... FIFRA TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
 HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
 SSTS..... Section 7 Tracking Systems  
 ICIS..... Integrated Compliance Information System  
 PADS..... PCB Activity Database System  
 MLTS..... Material Licensing Tracking System  
 RADINFO..... Radiation Information Database  
 RAATS..... RCRA Administrative Action Tracking System  
 RMP..... Risk Management Plans  
 TN DRYCLEANERS..... Registered Facilities List  
 TN NPDES..... Permitted Facility Listing  
 TN AIRS..... Listing of Permitted Sources  
 AR AIRS..... Permitted Facility Emission & Stack Data  
 TN LEAD..... Lead Safe Housing Registry  
 INDIAN RESERV..... Indian Reservations  
 US FIN ASSUR..... Financial Assurance Information  
 EPA WATCH LIST..... EPA WATCH LIST  
 COAL ASH DOE..... Steam-Electric Plant Operation Data  
 PRP..... Potentially Responsible Parties  
 LEAD SMELTERS..... Lead Smelter Sites  
 COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
 PCB TRANSFORMER..... PCB Transformer Registration Database  
 2020 COR ACTION..... 2020 Corrective Action Program List

**EDR RECOVERED GOVERNMENT ARCHIVES**

**Exclusive Recovered Govt. Archives**

TN RGA LF..... Recovered Government Archive Solid Waste Facilities List

**EXECUTIVE SUMMARY**

AR RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank  
 AR RGA LF..... Recovered Government Archive Solid Waste Facilities List

**SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

**STANDARD ENVIRONMENTAL RECORDS**

**Federal CERCLIS NFRAP site List**

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
<b>SHULTON INC TOILETRIES DIV</b>	<b>1725 S 3RD ST</b>	<b>NE 1/8 - 1/4 (0.140 mi.)</b>	<b>M71</b>	<b>76</b>

**Federal RCRA generators list**

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 12/09/2014 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
<b>KIK CUSTOM PRODUCTS INC</b>	<b>1725 SOUTH THIRD ST</b>	<b>NE 1/8 - 1/4 (0.140 mi.)</b>	<b>M68</b>	<b>57</b>

**EXECUTIVE SUMMARY**

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/09/2014 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
<b>CITY OF MEMPHIS - FORMER POLIC</b>	<b>128 ADAMS AVE</b>	<b>ENE 0 - 1/8 (0.003 mi.)</b>	<b>A7</b>	<b>13</b>

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 12/09/2014 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
<b>UNITED STATES POSTAL SERVICE,</b>	<b>ONE NORTH FRONT STREET</b>	<b>SW 1/8 - 1/4 (0.199 mi.)</b>	<b>P122</b>	<b>110</b>

**State and tribal leaking storage tank lists**

TN LUST: A listing of leaking underground storage tank site locations.

A review of the TN LUST list, as provided by EDR, and dated 09/15/2014 has revealed that there are 12 TN LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
<b>MORGAN KEEGAN TOWER</b>	<b>50 NORTH FRONT ST. SUIT</b>	<b>WSW 1/8 - 1/4 (0.134 mi.)</b>	<b>I63</b>	<b>54</b>
Current Status: 1a Completed Tank Closure				
<b>HUMPHREYS INVESTMENT CO</b>	<b>22 NORTH THIRD ST</b>	<b>SSE 1/8 - 1/4 (0.161 mi.)</b>	<b>Q95</b>	<b>98</b>
Current Status: 8 Case Closed				

Lower Elevation	Address	Direction / Distance	Map ID	Page
<b>MUD ISLAND</b>	<b>125 N FRONT STREET</b>	<b>NW 0 - 1/8 (0.089 mi.)</b>	<b>H31</b>	<b>32</b>
Current Status: 1a Completed Tank Closure				
<b>ONE MEMPHIS PLACE</b>	<b>200 JEFFERSON AVENUE</b>	<b>SE 0 - 1/8 (0.123 mi.)</b>	<b>F56</b>	<b>50</b>
Current Status: 1a Completed Tank Closure				
<b>ONE MEMPHIS PLACE VENTURE</b>	<b>200 JEFFERSON AVE STE 2</b>	<b>SE 0 - 1/8 (0.123 mi.)</b>	<b>F58</b>	<b>52</b>
Current Status: 8 Case Closed				
<b>CCL CUSTOM MANUFACTURING INC</b>	<b>1725 SOUTH THIRD ST</b>	<b>NE 1/8 - 1/4 (0.140 mi.)</b>	<b>M70</b>	<b>76</b>
Current Status: 1a Completed Tank Closure				
<b>RADISSON HOTEL</b>	<b>185 UNION</b>	<b>S 1/4 - 1/2 (0.342 mi.)</b>	<b>AD156</b>	<b>148</b>
Current Status: 1a Completed Tank Closure				



## EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
<b>GREYHOUND TERMINAL</b> Current Status: 7 Closure Monitoring	203 UNION AVENUE	S 1/4 - 1/2 (0.352 mi.)	AD158	151
DOWNTOWN EXXON Current Status: 8 Case Closed	119 N DANNY THOMAS BLVD	E 1/4 - 1/2 (0.363 mi.)	159	155
EXXON R/S #5-7142 Current Status: 8 Case Closed	186 N DANNY THOMAS BLVD	E 1/4 - 1/2 (0.409 mi.)	160	156
<b>WELLS FARGO ARMORED SERVICE CO</b> Current Status: 1a Completed Tank Closure	277 MONROE AVENUE	SE 1/4 - 1/2 (0.414 mi.)	AE161	157
Current Status: 8 Case Closed				
<b>FIRE APP MAINTENANCE SHOP</b> Current Status: 1a Completed Tank Closure	354 ADAMS	ESE 1/4 - 1/2 (0.444 mi.)	163	160

TN LUST TRUST: This list contains information on sites that had accidental releases of petroleum and are eligible for reimbursement from the TN Petroleum UST Fund.

A review of the TN LUST TRUST list, as provided by EDR, and dated 09/15/2014 has revealed that there are 3 TN LUST TRUST sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ELLIOTT WHITTING BLG	25 64 S. THIRD ST.	SSE 1/4 - 1/2 (0.268 mi.)	AA153	132
<b>GREYHOUND TERMINAL</b>	203 UNION AVE.	S 1/4 - 1/2 (0.352 mi.)	AD157	149
LOOMIS, FARGO & CO	277 MONROE	SE 1/4 - 1/2 (0.414 mi.)	AE162	160

### State and tribal registered storage tank lists

TN UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle 1 of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environment & Conservation's Facility and Tank Report.

A review of the TN UST list, as provided by EDR, and dated 09/15/2014 has revealed that there are 10 TN UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIRE DEPT Compartment Status: Permanently Out of Use	118 ADAMS	NNE 0 - 1/8 (0.003 mi.)	A8	14
<b>MORGAN KEEGAN TOWER</b> Compartment Status: Permanently Out of Use	50 NORTH FRONT ST. SUIT	WSW 1/8 - 1/4 (0.134 mi.)	I63	54
HUMPHREYS INVESTMENT CO Compartment Status: Permanently Out of Use	22 NORTH 3RD	SSE 1/8 - 1/4 (0.161 mi.)	Q94	96
Lower Elevation	Address	Direction / Distance	Map ID	Page
<b>FLEET SERVICES</b> Compartment Status: Currently In Use	160 NORTH MID AMERICA M	N 0 - 1/8 (0.082 mi.)	G26	23
MUD ISLAND Compartment Status: Permanently Out of Use	125 NORTH FRONT ST.	NW 0 - 1/8 (0.089 mi.)	H29	25

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Lower Elevation	Address	Direction / Distance	Map ID	Page
RIVERSIDE SERVICE CENTER Compartment Status: Permanently Out of Use	85 NORTH FRONT	WSW 0 - 1/8 (0.101 mi.)	I34	34
JEFFERSON PARKING PARTNERS Compartment Status: Permanently Out of Use	199 JEFFERSON AVENUE	SE 0 - 1/8 (0.123 mi.)	F55	48
<b>ONE MEMPHIS PLACE</b> Compartment Status: Permanently Out of Use	200 JEFFERSON AVENUE	SE 0 - 1/8 (0.123 mi.)	F56	50
CCL CUSTOM MANUFACTURING INC Compartment Status: Permanently Out of Use	1725 SOUTH 3RD ST.	NE 1/8 - 1/4 (0.140 mi.)	M69	74
FEDERAL RESERVE BANK OF ST. LO Compartment Status: Currently In Use	200 NORTH MAIN ST.	N 1/8 - 1/4 (0.150 mi.)	N84	88

### State and tribal institutional control / engineering control registries

TN INST CONTROL: Sites that have institutional controls.

A review of the TN INST CONTROL list, as provided by EDR, and dated 11/17/2014 has revealed that there is 1 TN INST CONTROL site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
HD SUPPLY UTILITIES	273 WASHINGTON AVENUE	E 1/4 - 1/2 (0.267 mi.)	152	131

### ADDITIONAL ENVIRONMENTAL RECORDS

#### Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 12/22/2014 has revealed that there are 3 US BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
<b>FIRESTONE TIRE AND RUBBER</b> 26 S. MAIN STREET	139 POPLAR AVE 26 S. MAIN STREET	NNE 1/8 - 1/4 (0.147 mi.) SSW 1/8 - 1/4 (0.237 mi.)	M80 M71	85 123
Lower Elevation	Address	Direction / Distance	Map ID	Page
<b>WOLF RIVER HARBOR - SOUTHERN S</b>	MOUTH TO A.W. WILLIS BR	NW 1/4 - 1/2 (0.280 mi.)	I54	133

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### Local Lists of Registered Storage Tanks

TN HIST UST: This database is no longer updated by the agency. It contains records and detail fields that the current UST database does not.

A review of the TN HIST UST list, as provided by EDR, and dated 09/15/2014 has revealed that there are 10 TN HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIRE DEPT	118 ADAMS	NNE 0 - 1/8 (0.003 mi.)	A9	15
MORGAN KEEGAN TOWER	50 NORTH FRONT ST. SUIT	WSW 1/8 - 1/4 (0.134 mi.)	I64	56
HUMPHREYS INVESTMENT CO	22 NORTH 3RD	SSE 1/8 - 1/4 (0.161 mi.)	Q93	94
Lower Elevation	Address	Direction / Distance	Map ID	Page
<b>FLEET SERVICES</b>	160 NORTH MID AMERICA M	N 0 - 1/8 (0.082 mi.)	G26	23
MUD ISLAND	125 NORTH FRONT ST.	NW 0 - 1/8 (0.089 mi.)	H30	29
RIVERSIDE SERVICE CENTER	85 NORTH FRONT	WSW 0 - 1/8 (0.101 mi.)	I35	36
JEFFERSON PARKING PARTNERS	199 JEFFERSON AVENUE	SE 0 - 1/8 (0.123 mi.)	F54	46
ONE MEMPHIS PLACE	200 JEFFERSON AVENUE	SE 0 - 1/8 (0.123 mi.)	F57	52
<b>KIK CUSTOM PRODUCTS INC</b>	1725 SOUTH THIRD ST	NE 1/8 - 1/4 (0.140 mi.)	M68	57
FEDERAL RESERVE BANK OF ST. LO	200 NORTH MAIN ST.	N 1/8 - 1/4 (0.150 mi.)	N85	89

### Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/09/2014 has revealed that there are 23 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
<b>INTERSTATE BLOOD BANK, INC.</b>	119 JEFFERSON AVE	SW 0 - 1/8 (0.038 mi.)	C18	19
<b>JOHNS HARRISON PRINTING CO</b>	45 N THIRD ST	SSE 0 - 1/8 (0.122 mi.)	J52	44
<b>EMDKOTT NELSON &amp; SONS INC</b>	9 NORTH 2ND STREET SUIT	S 1/8 - 1/4 (0.155 mi.)	K98	91
<b>POSTAL INSTANT PRESS</b>	9 N THIRD	SSE 1/8 - 1/4 (0.151 mi.)	C104	101
<b>PRINT SHOP THE</b>	150 MADISON AVE	S 1/8 - 1/4 (0.184 mi.)	R113	106
COLOR CRAFT INC DELAWARE CORP	12 S MAIN ST	SSW 1/8 - 1/4 (0.207 mi.)	S124	114
<b>SHY C D &amp; CO INC</b>	12 S MAIN ST	SSW 1/8 - 1/4 (0.207 mi.)	S125	114
<b>CLARKE INC PRINTERS</b>	19 S SECOND ST	S 1/8 - 1/4 (0.208 mi.)	R126	115
MID-SOUTH ENGRAVING CO., INC.	21 SOUTH SECOND STREET	S 1/8 - 1/4 (0.211 mi.)	R127	116
<b>QUICK PRINT SHOP</b>	26 S SECOND ST	S 1/8 - 1/4 (0.218 mi.)	V129	117
Lower Elevation	Address	Direction / Distance	Map ID	Page
GRACE W R & CO	PO BOX 277	WNW 0 - 1/8 (0.004 mi.)	A10	16
<b>RIVER RECORDS INC</b>	147 JEFFERSON ST STE 40	SSE 0 - 1/8 (0.040 mi.)	D19	20
<b>MEMPHIS BLOOD CENTER</b>	155 JEFFERSON AVE (PO B	SE 0 - 1/8 (0.049 mi.)	D20	21
CALVARY EPISCOPAL CHURCH (OLD	3RD STREET & JEFFERSON	SE 0 - 1/8 (0.086 mi.)	F22	25
<b>SAFETY PRODUCTS INC</b>	60 N THIRD ST	SE 0 - 1/8 (0.095 mi.)	F32	33
<b>U S ARMY CORPS OF ENGINEERS</b>	167 N MID-AMERICA MALL	N 0 - 1/8 (0.108 mi.)	G39	38

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Lower Elevation	Address	Direction / Distance	Map ID	Page
<b>DAILY NEWS PUBLISHING CO THE</b>	138 JEFFERSON AVE	SE 0 - 1/8 (0.113 mi.)	F49	42
<b>SHULTON INC TOILETRIES DIV</b>	1725 S 3RD ST	NE 1/8 - 1/4 (0.140 mi.)	M71	76
BELLSOUTH TELECOMMUNICATIONS-8	201 COURT STREET	SE 1/8 - 1/4 (0.182 mi.)	T106	102
<b>FLEXIBLE TAPE AND LABEL COMPAN</b>	243 JEFFERSON	ESE 1/8 - 1/4 (0.197 mi.)	U120	109
AMERICAN TELEPHONE & TELEGRAPH	231 COURT	SE 1/8 - 1/4 (0.218 mi.)	T131	118
SOUTHERN TOWING COMPANY	#248 COURT	SE 1/8 - 1/4 (0.231 mi.)	Z138	121
<b>TRI-STATE PRESS INC</b>	277 JEFFERSON AVENUE	ESE 1/8 - 1/4 (0.248 mi.)	AB150	130

SCRD DRYCLEANERS: The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

A review of the SCRD DRYCLEANERS list, as provided by EDR, and dated 03/07/2011 has revealed that there is 1 SCRD DRYCLEANERS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MEMPHIS CITY SCHOOLS	285 COURT AVE	SE 1/4 - 1/2 (0.289 mi.)	155	144

### EDR HIGH RISK HISTORICAL RECORDS

#### EDR Exclusive Records

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800s to 1950s to produce a gas that could be distributed and used as fuel. These plants used shale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oil waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there is 1 EDR MGP site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MEMPHIS GASLIGHT CO	N FRONT AND MILL AVE	NNE 1/2 - 1 (0.828 mi.)	164	163

EDR US Hist Auto Stat: EDR has selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past

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sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 53 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SCHNEIDERS SUPPLY HOUSE	103 2ND N	ENE 0 - 1/8 (0.005 mi.)	A13	17
BECK JOEL REPR SHOP	65 MAIN N	SW 0 - 1/8 (0.059 mi.)	C21	22
EDWAY GARAGE PARKING LOT	54 2ND N	S 0 - 1/8 (0.083 mi.)	D27	24
ALLENBERG JULIAN	157 COURT AVE	SSE 1/8 - 1/4 (0.135 mi.)	J65	56
MAJESTIC VICTOR J FILLING	171 2ND N	NNE 1/8 - 1/4 (0.139 mi.)	M67	57
Not reported	141 POPLAR AVE	NNE 1/8 - 1/4 (0.145 mi.)	M74	83
K & L SERVICE CO FILL STA	173 2ND N	NNE 1/8 - 1/4 (0.146 mi.)	M77	84
MASCARI JOS AUTO STORAGE	116 POPLAR AVE	NNE 1/8 - 1/4 (0.147 mi.)	M83	88
NE COR NATL MEM GARAGES INC	26 FRONT N	SW 1/8 - 1/4 (0.157 mi.)	P89	92
STERICK GARAGE	20 3RD N	SSE 1/8 - 1/4 (0.165 mi.)	Q89	100
A BRYANTN ESSO SERVICE STA	232 2ND N	NNE 1/8 - 1/4 (0.229 mi.)	Y137	120

Lower Elevation	Address	Direction / Distance	Map ID	Page
RHEA XW	168 JEFFERSON AVE	SE 0 - 1/8 (0.068 mi.)	D22	22
HAYNES LEWIS P AUTO REPR	67 WASHINGTON AVE	NE 0 - 1/8 (0.078 mi.)	E23	22
JOHNSON & LAUGHEAD SERV STA GA	84 3RD N	ESE 0 - 1/8 (0.080 mi.)	F24	22
DOWNTOWN GULF SERVICE STATION	54 3RD ST N	ESE 0 - 1/8 (0.080 mi.)	F25	23
Not reported	85 N FRONT ST	WSW 0 - 1/8 (0.101 mi.)	I33	34
CARBURETOR SERVICE CO INC	182 WASHINGTON AVE	ENE 0 - 1/8 (0.102 mi.)	E36	37
WILEY MOTOR SERVICE CO	184 WASHINGTON AVE	ENE 0 - 1/8 (0.103 mi.)	E37	37
AUTO PARK CO GAS STA	146 FRONT N	NNW 0 - 1/8 (0.107 mi.)	H40	39
CAMPBELL BROS MOTOR	153 3RD N	ENE 0 - 1/8 (0.107 mi.)	E41	39
THOMAS GARAGE	201 WASHINGTON AVE	ENE 0 - 1/8 (0.110 mi.)	E44	40
MAHONEY JOHN T TIRE	156 3RD N	ENE 0 - 1/8 (0.113 mi.)	E48	42
WHITTEN BROS INC	203 WASHINGTON AVE	ENE 0 - 1/8 (0.114 mi.)	L50	43
KETTLEWELL BROS AUTO REPRS	198 JEFFERSON AVE	SE 0 - 1/8 (0.120 mi.)	F51	43
Not reported	199 JEFFERSON AVE	SE 0 - 1/8 (0.123 mi.)	F53	45
B & W SERVICE STATION	204 JEFFERSON AVE	SE 1/8 - 1/4 (0.130 mi.)	F59	53
ARNETT JOHN T AUTO REPR	168 3RD N	ENE 1/8 - 1/4 (0.134 mi.)	L62	54
AUTHORIZED SIMONIG STA	204 COURT AVE	SSE 1/8 - 1/4 (0.143 mi.)	J72	83
AUDITORIUM I PARKING LOT	81 POPLAR AVE	N 1/8 - 1/4 (0.146 mi.)	N79	84
HOLLEYS UNION	182 3RD ST N	NE 1/8 - 1/4 (0.154 mi.)	O87	91
A CLARIDGE GARAGE	91 PROMENADE ST	WNW 1/8 - 1/4 (0.158 mi.)	90	93
WHITE PAULA FILL STA	185 POPLAR AVE	NE 1/8 - 1/4 (0.159 mi.)	O91	93
MC CRACKEN J E	183 COURT AVE	SE 1/8 - 1/4 (0.162 mi.)	J96	99
HAACK & CRANE AUTO REPRS	185 COURT AVE	SE 1/8 - 1/4 (0.164 mi.)	Q98	99
NICKS SINCLAIR SERVICE	196 3RD ST N	NE 1/8 - 1/4 (0.177 mi.)	O101	100
Not reported	201 COURT AVE	SE 1/8 - 1/4 (0.182 mi.)	T107	104
HERFF MOTOR CO	234 JEFFERSON AVE	ESE 1/8 - 1/4 (0.182 mi.)	U108	104
MEM MOTORCYCLE CO	237 JEFFERSON AVE	ESE 1/8 - 1/4 (0.187 mi.)	U116	108
U S SPRING & FORG	238 JEFFERSON AVE	ESE 1/8 - 1/4 (0.189 mi.)	U119	109
QUALITY AUTO SERVICE OF MEMPHI	244 JEFFERSON AVE	ESE 1/8 - 1/4 (0.199 mi.)	U123	112
PERRY HANSON GIN	253 JEFFERSON AVE	ESE 1/8 - 1/4 (0.214 mi.)	U128	117
YIRBROUGH CABLE SERV	254 FRONT N	N 1/8 - 1/4 (0.222 mi.)	W133	119
DAVENPORT J M	235 COURT AVE	SE 1/8 - 1/4 (0.223 mi.)	J134	120
GREER RALPH D AUTO REPR	258 FRONT N	N 1/8 - 1/4 (0.226 mi.)	W136	120
SOUTHERN TOWING CO SHOP	248 COURT AVE	SE 1/8 - 1/4 (0.231 mi.)	Z139	122
MERRIN JIM CO SERVICE	20 3RD S	S 1/8 - 1/4 (0.234 mi.)	X140	122
NIDHOLS GARAGE	213 MADISON AVE	SSE 1/8 - 1/4 (0.235 mi.)	AX141	122
FISHER L J	267 JEFFERSON AVE	ESE 1/8 - 1/4 (0.238 mi.)	AB143	128

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Lower Elevation	Address	Direction / Distance	Map ID	Page
THIRD STREET GARAGE	22 3RD S	S 1/8 - 1/4 (0.238 mi.)	X144	128
TAYLOR BILL TRANSMISSIONS	85 4TH ST N	ESE 1/8 - 1/4 (0.244 mi.)	AB145	128
A DUNCAN A HARVEY FILLING STA	225 2ND N	NNE 1/8 - 1/4 (0.247 mi.)	Y147	129
COOK J B AUTO & MA	247 POPLAR AVE	ENE 1/8 - 1/4 (0.248 mi.)	AC148	129
A GARNEY JIMMY AUTO REPR	283 JEFFERSON AVE	ESE 1/8 - 1/4 (0.249 mi.)	AB151	131

EDR US Hist Cleaners: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there are 42 EDR US Hist Cleaners sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MEM STEAM LNDRY	86 2ND N	ESE 0 - 1/8 (0.004 mi.)	A11	17
AMEM I STEAM LAUNDRY CLNRES	79 2ND N	SE 0 - 1/8 (0.014 mi.)	A14	17
MEMPHIS STEAM LAUNDRY	80 2ND N	SE 0 - 1/8 (0.014 mi.)	A15	18
DIXIE SERVICE CLUB	146 COURT AVE	S 0 - 1/8 (0.110 mi.)	K45	41
BSMT WILLIAMS BROS CLEANERS	150 COURT AVE	SSE 0 - 1/8 (0.113 mi.)	K47	41
UP 2 DATE CLEANERS INC	147 3RD N	SSE 1/8 - 1/4 (0.130 mi.)	J60	53
SHENDELMAN LAZAR HATTER	157 COURT AVE	SSE 1/8 - 1/4 (0.135 mi.)	J66	57
SPIRO CLEANING CO	127 POPLAR AVE	NNE 1/8 - 1/4 (0.145 mi.)	M75	84
SIMPSON MERLE MRS 2D HD	123 POPLAR AVE	NNE 1/8 - 1/4 (0.145 mi.)	M76	84
GUY LEE LINDY	124 POPLAR BLVD	NNE 1/8 - 1/4 (0.146 mi.)	M78	84
GUY LEE LAUNDRY	124 POPLAR AVE	NNE 1/8 - 1/4 (0.147 mi.)	M81	87
UNIVERSAL INVESTIGATIVE SERV	9 2ND ST N	S 1/8 - 1/4 (0.163 mi.)	R97	99
N Y HATTERS	106 MADISON AVE	SSW 1/8 - 1/4 (0.180 mi.)	S103	101
MODEL SHOE REBUILD CO	109 MADISON AVE	SSW 1/8 - 1/4 (0.181 mi.)	S105	102
BSMT FUTRIA BROS CLOTHES CLNRS	86 MADISON AVE	SW 1/8 - 1/4 (0.182 mi.)	S109	104
WHITEHEAD BROS	146 MADISON AVE	S 1/8 - 1/4 (0.183 mi.)	R110	105
TENN PRESSING CLUB	87 MADISON AVE	SSW 1/8 - 1/4 (0.183 mi.)	S111	105
Not reported	137 MADISON AVE	S 1/8 - 1/4 (0.183 mi.)	R112	105
CLEANATORIUM SYSTEM	141 MADISON AVE	S 1/8 - 1/4 (0.184 mi.)	R114	107
AMODEL HATTERS INS	145 MADISON AVE	S 1/8 - 1/4 (0.185 mi.)	R115	107
MADISON CLEANERS	164 MADISON AVE	S 1/8 - 1/4 (0.188 mi.)	Q117	108
TENN CLEANERS & BAT	166 MADISON AVE	S 1/8 - 1/4 (0.188 mi.)	Q118	108
Not reported	26 S 2ND ST	S 1/8 - 1/4 (0.218 mi.)	V130	118
K & P PRESSING SHOP	25 2ND S	S 1/8 - 1/4 (0.218 mi.)	V132	119

Lower Elevation	Address	Direction / Distance	Map ID	Page
GEORGES PLACE HATTERS	106 MAIN N	NW 0 - 1/8 (0.005 mi.)	A12	17
CUSTOM CLEANERS	126 MAIN N	NNW 0 - 1/8 (0.024 mi.)	B16	18
HOWARD CLEANERS INC	80 ADAMS AVE	NW 0 - 1/8 (0.037 mi.)	B17	18
MADISON DRY CLEANERS	54 3RD N	SE 0 - 1/8 (0.104 mi.)	F38	38
MEM HAT CO	52 3RD N	SE 0 - 1/8 (0.108 mi.)	J42	40
JONES ROBT CUSTOM HATTERS	55 3RD N	SE 0 - 1/8 (0.108 mi.)	J43	40
KRAUS CLNRS BR	48 3RD N	SE 0 - 1/8 (0.112 mi.)	J46	41
WYATT J T	169 3RD N	ENE 1/8 - 1/4 (0.134 mi.)	L61	54

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Lower Elevation	Address	Direction / Distance	Map ID	Page
SIENDELMAN LAZAR HATTER	165 COURT AVE	SSE 1/8 - 1/4 (0.143 mi.)	J73	83
AUDITORIUM CLEANERS	N 1/8 - 1/4 (0.147 mi.)	N 1/8 - 1/4 (0.147 mi.)	N82	88
VEAVERS LAUNDRY & CLEAN	169 POPLAR AVE	NE 1/8 - 1/4 (0.151 mi.)	M86	91
A MAKRIS THE HATTER	204 MAIN N	N 1/8 - 1/4 (0.160 mi.)	N92	94
JU SING	187 COURT AVE	SE 1/8 - 1/4 (0.166 mi.)	O100	100
BANNER LAUNDRY	196 3RD N	NE 1/8 - 1/4 (0.177 mi.)	O102	100
LAFFERTY RUG & CARPET	243 JEFFERSON AVE	ESE 1/8 - 1/4 (0.197 mi.)	U121	110
HARRIS JOEL CLOTHES CLNR	16 3RD S	S 1/8 - 1/4 (0.226 mi.)	X135	120
COLE JAS DCCO PRSR	232 MAIN N	NNE 1/8 - 1/4 (0.245 mi.)	146	129
STROUDS MR EXCLUSIVE RUG	247 POPLAR AVE	ENE 1/8 - 1/4 (0.248 mi.)	AC149	130

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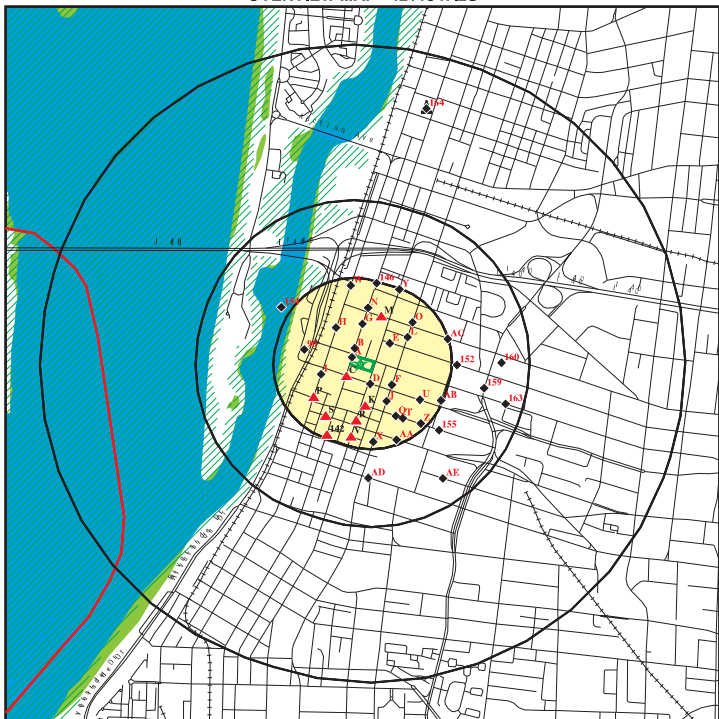
**EXECUTIVE SUMMARY**

Due to poor or inadequate address information, the following sites were not mapped. Count: 10 records.

Site Name	Database(s)
CYPRESS CREEK	CERC-NFRAP, TN SHWS
#16 RED OPEN FIELD SES-16	CERC-NFRAP
NORTH 2ND STREET INCINERATOR	TN SWF/LF
SALVATION ARMY	TN LUST
JACKSON/BELLEVUE EXON SHOP	TN LUST
TENNESSEE DEPARTMENT OF TRANSPORTA	TN LUST
STAR ENTERPRISE	TN LUST, TN LUST
FORD/GE RAVINE	TN VCP
PLAYHOUSE ON THE SQUARE	TN VCP
MAIN TO MAIN MULTIMODAL CONNECTOR	TN NPDES

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OVERVIEW MAP - 4211947.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

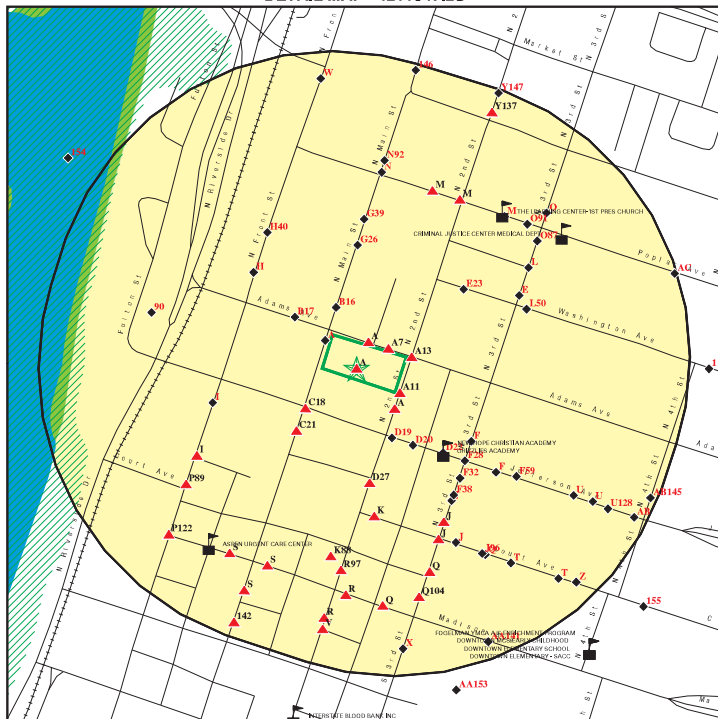
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 100 North Main  
 ADDRESS: 100 N Main St  
 Memphis TN 38103  
 LAT/LONG: 35.1477 / 90.0512

CLIENT: Deca Real Estate Advisors  
 CONTACT: Michael Cohen  
 INQUIRY #: 4211947.2s  
 DATE: February 19, 2015 1:32 pm

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DETAIL MAP - 4211947.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 100 North Main  
 ADDRESS: 100 N Main St  
 Memphis TN 38103  
 LAT/LONG: 35.1477 / 90.0512

CLIENT: Deca Real Estate Advisors  
 CONTACT: Michael Cohen  
 INQUIRY #: 4211947.2s  
 DATE: February 19, 2015 1:34 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<i>Federal NPL site list</i>								
NPL	1,000		0	0	0	0	NR	0
Proposed NPL	1,000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1,000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP	0.500		0	1	0	NR	NR	1
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1,000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LOG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		1	0	NR	NR	NR	1
RCRA-CESQG	0.250		0	1	NR	NR	NR	1
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
TN SHWS	1,000		0	0	0	0	NR	0
AR SHWS	1,000		0	0	0	0	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
TN SWF/LF	0.500		0	0	0	NR	NR	0
AR SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
TN LUST	0.500	1	3	3	6	NR	NR	13
TN LUST TRUST	0.500		0	0	3	NR	NR	3

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
TN HIST_LUST CO	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
TN UST	0.250	1	6	4	NR	NR	NR	11
AR UST	0.250		0	0	NR	NR	NR	0
TN AST	0.250		0	0	NR	NR	NR	0
AR AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
TN ENG CONTROLS	0.500		0	0	0	NR	NR	0
AR ENG CONTROLS	0.500		0	0	0	NR	NR	0
TN INST CONTROL	0.500		0	0	1	NR	NR	1
AR INST CONTROL	0.500		0	0	0	NR	NR	0
<i>State and tribal voluntary cleanup sites</i>								
TN SRP	0.500		0	0	0	NR	NR	0
TN VCP	0.500		0	0	0	NR	NR	0
AR VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<i>State and tribal Brownfields sites</i>								
TN BROWNFIELDS	0.500		0	0	0	NR	NR	0
AR BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	2	1	NR	NR	3
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
TN SWRCY	0.500		0	0	0	NR	NR	0
AR SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US CDL	TP		NR	NR	NR	NR	NR	0
TN DEL SHWS	1,000		0	0	0	0	NR	0
TN PRIORITYCLEANERS	0.500		0	0	0	NR	NR	0
TN CDL	TP		NR	NR	NR	NR	NR	0
AR CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
<i>Local Lists of Registered Storage Tanks</i>								
TN HIST UST	0.250	1	6	4	NR	NR	NR	11

**MAP FINDINGS SUMMARY**

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>Local Land Records</b>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
TN LIENS	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
TN SPILLS	TP		NR	NR	NR	NR	NR	0
AR SPILLS	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		9	14	NR	NR	NR	23
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1,000		0	0	0	0	0	0
FLUIDS	1,000		0	0	0	0	0	0
CONSENT	1,000		0	0	0	0	0	0
ROD	1,000		0	0	0	0	0	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PAIDS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
NY MANIFEST	0.250	1	0	0	NR	NR	NR	1
TN DRYCLEANERS	0.250		0	0	NR	NR	NR	0
TN NPDES	TP		NR	NR	NR	NR	NR	0
TN AIRS	TP		NR	NR	NR	NR	NR	0
AR AIRS	TP		NR	NR	NR	NR	NR	0
TN LEAD	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1,000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	1	NR	NR	1
US AIRS	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0

**EDR HIGH RISK HISTORICAL RECORDS**

**EDR Exclusive Records**

EDR MGP	1,000		0	0	0	1	NR	1
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**MAP FINDINGS SUMMARY**

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR US Hist Auto Stat	0.250		17	36	NR	NR	NR	53
EDR US Hist Cleaners	0.250		12	30	NR	NR	NR	42
<b>EDR RECOVERED GOVERNMENT ARCHIVES</b>								
<b>Exclusive Recovered Govt. Archives</b>								
TN RGA LF	TP		NR	NR	NR	NR	NR	0
TN RGA LUST	TP	1	NR	NR	NR	NR	NR	1
AR RGA LUST	TP		NR	NR	NR	NR	NR	0
AR RGA LF	TP		NR	NR	NR	NR	NR	0

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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<b>A1</b>	<b>Target Property</b>	<b>MCI TELECOMMUNICATIONS CORP</b> 100 N MAIN STREET MEMPHIS, TN				<b>TN RGA LUST</b>	<b>S11480143</b> N/A
<b>Actual:</b>	<b>259 ft.</b>	Site 1 of 15 in cluster A RGA LUST: 2012 MCI TELECOMMUNICATIONS CORP 100 N MAIN STREET 2011 MCI TELECOMMUNICATIONS CORP 100 N MAIN STREET 2010 MCI TELECOMMUNICATIONS CORP 100 N MAIN STREET 2009 MCI TELECOMMUNICATIONS CORP 100 N MAIN STREET 2008 MCI TELECOMMUNICATIONS CORP 100 N MAIN STREET 2007 MCI TELECOMMUNICATIONS CORP 100 N MAIN STREET 2006 MCI TELECOMMUNICATIONS CORP 100 N MAIN STREET 2005 MCI TELECOMMUNICATIONS CORP 100 N MAIN STREET					

<b>A2</b>	<b>Target Property</b>	<b>MCI TELECOMMUNICATIONS CORP</b> 100 NORTH MAIN ST. MEMPHIS, TN 38103				<b>TN UST</b>	<b>U004174569</b> N/A
<b>Actual:</b>	<b>259 ft.</b>	Site 2 of 15 in cluster A UST: Facility ID: 9792144 Facility Description: Not Listed Owner ID: 301996 Owner Name: MCI COMMUNICATIONS SERVICES, INC. Owner Address: 3011 HUNGARY SPRINGS ROAD Owner Address 2: 2ND FLOOR Owner City, St, Zip: RICHMOND, VA 23228 Owner Description: Private Tank Number: 1 Tank ID: 53449 Tank Other Material: Not reported RSN Red Tagged: Not reported Fac Red Tagged: Not reported Replacement: Not reported Compartment ID: 54264 Compartment Letter: A Compartment Status: Permanently Out of Use Compartment Capacity: 2000 Small Delivery: Not reported Tank RD: NotListed Substance Description: Diesel Date Installed: 08/30/1996 Date Last Used: 10/21/1996 Date Closed: Not reported Regulated: Regulated Tank Material Desc: Fiberglass Reinforced Plastic Tank Mod Desc: Lined Interior Tank Emergency: Not reported Tank No Fee: Y					

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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<b>A3</b>	<b>Target Property</b>	<b>MCI TELECOMMUNICATIONS CORP (Continued)</b> 100 N MAIN STREET MEMPHIS, TN 38103				<b>TN LUST</b>	<b>S107465349</b> N/A
<b>Actual:</b>	<b>259 ft.</b>	Site 3 of 15 in cluster A LUST: Region: STATE Facility ID: 9792144 Current Status: 1a Completed Tank Closure Product Released: Discovery Date: Not reported How Discovered: Cause: Case Manager: David Groce Case Description: closed Section: FO Priority: Owner ID: 0 Company Name: MCI TELECOMMUNICATIO Owner Address: 240 S HOLLYWOOD STR Owner City: MEMPHIS Owner State: TN Owner Zip Code: 38104 Owner Telephone: (901) 579-2169 Owner Address 2: fadd2: Not reported Site Number: 1 Contact: Not reported Cas Contact: Contact Title: Consultant Address 1: Consultant Address 2: Contact City: Contact State: Contact Phone: Contact zip: Contact cac: Region: STATE Facility ID: 9792144 Current Status: 1a Completed Tank Closure Product Released: Discovery Date: Not reported How Discovered: Cause: Case Manager: David Groce					



MAP FINDINGS

MCI TELECOMMUNICATIONS CORP (Continued)

S107465349

Case Description: Closed  
 Section: FO  
 Priority: -  
 Owner ID: 0  
 Company Name: MCI TELECOMMUNICATIO  
 Owner Address: 240 S HOLLYWOOD STR  
 Owner City: MEMPHIS  
 Owner State: TN  
 Owner Zip Code: 38104  
 Owner Telephone: (901) 579-2169  
 Owner Address 2: -  
 fadd2: Not reported  
 Site Number: 2  
 Contact: Not reported  
 Cac Contact: -  
 Contact Title: -  
 Consultant Address 1: -  
 Consultant Address 2: -  
 Contact City: -  
 Contact State: -  
 Contact Phone: -  
 Contact zip: -  
 Contact cac: -

A4 Target Property W R GRACE & COMPANY 100 NORTH MAIN BLDG MEMPHIS, TN 38103

NY MANIFEST 1009247021 N/A

Site 4 of 15 in cluster A

Actual: 259 ft. NY MANIFEST: EPA ID: TND230055006 Country: USA  
 Mailing Info: Name: W R GRACE & COMPANY Contact: J DAVID TUCKER Address: 100 NORTH MAIN BLDG City/State/Zip: MEMPHIS, TN 38103 Country: USA Phone: 901-522-2000

Manifest:

Document ID: NYA8158113  
 Manifest Status: Completed copy  
 Trans1 State ID: Not reported  
 Trans2 State ID: Not reported  
 Generator Ship Date: 12/18/1991  
 Trans1 Recv Date: 12/18/1991  
 Trans2 Recv Date: / /  
 TSD Site Recv Date: 12/19/1991  
 Part A Recv Date: 01/10/1992  
 Part B Recv Date: 01/10/1992  
 Generator EPA ID: TND230055006  
 Trans1 EPA ID: OHD068913409  
 Trans2 EPA ID: Not reported  
 TSDF ID: NYD049836679

MAP FINDINGS

W R GRACE & COMPANY (Continued)

1009247021

Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES  
 Quantity: 09535  
 Units: K - Kilograms (2.2 pounds)  
 Number of Containers: 001  
 Container Type: CM - Metal boxes, cases, roll-offs  
 Handling Method: L Landfill.  
 Specific Gravity: 100  
 Year: 1991

Document ID: NYA8158104  
 Manifest Status: Completed copy  
 Trans1 State ID: Not reported  
 Trans2 State ID: Not reported  
 Generator Ship Date: 12/18/1991  
 Trans1 Recv Date: 12/18/1991  
 Trans2 Recv Date: / /  
 TSD Site Recv Date: 12/19/1991  
 Part A Recv Date: 01/10/1992  
 Part B Recv Date: 01/08/1992  
 Generator EPA ID: TND230055006  
 Trans1 EPA ID: OHD068913409  
 Trans2 EPA ID: Not reported  
 TSDF ID: NYD049836679  
 Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES  
 Quantity: 12728  
 Units: K - Kilograms (2.2 pounds)  
 Number of Containers: 001  
 Container Type: CM - Metal boxes, cases, roll-offs  
 Handling Method: L Landfill.  
 Specific Gravity: 100  
 Year: 1991

A5 Target Property MCI TELECOMMUNICATIONS CORP 100 NORTH MAIN ST. MEMPHIS, TN 38103

TN HIST UST U003618843 N/A

Site 5 of 15 in cluster A

Actual: 259 ft. HIST UST: Facility ID: 9-792144 Facility Description: Not Listed Owner ID: 6178 Owner Name: MCI WORLDCOM Owner Address: 2400 North Glenville Drive Attn: David Leland Owner City,St,Zip: Richardson, TX 75082 Owner Telephone: 972-729-5441 Owner Description: Private

Tank ID: 1  
 Tank Status: Permanently Out of Use  
 Tank Capacity: 2000  
 Tank Contents: Diesel  
 Tank Material: Fiberglass Reinforced Plastic  
 Tank 2ndary Trait: Lined Interior  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False

MAP FINDINGS

MCI TELECOMMUNICATIONS CORP (Continued)

U003618843

Tank ATG: False  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: 08/30/1986  
 Tank Leak Detection Listed: True  
 Pipe Material: Galvanized Steel  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

A6 Target Property GRACE W R & CO 100 NORTH MAIN ST MEMPHIS, TN 38103

FINDS 1016299972 N/A

Site 6 of 15 in cluster A

Actual: 259 ft. FINDS: Registry ID: 110011909523  
 Environmental Interest/Information System  
 NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.  
 RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MAP FINDINGS

A7 ENE - 1/B 0.003 mi. 15 ft. CITY OF MEMPHIS - FORMER POLICE HQ BLDG 128 ADAMS AVE MEMPHIS, TN 38103

RCRA-SQG 1007116549 TNR000017566

Site 7 of 15 in cluster A

Relative: Higher  
 Actual: 259 ft. RCRA-SQG: Date form received by agency: 11/24/2003 Facility name: CITY OF MEMPHIS - FORMER POLICE HQ BLDG Facility address: 128 ADAMS AVE MEMPHIS, TN 38103 EPA ID: TNR000017566 Mailing address: N MAIN ST ROOM 568 MEMPHIS, TN 38103 Contact: RODNEY E EDER Contact address: N MAIN ST ROOM 568 MEMPHIS, TN 38103 Contact country: US Contact telephone: (901) 576-6326 Contact email: Not reported EPA Region: 04 Land type: Private Classification: Small Small Quantity Generator Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:  
 Owner/operator name: CITY OF MEMPHIS  
 Owner/operator address: N MAIN ST ROOM 568 MEMPHIS, TN 38103  
 Owner/operator country: US  
 Owner/operator telephone: (901) 576-6326  
 Legal status: Municipal  
 Owner/Operator Type: Owner  
 Owner/Op start date: 11/24/2003  
 Owner/Op end date: Not reported  
 Owner/operator name: CITY OF MEMPHIS - GENERAL SERVICES  
 Owner/operator address: N MAIN ST ROOM 568 MEMPHIS, TN 38103  
 Owner/operator country: US  
 Owner/operator telephone: (901) 576-6326  
 Legal status: Municipal  
 Owner/Operator Type: Operator  
 Owner/Op start date: 11/24/2003  
 Owner/Op end date: Not reported

Handler Activities Summary:  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No

CITY OF MEMPHIS - FORMER POLICE HQ BLDG (Continued)

1007116549

On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Hazardous Waste Summary:  
 Waste code: D008  
 Waste name: LEAD  
 Waste code: U103  
 Waste name: DIMETHYL SULFATE

Violation Status: No violations found

Evaluation Action Summary:  
 Evaluation date: 08/29/2013  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

A8 FIRE DEPT TN UST U004174120  
 NNE 118 ADAMS 118 ADAMS  
 < 1/8 MEMPHIS, TN 38103 MEMPHIS, TN 38103  
 0.003 mi. N/A  
 17 ft. Site 9 of 15 in cluster A

Relative: UST:  
 Higher Facility ID: 9791111  
 Facility Description: Not Listed  
 Actual: Owner ID: 308910  
 259 ft. Owner Name: CITY OF MEMPHIS/VEHICLE SERVICE CENTER  
 Owner Address: ATTN: ANNETTE MACKLIN  
 Owner Address 2: 671 ST. JUDE PLACE  
 Owner City, St, Zip: MEMPHIS, TN 38105  
 Owner Description: Local Government  
 Tank Number: 1  
 Tank ID: 50244  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 50986  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 500  
 Small Delivery: Not reported  
 Tank RD: NoListed  
 Substance Description: Gasoline  
 Date Installed: 01/14/1961  
 Date Last Used: 11/08/1989  
 Date Closed: Not reported

FIRE DEPT (Continued)

U004174120

Regulated: Regulated  
 Tank Material Desc: Asphalt Coated or Bare Steel  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1990-06-18 00:00:00  
 Pipe Material Desc: Bare Steel  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

A9 FIRE DEPT TN HIST UST U003618439  
 NNE 118 ADAMS 118 ADAMS  
 < 1/8 MEMPHIS, TN 38103 MEMPHIS, TN 38103  
 0.003 mi. N/A  
 17 ft. Site 9 of 15 in cluster A

Relative: HIST UST:  
 Higher Facility ID: 9-791111  
 Facility Description: Not Listed  
 Actual: Owner ID: 1781  
 259 ft. Owner Name: CITY OF MEMPHIS/PROPERTY MAINT.  
 Owner Address: 281 East Pkwy, North  
 Owner City, St, Zip: Memphis, TN 38112  
 Owner Telephone: (901) 272-1360  
 Owner Description: Local Government  
 Tank ID: 1  
 Tank Status: Permanently Out of Use  
 Tank Capacity: 500  
 Tank Contents: Gasoline  
 Tank Material: Asphalt Coated or Bare Steel  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: False  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: 01/14/1961  
 Tank Leak Detection Listed: True  
 Pipe Material: Bare Steel  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False

FIRE DEPT (Continued)

U003618439

Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

A10 GRACE W R & CO RCRA NonGen / NLR 1000883232  
 WNW PO BOX 277 PO BOX 277 TND044877918  
 < 1/8 MEMPHIS, TN 38101 MEMPHIS, TN 38101  
 0.004 mi. N/A  
 19 ft. Site 10 of 15 in cluster A

Relative: RCRA NonGen / NLR:  
 Lower Date form received by agency: 11/18/1980  
 258 ft. Facility name: GRACE W R & CO  
 Facility address: PO BOX 277  
 EPA ID: TND044877918  
 Contact: W R GRACE  
 Contact address: PO BOX 277  
 MEMPHIS, TN 38101  
 Contact country: US  
 Contact telephone: (901) 522-2070  
 Contact email: Not reported  
 EPA Region: 04  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Violation Status: No violations found

A11 MEM STEAM LNDRY EDR US Hist Cleaners 1014147621  
 ESE 86 2ND N 86 2ND N  
 < 1/8 MEMPHIS, TN MEMPHIS, TN  
 0.004 mi. N/A  
 23 ft. Site 11 of 15 in cluster A

Relative: EDR Historical Cleaners:  
 Higher Name: MEM STEAM LNDRY  
 Year: 1921  
 Actual: Type: LAUNDRIES  
 260 ft. Name: MEM STEAM LNDRY  
 Year: 1926  
 Type: LAUNDRIES

A12 GEORGES PLACE HATTERS EDR US Hist Cleaners 1014153768  
 NW 106 MAIN N 106 MAIN N  
 < 1/8 MEMPHIS, TN MEMPHIS, TN  
 0.005 mi. N/A  
 25 ft. Site 12 of 15 in cluster A

Relative: EDR Historical Cleaners:  
 Lower Name: GEORGES PLACE HATTERS  
 Year: 1932  
 Actual: Type: HAT CLEANERS AND BLOCKERS  
 257 ft.

A13 SCHNEIDERS SUPPLY HOUSE EDR US Hist Auto Stat 1014168552  
 ENE 103 2ND N 103 2ND N  
 < 1/8 MEMPHIS, TN MEMPHIS, TN  
 0.005 mi. N/A  
 26 ft. Site 13 of 15 in cluster A

Relative: EDR Historical Auto Stations:  
 Higher Name: SCHNEIDERS SUPPLY HOUSE  
 Year: 1938  
 Actual: Type: REPAIR SHOPS  
 259 ft.

A14 AMEM I STEAM LAUNDRY CLNRES EDR US Hist Cleaners 1014150872  
 SE 79 2ND N 79 2ND N  
 < 1/8 MEMPHIS, TN MEMPHIS, TN  
 0.014 mi. N/A  
 75 ft. Site 14 of 15 in cluster A

Relative: EDR Historical Cleaners:  
 Higher Name: AMEM I STEAM LAUNDRY CLNRES  
 Year: 1938  
 Actual: Type: CLEANERS AND DYERS  
 259 ft. Name: AMEM I STEAM LAUNDRY CLNRES  
 Year: 1938  
 Type: CLOTHES PRESSERS AND CLEANERS  
 Name: MEM STEAM LNDRY  
 Year: 1948  
 Type: CLOTHES PRESSERS AND CLEANERS  
 Name: MFS STEAM LAUNDRY

**AMEM I STEAM LAUNDRY CLNRES (Continued)** 1014150872  
 Year: 1953  
 Type: CLEANERS AND DYERS

**A15 SE** **MEMPHIS STEAM LAUNDRY** **EDR US Hist Cleaners** **1014149854**  
 80 2ND N MEMPHIS, TN N/A  
 < 1/8 0.014 mi. Site 15 of 15 in cluster A  
 75 ft. EDR Historical Cleaners:  
**Relative:** Name: MEMPHIS STEAM LAUNDRY  
**Higher:** Year: 1958  
 Type: LAUNDRIES  
**Actual:** 259 ft.

**B16 NNW** **CUSTOM CLEANERS** **EDR US Hist Cleaners** **1014151310**  
 126 MAIN N MEMPHIS, TN N/A  
 < 1/8 0.024 mi. Site 1 of 2 in cluster B  
 128 ft. EDR Historical Cleaners:  
**Relative:** Name: CUSTOM CLEANERS  
**Lower:** Year: 1932  
 Type: CLOTHES PRESSERS AND CLEANERS  
 Name: CUSTOM CLEANERS  
 Year: 1938  
 Type: CLOTHES PRESSERS AND CLEANERS  
 Name: CUSTOM CLEANERS  
 Year: 1943  
 Type: CLOTHES PRESSERS AND CLEANERS  
 Name: RICHARDSON CLEANERS BR  
 Year: 1953  
 Type: CLEANERS AND DYERS  
**Actual:** 257 ft.

**B17 NW** **HOWARD CLEANERS INC** **EDR US Hist Cleaners** **1014156043**  
 80 ADAMS AVE MEMPHIS, TN N/A  
 < 1/8 0.037 mi. Site 2 of 2 in cluster B  
 193 ft. EDR Historical Cleaners:  
**Relative:** Name: HOWARD CLEANERS INC  
**Lower:** Year: 1932  
 Type: LAUNDRIES  
**Actual:** 256 ft.

**C18 SW** **INTERSTATE BLOOD BANK, INC.** **RCRA NonGen / NLR** **1000918976**  
 119 JEFFERSON AVE MEMPHIS, TN 38103 **FINDS** **TND990651655**  
 < 1/8 0.038 mi. Site 1 of 2 in cluster C  
 200 ft.

**Relative:** RCRA NonGen / NLR:  
**Higher:** Date form received by agency: 01/16/1981  
 Facility name: INTERSTATE BLOOD BANK, INC.  
**Actual:** Facility address: 119 JEFFERSON AVE  
 261 ft. MEMPHIS, TN 38103  
 EPA ID: TND990651655  
 Mailing address: JEFFERSON AVE  
 MEMPHIS, TN 38103  
 Contact: INTERSTATE BLOOD  
 119 JEFFERSON AVE  
 MEMPHIS, TN 38103  
 Contact address:  
 Contact country: US  
 Contact telephone: (615) 555-1212  
 Contact email: Not reported  
 EPA Region: 04  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

**Handler Activities Summary:**  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 Used oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

**Violation Status:** No violations found

**FINDS:**  
 Registry ID: 110004999770

**Environmental Interest/Information System**  
 RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**D19 SSE** **RIVER RECORDS INC** **RCRA NonGen / NLR** **1000917259**  
 147 JEFFERSON ST STE 407 MEMPHIS, TN 38103 **FINDS** **TND063947303**  
 < 1/8 0.040 mi. Site 1 of 4 in cluster D  
 212 ft.

**Relative:** RCRA NonGen / NLR:  
**Lower:** Date form received by agency: 11/19/1980  
 Facility name: RIVER RECORDS INC  
**Actual:** Facility address: 147 JEFFERSON ST STE 407  
 258 ft. MEMPHIS, TN 38103  
 EPA ID: TND063947303  
 Mailing address: JEFFERSON ST STE 407  
 MEMPHIS, TN 38103  
 Contact: RIVER RECORDS  
 Contact address: 147 JEFFERSON ST STE 407  
 MEMPHIS, TN 38103  
 Contact country: US  
 Contact telephone: (615) 555-1212  
 Contact email: Not reported  
 EPA Region: 04  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

**Handler Activities Summary:**  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 Used oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

**Violation Status:** No violations found

**FINDS:**  
 Registry ID: 110004972067

**Environmental Interest/Information System**  
 RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**D20 SE** **MEMPHIS BLOOD CENTER** **RCRA NonGen / NLR** **1000919079**  
 155 JEFFERSON AVE (PO BOX 3823 MEMPHIS, TN 38103 **FINDS** **TND990652943**  
 < 1/8 0.049 mi. Site 2 of 4 in cluster D  
 259 ft.

**Relative:** RCRA NonGen / NLR:  
**Lower:** Date form received by agency: 12/29/1980  
 Facility name: MEMPHIS BLOOD CENTER  
**Actual:** Facility address: 155 JEFFERSON AVE (PO BOX 3823  
 256 ft. MEMPHIS, TN 38103  
 EPA ID: TND990652943  
 Mailing address: JEFFERSON AVE (PO BOX 3823  
 MEMPHIS, TN 38103  
 Contact: MEMPHIS BLOOD  
 Contact address: 155 JEFFERSON AVE (PO BOX 3823  
 MEMPHIS, TN 38103  
 Contact country: US  
 Contact telephone: (615) 555-1212  
 Contact email: Not reported  
 EPA Region: 04  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

**Handler Activities Summary:**  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 Used oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

**Violation Status:** No violations found

**FINDS:**  
 Registry ID: 110008130110

**Environmental Interest/Information System**  
 RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**C21** BECK JOEL REPR SHOP EDR US Hist Auto Stat 1014188169  
 SW 65 MAIN N N/A  
 < 1/8 MEMPHIS, TN  
 0.059 mi.  
 312 ft. Site 2 of 2 in cluster C  
**Relative:** EDR Historical Auto Stations:  
**Higher** Name: ABECK JOEL REPAIR SHOP  
 Year: 1958  
 Actual: Type: REPAIR SHOPS  
 260 ft. Name: BECK JOEL REPR SHOP  
 Year: 1963  
 Type: REPAIR SHOPS

**D22** RHEA XW EDR US Hist Auto Stat 1014163443  
 SE 168 JEFFERSON AVE N/A  
 < 1/8 MEMPHIS, TN  
 0.068 mi.  
 360 ft. Site 3 of 4 in cluster D  
**Relative:** EDR Historical Auto Stations:  
**Lower** Name: RHEA XW  
 Year: 1921  
 Actual: Type: AUTOMOBILE REPAIRS  
 251 ft.

**E23** HAYNES LEWIS P AUTO REPR EDR US Hist Auto Stat 1014171616  
 NE 67 WASHINGTON AVE N/A  
 < 1/8 MEMPHIS, TN  
 0.078 mi.  
 413 ft. Site 1 of 6 in cluster E  
**Relative:** EDR Historical Auto Stations:  
**Lower** Name: HAYNES LEWIS P AUTO REPR  
 Year: 1958  
 Actual: Type: AUTOMOBILE REPAIRING  
 257 ft.

**F24** JOHNSON & LAUGHEAD SERV STA GAS STA EDR US Hist Auto Stat 1014183420  
 SE 84 3RD N N/A  
 < 1/8 MEMPHIS, TN  
 0.080 mi.  
 422 ft. Site 1 of 14 in cluster F  
**Relative:** EDR Historical Auto Stations:  
**Lower** Name: A JOHNSON & LAUGHEAD SERV  
 Year: 1958  
 Actual: Type: GASOLINE STATIONS  
 251 ft. Name: JOHNSON & LAUGHEAD SERV STA GAS STA  
 Year: 1963  
 Type: GASOLINE STATIONS

**F25** DOWNTOWN GULF SERVICE STATION EDR US Hist Auto Stat 1014171272  
 SE 84 3RD ST N N/A  
 < 1/8 MEMPHIS, TN 38103  
 0.080 mi.  
 422 ft. Site 2 of 14 in cluster F  
**Relative:** EDR Historical Auto Stations:  
**Lower** Name: DOWNTOWN GULF SERVICE STATION  
 Year: 1968  
 Actual: Type: GASOLINE STATIONS  
 251 ft. Name: DOWNTOWN GULF SERVICE STATION  
 Year: 1973  
 Type: GASOLINE STATIONS

**G26** FLEET SERVICES TN UST U002019013  
 North 160 NORTH MID AMERICA MALL, ROOM 560 TN HIST UST N/A  
 < 1/8 MEMPHIS, TN 38103  
 0.082 mi.  
 433 ft. Site 1 of 2 in cluster G  
**Relative:** UST:  
**Lower** Facility ID: 9792157  
 Facility Description: Local Government  
 Owner ID: 309046  
 Owner Name: SHELLEY COUNTY FLEET SERVICES  
 Owner Address: ATTN: JIM SUTHERLIN  
 Owner Address 2: 6200 HALEY ROAD  
 Owner City,St,Zip: MEMPHIS, TN 38134  
 Owner Description: Local Government

Tank Number: 1  
 Tank ID: 53559  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: N  
 Replacement: Not reported  
 Compartment ID: 54379  
 Compartment Letter: A  
 Compartment Status: Currently In Use  
 Compartment Capacity: 6000  
 Small Delivery: Not reported  
 Tank RD: NotListed  
 Substance Description: Diesel  
 Date Installed: 08/28/1964  
 Date Last Used: Not reported  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Cathodically Protected Steel Stp3  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fuse: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: Y  
 Spill Device Installed: Y  
 Date Removed From Ground: Not reported  
 Pipe Material Desc: Unknown  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N

**FLEET SERVICES (Continued)** U002019013  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported  
**HIST UST:**  
 Facility ID: 9-792157  
 Facility Description: Not Listed  
 Owner ID: 8301  
 Owner Name: SHELLEY COUNTY FLEET SERVICES  
 Owner Address: 6200 Haley Attn: Jim Sutherlin  
 Owner City,St,Zip: Memphis, TN 38134  
 Owner Telephone: (901) 387-5770  
 Owner Description: Local Government  
 Tank ID: 1  
**Tank Status:** Currently in Use  
 Tank Capacity: 6000  
 Tank Contents: Diesel  
 Tank Material: Cathodically Protected Steel  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: False  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: True  
 Spill Installed: True  
 Cathodic Protection: True  
 Date Installed: 08/28/1964  
 Tank Leak Detection Listed: True  
 Pipe Material: Unknown  
 Pipe Other Material: Cathodically Protected  
 Pipe Type: Safe Suction  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe DbI Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

**D27** EDWAY GARAGE PARKING LOT EDR US Hist Auto Stat 1014194669  
 South 54 2ND N N/A  
 < 1/8 MEMPHIS, TN  
 0.083 mi.  
 436 ft. Site 4 of 4 in cluster D  
**Relative:** EDR Historical Auto Stations:  
**Higher** Name: EDWAY GARAGE PARKING LOT  
 Year: 1958  
 Actual: Type: AUTOMOBILE GARAGES  
 260 ft.

**F28** CALVARY EPISCOPAL CHURCH (OLD FEDERAL RE RCRA NonGen / NLR 1001233732  
 SE 3RD STREET & JEFFERSON TNR000006734  
 < 1/8 MEMPHIS, TN 38103  
 0.086 mi.  
 455 ft. Site 3 of 14 in cluster F  
**Relative:** RCRA NonGen / NLR:  
**Lower** Date form received by agency:02/19/2004  
 Facility name: CALVARY EPISCOPAL CHURCH (OLD FEDERAL RE  
 Facility address: 3RD STREET & JEFFERSON  
 Memphis, TN 38103  
 Actual: TNR000006734  
 250 ft. EPA ID:  
 Mailing address:  
 NORTH SECOND STREET  
 MEMPHIS, TN 38103  
 Contact:  
 BARRY BURTON  
 Contact address:  
 3RD STREET & JEFFERSON  
 MEMPHIS, TN 38103  
 Contact country:  
 US  
 Contact telephone:  
 (901) 624-6555  
 Contact email:  
 Not reported  
 EPA Region:  
 04  
 Classification:  
 Non-Generator  
 Description:  
 Handler: Non-Generators do not presently generate hazardous waste  
**Handler Activities Summary:**  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 Used oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No  
**Historical Generators:**  
 Date form received by agency:03/02/1999  
 Site name: CALVARY EPISCOPAL CHURCH (OLD FEDERAL RE  
 Classification:  
 Not a generator, verified  
 Violation Status:  
 No violations found

**H29** MUD ISLAND TN UST U004174100  
 NW 125 NORTH FRONT ST. N/A  
 < 1/8 MEMPHIS, TN 38103  
 0.089 mi.  
 468 ft. Site 1 of 4 in cluster H  
**Relative:** UST:  
**Lower** Facility ID: 9791059  
 Facility Description: Not Listed  
 Owner ID: 308910  
 Owner Name: CITY OF MEMPHIS/VEHICLE SERVICE CENTER  
 Owner Address: ATTN: RUSSELL HEASTON



MUD ISLAND (Continued)

U004174100

Owner Address 2: 671 ST. JUDE PLACE  
 Owner City,St,Zip: MEMPHIS, TN 38105  
 Owner Description: Local Government  
 Tank Number: 1  
 Tank ID: 49654  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 50392  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 10000  
 Small Delivery: Not reported  
 Tank RD: NotListed  
 Substance Description: Gasoline  
 Date Installed: 01/28/1982  
 Date Last Used: 02/21/1994  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Fiberglass Reinforced Plastic  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1994-02-23 00:00:00  
 Pipe Material Desc: Unknown  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

Tank Number: 2  
 Tank ID: 49655  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 50393  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 10000  
 Small Delivery: Not reported  
 Tank RD: NotListed  
 Substance Description: Gasoline  
 Date Installed: 01/28/1982  
 Date Last Used: 03/17/1999  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Fiberglass Reinforced Plastic  
 Tank Mod Desc: None  
 Tank Emergency: Not reported

MUD ISLAND (Continued)

U004174100

Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 2001-04-17 00:00:00  
 Pipe Material Desc: Unknown  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

Tank Number: 3  
 Tank ID: 49656  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 50394  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 5000  
 Small Delivery: Not reported  
 Tank RD: NotListed  
 Substance Description: Diesel  
 Date Installed: 01/28/1982  
 Date Last Used: 02/21/1994  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Fiberglass Reinforced Plastic  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1994-02-23 00:00:00  
 Pipe Material Desc: Unknown  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

Tank Number: 4  
 Tank ID: 49657  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 50395  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 10000  
 Small Delivery: Not reported

MUD ISLAND (Continued)

U004174100

Tank RD: NotListed  
 Substance Description: Diesel  
 Date Installed: 01/28/1982  
 Date Last Used: 03/17/1999  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Fiberglass Reinforced Plastic  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 2001-04-17 00:00:00  
 Pipe Material Desc: Unknown  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

Tank Number: 5  
 Tank ID: 49658  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 50396  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 10000  
 Small Delivery: Not reported  
 Tank RD: NotListed  
 Substance Description: Kerosene  
 Date Installed: 01/28/1982  
 Date Last Used: 02/21/1994  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Fiberglass Reinforced Plastic  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1994-02-23 00:00:00  
 Pipe Material Desc: Unknown  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

H30 NW MUD ISLAND  
 < 1/8 125 NORTH FRONT ST.  
 0.089 mi. MEMPHIS, TN 38103  
 468 ft. Site 2 of 4 in cluster H

TN HIST UST U002106305  
 N/A

Relative: Lower: HIST UST:  
 Facility ID: 9-791059  
 Facility Description: Not Listed  
 Owner ID: 1781  
 Actual: 251 ft. Owner Name: CITY OF MEMPHIS/PROPERTY MAINT.  
 Owner Address: 281 East Pkwy. North  
 Owner City,St,Zip: Memphis, TN 38112  
 Owner Telephone: (901) 272-1360  
 Owner Description: Local Government

Tank ID: 3  
 Tank Status: Permanently Out of Use  
 Tank Capacity: 5000  
 Tank Contents: Diesel  
 Tank Material: Fiberglass Reinforced Plastic  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: False  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: 01/28/1982  
 Tank Leak Detection Listed: True  
 Pipe Material: Unknown  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

Tank ID: 4  
 Tank Status: Permanently Out of Use  
 Tank Capacity: 10000  
 Tank Contents: Diesel  
 Tank Material: Fiberglass Reinforced Plastic  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: False

MUD ISLAND (Continued)

U002106305

Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: 01/28/1982  
 Tank Leak Detection Listed: True  
 Pipe Material: Unknown  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

Tank ID: 1  
**Tank Status: Permanently Out of Use**  
 Tank Capacity: 10000  
 Tank Contents: Gasoline  
 Tank Material: Fiberglass Reinforced Plastic  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: False  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: 01/28/1982  
 Tank Leak Detection Listed: True  
 Pipe Material: Unknown  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

Tank ID: 5

MUD ISLAND (Continued)

U002106305

**Tank Status: Permanently Out of Use**  
 Tank Capacity: 10000  
 Tank Contents: Kerosene  
 Tank Material: Fiberglass Reinforced Plastic  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: False  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: 01/28/1982  
 Tank Leak Detection Listed: True  
 Pipe Material: Unknown  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

Tank ID: 2  
**Tank Status: Permanently Out of Use**  
 Tank Capacity: 10000  
 Tank Contents: Gasoline  
 Tank Material: Fiberglass Reinforced Plastic  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: False  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: 01/28/1982  
 Tank Leak Detection Listed: True  
 Pipe Material: Unknown  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False

MUD ISLAND (Continued)

U002106305

Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

H31 NW < 1/8 0.089 mi. 468 ft.

MUD ISLAND 125 N FRONT STREET MEMPHIS, TN 38103 TN LUST \$107465064 N/A

Site 3 of 4 in cluster H  
 LUST:  
 Region: STATE  
 Facility Id: 9791059  
 Current Status: 1a Completed Tank Closure  
 Product Released: -  
 Discovery Date: Not reported  
 How Discovered: -  
 Cause: -  
 Case Manager: David Groce  
 Case Description: See active case 2.  
 Section: FO  
 Priority: -  
 Owner ID: 0  
 Company Name: CITY OF MEMPHIS/PROPERTY MAINT.  
 Owner Address: 281 EAST PARKWAY NORTH  
 Owner City: Memphis  
 Owner State: TN  
 Owner Zip Code: 38112  
 Owner Telephone: (901) 272-1360  
 Owner Address 2: -  
 fadd2: Not reported  
 Site Number: 1  
 Contact: Not reported  
 Cac Contact: Not reported  
 Contact Title: -  
 Consultant Address 1: 3800 Northwood Drive  
 Consultant Address 2: -  
 Contact City: Memphis  
 Contact State: TN  
 Contact Phone: 901-324-5114  
 Contact zip: 38111  
 Contact cac: CAC  
 Region: STATE  
 Facility Id: 9791059  
 Current Status: 8 Case Closed  
 Product Released: -  
 Discovery Date: 05/11/2001  
 How Discovered: 1 AI Closure  
 Cause: 2 Overfill  
 Case Manager: Cindy Patton  
 Case Description: From Closure  
 Section: FO  
 Priority: Medium  
 Owner ID: 0

MUD ISLAND (Continued)

\$107465064

Company Name: CITY OF MEMPHIS/PROPERTY MAINT.  
 Owner Address: 281 EAST PARKWAY NORTH  
 Owner City: Memphis  
 Owner State: TN  
 Owner Zip Code: 38112  
 Owner Telephone: (901) 272-1360  
 Owner Address 2: -  
 fadd2: Not reported  
 Site Number: 2  
 Contact: Not reported  
 Cac Contact: -  
 Contact Title: -  
 Consultant Address 1: -  
 Consultant Address 2: -  
 Contact City: -  
 Contact State: -  
 Contact Phone: -  
 Contact zip: -  
 Contact cac: -

F32 SE < 1/8 0.095 mi. 501 ft.

SAFETY PRODUCTS INC 60 N THIRD ST MEMPHIS, TN 38103 RCRA NonGen / NLR 1000919228 FINDS TND990655037

Site 4 of 14 in cluster F  
 RCRA NonGen / NLR:  
 Date form received by agency: 11/19/1990  
 Facility name: SAFETY PRODUCTS INC  
 Facility address: 60 N THIRD ST MEMPHIS, TN 38103  
 EPA ID: TND990655037  
 Mailing address: N THIRD ST MEMPHIS, TN 38103  
 Contact: SAFETY PRODUCTS INC  
 Contact address: 60 N THIRD ST MEMPHIS, TN 38103  
 Contact country: US  
 Contact telephone: (615) 555-1212  
 Contact email: Not reported  
 EPA Region: 04  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste  
 Handler Activities Summary:  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No

MAP FINDINGS

SAFETY PRODUCTS INC (Continued)

1000919228

Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No  
 Violation Status: No violations found

FINDS:

Registry ID: 110005001032

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

I33 WSW < 1/8 0.101 mi. 534 ft. Relative: Lower Actual: 258 ft.

85 N FRONT ST MEMPHIS, TN 38103

EDR US Hist Auto Stat 1015655381 N/A

Site 1 of 5 in cluster I

EDR Historical Auto Stations:

Name: PYRAMID AUTOMOTIVE DETAILING  
 Year: 2002  
 Address: 85 N FRONT ST

I34 WSW < 1/8 0.101 mi. 534 ft. Relative: Lower Actual: 258 ft.

RIVERSIDE SERVICE CENTER 85 NORTH FRONT MEMPHIS, TN 38103

TN UST U004173769 N/A

Site 2 of 5 in cluster I

UST:

Facility ID: 9790575  
 Facility Description: Gas Station  
 Owner ID: 308510  
 Owner Name: CHARLES ROBERSON  
 Owner Address: 85 NORTH FRONT  
 Owner Address 2: Not reported  
 Owner City, St, Zip: MEMPHIS, TN 38103  
 Owner Description: Private

Tank Number: 1  
 Tank ID: 47197  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 47920  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 4000  
 Small Delivery: Not reported

MAP FINDINGS

RIVERSIDE SERVICE CENTER (Continued)

U004173769

Tank RD: NoListed  
 Substance Description: Gasoline  
 Date Installed: 06/21/1984  
 Date Last Used: 01/15/1994  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Asphalt Coated or Bare Steel  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1994-03-30 00:00:00  
 Pipe Material Desc: Unknown  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

Tank Number: 2  
 Tank ID: 47198  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 47921  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 4000  
 Small Delivery: Not reported  
 Tank RD: NoListed  
 Substance Description: Gasoline  
 Date Installed: 06/21/1984  
 Date Last Used: 01/15/1994  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Asphalt Coated or Bare Steel  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1994-03-30 00:00:00  
 Pipe Material Desc: Unknown  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

MAP FINDINGS

I35 WSW < 1/8 0.101 mi. 534 ft. Relative: Lower Actual: 258 ft.

RIVERSIDE SERVICE CENTER 85 NORTH FRONT MEMPHIS, TN 38103

TN HIST UST U003618107 N/A

Site 3 of 5 in cluster I

HIST UST:

Facility ID: 9-790575  
 Facility Description: Gas Station  
 Owner ID: 1489  
 Owner Name: CHARLES ROBERSON  
 Owner Address: 85 North Front  
 Owner City, St, Zip: Memphis, TN 38103  
 Owner Telephone: (901) 526-5093  
 Owner Description: Private

Tank ID: 2  
 Tank Status: Permanently Out of Use  
 Tank Capacity: 4000  
 Tank Contents: Gasoline  
 Tank Material: Asphalt Coated or Bare Steel  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: False  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: 06/21/1984  
 Tank Leak Detection Listed: True  
 Pipe Material: Unknown  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

Tank ID: 1  
 Tank Status: Permanently Out of Use  
 Tank Capacity: 4000  
 Tank Contents: Gasoline  
 Tank Material: Asphalt Coated or Bare Steel  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: False

MAP FINDINGS

RIVERSIDE SERVICE CENTER (Continued)

U003618107

Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: 06/21/1984  
 Tank Leak Detection Listed: True  
 Pipe Material: Unknown  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

E36 ENE < 1/8 0.102 mi. 541 ft. Relative: Lower Actual: 250 ft.

CARBURETOR SERVICE CO INC 182 WASHINGTON AVE MEMPHIS, TN

EDR US Hist Auto Stat 1014189320 N/A

Site 2 of 6 in cluster E

EDR Historical Auto Stations:

Name: CARBURETOR SERVICE CO INC  
 Year: 1932  
 Type: AUTOMOBILE REPAIRING

E37 ENE < 1/8 0.103 mi. 544 ft. Relative: Lower Actual: 250 ft.

WILEY MOTOR SERVICE CO 184 WASHINGTON AVE MEMPHIS, TN

EDR US Hist Auto Stat 1014182769 N/A

Site 3 of 6 in cluster E

EDR Historical Auto Stations:

Name: WILEY MOTOR SERVICE CO  
 Year: 1926  
 Type: AUTOMOBILE REPAIRS  
 Name: STAHL & DATTILO AUTO  
 Year: 1932  
 Type: AUTOMOBILE REPAIRING

**F38** **MADISON DRY CLEANERS** **EDR US Hist Cleaners** **101445162**  
**SE** **54 3RD N** **N/A**  
**< 1/8** **MEMPHIS, TN**  
**0.104 mi.** **Site 5 of 14 in cluster F**  
**550 ft.**  
**Relative:** EDR Historical Cleaners:  
**Lower** Name: MADISON DRY CLEANERS  
Year: 1926  
Type: CLOTHES CLEANERS AND PRESSERS  
**Actual:**  
**253 ft.** Name: MADISON DRY CLEANERS  
Year: 1932  
Type: CLOTHES PRESSERS AND CLEANERS

**G39** **U S ARMY CORPS OF ENGINEERS** **RCRA NonGen / NLR** **1000836026**  
**North** **167 N MID-AMERICA MALL** **FINDS** **TN3210800014**  
**< 1/8** **MEMPHIS, TN 38103**  
**0.106 mi.** **Site 2 of 2 in cluster G**  
**558 ft.**  
**Relative:** RCRA NonGen / NLR:  
**Lower** Date form received by agency: 02/13/1997  
Facility name: U S ARMY CORPS OF ENGINEERS  
Facility address: 167 N MID-AMERICA MALL  
MEMPHIS, TN 381031894  
EPA ID: TN3210800014  
Mailing address: N MID-AMERICA MALL  
MEMPHIS, TN 381031894  
Contact: MARGIE HISKY  
Contact address: 167 N MID-AMERICA MALL  
MEMPHIS, TN 381031894  
Contact country: US  
Contact telephone: (901) 544-3136  
Contact email: Not reported  
EPA Region: 04  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:  
U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found  
**FINDS:**

**U S ARMY CORPS OF ENGINEERS (Continued)** **1000836026**  
Registry ID: 110004953925  
Environmental Interest/Information System  
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**H40** **AUTO PARK CO GAS STA** **EDR US Hist Auto Stat** **1014188134**  
**NNW** **146 FRONT N** **N/A**  
**< 1/8** **MEMPHIS, TN**  
**0.107 mi.** **Site 4 of 4 in cluster H**  
**585 ft.**  
**Relative:** EDR Historical Auto Stations:  
**Lower** Name: POLSKY HARRY FILLING STA  
Year: 1938  
Type: GASOLINE AND OIL SERVICE STATIONS  
**Actual:**  
**251 ft.** Name: A LIBERTO SERV STA  
Year: 1943  
Type: GASOLINE AND OIL SERVICE STATIONS  
Name: AUTO PARK SERVICE  
Year: 1948  
Type: GASOLINE AND OIL SERVICE STATIONS  
Name: AUTO PARK CO GAS STA  
Year: 1953  
Type: GASOLINE STATIONS  
Name: AUTO PARK CO GAS STA  
Year: 1958  
Type: GASOLINE STATIONS

**E41** **CAMPBELL BROS MOTOR** **EDR US Hist Auto Stat** **1014184549**  
**ENE** **153 3RD N** **N/A**  
**< 1/8** **MEMPHIS, TN**  
**0.107 mi.** **Site 4 of 6 in cluster E**  
**566 ft.**  
**Relative:** EDR Historical Auto Stations:  
**Lower** Name: CAMPBELL BROS MOTOR  
Year: 1921  
Type: AUTOMOBILE REPAIRS  
**Actual:**  
**250 ft.** Name: CAMPBELL BROS MOTOR  
Year: 1921  
Type: AUTOMOBILE REPAIRS

**J42** **MEM HAT CO** **EDR US Hist Cleaners** **1014141803**  
**SE** **52 3RD N** **N/A**  
**< 1/8** **MEMPHIS, TN**  
**0.108 mi.** **Site 1 of 10 in cluster J**  
**568 ft.**  
**Relative:** EDR Historical Cleaners:  
**Lower** Name: PHELAN THE HATTER  
Year: 1932  
Type: HAT CLEANERS AND BLOCKERS  
**Actual:**  
**255 ft.** Name: MEM HAT CO  
Year: 1938  
Type: HAT CLEANERS AND BLOCKERS  
Name: PHELAN THE HATTER  
Year: 1938  
Type: HAT CLEANERS AND BLOCKERS  
Name: MEM HAT CO  
Year: 1943  
Type: HAT CLEANERS AND BLOCKERS  
Name: A PHELAN THE HATTER  
Year: 1943  
Type: HAT CLEANERS AND BLOCKERS  
Name: PHELAN THE HATTER  
Year: 1948  
Type: HAT CLEANERS AND BLOCKERS  
Name: PHELAN THE HATTER  
Year: 1953  
Type: HAT CLEANERS AND BLOCKERS

**J43** **JONES ROBT CUSTOM HATTERS** **EDR US Hist Cleaners** **1014151867**  
**SE** **55 3RD N** **N/A**  
**< 1/8** **MEMPHIS, TN**  
**0.108 mi.** **Site 2 of 10 in cluster J**  
**568 ft.**  
**Relative:** EDR Historical Cleaners:  
**Lower** Name: JONES ROBT CUSTOM HATTERS  
Year: 1963  
Type: HAT CLEANERS AND BLOCKERS  
**Actual:**  
**255 ft.**

**E44** **THOMAS GARAGE** **EDR US Hist Auto Stat** **1014188225**  
**ENE** **201 WASHINGTON AVE** **N/A**  
**< 1/8** **MEMPHIS, TN**  
**0.110 mi.** **Site 5 of 6 in cluster E**  
**583 ft.**  
**Relative:** EDR Historical Auto Stations:  
**Lower** Name: TENN MOTOR CO  
Year: 1921  
Type: AUTOMOBILE GARAGES  
**Actual:**  
**249 ft.** Name: TENN MOTOR CO

**THOMAS GARAGE (Continued)** **1014188225**  
Year: 1921  
Type: AUTOMOBILE REPAIRS  
Name: TENN MOTOR CO  
Year: 1921  
Type: AUTOMOBILE SERVICE STATIONS  
Name: THOMAS GARAGE  
Year: 1932  
Type: AUTOMOBILE REPAIRING  
Name: ABEST GARAGE  
Year: 1938  
Type: AUTOMOBILE REPAIRING  
Name: ABEST GARAGE  
Year: 1943  
Type: AUTOMOBILE REPAIRING

**K45** **DIXIE SERVICE CLUB** **EDR US Hist Cleaners** **1014149225**  
**South** **146 COURT AVE** **N/A**  
**< 1/8** **MEMPHIS, TN**  
**0.110 mi.** **Site 1 of 3 in cluster K**  
**583 ft.**  
**Relative:** EDR Historical Cleaners:  
**Higher** Name: DIXIE SERVICE CLUB  
Year: 1921  
Type: CLOTHES CLEANERS AND PRESSERS  
**Actual:**  
**261 ft.**

**J46** **KRAUS CLNRS BR** **EDR US Hist Cleaners** **1014156526**  
**SE** **48 3RD N** **N/A**  
**< 1/8** **MEMPHIS, TN**  
**0.112 mi.** **Site 3 of 10 in cluster J**  
**590 ft.**  
**Relative:** EDR Historical Cleaners:  
**Lower** Name: KRAUS CLNRS BR  
Year: 1948  
Type: CLOTHES PRESSERS AND CLEANERS  
**Actual:**  
**257 ft.**

**K47** **BSMT WILLIAMS BROS CLEANERS** **EDR US Hist Cleaners** **1014144426**  
**SSE** **150 COURT AVE** **N/A**  
**< 1/8** **MEMPHIS, TN**  
**0.115 mi.** **Site 2 of 3 in cluster K**  
**597 ft.**  
**Relative:** EDR Historical Cleaners:  
**Higher** Name: BSMT WILLIAMS BROS CLEANERS  
Year: 1926  
Type: CLOTHES CLEANERS AND PRESSERS  
**Actual:**  
**261 ft.**



**E48 MAHONEY JOHN T TIRE EDR US Hist Auto Stat 1014162589**  
**ENE 156 3RD N N/A**  
**< 1/8 MEMPHIS, TN**  
**0.113 mi.**  
**599 ft. Site 6 of 6 in cluster E**  
**Relative:** EDR Historical Auto Stations:  
**Lower** Name: MAHONEY JOHN T TIRE  
 Year: 1926  
**Actual:** Type: FILLING STATIONS  
**250 ft.** Name: LINDEN CIRCLE TIRE CO  
 Year: 1932  
 Type: GASOLINE AND OIL SERVICE STATIONS

**F49 DAILY NEWS PUBLISHING CO THE RCRA NonGen / NLR 1000915425**  
**SE 193 JEFFERSON AVE FINDS TND007017437**  
**< 1/8 MEMPHIS, TN 38103**  
**0.113 mi.**  
**599 ft. Site 6 of 14 in cluster F**  
**Relative:** RCRA NonGen / NLR:  
**Lower** Date form received by agency: 11/19/1980  
 Facility name: DAILY NEWS PUBLISHING CO THE  
 Facility address: 193 JEFFERSON AVE  
 EPA ID: TND007017437  
 Mailing address: JEFFERSON AVE  
 MEMPHIS, TN 38103  
 Contact: DAILY NEWS  
 Contact address: 193 JEFFERSON AVE  
 MEMPHIS, TN 38103  
 Contact country: US  
 Contact telephone: (615) 555-1212  
 Contact email: Not reported  
 EPA Region: 04  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 Used oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Violation Status: No violations found  
 FINDS:

**DAILY NEWS PUBLISHING CO THE (Continued) 1000915425**  
 Registry ID: 110004960392  
 Environmental Interest/Information System  
 RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**L50 WHITTEN BROS INC EDR US Hist Auto Stat 1014184187**  
**ENE 203 WASHINGTON AVE N/A**  
**< 1/8 MEMPHIS, TN**  
**0.114 mi.**  
**602 ft. Site 1 of 3 in cluster L**  
**Relative:** EDR Historical Auto Stations:  
**Lower** Name: WHITTEN BROS INC  
 Year: 1921  
**Actual:** Type: AUTOMOBILE GARAGES  
**249 ft.** Name: WHITTEN BROS INC  
 Year: 1921  
 Type: AUTOMOBILE REPAIRS  
 Name: WHITTEN BROS INC  
 Year: 1921  
 Type: AUTOMOBILE SERVICE STATIONS  
 Name: BARR AUTO EXCH  
 Year: 1921  
 Type: AUTOMOBILE GARAGES  
 Name: WHITTEN BROS INC  
 Year: 1926  
 Type: AUTOMOBILE SERVICE STATIONS  
 Name: WHITTEN BROS INC  
 Year: 1926  
 Type: AUTOMOBILE REPAIRS  
 Name: COURT HOUSE GARAGE  
 Year: 1932  
 Type: AUTOMOBILE REPAIRING

**F51 KETTLEWEIL BROS AUTO REPRS EDR US Hist Auto Stat 1014181323**  
**SE 198 JEFFERSON AVE N/A**  
**< 1/8 MEMPHIS, TN**  
**0.120 mi.**  
**634 ft. Site 7 of 14 in cluster F**  
**Relative:** EDR Historical Auto Stations:  
**Lower** Name: KETTLEWEIL BROS AUTO REPRS  
 Year: 1932  
**Actual:** Type: AUTOMOBILE REPAIRING  
**249 ft.**

**J52 JOHNS HARRISON PRINTING CO RCRA NonGen / NLR 1000915535**  
**SSE 45 N THIRD ST FINDS TND007029382**  
**< 1/8 MEMPHIS, TN 38103**  
**0.122 mi.**  
**643 ft. Site 4 of 10 in cluster J**  
**Relative:** RCRA NonGen / NLR:  
**Higher** Date form received by agency: 11/19/1980  
 Facility name: JOHNS HARRISON PRINTING CO  
 Facility address: 45 N THIRD ST  
 EPA ID: TND007029382  
 Mailing address: N THIRD ST  
 MEMPHIS, TN 38103  
 Contact: JOHNS HARRISON  
 Contact address: 45 N THIRD ST  
 MEMPHIS, TN 38103  
 Contact country: US  
 Contact telephone: (615) 555-1212  
 Contact email: Not reported  
 EPA Region: 04  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 Used oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Violation Status: No violations found  
 FINDS:  
 Registry ID: 110004961266

Environmental Interest/Information System  
 RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**F53 199 JEFFERSON AVE EDR US Hist Auto Stat 1014193144**  
**SE < 1/8 MEMPHIS, TN 38103 N/A**  
**0.123 mi.**  
**651 ft. Site 8 of 14 in cluster F**  
**Relative:** EDR Historical Auto Stations:  
**Lower** Name: JEFFERSON REPAIR SHOP  
 Year: 1932  
**Actual:** Type: AUTOMOBILE REPAIRING  
**249 ft.** Name: JEFFERSON GARAGE  
 Year: 1932  
 Type: AUTOMOBILE GARAGES  
 Name: A.JEFFERSON GARAGE  
 Year: 1938  
 Type: AUTOMOBILE GARAGES  
 Name: JEFFERSON GARAGE  
 Year: 1943  
 Type: AUTOMOBILE GARAGES  
 Name: JEFFERSON GARAGE  
 Year: 1948  
 Type: AUTOMOBILE GARAGES  
 Name: JEFFERSON GARAGE  
 Year: 1953  
 Type: AUTOMOBILE GARAGES  
 Name: JEFFERSON GARAGE  
 Year: 1958  
 Type: AUTOMOBILE REPAIRING  
 Name: JEFFERSON GARAGE AUTO REPR  
 Year: 1963  
 Type: AUTOMOBILE REPAIRING  
 Name: JEFFERSON GARAGE AUTO REPR  
 Year: 1968  
 Type: AUTOMOBILE REPAIRING  
 Name: JEFFERSON GARAGE AUTO REPR  
 Year: 1973  
 Type: AUTOMOBILE REPAIRING  
 Name: ALLENBERG OIL CO GAS ST  
 Year: 1978  
 Type: GASOLINE STATIONS  
 Name: JEFFERSON GARAGE INC AUTO REPR  
 Year: 1978  
 Type: AUTOMOBILE REPAIRING  
 Name: JEFFERSON GARAGE AUTO REPR  
 Year: 1982  
 Type: AUTOMOBILE REPAIRING

(Continued)

1014193144

Name: JEFFERSON GARAGE AUTO REPRS  
 Year: 1987  
 Type: AUTOMOBILE REPAIRING  
 Name: J & L AUTO SERVICE  
 Year: 1999  
 Address: 199 JEFFERSON AVE  
 Name: J & L AUTO SERVICE  
 Year: 2000  
 Address: 199 JEFFERSON AVE  
 Name: J & L AUTO SERVICE  
 Year: 2002  
 Address: 199 JEFFERSON AVE  
 Name: J & L AUTO SERVICE  
 Year: 2003  
 Address: 199 JEFFERSON AVE  
 Name: J & L AUTO SERVICE INC  
 Year: 2004  
 Address: 199 JEFFERSON AVE  
 Name: J & L AUTO SERVICE INC  
 Year: 2005  
 Address: 199 JEFFERSON AVE  
 Name: J & L AUTO SERVICE  
 Year: 2006  
 Address: 199 JEFFERSON AVE

F54 SE < 1/8 0.123 mi. 651 ft. JEFFERSON PARKING PARTNERS 199 JEFFERSON AVENUE MEMPHIS, TN 38103 TN HIST UST U003619066 N/A

Site 9 of 14 in cluster F

Relative: Lower  
 Actual: 249 ft.  
 HIST UST:  
 Facility ID: 9-792522  
 Facility Description: Other  
 Owner ID: 14500  
 Owner Name: JEFFERSON PARKING PARTNERS  
 Owner Address: C/O Allright Parking 8 S 3rd. St. Concourse  
 Owner City, St, Zip: Memphis, TN 38103  
 Owner Telephone: (901) 525-0436  
 Owner Description: Private  
 Tank ID: 1  
 Tank Status: Permanently Out of Use  
 Tank Capacity: 2500  
 Tank Contents: Gasoline  
 Tank Material: Unknown  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: False

JEFFERSON PARKING PARTNERS (Continued)

U003619066

Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: //  
 Tank Leak Detection Listed: True  
 Pipe Material: Unknown  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe DBI Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

Tank ID: 2  
 Tank Status: Permanently Out of Use  
 Tank Capacity: 2500  
 Tank Contents: Diesel  
 Tank Material: Unknown  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: False  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: //  
 Tank Leak Detection Listed: True  
 Pipe Material: Unknown  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe DBI Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

Tank ID: 3

JEFFERSON PARKING PARTNERS (Continued)

U003619066

Tank Status: Permanently Out of Use  
 Tank Capacity: 500  
 Tank Contents: Used Oil  
 Tank Material: Unknown  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: False  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: //  
 Tank Leak Detection Listed: True  
 Pipe Material: Unknown  
 Pipe Other Material: None  
 Pipe Type: Gravity Feed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe DBI Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

F55 SE < 1/8 0.123 mi. 651 ft. JEFFERSON PARKING PARTNERS 199 JEFFERSON AVENUE MEMPHIS, TN 38103 TN UST U004174804 N/A

Site 10 of 14 in cluster F

Relative: Lower  
 Actual: 249 ft.  
 UST:  
 Facility ID: 9792522  
 Facility Description: Other  
 Owner ID: 309188  
 Owner Name: JEFFERSON PARKING PARTNERS  
 Owner Address: C/O ALLRIGHT PARKING  
 Owner Address 2: 8 S 3RD. ST. CONCOURSE  
 Owner City, St, Zip: MEMPHIS, TN 38103  
 Owner Description: Private  
 Tank Number: 1  
 Tank ID: 51589  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 52335  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 2500  
 Small Delivery: Not reported

JEFFERSON PARKING PARTNERS (Continued)

U004174804

Tank RD: NotListed  
 Substance Description: Gasoline  
 Date Installed: 01/01/2000  
 Date Last Used: 01/01/1987  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Unknown  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1994-01-02 00:00:00  
 Pipe Material Desc: Unknown  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

Tank Number: 2  
 Tank ID: 51590  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 52336  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 2500  
 Small Delivery: Not reported  
 Tank RD: NotListed  
 Substance Description: Diesel  
 Date Installed: 01/01/2000  
 Date Last Used: 01/01/1987  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Unknown  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1994-01-02 00:00:00  
 Pipe Material Desc: Unknown  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

Tank Number: 3  
 Tank ID: 51591

JEFFERSON PARKING PARTNERS (Continued)

U004174804

Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 52337  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 500  
 Small Delivery: Not reported  
 Tank RD: NotListed  
 Substance Description: Used Oil  
 Date Installed: 01/01/2000  
 Date Last Used: 01/02/1994  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Unknown  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1994-01-02 00:00:00  
 Pipe Material Desc: Unknown  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

F56 ONE MEMPHIS PLACE  
 SE 200 JEFFERSON AVENUE  
 < 1/8 MEMPHIS, TN 38103  
 0.123 mi.  
 652 ft. Site 11 of 14 in cluster F

TN LUST U004174803  
 TN UST N/A

Relative: LUST:  
 Lower Region: STATE  
 Facility Id: 9792521  
 Actual: Current Status: 1a Completed Tank Closure  
 249 ft. Product Released: -  
 Discovery Date: Not reported  
 Cause: -  
 Case Manager: David Groce  
 Case Description: -  
 Section: FO  
 Priority: -  
 Owner ID: 0  
 Company Name: ONE MEMPHIS PLACE, LP  
 Owner Address: 200 JEFFERSON AVE ST  
 Owner City: Memphis  
 Owner State: TN  
 Owner Zip Code: 38103  
 Owner Telephone: (901) 527-1111  
 Owner Address 2: -  
 fadd2: Not reported  
 Site Number: 2

ONE MEMPHIS PLACE (Continued)

U004174803

Contact: Not reported  
 Cac Contact: -  
 Contact Title: -  
 Consultant Address 1: -  
 Consultant Address 2: -  
 Contact City: -  
 Contact State: -  
 Contact Phone: -  
 Contact zip: -  
 Contact cac: -

UST:

Facility ID: 9792521  
 Facility Description: Not Listed  
 Owner ID: 309187  
 Owner Name: ONE MEMPHIS PLACE, L.P.  
 Owner Address: 100 PEABODY PLACE  
 Owner Address 2: SUITE 1200  
 Owner City, St, Zip: MEMPHIS, TN 38103  
 Owner Description: Private

Tank Number: 1  
 Tank ID: 51588  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 52334  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 500  
 Small Delivery: Not reported  
 Tank RD: Tank Tightness VaporMonit MTG  
 Substance Description: Diesel  
 Date Installed: 12/20/1995  
 Date Last Used: 12/22/1998  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Asphalt Coated or Bare Steel  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1998-12-22 00:00:00  
 Pipe Material Desc: Galvanized Steel  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

F57 ONE MEMPHIS PLACE  
 SE 200 JEFFERSON AVENUE  
 < 1/8 MEMPHIS, TN 38103  
 0.123 mi.  
 652 ft. Site 12 of 14 in cluster F

TN HIST UST U003619065  
 N/A

Relative: HIST UST:  
 Lower Facility ID: 9-792521  
 Facility Description: Not Listed  
 Actual: Owner ID: 14491  
 249 ft. Owner Name: ONE MEMPHIS PLACE, L.P.  
 Owner Address: 100 Peabody Place Suite 1200  
 Owner City, St, Zip: Memphis, TN 38103  
 Owner Telephone: (901) 260-1040  
 Owner Description: Private  
 Tank ID: 1  
 Tank Status: Permanently Out of Use  
 Tank Capacity: 500  
 Tank Contents: Diesel  
 Tank Material: Asphalt Coated or Bare Steel  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: True  
 Tank Tightness: True  
 Tank Inventory Control: False  
 Tank ATG: False  
 Tank Vapor Monitor: True  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: 12/20/1985  
 Tank Leak Detection Listed: False  
 Pipe Material: Galvanized Steel  
 Pipe Other Material: None  
 Pipe Type: Safe Suction  
 Pipe Auto Line Leak Detect: False  
 Pipe Leak Detection Listed: True  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: False

F58 ONE MEMPHIS PLACE VENTURE  
 SE 200 JEFFERSON AVE STE 201  
 < 1/8 MEMPHIS, TN 38103  
 0.123 mi.  
 652 ft. Site 13 of 14 in cluster F

TN LUST S107465446  
 N/A

Relative: LUST:  
 Lower Region: STATE  
 Facility Id: 9792521  
 Actual: Current Status: 8 Case Closed  
 249 ft. Product Released: -  
 Discovery Date: 12/16/1993

ONE MEMPHIS PLACE VENTURE (Continued)

S107465446

How Discovered: 7 Environmental Audit  
 Cause: 7 Unknown  
 Case Manager: David Groce  
 Case Description: -  
 Section: FO  
 Priority: -  
 Owner ID: 0  
 Company Name: ONE MEMPHIS PLACE VE  
 Owner Address: 200 JEFFERSON AVE STE 201  
 Owner City: MEMPHIS  
 Owner State: TN  
 Owner Zip Code: 38103  
 Owner Telephone: (901) 527-1111  
 Owner Address 2: -  
 fadd2: Not reported  
 Site Number: 1  
 Contact: Not reported  
 Cac Contact: Not reported  
 Contact Title: -  
 Consultant Address 1: 4145 Willow Lake Blvd.  
 Consultant Address 2: -  
 Contact City: Memphis  
 Contact State: TN  
 Contact Phone: 901-365-9255  
 Contact zip: 38119  
 Contact cac: CAC

F59 B & W SERVICE STATION  
 SE 204 JEFFERSON AVE  
 1/8-1/4 MEMPHIS, TN  
 0.130 mi.  
 687 ft. Site 14 of 14 in cluster F

EDR US Hist Auto Stat 1014179258  
 N/A

Relative: EDR Historical Auto Stations:  
 Lower Name: B & W SERVICE STATION  
 Year: 1932  
 Type: GASOLINE AND OIL SERVICE STATIONS  
 Actual: Name: JEFFERSON AUTO LNDRY  
 249 ft. Year: 1938  
 Type: AUTOMOBILE LAUNDRIES  
 Name: RUFF ROY L AUTO REPR  
 Year: 1938  
 Type: AUTOMOBILE REPAIRING

J60 UP 2 DATE CLEANERS INC  
 SSE 41 3RD N  
 1/8-1/4 MEMPHIS, TN  
 0.130 mi.  
 688 ft. Site 5 of 10 in cluster J

EDR US Hist Cleaners 1014148128  
 N/A

Relative: EDR Historical Cleaners:  
 Higher Name: UP 2 DATE CLEANERS INC  
 Year: 1932  
 Actual: Type: CLOTHES PRESSERS AND CLEANERS  
 259 ft.

**L61** WYATT J T ENE 169 3RD N 1/8-1/4 0.134 mi. 705 ft. **Site 2 of 3 in cluster L**  
**Relative:** EDR Historical Cleaners:  
**Lower** Name: WYATT J T  
Year: 1921  
**Actual:** Type: CLOTHES CLEANERS AND PRESSERS  
253 ft.

**L62** ARNETT JOHN T AUTO REPR 168 3RD N 1/8-1/4 0.134 mi. 705 ft. **Site 3 of 3 in cluster L**  
**Relative:** EDR Historical Auto Stations:  
**Lower** Name: EVANS GEO H & CO  
Year: 1921  
Type: AUTOMOBILE GARAGES  
**Actual:** Name: EVANS GEO H & CO  
Year: 1921  
Type: AUTOMOBILE SERVICE STATIONS  
253 ft. Name: EVANS GEO H & CO  
Year: 1921  
Type: AUTOMOBILE REPAIRS  
Name: ARNETT JOHN T AUTO REPR  
Year: 1932  
Type: AUTOMOBILE REPAIRING

**I63** MORGAN KEEGAN TOWER 50 NORTH FRONT ST. SUITE 920 1/8-1/4 0.134 mi. 710 ft. **Site 4 of 5 in cluster I**  
**Relative:** LUST:  
Higher Region: STATE  
Facility Id: 9791873  
**Actual:** Current Status: 1a Completed Tank Closure  
260 ft. Product Released: -  
Discovery Date: Not reported  
How Discovered: -  
Cause: -  
Case Manager: Chuck Nance  
Case Description: -  
Section: FO  
Priority: -  
Owner ID: 0  
Company Name: MORGAN PROPERTIES LLC.  
Owner Address: 50 NORTH FRONT ST.SUITE 920  
Owner City: Memphis  
Owner State: TN  
Owner Zip Code: 38103

**MORGAN KEEGAN TOWER (Continued)** U004174447  
Owner Telephone: (901) 575-0500  
Owner Address 2: -  
fadd2: Not reported  
Site Number: 1  
Contact: Not reported  
Cac Contact: -  
Contact Title: -  
Consultant Address 1: -  
Consultant Address 2: -  
Contact City: -  
Contact State: -  
Contact Phone: -  
Contact zip: -  
Contact cac: -

UST:  
Facility ID: 9791873  
Facility Description: Not Listed  
Owner ID: 309558  
Owner Name: PARKWAY REALTY SERVICES  
Owner Address: 50 NORTH FRONT ST.  
Owner Address 2: Not reported  
Owner City,St,Zip: MEMPHIS, TN 38103  
Owner Description: Not Listed

Tank Number: 1  
Tank ID: 53291  
Tank Other Material: Not reported  
RSN Red Tagged: Not reported  
Fac Red Tagged: Not reported  
Replacement: Not reported  
Compartment ID: 54101  
Compartment Letter: A  
Compartment Status: Permanently Out of Use  
Compartment Capacity: 550  
Small Delivery: Not reported  
Tank RD: Tank\_Tightness InvControl  
Substance Description: Diesel  
Date Installed: 07/21/1985  
Date Last Used: 03/25/1999  
Date Closed: Not reported  
Regulated: Regulated  
Tank Material Desc: Asphalt Coated or Bare Steel  
Tank Mod Desc: None  
Tank Emergency: Not reported  
Tank No Fee: Y  
Overfill Type: Not reported  
Overfill Device Installed: N  
Spill Device Installed: N  
Date Removed From Ground: 1999-05-25 00:00:00  
Pipe Material Desc: Bare Steel  
Pipe Other Material: Not reported  
Pipe RD: Y  
Pipe Repaired: N  
Flex Piping Type: Not reported  
Year Flex Piping Installed: Not reported

**I64** MORGAN KEEGAN TOWER 50 NORTH FRONT ST. SUITE 920 1/8-1/4 0.134 mi. 710 ft. **Site 5 of 5 in cluster I**  
**Relative:** HIST UST:  
Higher Facility ID: 9-791873  
Facility Description: Not Listed  
**Actual:** Owner ID: 157189  
260 ft. Owner Name: PARKWAY REALTY SERVICES  
Owner Address: 50 North Front St  
Owner City,St,Zip: Memphis, TN 38103  
Owner Telephone: (901) 575-0500  
Owner Description: Not Listed

Tank ID: 1  
**Tank Status:** Permanently Out of Use  
Tank Capacity: 550  
Tank Contents: Diesel  
Tank Material: Asphalt Coated or Bare Steel  
Tank 2ndary Trait: None  
Tank Manual Gauge: False  
Tank Tightness: True  
Tank Inventory Control: True  
Tank ATG: False  
Tank Vapor Monitor: False  
Tank Groundwater Monitor: False  
Tank Double Walled: False  
Tank 2nd Contained: False  
Tank SIR: False  
Overfill Installed: False  
Spill Installed: False  
Cathodic Protection: False  
Date Installed: 07/21/1985  
Tank Leak Detection Listed: False  
Pipe Material: Bare Steel  
Pipe Other Material: None  
Pipe Type: Not Listed  
Pipe Auto Line Leak Detect.: False  
Pipe Leak Detection Listed: False  
Pipe Vapor Monitor: False  
Pipe Groundwater Monitor: False  
Pipe Dbl Walled: Not reported  
Pipe 2nd Contained: False  
Pipe SIR: False  
Pipe Leak Detection Listed: True

**J65** ALLENBERG JULIAN 157 COURT AVE 1/8-1/4 0.135 mi. 711 ft. **Site 6 of 10 in cluster J**  
**Relative:** EDR Historical Auto Stations:  
Higher Name: ALLENBERG JULIAN  
Year: 1948  
**Actual:** Type: GASOLINE AND OIL SERVICE STATIONS  
259 ft.

**J66** SHENDELMAN LAZAR HATTER 157 COURT AVE 1/8-1/4 0.135 mi. 711 ft. **Site 7 of 10 in cluster J**  
**Relative:** EDR Historical Cleaners:  
Higher Name: SHENDELMAN LAZAR HATTER  
Year: 1938  
**Actual:** Type: HAT CLEANERS AND BLOCKERS  
259 ft.

**M67** MAJESTIC VICTOR J FILLING 171 2ND N 1/8-1/4 0.139 mi. 732 ft. **Site 1 of 14 in cluster M**  
**Relative:** EDR Historical Auto Stations:  
Higher Name: MAJESTIC VICTOR J FILLING  
Year: 1938  
**Actual:** Type: GASOLINE AND OIL SERVICE STATIONS  
260 ft.

**M68** KIK CUSTOM PRODUCTS INC 1725 SOUTH THIRD ST 1/8-1/4 0.140 mi. 739 ft. **Site 2 of 14 in cluster M**  
**Relative:** RCRA-LQG:  
Lower Date form received by agency:03/06/2013  
Facility name: KIK CUSTOM PRODUCTS INC  
Facility address: 1725 SOUTH THIRD ST  
MEMPHIS, TN 38109  
**Actual:** EPA ID: TND807785490  
258 ft. Contact: KATHY J. REGENWETHER  
Contact address: 1725 SOUTH THIRD ST  
MEMPHIS, TN 381097711  
Contact country: US  
Contact telephone: (901) 947-5409  
Contact email: Not reported  
EPA Region: 04  
Land type: Private  
Classification: Large Quantity Generator  
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:  
Owner/operator name: KIK CUSTOM PRODUCTS INC



MAP FINDINGS

KIK CUSTOM PRODUCTS INC (Continued) 1000695951

Owner/operator address: 33 MACINTOSH BLVD  
CONCORD, ONTARIO, L4K 4  
CA  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 05/17/2005  
Owner/Op end date: Not reported

Owner/operator name: CCL CUSTOM MANUFACTURING INC  
Owner/operator address: 6133 N RIVER ROAD  
ROSEMONT, IL 60018  
US  
Owner/operator telephone: Not reported  
Legal status: Other  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: KIK CUSTOM PRODUCTS INC  
Owner/operator address: 33 MACINTOSH BLVD  
CONCORD, ONTARIO, L4K 4  
CA  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 05/17/2005  
Owner/Op end date: Not reported

Handler Activities Summary:  
U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Universal Waste Summary:  
Waste type: Lamps  
Accumulated waste on-site: Yes  
Generated waste on-site: Not reported

Historical Generators:  
Date form received by agency: 07/30/2012  
Site name: KIK CUSTOM PRODUCTS INC  
Classification: Large Quantity Generator

MAP FINDINGS

KIK CUSTOM PRODUCTS INC (Continued) 1000695951

Date form received by agency: 03/01/2011  
Site name: KIK CUSTOM PRODUCTS INC  
Classification: Large Quantity Generator

Date form received by agency: 01/01/2010  
Site name: KIK CUSTOM PRODUCTS INC  
Classification: Large Quantity Generator

Date form received by agency: 03/09/2009  
Site name: KIK CUSTOM PRODUCTS INC  
Classification: Large Quantity Generator

Date form received by agency: 02/19/2008  
Site name: KIK CUSTOM PRODUCTS INC  
Classification: Large Quantity Generator

Date form received by agency: 03/05/2006  
Site name: KIK CUSTOM PRODUCTS INC  
Classification: Large Quantity Generator

Date form received by agency: 02/27/2006  
Site name: KIK CUSTOM PRODUCTS INC  
Classification: Large Quantity Generator

Date form received by agency: 02/17/2004  
Site name: CCL CUSTOM MANUFACTURING INC  
Classification: Large Quantity Generator

Date form received by agency: 02/18/2003  
Site name: CCL CUSTOM MANUFACTURING INC  
Classification: Large Quantity Generator

Date form received by agency: 02/12/2002  
Site name: CCL CUSTOM MANUFACTURING INC  
Classification: Large Quantity Generator

Date form received by agency: 03/02/2001  
Site name: CCL CUSTOM MANUFACTURING INC  
Classification: Large Quantity Generator

Date form received by agency: 06/25/1999  
Site name: CCL CUSTOM MANUFACTURING INC  
Classification: Large Quantity Generator

Date form received by agency: 03/01/1999  
Site name: CCL CUSTOM MANUFACTURING INC  
Classification: Large Quantity Generator

Date form received by agency: 03/01/1997  
Site name: CCL CUSTOM MANUFACTURING INC  
Classification: Large Quantity Generator

Date form received by agency: 03/01/1995  
Site name: CCL CUSTOM MANUFACTURING INC  
Classification: Large Quantity Generator

Date form received by agency: 03/01/1994

MAP FINDINGS

KIK CUSTOM PRODUCTS INC (Continued) 1000695951

Site name: CCL CUSTOM MANUFACTURING INC  
Classification: Large Quantity Generator

Date form received by agency: 04/22/1992  
Site name: KOLMAR LABORATORIES INC  
Classification: Large Quantity Generator

Hazardous Waste Summary:  
Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003  
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF

MAP FINDINGS

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DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D009  
Waste name: MERCURY

Waste code: D022  
Waste name: CHLOROFORM

Waste code: D035  
Waste name: METHYL ETHYL KETONE

Waste code: D039  
Waste name: TETRACHLOROETHYLENE

Waste code: F005  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U044  
Waste name: CHLOROFORM

Waste code: U080  
Waste name: METHANE, DICHLORO-

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003  
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D022  
Waste name: CHLOROFORM

MAP FINDINGS		
Map ID	Direction	EDR ID Number
Distance	Site	EPA ID Number
Elevation	Database(s)	

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Waste code:	D035
Waste name:	METHYL ETHYL KETONE
Waste code:	D039
Waste name:	TETRACHLOROETHYLENE
Waste code:	F005
Waste name:	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste code:	U044
Waste name:	CHLOROFORM
Waste code:	U080
Waste name:	METHANE, DICHLORO-
Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Waste code:	D002
Waste name:	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Waste code:	D005
Waste name:	BARIIUM
Waste code:	D007
Waste name:	CHROMIUM
Waste code:	D011
Waste name:	SILVER
Waste code:	D022
Waste name:	CHLOROFORM
Waste code:	D035
Waste name:	METHYL ETHYL KETONE
Waste code:	D038
Waste name:	PYRIDINE

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MAP FINDINGS		
Map ID	Direction	EDR ID Number
Distance	Site	EPA ID Number
Elevation	Database(s)	

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Waste code:	D039
Waste name:	TETRACHLOROETHYLENE
Waste code:	F005
Waste name:	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste code:	U044
Waste name:	CHLOROFORM
Waste code:	U080
Waste name:	METHANE, DICHLORO-
Biennial Reports:	
Last Biennial Reporting Year:	2013
Annual Waste Handled:	
Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs):	25430.8
Waste code:	D007
Waste name:	CHROMIUM
Amount (Lbs):	876.2

Facility Has Received Notices of Violations:

Regulation violated:	Not reported
Area of violation:	Universal Waste - Small Quantity Handlers
Date violation determined:	11/20/2014
Date achieved compliance:	11/24/2014
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	12/02/2014
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	Not reported
Area of violation:	Universal Waste - Small Quantity Handlers
Date violation determined:	11/20/2014
Date achieved compliance:	11/20/2014

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MAP FINDINGS		
Map ID	Direction	EDR ID Number
Distance	Site	EPA ID Number
Elevation	Database(s)	

KIK CUSTOM PRODUCTS INC (Continued) 1000695951

Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	12/02/2014
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	Not reported
Area of violation:	Used Oil - Generators
Date violation determined:	11/20/2014
Date achieved compliance:	12/02/2014
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	12/02/2014
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	Not reported
Area of violation:	TSD IS-Container Use and Management
Date violation determined:	10/23/2009
Date achieved compliance:	10/30/2009
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	01/15/2010
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	Not reported
Area of violation:	Generators - Records/Reporting
Date violation determined:	10/23/2009
Date achieved compliance:	11/03/2009
Violation lead agency:	State
Enforcement action:	ENF. ACTION REQUEST
Enforcement action date:	03/10/2010
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	Not reported
Area of violation:	Generators - Records/Reporting
Date violation determined:	10/23/2009
Date achieved compliance:	11/03/2009
Violation lead agency:	State

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MAP FINDINGS		
Map ID	Direction	EDR ID Number
Distance	Site	EPA ID Number
Elevation	Database(s)	

KIK CUSTOM PRODUCTS INC (Continued) 1000695951

Enforcement action:	SHOW CAUSE MEETING
Enforcement action date:	05/11/2010
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	Not reported
Area of violation:	Generators - Records/Reporting
Date violation determined:	10/23/2009
Date achieved compliance:	11/03/2009
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	01/15/2010
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	Not reported
Area of violation:	Generators - Records/Reporting
Date violation determined:	10/23/2009
Date achieved compliance:	11/03/2009
Violation lead agency:	State
Enforcement action:	INITIAL 3008(A) COMPLIANCE
Enforcement action date:	05/15/2010
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	5600
Final penalty amount:	5600
Paid penalty amount:	11200
Regulation violated:	Not reported
Area of violation:	TSD IS-Container Use and Management
Date violation determined:	10/23/2009
Date achieved compliance:	10/30/2009
Violation lead agency:	State
Enforcement action:	ENF. ACTION REQUEST
Enforcement action date:	03/10/2010
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	Not reported
Area of violation:	TSD IS-Container Use and Management
Date violation determined:	10/23/2009
Date achieved compliance:	10/30/2009
Violation lead agency:	State
Enforcement action:	SHOW CAUSE MEETING

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KIK CUSTOM PRODUCTS INC (Continued)

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Enforcement action date: 05/11/2010  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: Not reported  
 Area of violation: Generators - Pre-transport  
 Date violation determined: 10/23/2009  
 Date achieved compliance: 10/30/2009  
 Violation lead agency: State  
 Enforcement action: WRITTEN INFORMAL  
 Enforcement action date: 01/15/2010  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: Not reported  
 Area of violation: Generators - Pre-transport  
 Date violation determined: 10/23/2009  
 Date achieved compliance: 10/30/2009  
 Violation lead agency: State  
 Enforcement action: INITIAL 3008(A) COMPLIANCE  
 Enforcement action date: 06/16/2010  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: 5600  
 Final penalty amount: 5600  
 Paid penalty amount: 11200

Regulation violated: Not reported  
 Area of violation: Generators - Pre-transport  
 Date violation determined: 10/23/2009  
 Date achieved compliance: 10/30/2009  
 Violation lead agency: State  
 Enforcement action: SHOW CAUSE MEETING  
 Enforcement action date: 05/11/2010  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: Not reported  
 Area of violation: Generators - Pre-transport  
 Date violation determined: 10/23/2009  
 Date achieved compliance: 10/30/2009  
 Violation lead agency: State  
 Enforcement action: ENF. ACTION REQUEST  
 Enforcement action date: 03/10/2010

KIK CUSTOM PRODUCTS INC (Continued)

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Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: Not reported  
 Area of violation: TSD IS-Container Use and Management  
 Date violation determined: 10/23/2009  
 Date achieved compliance: 10/30/2009  
 Violation lead agency: State  
 Enforcement action: INITIAL 3008(A) COMPLIANCE  
 Enforcement action date: 06/16/2010  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: 5600  
 Final penalty amount: 5600  
 Paid penalty amount: 11200

Regulation violated: SR - 1200-1-11-.05(4)(c)4  
 Area of violation: Generators - Pre-transport  
 Date violation determined: 12/04/2003  
 Date achieved compliance: 02/13/2004  
 Violation lead agency: State  
 Enforcement action: WRITTEN INFORMAL  
 Enforcement action date: 01/16/2004  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: SR - 1200-1-11-.12(2)(e)5  
 Area of violation: Generators - Pre-transport  
 Date violation determined: 12/04/2003  
 Date achieved compliance: 12/11/2003  
 Violation lead agency: State  
 Enforcement action: WRITTEN INFORMAL  
 Enforcement action date: 01/16/2004  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: SR - 1200-1-11-.12(2)(d)4(i)(i)  
 Area of violation: Generators - Pre-transport  
 Date violation determined: 12/04/2003  
 Date achieved compliance: 12/11/2003  
 Violation lead agency: State  
 Enforcement action: WRITTEN INFORMAL  
 Enforcement action date: 01/16/2004  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported

KIK CUSTOM PRODUCTS INC (Continued)

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Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: SR - 1200-1-11-.03(4)(e)5(i)(II)  
 Area of violation: Generators - Pre-transport  
 Date violation determined: 12/04/2003  
 Date achieved compliance: 12/11/2003  
 Violation lead agency: State  
 Enforcement action: WRITTEN INFORMAL  
 Enforcement action date: 01/16/2004  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: SR - 1200-1-11.05(2)(g)3  
 Area of violation: Generators - Pre-transport  
 Date violation determined: 12/04/2003  
 Date achieved compliance: 02/13/2004  
 Violation lead agency: State  
 Enforcement action: WRITTEN INFORMAL  
 Enforcement action date: 01/16/2004  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: SR - 1200-1-11-.05(9)(e)  
 Area of violation: Generators - Pre-transport  
 Date violation determined: 12/04/2003  
 Date achieved compliance: 12/11/2003  
 Violation lead agency: State  
 Enforcement action: WRITTEN INFORMAL  
 Enforcement action date: 01/16/2004  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: SR - 1200-1-11-.11(3)(c)3(i)  
 Area of violation: Generators - Pre-transport  
 Date violation determined: 12/04/2003  
 Date achieved compliance: 12/04/2003  
 Violation lead agency: State  
 Enforcement action: WRITTEN INFORMAL  
 Enforcement action date: 01/16/2004  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported

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Enforcement lead agency: State  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Evaluation Action Summary:  
 Evaluation date: 11/20/2014  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Universal Waste - Small Quantity Handlers  
 Date achieved compliance: 11/20/2014  
 Evaluation lead agency: State

Evaluation date: 11/20/2014  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Used Oil - Generators  
 Date achieved compliance: 12/02/2014  
 Evaluation lead agency: State

Evaluation date: 11/20/2014  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Universal Waste - Small Quantity Handlers  
 Date achieved compliance: 11/24/2014  
 Evaluation lead agency: State

Evaluation date: 06/16/2010  
 Evaluation: NOT A SIGNIFICANT NON-COMPLIER  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 03/10/2010  
 Evaluation: SIGNIFICANT NON-COMPLIER  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 02/15/2010  
 Evaluation: COMPLIANCE SCHEDULE EVALUATION  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 10/23/2009  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Generators - Records/Reporting  
 Date achieved compliance: 11/03/2009  
 Evaluation lead agency: State

Evaluation date: 10/23/2009  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Generators - Pre-transport  
 Date achieved compliance: 10/30/2009  
 Evaluation lead agency: State

Evaluation date: 10/23/2009  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: TSD IS-Container Use and Management

KIK CUSTOM PRODUCTS INC (Continued)

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Date achieved compliance: 10/30/2009  
 Evaluation lead agency: State  
 Evaluation date: 10/31/2005  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State  
 Evaluation date: 02/17/2004  
 Evaluation: COMPLIANCE SCHEDULE EVALUATION  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State  
 Evaluation date: 12/04/2003  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Generators - Pre-transport  
 Date achieved compliance: 12/04/2003  
 Evaluation lead agency: State  
 Evaluation date: 12/04/2003  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Generators - Pre-transport  
 Date achieved compliance: 02/13/2004  
 Evaluation lead agency: State  
 Evaluation date: 12/04/2003  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Generators - Pre-transport  
 Date achieved compliance: 12/11/2003  
 Evaluation lead agency: State  
 Evaluation date: 11/21/1994  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State  
 HIST UST:  
 Facility ID: 9-790632  
 Facility Description: Commercial  
 Owner ID: 13891  
 Owner Name: CCL CUSTOM MANUFACTURING INC  
 Owner Address: 1725 South 3rd St.  
 Owner City, St, Zip: Memphis, TN 38109  
 Owner Telephone: (901) 947-5400  
 Owner Description: Private  
 Tank ID: 8  
 Tank Status: Permanently Out of Use  
 Tank Capacity: 10000  
 Tank Contents: Diesel  
 Tank Material: Asphalt Coated or Bare Steel  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False

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Tank ATG: False  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: 04/28/1976  
 Tank Leak Detection Listed: True  
 Pipe Material: Bare Steel  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True  
 Tank ID: 6  
 Tank Status: Permanently Out of Use  
 Tank Capacity: 30000  
 Tank Contents: Diesel  
 Tank Material: Asphalt Coated or Bare Steel  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: False  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: 04/28/1977  
 Tank Leak Detection Listed: True  
 Pipe Material: Bare Steel  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

KIK CUSTOM PRODUCTS INC (Continued)

1000695951

Tank ID: 7  
 Tank Status: Permanently Out of Use  
 Tank Capacity: 15000  
 Tank Contents: Diesel  
 Tank Material: Asphalt Coated or Bare Steel  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: False  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: 04/28/1977  
 Tank Leak Detection Listed: True  
 Pipe Material: Bare Steel  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True  
 SPILLS:  
 State Incident Number: 200200-1032  
 Incident Type: Spill  
 Incident Date: 04/16/2002  
 Incident Notes: Not reported  
 Incident Description: OIL / PETROLEUM SPILL / LEAK  
 Date Received: 04/09/2002  
 Time Received: 10:09:00 PM  
 Milemarker: Not reported  
 Route: Not reported  
 Affected Areas: Soil  
 Carrier Type: Not reported  
 Carrier / Resp Party: Not reported  
 Responsible Party Contact: Unknown  
 Responsible Party Phone: Not reported  
 Material: Oil Products  
 Estimated Amount: Unknown  
 Date Closed: 04/22/2002  
 Condition of Closure: No Further Action  
 Closed By: John Boatright  
 Damages: False  
 Fire: False  
 Explosion: False  
 Evacuation: False  
 Exposure: False

KIK CUSTOM PRODUCTS INC (Continued)

1000695951

Fishkill: False  
 Drinking Water Impacted: False  
 ER Guide: Not reported  
 Specific Chemical ID Number: Not reported  
 State Incident Number: 200900-4384  
 Incident Type: Spill  
 Incident Date: 10/20/2009  
 Incident Notes: 1628 Kevin Weaver called on behalf of the KIK Corporation in Memphis to report a release of perfume oil. The company bottles perfume and in the process a small amount of oils exit the roof of the facility via a ventilation system. The recent rain caused a runoff of the perfume oil buildup from the roof into a ditch. There is a very small sheen and it smells of perfume. The company dyked the release and Hill Services is responding for cleanup. MD  
 Incident Description: CHEMICAL RELEASE / SPILL  
 Date Received: 10/21/2009  
 Time Received: 7:40:00 AM  
 Milemarker: Not reported  
 Route: Not reported  
 Affected Areas: Ditchline  
 Carrier Type: Not reported  
 Carrier / Resp Party: Not reported  
 Responsible Party Contact: KIK Corporation  
 Responsible Party Phone: Not reported  
 Material: Chemical Product  
 Estimated Amount: Unknown  
 Date Closed: 10/21/2009  
 Condition of Closure: No Further Action  
 Closed By: Jason Simpson  
 Damages: False  
 Fire: False  
 Explosion: False  
 Evacuation: False  
 Exposure: False  
 Fishkill: False  
 Drinking Water Impacted: False  
 ER Guide: Not reported  
 Specific Chemical ID Number: Not reported  
 AIRS (AFS):  
 Compliance and Violation Data Major Sources:  
 EPA plant ID: 110000821031  
 Plant name: KIK CUSTOM PRODUCTS  
 Plant address: 1725 SOUTH THIRD ST  
 MEMPHIS, TN 38109  
 County: SHELBY  
 Region code: 04  
 Dunn & Bradst #: 007029564  
 Air quality ctrl region: 018  
 Sic code: 2899  
 Sic code desc: CHEMICAL PREPARATIONS, NEC  
 North Am. industrial class: 325620  
 NAIC code description: Toilet Preparation Manufacturing  
 Default compliance status: IN COMPLIANCE - INSPECTION  
 Default classification: POTENTIAL EMISSIONS ARE BELOW ALL APPLICABLE MAJOR SOURCE THRESHOLDS



**KIK CUSTOM PRODUCTS INC (Continued)** 1000695951

IF AND ONLY IF THE SOURCE COMPLIES WITH FEDERALLY ENFORCEABLE REGULATIONS OR LIMITATIONS.  
 ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT  
 Govt facility: Not reported  
 Current HPV: Not reported

**M69 CCL CUSTOM MANUFACTURING INC TN UST U004173807**  
**NE 1725 SOUTH 3RD ST. N/A**  
**1/8-1/4 MEMPHIS, TN 38109**  
**0.140 mi.**  
**739 ft. Site 3 of 14 in cluster M**

**Relative:** UST:  
**Lower** Facility ID: 9790632  
 Facility Description: Commercial  
 Owner ID: 309091  
**Actual:** Owner Name: CCL CUSTOM MANUFACTURING INC  
**258 ft.** Owner Address: 1725 SOUTH 3RD ST.  
 Owner Address 2: Not reported  
 Owner City,St,Zip: MEMPHIS, TN 38109  
 Owner Description: Private  
 Tank Number: 6  
 Tank ID: 50958  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 51703  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 30000  
 Small Delivery: Not reported  
 Tank RD: NotListed  
 Substance Description: Diesel  
 Date Installed: 04/28/1977  
 Date Last Used: 11/30/1988  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Asphalt Coated or Bare Steel  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1988-11-30 00:00:00  
 Pipe Material Desc: Bare Steel  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported  
 Tank Number: 7

**CCL CUSTOM MANUFACTURING INC (Continued)** U004173807

Tank ID: 50959  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 51704  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 15000  
 Small Delivery: Not reported  
 Tank RD: NotListed  
 Substance Description: Diesel  
 Date Installed: 04/28/1977  
 Date Last Used: 11/30/1988  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Asphalt Coated or Bare Steel  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1988-11-30 00:00:00  
 Pipe Material Desc: Bare Steel  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

Tank Number: 8  
 Tank ID: 50960  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 51705  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 10000  
 Small Delivery: Not reported  
 Tank RD: NotListed  
 Substance Description: Diesel  
 Date Installed: 04/28/1976  
 Date Last Used: 11/30/1988  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Asphalt Coated or Bare Steel  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1988-11-30 00:00:00

**CCL CUSTOM MANUFACTURING INC (Continued)** U004173807

Pipe Material Desc: Bare Steel  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

**M70 CCL CUSTOM MANUFACTURING INC TN LUST \$107464940**  
**NE 1725 SOUTH THIRD ST. N/A**  
**1/8-1/4 MEMPHIS, TN 38109**  
**0.140 mi.**  
**739 ft. Site 4 of 14 in cluster M**

**Relative:** LUST:  
**Lower** Region: STATE  
 Facility Id: 9790632  
**Actual:** Current Status: 1a Completed Tank Closure  
**258 ft.** Product Released: -  
 Discovery Date: Not reported  
 How Discovered: -  
 Cause: -  
 Case Manager: Cindy Patton  
 Case Description: NOT REGULATED UST'S, CHEMICAL TANKS  
 Section: FO  
 Priority: -  
 Owner ID: 0  
 Company Name: CCL CUSTOM MANUFACTU  
 Owner Address: 1725 SOUTH 3RD STREET  
 Owner City: MEMPHIS  
 Owner State: TN  
 Owner Zip Code: 38109  
 Owner Telephone: (901) 947-5400  
 Owner Address 2: -  
 fadd2: Not reported  
 Site Number: 1  
 Contact: Not reported  
 Cac Contact: -  
 Contact Title: -  
 Consultant Address 1: -  
 Consultant Address 2: -  
 Contact City: -  
 Contact State: -  
 Contact Phone: -  
 Contact zip: -  
 Contact cac: -

**M71 SHULTON INC TOILETRIES DIV CERC-NFRAP 1000292708**  
**NE 1725 S 3RD ST. RCRA NonGen / NLR TND007029564**  
**1/8-1/4 MEMPHIS, TN 38109**  
**0.140 mi.**  
**739 ft. Site 5 of 14 in cluster M**

**Relative:** CERC-NFRAP:  
**Lower** Site ID: 0403636  
 Federal Facility: Not a Federal Facility  
**Actual:** NPL Status: Not on the NPL  
**258 ft.**

**SHULTON INC TOILETRIES DIV (Continued)** 1000292708

Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

**CERCLIS-NFRAP Site Contact Details:**

Contact Sequence ID: 4319262.00000  
 Person ID: 4000108.00000  
 Contact Sequence ID: 4321371.00000  
 Person ID: 4000580.00000  
 Contact Sequence ID: 4322868.00000  
 Person ID: 4000566.00000  
 Contact Sequence ID: 4329816.00000  
 Person ID: 4000150.00000  
 Contact Sequence ID: 4688309.00000  
 Person ID: 4270652.00000  
 Contact Sequence ID: 4756762.00000  
 Person ID: 4000275.00000  
 Contact Sequence ID: 4782588.00000  
 Person ID: 13002428.00000  
 Contact Sequence ID: 4866029.00000  
 Person ID: 4272764.00000  
 Contact Sequence ID: 13064620.00000  
 Person ID: 4272870.00000

**CERCLIS-NFRAP Site Alias Name(s):**

Alias Name: SHULTON INC TOILETRIES DIV  
 Alias Address: Not reported  
 SHELBY, TN

**CERCLIS-NFRAP Assessment History:**

Action: DISCOVERY  
 Date Started: / /  
 Date Completed: 08/01/80  
 Priority Level: Not reported

Action: ARCHIVE SITE  
 Date Started: / /  
 Date Completed: 08/01/84  
 Priority Level: Not reported

**Action: PRELIMINARY ASSESSMENT**

Date Started: / /  
 Date Completed: 08/01/84  
 Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

**RCRA NonGen / NLR:**

Date form received by agency: 02/26/1993  
 Facility name: SHULTON, INC  
 Facility address: 1725 SO THIRD ST

MAP FINDINGS

SHULTON INC TOILETRIES DIV (Continued) 1000292708

MEMPHIS, TN 38109  
 EPA ID: TND00702864  
 Mailing address: CENTER HILL AVE FB2N17  
 CINCINNATI, OH 45224  
 Contact: DAVID LEE  
 Contact address: 1725 SO THIRD ST  
 MEMPHIS, TN 38109  
 Contact country: US  
 Contact telephone: (513) 634-1180  
 Contact email: Not reported  
 EPA Region: 04  
 Land type: Facility is not located on Indian land. Additional information is not known.  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Historical Generators:

Date form received by agency: 02/25/1992  
 Site name: SHULTON, INC  
 Classification: Large Quantity Generator

Date form received by agency: 02/27/1990  
 Site name: SHULTON, INC. U.S.A. DIVISION  
 Classification: Large Quantity Generator

Corrective Action Summary:

Event date: 09/30/1987  
 Event: RFA Completed  
 Event date: 09/30/1987  
 Event: RFA Determination Of Need For An RFI, RFI is Not Necessary;  
 Event date: 09/30/1987  
 Event: RFA Completed  
 Event date: 07/12/1996  
 Event: RFA Determination Of Need For An RFI, RFI is Not Necessary;

Facility Has Received Notices of Violations:

MAP FINDINGS

SHULTON INC TOILETRIES DIV (Continued) 1000292708

Regulation violated: SR - 11-.05(2)(g)(4)(i);1361  
 Area of violation: TSD - General Facility Standards  
 Date violation determined: 03/25/1992  
 Date achieved compliance: 04/25/1992  
 Violation lead agency: State  
 Enforcement action: Not reported  
 Enforcement action date: Not reported  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: Not reported  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: SR - 11-.05(3)(d);2080  
 Area of violation: TSD - Preparedness and Prevention  
 Date violation determined: 03/25/1992  
 Date achieved compliance: 04/25/1992  
 Violation lead agency: State  
 Enforcement action: Not reported  
 Enforcement action date: Not reported  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: Not reported  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: SR - 11-.05(2)(e)2;2005  
 Area of violation: TSD - General Facility Standards  
 Date violation determined: 03/25/1992  
 Date achieved compliance: 04/25/1992  
 Violation lead agency: State  
 Enforcement action: Not reported  
 Enforcement action date: Not reported  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: Not reported  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: SR - 11-.03(4)(e)1(iv);0155  
 Area of violation: Generators - Pre-transport  
 Date violation determined: 12/19/1986  
 Date achieved compliance: 03/09/1987  
 Violation lead agency: State  
 Enforcement action: WRITTEN INFORMAL  
 Enforcement action date: 12/30/1986  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: SR - 11-.03(4)(e)1(iv);0087

MAP FINDINGS

SHULTON INC TOILETRIES DIV (Continued) 1000292708

Area of violation: Generators - Pre-transport  
 Date violation determined: 12/19/1986  
 Date achieved compliance: 03/09/1987  
 Violation lead agency: State  
 Enforcement action: WRITTEN INFORMAL  
 Enforcement action date: 12/30/1986  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: SR - 11-.03(4)(e)1(iv);0605  
 Area of violation: Generators - Pre-transport  
 Date violation determined: 12/19/1986  
 Date achieved compliance: 03/09/1987  
 Violation lead agency: State  
 Enforcement action: WRITTEN INFORMAL  
 Enforcement action date: 12/30/1986  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: SR - 11-.03(4)(e)1(i);0035  
 Area of violation: Generators - Pre-transport  
 Date violation determined: 12/19/1986  
 Date achieved compliance: 03/09/1987  
 Violation lead agency: State  
 Enforcement action: WRITTEN INFORMAL  
 Enforcement action date: 12/30/1986  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: Not reported  
 Area of violation: TSD - General  
 Date violation determined: 12/19/1986  
 Date achieved compliance: 03/09/1987  
 Violation lead agency: State  
 Enforcement action: WRITTEN INFORMAL  
 Enforcement action date: 12/30/1986  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: State  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Regulation violated: Not reported  
 Area of violation: TSD - Financial Requirements

MAP FINDINGS

SHULTON INC TOILETRIES DIV (Continued) 1000292708

Date violation determined: 09/28/1984  
 Date achieved compliance: 09/28/1984  
 Violation lead agency: EPA  
 Enforcement action: WRITTEN INFORMAL  
 Enforcement action date: 09/28/1984  
 Enf. disposition status: Not reported  
 Enf. disp. status date: Not reported  
 Enforcement lead agency: EPA  
 Proposed penalty amount: Not reported  
 Final penalty amount: Not reported  
 Paid penalty amount: Not reported

Evaluation Action Summary:  
 Evaluation date: 12/03/1992  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 10/29/1992  
 Evaluation: FOCUSED COMPLIANCE INSPECTION  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 03/25/1992  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: TSD - General Facility Standards  
 Date achieved compliance: 04/25/1992  
 Evaluation lead agency: State

Evaluation date: 03/25/1992  
 Evaluation: FOCUSED COMPLIANCE INSPECTION  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 03/25/1992  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: TSD - Preparedness and Prevention  
 Date achieved compliance: 04/25/1992  
 Evaluation lead agency: State

Evaluation date: 02/20/1991  
 Evaluation: FOCUSED COMPLIANCE INSPECTION  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 02/20/1991  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 03/13/1990  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

**SHULTON INC TOILETRIES DIV (Continued)**

1000292708

Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 08/07/1989  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 06/29/1988  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 06/19/1987  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 03/16/1987  
 Evaluation: FINANCIAL RECORD REVIEW  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 03/09/1987  
 Evaluation: COMPLIANCE SCHEDULE EVALUATION  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 12/19/1986  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Generators - Pre-transport  
 Date achieved compliance: 03/09/1987  
 Evaluation lead agency: State

Evaluation date: 12/19/1986  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: TSD - General  
 Date achieved compliance: 03/09/1987  
 Evaluation lead agency: State

Evaluation date: 06/24/1985  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 05/29/1985  
 Evaluation: COMPLIANCE SCHEDULE EVALUATION  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

**SHULTON INC TOILETRIES DIV (Continued)**

1000292708

Evaluation date: 03/25/1985  
 Evaluation: FINANCIAL RECORD REVIEW  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 09/28/1984  
 Evaluation: NON-FINANCIAL RECORD REVIEW  
 Area of violation: TSD - Financial Requirements  
 Date achieved compliance: 09/28/1984  
 Evaluation lead agency: EPA

Evaluation date: 06/01/1984  
 Evaluation: FOCUSED COMPLIANCE INSPECTION  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: EPA-Initiated Oversight/Observation/Training Actions

**J72** AUTHORIZED SIMONIG STA EDR US Hist Auto Stat 101415038  
**SSE** 204 COURT AVE N/A  
**1/8-1/4** MEMPHIS, TN  
**0.143 mi.**  
**754 ft.** Site 8 of 10 in cluster J  
 Relative: EDR Historical Auto Stations:  
**Lower** Name: AUTHORIZED SIMONIG STA  
 Year: 1926  
**Actual:** Type: AUTOMOBILE REPAIRS  
**256 ft.**

**J73** SIENDELMAN LAZAR HATTER EDR US Hist Cleaners 1014150199  
**SSE** 165 COURT AVE N/A  
**1/8-1/4** MEMPHIS, TN  
**0.143 mi.**  
**757 ft.** Site 9 of 10 in cluster J  
 Relative: EDR Historical Cleaners:  
**Lower** Name: SIENDELMAN LAZAR HATTER  
 Year: 1932  
**Actual:** Type: HAT CLEANERS AND BLOCKERS  
**257 ft.**

**M74** 141 POPLAR AVE EDR US Hist Auto Stat 101522807  
**NNE** MEMPHIS, TN 38103 N/A  
**1/8-1/4**  
**0.145 mi.**  
**766 ft.** Site 6 of 14 in cluster M  
 Relative: EDR Historical Auto Stations:  
**Higher** Name: BREWERS BODY SHOP  
 Year: 2006  
**Actual:** Address: 141 POPLAR AVE  
**260 ft.**

**M75** SPIRO CLEANING CO EDR US Hist Cleaners 1014154787  
**NNE** 127 POPLAR AVE N/A  
**1/8-1/4** MEMPHIS, TN  
**0.145 mi.**  
**766 ft.** Site 7 of 14 in cluster M  
 Relative: EDR Historical Cleaners:  
**Higher** Name: SPIRO CLEANING CO  
 Year: 1921  
**Actual:** Type: CLOTHES CLEANERS AND PRESSERS  
**260 ft.**

**M76** SIMPSON MERLE MRS 2D HD EDR US Hist Cleaners 1014143565  
**NNE** 123 POPLAR AVE N/A  
**1/8-1/4** MEMPHIS, TN  
**0.145 mi.**  
**768 ft.** Site 8 of 14 in cluster M  
 Relative: EDR Historical Cleaners:  
**Higher** Name: SIMPSON MERLE MRS 2D HD  
 Year: 1938  
**Actual:** Type: CLOTHES PRESSERS AND CLEANERS  
**259 ft.**

**M77** K & L SERVICE CO FILL STA EDR US Hist Auto Stat 1014190865  
**NNE** 173 2ND N N/A  
**1/8-1/4** MEMPHIS, TN  
**0.146 mi.**  
**771 ft.** Site 9 of 14 in cluster M  
 Relative: EDR Historical Auto Stations:  
**Higher** Name: K & L SERVICE CO FILL STA  
 Year: 1932  
**Actual:** Type: GASOLINE AND OIL SERVICE STATIONS  
**260 ft.**

**M78** GUY LEE INDY EDR US Hist Cleaners 1014151740  
**NNE** 124 POPLAR BLVD N/A  
**1/8-1/4** MEMPHIS, TN  
**0.146 mi.**  
**772 ft.** Site 10 of 14 in cluster M  
 Relative: EDR Historical Cleaners:  
**Higher** Name: GUY LEE INDY  
 Year: 1932  
**Actual:** Type: LAUNDRIES  
**260 ft.**

**N79** AUDITORIUM I PARKING LOT EDR US Hist Auto Stat 1014165031  
**North** 81 POPLAR AVE N/A  
**1/8-1/4** MEMPHIS, TN  
**0.146 mi.**  
**773 ft.** Site 1 of 5 in cluster N  
 Relative: EDR Historical Auto Stations:  
**Lower** Name: AUDITORIUM I PARKING LOT  
 Year: 1943  
**Actual:** Type: GASOLINE AND OIL SERVICE STATIONS  
**257 ft.**

**M80** FIRESTONE TIRE AND RUBBER US BROWNFIELDS FINDS 1016352462  
**NNE** 138 POPLAR AVE N/A  
**1/8-1/4** MEMPHIS, TN 38103  
**0.147 mi.**  
**775 ft.** Site 11 of 14 in cluster M  
 Relative: US BROWNFIELDS:  
**Higher** Recipient name: Memphis, City of  
 Grant type: Assessment  
**Actual:** Property name: FIRESTONE TIRE AND RUBBER  
 Property #: Not reported  
 Parcel size: 88  
 Property Description: FIRESTONE PLANT  
 Latitude: 35.149632  
 Longitude: -90.048912  
 HCM label: Not reported  
 Map scale: Not reported  
 Point of reference: Not reported  
 Datum: Not reported  
 ACRES property ID: 13629  
 Start date: Not reported  
 Completed date: Not reported  
 Acres cleaned up: Not reported  
 Cleanup funding: Not reported  
 Cleanup funding source: Not reported  
 Assessment funding: Not reported  
 Assessment funding source: Not reported  
 Redevelopment funding: Not reported  
 Redev. funding source: Not reported  
 Redev. funding entity name: Not reported  
 Redevelopment start date: Not reported  
 Assessment funding entity: Not reported  
 Cleanup funding entity: Not reported  
 Grant type: N/A  
 Accomplishment type: Phase I Environmental Assessment  
 Accomplishment count: 0  
 Cooperative agreement #: 98431897  
 Ownership entity: Not reported  
 Current owner: Not reported  
 Did owner change: Not reported  
 Cleanup required: Yes  
 Video available: Not reported  
 Photo available: Not reported  
 Institutional controls required: Not reported  
 IC Category proprietary controls: Not reported  
 IC cat. info. devices: Not reported  
 IC cat. gov. controls: Not reported  
 IC cat. enforcement permit tools: Not reported  
 IC in place date: Not reported  
 IC in place: Unknown  
 State/tribal program date: Not reported  
 State/tribal program ID: Not reported  
 State/tribal NFA date: Not reported  
 Air contaminated: Not reported  
 Air cleaned: Not reported  
 Asbestos found: Not reported  
 Asbestos cleaned: Not reported  
 Controlled substance found: Not reported  
 Controlled substance cleaned: Not reported

**FIRESTONE TIRE AND RUBBER (Continued)**

1016352462

Drinking water affected: Not reported  
 Drinking water cleaned: Not reported  
 Groundwater affected: Not reported  
 Groundwater cleaned: Not reported  
 Lead contaminant found: Not reported  
 Lead cleaned up: Not reported  
 No media affected: Not reported  
 Unknown media affected: Not reported  
 Other cleaned up: Not reported  
 Other metals found: Not reported  
 Other metals cleaned: Not reported  
 Other contaminants found: Not reported  
 Other contains found description: Not reported  
 PAHs found: Not reported  
 PAHs cleaned up: Not reported  
 PCBs found: Not reported  
 PCBs cleaned up: Not reported  
 Petro products found: Not reported  
 Petro products cleaned: Not reported  
 Sediments found: Not reported  
 Sediments cleaned: Not reported  
 Soil affected: Not reported  
 Soil cleaned up: Not reported  
 Surface water cleaned: Not reported  
 VOCs found: Not reported  
 VOCs cleaned: Not reported  
 Cleanup other description: Not reported  
 Num. of cleanup and re-dev. jobs: Not reported  
 Past use greenspace acreage: Not reported  
 Past use residential acreage: Not reported  
 Past use commercial acreage: Not reported  
 Past use industrial acreage: Not reported  
 Future use greenspace acreage: Not reported  
 Future use residential acreage: Not reported  
 Future use commercial acreage: Not reported  
 Future use industrial acreage: Not reported  
 Greenspace acreage and type: Not reported  
 Superfund Fed. landowner flag: Not reported  
 Arsenic cleaned up: Not reported  
 Cadmium cleaned up: Not reported  
 Chromium cleaned up: Not reported  
 Copper cleaned up: Not reported  
 Iron cleaned up: Not reported  
 mercury cleaned up: Not reported  
 nickel cleaned up: Not reported  
 No clean up: Not reported  
 Pesticides cleaned up: Not reported  
 Selenium cleaned up: Not reported  
 SVOCs cleaned up: Not reported  
 Unknown clean up: Not reported  
 Arsenic contaminant found: Not reported  
 Cadmium contaminant found: Not reported  
 Chromium contaminant found: Not reported  
 Copper contaminant found: Not reported  
 Iron contaminant found: Not reported  
 Mercury contaminant found: Not reported  
 Nickel contaminant found: Not reported

**FIRESTONE TIRE AND RUBBER (Continued)**

1016352462

No contaminant found: Not reported  
 Pesticides contaminant found: Not reported  
 Selenium contaminant found: Not reported  
 SVOCs contaminant found: Not reported  
 Unknown contaminant found: Not reported  
 Future Use: Multistory Not reported  
 Media affected Bludging Material: Not reported  
 Media affected indoor air: Not reported  
 Building material media cleaned up: Not reported  
 Indoor air media cleaned up: Not reported  
 Unknown media cleaned up: Not reported  
 Past Use: Multistory Not reported

**FINDS:**

Registry ID: 110039552070

Environmental Interest/Information System  
 US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES)  
 is a federal online database for Brownfields Grantees to electronically submit data directly to EPA.

**M81 GUY LEE LAUNDRY EDR US Hist Cleaners 101445004**  
**NNE 124 POPLAR AVE N/A**  
**1/8-1/4 MEMPHIS, TN**  
**0.147 mi.**  
**777 ft. Site 12 of 14 in cluster M**

**Relative:** EDR Historical Cleaners:  
**Higher** Name: LEE GUY  
 Year: 1921  
 Type: LAUNDRIES  
**Actual:** 260 ft.  
 Name: LEE GUY INDRY  
 Year: 1939  
 Type: LAUNDRIES-CHINESE  
 Name: LEE GUY INDRY  
 Year: 1943  
 Type: LAUNDRIES-CHINESE  
 Name: JEW LEE INDRY  
 Year: 1948  
 Type: LAUNDRIES-CHINESE  
 Name: GUY LEE LAUNDRY  
 Year: 1953  
 Type: LAUNDRIES-SELF SERVICE

**N82 AUDITORIUM CLEANERS EDR US Hist Cleaners 1014144233**

**North 85 POPLAR BLVD N/A**  
**1/8-1/4 MEMPHIS, TN**  
**0.147 mi.**  
**777 ft. Site 2 of 5 in cluster N**

**Relative:** EDR Historical Cleaners:  
**Lower** Name: AUDITORIUM CLEANERS  
 Year: 1932  
 Type: CLOTHES PRESSERS AND CLEANERS  
**Actual:** 257 ft.

**M83 MASCARI JOS AUTO STORAGE EDR US Hist Auto Stat 1014196023**

**NNE 116 POPLAR AVE N/A**  
**1/8-1/4 MEMPHIS, TN**  
**0.147 mi.**  
**778 ft. Site 13 of 14 in cluster M**

**Relative:** EDR Historical Auto Stations:  
**Higher** Name: MASCARI JOS AUTO STORAGE  
 Year: 1943  
 Type: AUTOMOBILE GARAGES  
**Actual:** 259 ft.

**N84 FEDERAL RESERVE BANK OF ST. LOUIS MEMPHIS TN UST 0004185374**

**North 200 NORTH MAIN ST. N/A**  
**1/8-1/4 MEMPHIS, TN 38103**  
**0.150 mi.**  
**790 ft. Site 3 of 5 in cluster N**

**Relative:** UST:  
**Lower** Facility ID: 9792579  
 Facility Description: Federal Non Military  
 Owner ID: 309328  
 Owner Name: FEDERAL RESERVE BANK OF ST. LOUIS MEMPHIS BRANCH  
 Owner Address: 200 NORTH MAIN ST.  
 Owner Address 2: Not reported  
 Owner City,St,Zip: MEMPHIS, TN 38103  
 Owner Description: Federal Government  
 Tank Number: 1  
 Tank ID: 52148  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 52932  
 Compartment Letter: A  
 Compartment Status: Currently In Use  
 Compartment Capacity: 10000  
 Small Delivery: Not reported  
 Tank RD: ATG Ground/Water/Monit  
 Substance Description: Diesel  
 Date Installed: 04/01/1978  
 Date Last Used: Not reported  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Epoxy Coated Steel Should all be StIP3  
 Tank Mod Desc: None  
 Tank Emergency: Not reported

**FEDERAL RESERVE BANK OF ST. LOUIS MEMPHIS (Continued) U004185374**

Tank No Fee: N  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: Not reported  
 Pipe Material Desc: Other  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

Tank Number: 2  
 Tank ID: 52149  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 52933  
 Compartment Letter: A  
 Compartment Status: Currently In Use  
 Compartment Capacity: 30000  
 Small Delivery: Not reported  
 Tank RD: ATG Ground/Water/Monit  
 Substance Description: Diesel  
 Date Installed: 04/01/1978  
 Date Last Used: Not reported  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Epoxy Coated Steel Should all be StIP3  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: N  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: Not reported  
 Pipe Material Desc: Not Listed  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

**N85 FEDERAL RESERVE BANK OF ST. LOUIS - MEMPHIS TN HIST UST 0003186449**

**North 200 NORTH MAIN ST. N/A**  
**1/8-1/4 MEMPHIS, TN 38103**  
**0.150 mi.**  
**790 ft. Site 4 of 5 in cluster N**

**Relative:** HIST UST:  
**Lower** Facility ID: 9-792579  
 Facility Description: Federal Non-Military  
**Actual:** 257 ft.  
 Owner ID: 156421  
 Owner Name: Federal Reserve Bank of St. Louis - Memphis Branch  
 Owner Address: 200 North Main St.  
 Owner City,St,Zip: Memphis, TN 38103



FEDERAL RESERVE BANK OF ST. LOUIS - MEMPHIS (Continued)

U003186449

Owner Telephone: (901) 523-7171  
 Owner Description: Federal Government

Tank ID: 1  
**Tank Status:** Currently In Use  
 Tank Capacity: 10000  
 Tank Contents: Diesel  
 Tank Material: Epoxy Coated Steel  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: True  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: True  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: Not reported  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: True  
 Date Installed: 04/01/1978  
 Tank Leak Detection Listed: False  
 Pipe Material: Other  
 Pipe Other Material: Double-Walled  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

Tank ID: 2  
**Tank Status:** Currently In Use  
 Tank Capacity: 30000  
 Tank Contents: Diesel  
 Tank Material: Epoxy Coated Steel  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: True  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: True  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: True  
 Date Installed: 04/01/1978  
 Tank Leak Detection Listed: False  
 Pipe Material: Not Listed

FEDERAL RESERVE BANK OF ST. LOUIS - MEMPHIS (Continued)

U003186449

Pipe Other Material: Double-Walled  
 Pipe Type: Safe Suction  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

M86 VEAVERS LAUNDRY & CLEAN  
 NE 169 POPLAR AVE  
 1/8-1/4 MEMPHIS, TN  
 0.151 mi.  
 798 ft.

EDR US Hist Cleaners 1014152768  
 N/A

Site 14 of 14 in cluster M

Relative: EDR Historical Cleaners:  
 Lower Name: VEAVERS LAUNDRY & CLEAN  
 Year: 1953  
 Actual: Type: LAUNDRIES  
 258 ft.

O87 HOLLEYS UNION  
 NE 182 3RD ST N  
 1/8-1/4 MEMPHIS, TN 38103  
 0.154 mi.  
 815 ft.

EDR US Hist Auto Stat 1014171802  
 N/A

Site 1 of 4 in cluster O

Relative: EDR Historical Auto Stations:  
 Lower Name: HOLLEYS PURE OIL  
 Year: 1968  
 Actual: Type: GASOLINE STATIONS  
 254 ft.  
 Name: HOLLEYS UNION  
 Year: 1973  
 Type: GASOLINE STATIONS

K88 ENDICOTT NELSON & SONS INC  
 South 9 NORTH 2ND STREET SUITE 1514  
 1/8-1/4 MEMPHIS, TN 38103  
 0.155 mi.  
 816 ft.

RCRA NonGen / NLR FINDS 1000915612  
 TND007038672

Site 3 of 3 in cluster K

Relative: RCRA NonGen / NLR:  
 Higher Date form received by agency: 11/19/1980  
 Facility name: ENDICOTT NELSON & SONS INC  
 Facility address: 9 NORTH 2ND STREET SUITE 1514  
 MEMPHIS, TN 38103  
 EPA ID: TND007038672  
 Mailing address: N 2ND ST SUITE 1514  
 MEMPHIS, TN 38103  
 Contact: ENDICOTT NELSON  
 Contact address: 9 NORTH 2ND STREET SUITE 1514  
 MEMPHIS, TN 38103  
 Contact country: US

ENDICOTT NELSON & SONS INC (Continued)

1000915612

Contact telephone: (615) 555-1212  
 Contact email: Not reported  
 EPA Region: 04  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110004961890

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

P89 NE COR NATL MEM GARAGES INC EDR US Hist Auto Stat 1014181973  
 SW 26 FRONT N MEMPHIS, TN N/A  
 1/8-1/4 MEMPHIS, TN  
 0.157 mi.  
 831 ft.

Relative: EDR Historical Auto Stations:  
 Higher Name: NE COR NATL MEM GARAGES INC  
 Year: 1932  
 Actual: Type: AUTOMOBILE GARAGES  
 261 ft.

90 A CLARIDGE GARAGE  
 WNW 91 PROMENADE ST  
 1/8-1/4 MEMPHIS, TN  
 0.158 mi.  
 836 ft.

EDR US Hist Auto Stat 1014159779  
 N/A

Relative: EDR Historical Auto Stations:  
 Lower Name: MEM GARAGE CO INC  
 Year: 1932  
 Actual: Type: AUTOMOBILE GARAGES  
 239 ft.  
 Name: CLARIDGE REPAIR SHOP  
 Year: 1932  
 Type: AUTOMOBILE REPAIRING  
 Name: CLARIDGE GARAGE  
 Year: 1932  
 Type: AUTOMOBILE GARAGES  
 Name: CLARIDGE GARAGE  
 Year: 1938  
 Type: AUTOMOBILE GARAGES  
 Name: A CLARIDGE GARAGE  
 Year: 1943  
 Type: AUTOMOBILE GARAGES  
 Name: CLARIDGE GARAGE  
 Year: 1948  
 Type: AUTOMOBILE GARAGES  
 Name: CLARIDGE GARAGE  
 Year: 1953  
 Type: AUTOMOBILE GARAGES

O91 WHITE PAUL A FILL STA  
 NE 185 POPLAR AVE  
 1/8-1/4 MEMPHIS, TN  
 0.159 mi.  
 837 ft.

EDR US Hist Auto Stat 1014170053  
 N/A

Site 2 of 4 in cluster O

Relative: EDR Historical Auto Stations:  
 Lower Name: JONES ARTH B FILLING STA  
 Year: 1938  
 Actual: Type: GASOLINE AND OIL SERVICE STATIONS  
 256 ft.  
 Name: WHITE PAUL A FILL STA  
 Year: 1943  
 Type: GASOLINE AND OIL SERVICE STATIONS  
 Name: I STANFORD HOUSTON L  
 Year: 1948  
 Type: GASOLINE AND OIL SERVICE STATIONS  
 Name: BIBB JESSE G GAS STA  
 Year: 1953  
 Type: GASOLINE STATIONS  
 Name: BIBB JESSE G GAS STA  
 Year: 1958

WHITE PAUL A FILL STA (Continued) 1014170053  
Type: GASOLINE STATIONS

N92 A MAKRIS THE HATTER EDR US Hist Cleaners 1014150756  
North 204 MAIN N N/A  
1/8-1/4 MEMPHIS, TN  
0.160 mi.  
847 ft. Site 5 of 5 in cluster N

Relative: EDR Historical Cleaners:  
Lower Name: MARKIS M N  
Year: 1926  
Actual: Type: CLOTHES CLEANERS AND PRESSERS  
257 ft.

Name: MAKRIS THE HATTER  
Year: 1932  
Type: HAT CLEANERS AND BLOCKERS

Name: MAKRIS THE HATTER  
Year: 1938  
Type: HAT CLEANERS AND BLOCKERS

Name: MALTRIS THE HATTER  
Year: 1943  
Type: HAT CLEANERS AND BLOCKERS

Name: MAKERIS THE HATTER  
Year: 1948  
Type: HAT CLEANERS AND BLOCKERS

Name: MAKRIS THE HATTER  
Year: 1953  
Type: HAT CLEANERS AND BLOCKERS

Name: A MAKRIS THE HATTER  
Year: 1958  
Type: HAT CLEANERS AND BLOCKERS

Q93 HUMPHREYS INVESTMENT CO TN HIST UST U003617995  
SSE 22 NORTH 3RD N/A  
1/8-1/4 MEMPHIS, TN 38103  
0.161 mi.  
849 ft. Site 1 of 9 in cluster Q

Relative: HIST UST:  
Higher Facility ID: 9-790411  
Facility Description: Not Listed  
Actual: Owner ID: 4485  
259 ft. Owner Name: HUMPHREYS INVESTMENT CO  
Owner Address: 22 North Third St.  
Owner City, St, Zip: Memphis, TN 38103  
Owner Telephone: (901) 528-8695  
Owner Description: Not Listed

Tank ID: 2  
Tank Status: Permanently Out of Use  
Tank Capacity: 4000

HUMPHREYS INVESTMENT CO (Continued) U003617995

Tank Contents: Not Listed  
Tank Material: Asphalt Coated or Bare Steel  
Tank 2ndary Trait: None  
Tank Manual Gauge: False  
Tank Tightness: False  
Tank Inventory Control: False  
Tank ATG: False  
Tank Vapor Monitor: False  
Tank Groundwater Monitor: False  
Tank Double Walled: False  
Tank 2nd Contained: False  
Tank SIR: False  
Overfill Installed: False  
Spill Installed: False  
Cathodic Protection: False  
Date Installed: 05/07/1963  
Tank Leak Detection Listed: True  
Pipe Material: Galvanized Steel  
Pipe Other Material: None  
Pipe Type: Not Listed  
Pipe Auto Line Leak Detect.: False  
Pipe Leak Detection Listed: False  
Pipe Vapor Monitor: False  
Pipe Groundwater Monitor: False  
Pipe Dbl Walled: Not reported  
Pipe 2nd Contained: False  
Pipe SIR: False  
Pipe Leak Detection Listed: True

Tank ID: 1  
Tank Status: Permanently Out of Use  
Tank Capacity: 4000  
Tank Contents: Not Listed  
Tank Material: Asphalt Coated or Bare Steel  
Tank 2ndary Trait: None  
Tank Manual Gauge: False  
Tank Tightness: False  
Tank Inventory Control: False  
Tank ATG: False  
Tank Vapor Monitor: False  
Tank Groundwater Monitor: False  
Tank Double Walled: False  
Tank 2nd Contained: False  
Tank SIR: False  
Overfill Installed: False  
Spill Installed: False  
Cathodic Protection: False  
Date Installed: 05/07/1963  
Tank Leak Detection Listed: True  
Pipe Material: Galvanized Steel  
Pipe Other Material: None  
Pipe Type: Not Listed  
Pipe Auto Line Leak Detect.: False  
Pipe Leak Detection Listed: False  
Pipe Vapor Monitor: False  
Pipe Groundwater Monitor: False

HUMPHREYS INVESTMENT CO (Continued) U003617995

Pipe Dbl Walled: Not reported  
Pipe 2nd Contained: False  
Pipe SIR: False  
Pipe Leak Detection Listed: True

Tank ID: 3  
Tank Status: Permanently Out of Use  
Tank Capacity: 550  
Tank Contents: Used Oil  
Tank Material: Asphalt Coated or Bare Steel  
Tank 2ndary Trait: None  
Tank Manual Gauge: False  
Tank Tightness: False  
Tank Inventory Control: False  
Tank ATG: False  
Tank Vapor Monitor: False  
Tank Groundwater Monitor: False  
Tank Double Walled: False  
Tank 2nd Contained: False  
Tank SIR: False  
Overfill Installed: False  
Spill Installed: False  
Cathodic Protection: False  
Date Installed: 01/01/1963  
Tank Leak Detection Listed: True  
Pipe Material: Bare Steel  
Pipe Other Material: None  
Pipe Type: Gravity Feed  
Pipe Auto Line Leak Detect.: False  
Pipe Leak Detection Listed: False  
Pipe Vapor Monitor: False  
Pipe Groundwater Monitor: False  
Pipe Dbl Walled: Not reported  
Pipe 2nd Contained: False  
Pipe SIR: False  
Pipe Leak Detection Listed: True

Q94 HUMPHREYS INVESTMENT CO TN UST U004173640  
SSE 22 NORTH 3RD N/A  
1/8-1/4 MEMPHIS, TN 38103  
0.161 mi.  
849 ft. Site 2 of 9 in cluster Q

Relative: UST:  
Higher Facility ID: 9790411  
Facility Description: Not Listed  
Actual: Owner ID: 308243  
259 ft. Owner Name: HUMPHREYS INVESTMENT CO  
Owner Address: 22 NORTH THIRD ST.  
Owner Address 2: Not reported  
Owner City, St, Zip: MEMPHIS, TN 38103  
Owner Description: Not Listed

Tank Number: 1  
Tank ID: 45974  
Tank Other Material: Not reported  
RSN Red Tagged: Not reported

HUMPHREYS INVESTMENT CO (Continued) U004173640

Fac Red Tagged: Not reported  
Replacement: Not reported  
Compartment ID: 46688  
Compartment Letter: A  
Compartment Status: Permanently Out of Use  
Compartment Capacity: 4000  
Small Delivery: Not reported  
Tank RD: Not Listed  
Substance Description: Not Listed  
Date Installed: 05/07/1963  
Date Last Used: 10/02/1994  
Date Closed: Not reported  
Regulated: Owner Uncertain  
Tank Material Desc: Asphalt Coated or Bare Steel  
Tank Mod Desc: None  
Tank Emergency: Not reported  
Tank No Fee: Y  
Overfill Type: Not reported  
Overfill Device Installed: N  
Spill Device Installed: N  
Date Removed From Ground: 1994-10-02 00:00:00  
Pipe Material Desc: Galvanized Steel  
Pipe Other Material: Not reported  
Pipe RD: Y  
Pipe Repaired: N  
Flex Piping Type: Not reported  
Year Flex Piping Installed: Not reported

Tank Number: 2  
Tank ID: 45975  
Tank Other Material: Not reported  
RSN Red Tagged: Not reported  
Fac Red Tagged: Not reported  
Replacement: Not reported  
Compartment ID: 46689  
Compartment Letter: A  
Compartment Status: Permanently Out of Use  
Compartment Capacity: 4000  
Small Delivery: Not reported  
Tank RD: Not Listed  
Substance Description: Not Listed  
Date Installed: 05/07/1963  
Date Last Used: 10/02/1994  
Date Closed: Not reported  
Regulated: Owner Uncertain  
Tank Material Desc: Asphalt Coated or Bare Steel  
Tank Mod Desc: None  
Tank Emergency: Not reported  
Tank No Fee: Y  
Overfill Type: Not reported  
Overfill Device Installed: N  
Spill Device Installed: N  
Date Removed From Ground: 1994-10-02 00:00:00  
Pipe Material Desc: Galvanized Steel  
Pipe Other Material: Not reported  
Pipe RD: Y

HUMPHREYS INVESTMENT CO (Continued)

U004173640

Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported  
 Tank Number: 3  
 Tank ID: 45976  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 46690  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 550  
 Small Delivery: Not reported  
 Tank RD: Not listed  
 Substance Description: Used Oil  
 Date Installed: 01/01/1963  
 Date Last Used: 10/02/1994  
 Date Closed: Not reported  
 Regulated: Owner Uncertain  
 Tank Material Desc: Asphalt Coated or Bare Steel  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1994-10-02 00:00:00  
 Pipe Material Desc: Bare Steel  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

Q95 HUMPHREYS INVESTMENT CO EDR US Hist Auto Stat 1014181748  
 SSE 22 NORTH THIRD ST N/A  
 1/8-1/4 MEMPHIS, TN 38103  
 0.161 mi. Site 3 of 9 in cluster Q  
 849 ft. Relative: Higher LUST:  
 Region: STATE  
 Facility Id: 9790411  
 Current Status: 8 Case Closed  
 Product Released:  
 Discovery Date: 03/15/1994  
 How Discovered: 1 AI Closure  
 Cause: 7 Unknown  
 Case Manager: Debbie Mann  
 Case Description:  
 Section: FO  
 Priority:  
 Owner ID: 0  
 Company Name: HUMPHREYS INVESTMENT  
 Owner Address: 22 NORTH THIRD ST

HUMPHREYS INVESTMENT CO (Continued)

S107464881

Owner City: MEMPHIS  
 Owner State: TN  
 Owner Zip Code: 38103  
 Owner Telephone: (901) 526-8695  
 Owner Address 2:  
 fadd2: Not reported  
 Site Number: 1  
 Contact: Not reported  
 Cac Contact: Not reported  
 Contact Title:  
 Consultant Address 1: 1605 Germantown Parkway  
 Consultant Address 2:  
 Contact City: Cordova  
 Contact State: tn  
 Contact Phone: 662-386-6100  
 Contact zip: 38018  
 Contact cac: CAC

J96 MC CRACKEN J E EDR US Hist Auto Stat 1014181748  
 SE 183 COURT AVE N/A  
 1/8-1/4 MEMPHIS, TN  
 0.162 mi. Site 10 of 10 in cluster J  
 853 ft. Relative: Lower EDR Historical Auto Stations:  
 Name: MC CRACKEN J E  
 Year: 1921  
 Type: AUTOMOBILE REPAIRS  
 Actual: 251 ft. Name: STAR AUTO SERVICE  
 Year: 1926  
 Type: AUTOMOBILE REPAIRS

R97 UNIVERSAL INVESTIGATIVE SERV EDR US Hist Cleaners 1014175213  
 South 9 2ND ST N N/A  
 1/8-1/4 MEMPHIS, TN 38103  
 0.165 mi. Site 1 of 8 in cluster R  
 863 ft. Relative: Higher EDR Historical Cleaners:  
 Name: UNIVERSAL INVESTIGATIVE SERV  
 Year: 1978  
 Type: ORIENTAL RUG CLEANING  
 Actual: 262 ft.

Q98 HAACK & CRANE AUTO REPRS EDR US Hist Auto Stat 1014176356  
 SE 185 COURT AVE N/A  
 1/8-1/4 MEMPHIS, TN  
 0.164 mi. Site 4 of 9 in cluster Q  
 864 ft. Relative: Lower EDR Historical Auto Stations:  
 Name: HAACK & CRANE AUTO REPRS  
 Year: 1932  
 Type: AUTOMOBILE REPAIRING  
 Actual: 251 ft.

Q99 STERICK GARAGE EDR US Hist Auto Stat 1014187414  
 SSE 20 3RD N N/A  
 1/8-1/4 MEMPHIS, TN  
 0.165 mi. Site 5 of 9 in cluster Q  
 870 ft. Relative: Higher EDR Historical Auto Stations:  
 Name: STERICK GARAGE  
 Year: 1943  
 Type: AUTOMOBILE GARAGES  
 Actual: 259 ft. Name: STERICK GARAGE  
 Year: 1948  
 Type: AUTOMOBILE GARAGES  
 Name: STERICK GARAGE INC AUTO PARK  
 Year: 1963  
 Type: AUTOMOBILE GARAGES

Q100 JU SING EDR US Hist Cleaners 1014156188  
 SE 187 COURT AVE N/A  
 1/8-1/4 MEMPHIS, TN  
 0.166 mi. Site 6 of 9 in cluster Q  
 876 ft. Relative: Lower EDR Historical Cleaners:  
 Name: JOE WOO  
 Year: 1921  
 Type: LAUNDRIES  
 Actual: 250 ft. Name: JU SING  
 Year: 1926  
 Type: LAUNDRIES

O101 NICKS SINCLAIR SERVICE EDR US Hist Auto Stat 1014168022  
 NE 196 3RD ST N N/A  
 1/8-1/4 MEMPHIS, TN 38105  
 0.177 mi. Site 3 of 4 in cluster O  
 936 ft. Relative: Lower EDR Historical Auto Stations:  
 Name: NICKS SINCLAIR SERVICE  
 Year: 1968  
 Type: GASOLINE STATIONS  
 Actual: 255 ft.

O102 BANNER LAUNDRY EDR US Hist Cleaners 1014155455  
 NE 196 3RD N N/A  
 1/8-1/4 MEMPHIS, TN  
 0.177 mi. Site 4 of 4 in cluster O  
 936 ft. Relative: Lower EDR Historical Cleaners:  
 Name: BANNER LAUNDRY  
 Year: 1921  
 Type: LAUNDRIES  
 Actual: 255 ft.

S103 N Y HATTERS EDR US Hist Cleaners 1014158892  
 SSW 106 MADISON AVE N/A  
 1/8-1/4 MEMPHIS, TN  
 0.180 mi. Site 1 of 6 in cluster S  
 949 ft. Relative: Higher EDR Historical Cleaners:  
 Name: N Y HATTERS  
 Year: 1932  
 Type: HAT CLEANERS AND BLOCKERS  
 Actual: 261 ft. Name: N Y HATTERS  
 Year: 1938  
 Type: HAT CLEANERS AND BLOCKERS  
 Name: N Y HATTERS  
 Year: 1943  
 Type: HAT CLEANERS AND BLOCKERS

Q104 POSTAL INSTANT PRESS RCRA NonGen / NLR 1000914672  
 SE 9 N THIRD FINDS TND000425546  
 1/8-1/4 MEMPHIS, TN 38103  
 0.181 mi. Site 7 of 9 in cluster Q  
 957 ft. Relative: Higher RCRA NonGen / NLR:  
 Date form received by agency: 11/19/1980  
 Facility name: POSTAL INSTANT PRESS  
 Facility address: 9 N THIRD  
 MEMPHIS, TN 38103  
 EPA ID: TND000425546  
 Mailing address: N THIRD  
 MEMPHIS, TN 38103  
 Contact: POSTAL INSTANT  
 Contact address: 9 N THIRD  
 MEMPHIS, TN 38103  
 Contact country: US  
 Contact telephone: (615) 555-1212  
 Contact email: Not reported  
 EPA Region: 04  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil burner: No  
 Used oil processor: No  
 Used oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

MAP FINDINGS

**POSTAL INSTANT PRESS (Continued)** 1000914672  
 Violation Status: No violations found  
**FINDS:**  
 Registry ID: 110004955610  
 Environmental Interest/Information System  
 RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**S105 SSW 1/8-1/4 0.181 mi. 958 ft.** **MODEL SHOE REBUILD CO** **EDR US Hist Cleaners** **1014147764**  
**109 MADISON AVE** **N/A**  
**MEMPHIS, TN**  
**Site 2 of 6 in cluster S**  
 EDR Historical Cleaners:  
 Name: MODEL SHOE REBUILD CO  
 Year: 1932  
 Actual: 261 ft. Type: HAT CLEANERS AND BLOCKERS

**T106 SE 1/8-1/4 0.182 mi. 960 ft.** **BELLSOUTH TELECOMMUNICATIONS-83260** **RCRA NonGen / NLR** **1001229820**  
**201 COURT STREET** **TND980514830**  
**MEMPHIS, TN 38103**  
**Site 1 of 4 in cluster T**  
 RCRA NonGen / NLR  
 Date form received by agency: 02/28/2003  
 Facility name: BELLSOUTH TELECOMMUNICATIONS-83260  
 Facility address: 201 COURT STREET  
 Actual: 249 ft. EPA ID: TND980514830  
 Mailing address: RED TOP ROAD  
 MACCLENNEY, FL 32063  
 Contact: JUDITH LAWSON  
 Contact address: COMMERCE STREET RM 3K105  
 NASHVILLE, TN 37201  
 Contact country: US  
 Contact telephone: (615) 214-4281  
 Contact email: Not reported  
 EPA Region: 04  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste  
 Owner/Operator Summary:  
 Owner/operator name: CLINT MATHIS, MANAGER  
 Owner/operator address: OUTLAND ROAD  
 MEMPHIS, TN 38118  
 Owner/operator country: Not reported  
 Owner/operator telephone: (901) 797-3389

MAP FINDINGS

**BELLSOUTH TELECOMMUNICATIONS-83260 (Continued)** 1001229820  
 Legal status: Private  
 Owner/Operator Type: Operator  
 Owner/Op start date: Not reported  
 Owner/Op end date: Not reported  
 Owner/operator name: BELL SOUTH TELECOMMUNICATIONS 1  
 Owner/operator address: PEACHTREE ST N C  
 ATLANTA, GA 30375  
 Owner/operator country: Not reported  
 Owner/operator telephone: (800) 327-3486  
 Legal status: Private  
 Owner/Operator Type: Owner  
 Owner/Op start date: Not reported  
 Owner/Op end date: Not reported

Handler Activities Summary:  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Historical Generators:  
 Date form received by agency: 02/28/2001  
 Site name: BELLSOUTH TELECOMMUNICATIONS-83260  
 Classification: Small Quantity Generator  
 Date form received by agency: 02/24/1999  
 Site name: BELLSOUTH TELECOMMUNICATIONS-83260  
 Classification: Small Quantity Generator

Hazardous Waste Summary:  
 Waste code: D008  
 Waste name: LEAD  
 Waste code: D009  
 Waste name: MERCURY  
 Violation Status: No violations found

MAP FINDINGS

**T107 SE 1/8-1/4 0.182 mi. 960 ft.** **201 COURT AVE** **EDR US Hist Auto Stat** **1015304564**  
**MEMPHIS, TN 38103** **N/A**  
**Site 2 of 4 in cluster T**  
 EDR Historical Auto Stations:  
 Name: MATHIS TIRE & AUTO SERVICE  
 Year: 2003  
 Address: 201 COURT AVE  
 Name: MATHIS TIRE & AUTO CENTER  
 Year: 2009  
 Address: 201 COURT AVE

**U108 ESE 1/8-1/4 0.182 mi. 950 ft.** **HERFF MOTOR CO** **EDR US Hist Auto Stat** **1014171289**  
**234 JEFFERSON AVE** **N/A**  
**MEMPHIS, TN**  
**Site 1 of 7 in cluster U**  
 EDR Historical Auto Stations:  
 Name: DOYLE ARTH CO  
 Year: 1925  
 Type: AUTOMOBILE GARAGES  
 Name: HERFF MOTOR CO  
 Year: 1932  
 Type: AUTOMOBILE REPAIRING

**S109 SW 1/8-1/4 0.182 mi. 960 ft.** **BSMT FUTRIA BROS CLOTHES CLNRS** **EDR US Hist Cleaners** **1014142171**  
**86 MADISON AVE** **N/A**  
**MEMPHIS, TN**  
**Site 3 of 6 in cluster S**  
 EDR Historical Cleaners:  
 Name: BSMT FUTRIS BROS  
 Year: 1925  
 Type: CLOTHES CLEANERS AND PRESSERS  
 Name: BSMT FUTRIA BROS CLOTHES CLNRS  
 Year: 1932  
 Type: CLOTHES PRESSERS AND CLEANERS  
 Name: BSMT FUTRIS CHRIS DLO CLNR  
 Year: 1938  
 Type: CLOTHES PRESSERS AND CLEANERS

MAP FINDINGS

**R110 South 1/8-1/4 0.183 mi. 966 ft.** **WHITEHEAD BROS** **EDR US Hist Cleaners** **1014143316**  
**146 MADISON AVE** **N/A**  
**MEMPHIS, TN**  
**Site 2 of 8 in cluster R**  
 EDR Historical Cleaners:  
 Name: WHITEHEAD BROS  
 Year: 1921  
 Type: CLOTHES CLEANERS AND PRESSERS  
 Name: MODEL HATTERS CINA  
 Year: 1973  
 Type: HAT CLEANERS AND BLOCKERS

**S111 SSW 1/8-1/4 0.183 mi. 966 ft.** **TENN PRESSING CLUB** **EDR US Hist Cleaners** **1014143753**  
**87 MADISON AVE** **N/A**  
**MEMPHIS, TN**  
**Site 4 of 6 in cluster S**  
 EDR Historical Cleaners:  
 Name: TENN PRESSING CLUB  
 Year: 1921  
 Type: CLOTHES CLEANERS AND PRESSERS  
 Name: TENN PRESSING CLUB  
 Year: 1925  
 Type: CLOTHES CLEANERS AND PRESSERS

**R112 South 1/8-1/4 0.183 mi. 968 ft.** **137 MADISON AVE** **EDR US Hist Cleaners** **1014990358**  
**MEMPHIS, TN 38103** **N/A**  
**Site 3 of 8 in cluster R**  
 EDR Historical Cleaners:  
 Name: TONY'S CLEANERS  
 Year: 2003  
 Address: 137 MADISON AVE  
 Name: TONY'S CLEANER  
 Year: 2004  
 Address: 137 MADISON AVE  
 Name: TONY'S CLEANERS  
 Year: 2005  
 Address: 137 MADISON AVE  
 Name: TONY'S CLEANER  
 Year: 2006  
 Address: 137 MADISON AVE



Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
R113	South	1/8-1/4	0.184 mi.	PRINT SHOP THE 150 MADISON AVE MEMPHIS, TN 38103	RCRA NonGen / NLR FINDS	1000917852	TN007353778
<b>Site 4 of 8 in cluster R</b>							
<b>Relative:</b>	RCRA NonGen / NLR:						
<b>Higher</b>	Date form received by agency: 11/19/1980						
	Facility name: PRINT SHOP THE						
<b>Actual:</b>	Facility address: 150 MADISON AVE						
<b>260 ft.</b>	MEMPHIS, TN 38103						
	EPA ID: TND073553778						
	Mailing address: MADISON AVE						
	MEMPHIS, TN 38103						
	Contact: PRINT SHOP						
	Contact address: 150 MADISON AVE						
	MEMPHIS, TN 38103						
	Contact country: US						
	Contact telephone: (615) 555-1212						
	Contact email: Not reported						
	EPA Region: 04						
	Classification: Non-Generator						
	Description: Handler: Non-Generators do not presently generate hazardous waste						
Handler Activities Summary:							
	U.S. importer of hazardous waste: No						
	Mixed waste (haz. and radioactive): No						
	Recycler of hazardous waste: No						
	Transporter of hazardous waste: No						
	Treater, storer or disposer of HW: No						
	Underground injection activity: No						
	On-site burner exemption: No						
	Furnace exemption: No						
	Used oil fuel burner: No						
	Used oil processor: No						
	Used oil refiner: No						
	Used oil fuel marketer to burner: No						
	Used oil Specification marketer: No						
	Used oil transfer facility: No						
	Used oil transporter: No						
	Violation Status: No violations found						
FINDS:							
	Registry ID: 110004975475						
Environmental Interest/Information System							
	RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.						

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Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
R114	South	1/8-1/4	0.184 mi.	CLEANATORIUM SYSTEM 141 MADISON AVE MEMPHIS, TN	EDR US Hist Cleaners	1014148557	N/A
<b>Site 5 of 8 in cluster R</b>							
<b>Relative:</b>	EDR Historical Cleaners:						
<b>Higher</b>	Name: CLEANATORIUM THE						
	Year: 1926						
<b>Actual:</b>	Type: CLOTHES CLEANERS AND PRESSERS						
<b>261 ft.</b>							
	Name: CLEANATORIUM SYSTEM						
	Year: 1932						
	Type: CLOTHES PRESSERS AND CLEANERS						
	Name: CLEANATORIUM SYSTEM						
	Year: 1932						
	Type: HAT CLEANERS AND BLOCKERS						
	Name: ACLEANATORIUM SYSTEM						
	Year: 1938						
	Type: HAT CLEANERS AND BLOCKERS						
	Name: ACLEANATORIUM SYSTEM CLDO						
	Year: 1943						
	Type: CLOTHES PRESSERS AND CLEANERS						
	Name: AKOROLIS WM A DO CLR						
	Year: 1948						
	Type: CLOTHES PRESSERS AND CLEANERS						
R115	South	1/8-1/4	0.185 mi.	AMODEL HATTERS INS 145 MADISON AVE MEMPHIS, TN	EDR US Hist Cleaners	1014157644	N/A
<b>Site 6 of 8 in cluster R</b>							
<b>Relative:</b>	EDR Historical Cleaners:						
<b>Higher</b>	Name: MODEL CLNRS & HATTERS						
	Year: 1948						
<b>Actual:</b>	Type: HAT CLEANERS AND BLOCKERS						
<b>260 ft.</b>							
	Name: AMODEL HATTERS INS						
	Year: 1958						
	Type: HAT CLEANERS AND BLOCKERS						
	Name: MODEL HATTERS						
	Year: 1963						
	Type: HAT CLEANERS AND BLOCKERS						
	Name: MODEL HATTERS CLNS						
	Year: 1968						
	Type: CLEANERS AND DYERS						
	Name: MODEL HATTERS						
	Year: 1976						
	Type: HAT CLEANERS AND BLOCKERS						
	Name: MODEL HATTERS CLN						
	Year: 1982						

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Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
				AMODEL HATTERS INS (Continued)		1014157644	
				Type: HAT CLEANERS AND BLOCKERS			
U116	South	1/8-1/4	0.187 mi.	MEM MOTORCYCLE CO 237 JEFFERSON AVE MEMPHIS, TN	EDR US Hist Auto Stat	1014177234	N/A
<b>Site 2 of 7 in cluster U</b>							
<b>Relative:</b>	EDR Historical Auto Stations:						
<b>Lower</b>	Name: SCOTT J C						
	Year: 1926						
<b>Actual:</b>	Type: AUTOMOBILE REPAIRS						
<b>244 ft.</b>							
	Name: MEM MOTORCYCLE CO						
	Year: 1932						
	Type: MOTORCYCLE REPAIRERS						
Q117	South	1/8-1/4	0.188 mi.	MADISON CLEANERS 164 MADISON AVE MEMPHIS, TN	EDR US Hist Cleaners	1014156324	N/A
<b>Site 8 of 9 in cluster Q</b>							
<b>Relative:</b>	EDR Historical Cleaners:						
<b>Higher</b>	Name: MADISON CLEANERS						
	Year: 1921						
<b>Actual:</b>	Type: CLOTHES CLEANERS AND PRESSERS						
<b>260 ft.</b>							
Q118	South	1/8-1/4	0.188 mi.	TENN CLEANERS & BAT 166 MADISON AVE MEMPHIS, TN	EDR US Hist Cleaners	1014145967	N/A
<b>Site 9 of 9 in cluster Q</b>							
<b>Relative:</b>	EDR Historical Cleaners:						
<b>Higher</b>	Name: TENN CLEANERS & HATTERS						
	Year: 1938						
<b>Actual:</b>	Type: HAT CLEANERS AND BLOCKERS						
<b>260 ft.</b>							
	Name: TENN CLEANERS & HATTE TS						
	Year: 1943						
	Type: CLOTHES PRESSERS AND CLEANERS						
	Name: TENN CLEANERS & BAT						
	Year: 1948						
	Type: HAT CLEANERS AND BLOCKERS						

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Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
U119	South	1/8-1/4	0.189 mi.	U S SPRING & FORG 238 JEFFERSON AVE MEMPHIS, TN	EDR US Hist Auto Stat	1014182617	N/A
<b>Site 3 of 7 in cluster U</b>							
<b>Relative:</b>	EDR Historical Auto Stations:						
<b>Lower</b>	Name: SHELLEY W E & BRO						
	Year: 1921						
<b>Actual:</b>	Type: AUTOMOBILE REPAIRS						
<b>243 ft.</b>							
	Name: U S SPRING & FORG						
	Year: 1921						
	Type: AUTOMOBILE REPAIRS						
U120	South	1/8-1/4	0.197 mi.	FLEXIBLE TAPE AND LABEL COMPANY 243 JEFFERSON MEMPHIS, TN 38103	RCRA NonGen / NLR FINDS	1000439288	TND034764308
<b>Site 4 of 7 in cluster U</b>							
<b>Relative:</b>	RCRA NonGen / NLR:						
<b>Lower</b>	Date form received by agency: 02/26/2004						
	Facility name: FLEXIBLE TAPE AND LABEL COMPANY						
<b>Actual:</b>	Facility address: 243 JEFFERSON						
<b>242 ft.</b>	MEMPHIS, TN 38103						
	EPA ID: TND034764308						
	Mailing address: JEFFERSON						
	MEMPHIS, TN 38103						
	Contact: ALAN MAGNUS						
	Contact address: 243 JEFFERSON						
	MEMPHIS, TN 38103						
	Contact country: US						
	Contact telephone: (901) 522-1410						
	Contact email: Not reported						
	EPA Region: 04						
	Classification: Non-Generator						
	Description: Handler: Non-Generators do not presently generate hazardous waste						
Handler Activities Summary:							
	U.S. importer of hazardous waste: No						
	Mixed waste (haz. and radioactive): No						
	Recycler of hazardous waste: No						
	Transporter of hazardous waste: No						
	Treater, storer or disposer of HW: No						
	Underground injection activity: No						
	On-site burner exemption: No						
	Furnace exemption: No						
	Used oil fuel burner: No						
	Used oil processor: No						
	Used oil refiner: No						
	Used oil fuel marketer to burner: No						
	Used oil Specification marketer: No						
	Used oil transfer facility: No						
	Used oil transporter: No						
Historical Generators:							
	Date form received by agency: 02/26/1990						
	Site name: FLEXIBLE TAPE AND LABEL COMPANY						

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**FLEXIBLE TAPE AND LABEL COMPANY (Continued)**

100439288

Classification: Not a generator, verified  
 Violation Status: No violations found  
 FINDS:  
 Registry ID: 110004964619

**Environmental Interest/Information System**

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**U121 ESE 1/8-1/4 0.197 mi. 1040 ft.** **LAFFERTY RUG & CARPET 243 JEFFERSON AVE MEMPHIS, TN** **EDR US Hist Cleaners** **1014158642 N/A**  
**Site 5 of 7 in cluster U**  
 Relative: EDR Historical Cleaners:  
 Lower Name: LAFFERTY RUG & CARPET  
 Year: 1953  
 Actual: Type: CARPET AND RUG CLEANERS  
 242 ft.

**P122 SW 1/8-1/4 0.199 mi. 1051 ft.** **UNITED STATES POSTAL SERVICE, FRONT STRE ONE NORTH FRONT STREET MEMPHIS, TN 38103** **RCRA-CESQG** **1004782808 TNR000008102**  
**Site 2 of 2 in cluster P**  
 Relative: RCRA-CESQG:  
 Higher Date form received by agency: 04/04/2003  
 Facility name: UNITED STATES POSTAL SERVICE, FRONT STRE  
 Facility address: ONE NORTH FRONT STREET MEMPHIS, TN 381039998  
 EPA ID: TNR000008102  
 Mailing address: NORTH FRONT STREET MEMPHIS, TN 381039998  
 Contact: ROOSEVELT ALLEN  
 Contact address: NORTH HUMPHREYS BLVD MEMPHIS, TN 381660865  
 Contact country: US  
 Contact telephone: (901) 747-7258  
 Contact email: RALLEN05@EMAIL.USPS.GOV  
 EPA Region: 04  
 Classification: Conditionally Exempt Small Quantity Generator  
 Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less

**UNITED STATES POSTAL SERVICE, FRONT STRE (Continued)**

1004782808

of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Owner/Operator Summary:**

Owner/operator name: MANAGER, CUSTOMER SERVICE  
 Owner/operator address: NORTH FRONT STREET MEMPHIS, TN 38103  
 Owner/operator country: US  
 Owner/operator telephone: (901) 576-2117  
 Legal status: Federal  
 Owner/Operator Type: Operator  
 Owner/Op start date: 04/04/2003  
 Owner/Op end date: Not reported  
 Owner/operator name: UNITED STATES POSTAL SERVICE  
 Owner/operator address: NORTH HUMPHREYS BLVD MEMPHIS, TN 38166  
 Owner/operator country: US  
 Owner/operator telephone: (901) 747-7400  
 Legal status: Federal  
 Owner/Operator Type: Owner  
 Owner/Op start date: 06/01/1887  
 Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 Used oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

**Historical Generators:**

Date form received by agency: 03/06/2001  
 Site name: UNITED STATES POSTAL SERVICE  
 Classification: Conditionally Exempt Small Quantity Generator  
 Date form received by agency: 03/11/1999  
 Site name: UNITED STATES POSTAL SERVICE  
 Classification: Conditionally Exempt Small Quantity Generator  
 Violation Status: No violations found

**U123 ESE 1/8-1/4 0.199 mi. 1051 ft.** **QUALITY AUTO SERVICE OF MEMPHIS AUTO REPR 244 JEFFERSON AVE MEMPHIS, TN 38103** **EDR US Hist Auto Stat** **1014161905 N/A**  
**Site 6 of 7 in cluster U**  
 Relative: EDR Historical Auto Stations:  
 Lower Name: FLINT JACK & I SON AUTO REPRS  
 Year: 1938  
 Actual: Type: AUTOMOBILE REPAIRING  
 242 ft.  
 Name: MID SOUTH AUTO REBUILDERS  
 Year: 1978  
 Type: AUTOMOBILE REPAIRING  
 Name: QUALITY AUTO SERVICE OF MEMPHIS AUTO REPR  
 Year: 1987  
 Type: AUTOMOBILE REPAIRING  
 Name: QUALITY AUTO SERVICE OF MEMPHIS INCORPORATED  
 Year: 1999  
 Address: 244 JEFFERSON AVE  
 Name: QUALITY AUTO SERVICE OF MEMPHIS INCORPORATED  
 Year: 2000  
 Address: 244 JEFFERSON AVE  
 Name: QUALITY AUTO SERVICE OF MMPH  
 Year: 2001  
 Address: 244 JEFFERSON AVE  
 Name: QUALITY AUTO SERVICE INC  
 Year: 2002  
 Address: 244 JEFFERSON AVE  
 Name: QUALITY AUTO SERVICE OF MMPH  
 Year: 2003  
 Address: 244 JEFFERSON AVE  
 Name: QUALITY AUTO SERVICE OF MMPH INC  
 Year: 2004  
 Address: 244 JEFFERSON AVE  
 Name: QUALITY AUTO SERVICE OF MEMPHIS INC  
 Year: 2005  
 Address: 244 JEFFERSON AVE  
 Name: QUALITY AUTO SERVICE OF MEMPHIS INC  
 Year: 2006  
 Address: 244 JEFFERSON AVE  
 Name: QUALITY AUTO SERVICE OF TENNESSEE LL  
 Year: 2007  
 Address: 244 JEFFERSON AVE  
 Name: QUALITY AUTO SERVICE OF TENNESSEE  
 Year: 2009  
 Address: 244 JEFFERSON AVE

**QUALITY AUTO SERVICE OF MEMPHIS AUTO REPR (Continued)**

1014161905

Name: QUALITY AUTO SVC  
 Year: 2010  
 Address: 244 JEFFERSON AVE  
 Name: QUALITY AUTO SERVICE  
 Year: 2011  
 Address: 244 JEFFERSON AVE

**S124 SSW 1/8-1/4 0.207 mi. 1093 ft.** **COLOR CRAFT INC DELAWARE CORP 12 S MAIN ST MEMPHIS, TN 38103** **RCRA NonGen / NLR** **1000916634 TND054873120**  
**Site 5 of 6 in cluster S**

Relative: RCRA NonGen / NLR:  
 Higher Date form received by agency: 11/19/1980  
 Facility name: COLOR CRAFT INC DELAWARE CORP  
 Actual: Facility address: 12 S MAIN ST MEMPHIS, TN 38103  
 261 ft. EPA ID: TND054873120  
 Mailing address: S MAIN ST MEMPHIS, TN 38103  
 Contact: COLOR CRAFT  
 Contact address: 12 S MAIN ST MEMPHIS, TN 38103  
 Contact country: US  
 Contact telephone: (615) 555-1212  
 Contact email: Not reported  
 EPA Region: 04  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 Used oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Violation Status: No violations found

**S125** SHY C D & CO INC RCRA NonGen / NLR 1000917853  
**SSW** 12 S MAIN ST FINDS TND073553877  
 1/8-1/4 MEMPHIS, TN 38103  
 0.207 mi.  
 1093 ft. Site 6 of 6 in cluster S

**Relative:** RCRA NonGen / NLR:  
**Higher** Date form received by agency: 11/19/1980  
 Facility name: SHY C D & CO INC  
 Facility address: 12 S MAIN ST  
 MEMPHIS, TN 38103  
**Actual:** EPA ID: TND073553877  
**261 ft.** Mailing address: S MAIN ST  
 MEMPHIS, TN 38103  
 Contact: SHY C D & CO INC  
 Contact address: 12 S MAIN ST  
 MEMPHIS, TN 38103  
 Contact country: US  
 Contact telephone: (615) 555-1212  
 Contact email: Not reported  
 EPA Region: 04  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

**Handler Activities Summary:**  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

**Violation Status:** No violations found

**FINDS:**  
 Registry ID: 110009447722

**Environmental Interest/Information System**  
 RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110004968704

**Environmental Interest/Information System**  
 RCRAInfo is a national information system that supports the Resource

SHY C D & CO INC (Continued) 1000917853  
 Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**R126** CLARKE INC PRINTERS RCRA NonGen / NLR 1000915564  
**South** 19 S SECOND ST FINDS TND007032691  
 1/8-1/4 MEMPHIS, TN 38103  
 0.208 mi.  
 1098 ft. Site 7 of 8 in cluster R

**Relative:** RCRA NonGen / NLR:  
**Higher** Date form received by agency: 11/19/1980  
 Facility name: CLARKE INC PRINTERS  
 Facility address: 19 S SECOND ST  
 MEMPHIS, TN 38101  
**Actual:** EPA ID: TND007032691  
**260 ft.** Mailing address: S SECOND ST  
 MEMPHIS, TN 38101  
 Contact: CLARKE INC  
 Contact address: 19 S SECOND ST  
 MEMPHIS, TN 38101  
 Contact country: US  
 Contact telephone: (615) 555-1212  
 Contact email: Not reported  
 EPA Region: 04  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

**Handler Activities Summary:**  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

**Violation Status:** No violations found

**FINDS:**  
 Registry ID: 110004961462

**Environmental Interest/Information System**  
 RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

CLARKE INC PRINTERS (Continued) 1000915564  
 and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**R127** MID-SOUTH ENGRAVING CO., INC. RCRA NonGen / NLR 1000915577  
**South** 21 SOUTH SECOND STREET FINDS TND007033343  
 1/8-1/4 MEMPHIS, TN 38103  
 0.211 mi.  
 1115 ft. Site 8 of 8 in cluster R

**Relative:** RCRA NonGen / NLR:  
**Higher** Date form received by agency: 07/27/2009  
 Facility name: MID-SOUTH ENGRAVING CO., INC.  
 Facility address: 21 SOUTH SECOND STREET  
 MEMPHIS, TN 38103  
**Actual:** EPA ID: TND007033343  
**260 ft.** Mailing address: SO. SECOND ST.  
 MEMPHIS, TN 38103  
 Contact: STEPHEN L. BELOTE  
 Contact address: SO. SECOND ST.  
 MEMPHIS, TN 38103  
 Contact country: US  
 Contact telephone: (901) 523-1447  
 Contact email: Not reported  
 EPA Region: 04  
 Land type: Facility is not located on Indian land. Additional information is not known.  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

**Handler Activities Summary:**  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

**Historical Generators:**  
 Date form received by agency: 07/17/1997  
 Site name: MID-SOUTH ENGRAVING CO., INC.  
 Classification: Large Quantity Generator

**Violation Status:** No violations found

**Evaluation Action Summary:**  
 Evaluation date: 02/22/2000

MID-SOUTH ENGRAVING CO., INC. (Continued) 1000915577  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

**U128** PERRY HANSON GIN EDR US Hist Auto Stat 1014177512  
**South** 253 JEFFERSON AVE N/A  
 1/8-1/4 MEMPHIS, TN  
 0.214 mi.  
 1130 ft. Site 7 of 7 in cluster U

**Relative:** EDR Historical Auto Stations:  
**Lower** Name: PERRY HANSON GIN  
 Year: 1921  
**Actual:** Type: GAS ENGINE REPAIRS  
**240 ft.** Name: PERRY HANSON GIN  
 Year: 1926  
 Type: GAS ENGINE REPAIRS

**V129** QUICK PRINT SHOP RCRA NonGen / NLR 1000916509  
**South** 26 S SECOND ST FINDS TND052106200  
 1/8-1/4 MEMPHIS, TN 38103  
 0.218 mi.  
 1150 ft. Site 1 of 3 in cluster V

**Relative:** RCRA NonGen / NLR:  
**Higher** Date form received by agency: 12/01/1980  
 Facility name: QUICK PRINT SHOP  
 Facility address: 26 S SECOND ST  
 MEMPHIS, TN 38103  
**Actual:** EPA ID: TND052106200  
**259 ft.** Mailing address: S SECOND ST  
 MEMPHIS, TN 38103  
 Contact: QUICK PRINT  
 Contact address: 26 S SECOND ST  
 MEMPHIS, TN 38103  
 Contact country: US  
 Contact telephone: (615) 555-1212  
 Contact email: Not reported  
 EPA Region: 04  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

**Handler Activities Summary:**  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No

MAP FINDINGS

**QUICK PRINT SHOP (Continued)** 1000916509

Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Violation Status: No violations found

**FINDS:**

Registry ID: 110004968009

Environmental Interest/Information System  
 RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**V130** South 1/8-1/4 0.218 mi. 1150 ft. **26 S 2ND ST MEMPHIS, TN 38103** EDR US Hist Cleaners 1015029872 N/A

Site 2 of 3 in cluster V

Relative: Higher EDR Historical Cleaners:  
 Name: TONY'S CLEANERS  
 Year: 2001  
 Actual: 259 ft. Address: 26 S 2ND ST

**T131** SE 1/8-1/4 0.218 mi. 1153 ft. **AMERICAN TELEPHONE & TELEGRAPH CO. 231 COURT MEMPHIS, TN 38103** RCRA NonGen / NLR 1000578113 TND987781424

Site 3 of 4 in cluster T

Relative: Lower RCRA NonGen / NLR:  
 Date form received by agency: 11/27/1995  
 Facility name: AMERICAN TELEPHONE & TELEGRAPH CO.  
 Actual: 243 ft. Facility address: 231 COURT MEMPHIS, TN 38103  
 EPA ID: TND987781424  
 Mailing address: COURT MEMPHIS, TN 38103  
 Contact: PROMILA LAL  
 Contact address: 231 COURT MEMPHIS, TN 38103  
 Contact country: US  
 Contact telephone: (312) 230-5239  
 Contact email: Not reported  
 EPA Region: 04  
 Land type: Facility is not located on Indian land. Additional information is not known.  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

MAP FINDINGS

**AMERICAN TELEPHONE & TELEGRAPH CO. (Continued)** 1000578113

U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Violation Status: No violations found

Evaluation Date Summary:  
 Evaluation date: 03/29/1995  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

**V132** South 1/8-1/4 0.218 mi. 1153 ft. **K & P PRESSING SHOP 25 2ND S MEMPHIS, TN** EDR US Hist Cleaners 1014156366 N/A

Site 3 of 3 in cluster V

Relative: Higher EDR Historical Cleaners:  
 Name: K & P PRESSING SHOP  
 Year: 1921  
 Actual: 259 ft. Type: CLOTHES CLEANERS AND PRESSERS

**W133** North 1/8-1/4 0.222 mi. 1172 ft. **YIRBROUGH CABLE SERV 254 FRONT N MEMPHIS, TN** EDR US Hist Auto Stat 1014183247 N/A

Site 1 of 2 in cluster W

Relative: Lower EDR Historical Auto Stations:  
 Name: YIRBROUGH CABLE SERV  
 Year: 1963  
 Actual: 251 ft. Type: REPAIR SHOPS

MAP FINDINGS

**T134** SE 1/8-1/4 0.223 mi. 1180 ft. **DAVENPORT J M 235 COURT AVE MEMPHIS, TN** EDR US Hist Auto Stat 1014170969 N/A

Site 4 of 4 in cluster T

Relative: Lower EDR Historical Auto Stations:  
 Name: DAVENPORT J M  
 Year: 1926  
 Actual: 242 ft. Type: AUTOMOBILE REPAIRS

**X135** South 1/8-1/4 0.226 mi. 1194 ft. **HARRIS JOEL CLOTHES CLNR 16 3RD S MEMPHIS, TN** EDR US Hist Cleaners 1014142627 N/A

Site 1 of 3 in cluster X

Relative: Lower EDR Historical Cleaners:  
 Name: HARRIS JOEL CLOTHES CLNR  
 Year: 1932  
 Actual: 250 ft. Type: CLOTHES PRESSERS AND CLEANERS

**W136** North 1/8-1/4 0.226 mi. 1194 ft. **GREER RALPH D AUTO REPR 258 FRONT N MEMPHIS, TN** EDR US Hist Auto Stat 1014166905 N/A

Site 2 of 2 in cluster W

Relative: Lower EDR Historical Auto Stations:  
 Name: GREER RALPH D AUTO REPR  
 Year: 1938  
 Actual: 251 ft. Type: AUTOMOBILE REPAIRING

**Y137** NNE 1/8-1/4 0.229 mi. 1208 ft. **A BRYANTS ESSO SERVICE STA 232 2ND N MEMPHIS, TN** EDR US Hist Auto Stat 1014183431 N/A

Site 1 of 2 in cluster Y

Relative: Higher EDR Historical Auto Stations:  
 Name: MAHONEY JOHN T CO  
 Year: 1932  
 Actual: 259 ft. Type: GASOLINE AND OIL SERVICE STATIONS  
 Name: A STUCKEY THOS E FILLING STA  
 Year: 1938  
 Type: GASOLINE AND OIL SERVICE STATIONS  
 Name: BRYANT WM J FILL STA  
 Year: 1949  
 Type: GASOLINE AND OIL SERVICE STATIONS  
 Name: BRYANTS ESSO SERVICE SIA  
 Year: 1953  
 Type: GASOLINE STATIONS  
 Name: A BRYANTS ESSO SERVICE STA

MAP FINDINGS

**A BRYANTS ESSO SERVICE STA (Continued)** 1014183431

Year: 1958  
 Type: GASOLINE STATIONS

Name: BRYANTS ESSO SERV ST  
 Year: 1963  
 Type: GASOLINE STATIONS

**Z138** SE 1/8-1/4 0.231 mi. 1221 ft. **SOUTHERN TOWING COMPANY #248 COURT MEMPHIS, TN 38103** RCRA NonGen / NLR 1000863631 TND982109514

Site 1 of 2 in cluster Z

Relative: Lower RCRA NonGen / NLR:  
 Date form received by agency: 03/03/2004  
 Facility name: SOUTHERN TOWING COMPANY  
 Actual: 240 ft. Facility address: #248 COURT MEMPHIS, TN 38103  
 EPA ID: TND982109514  
 Mailing address: THOMAS ROAD MEMPHIS, TN 38103  
 Contact: BOB PICKLE  
 Contact address: #248 COURT MEMPHIS, TN 38103  
 Contact country: US  
 Contact telephone: (901) 386-2644  
 Contact email: Not reported  
 EPA Region: 04  
 Land type: Other land type  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Historical Generators:  
 Date form received by agency: 02/01/1996  
 Site name: SOUTHERN TOWING COMPANY  
 Classification: Not a generator, verified

Violation Status: No violations found



MAP FINDINGS

**SOUTHERN TOWING COMPANY (Continued)** 1000883631

Evaluation Action Summary:  
Evaluation date: 03/24/1988  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

**Z139 SOUTHERN TOWING CO SHOP EDR US Hist Auto Stat 1014196973**  
**SE 248 COURT AVE N/A**  
**1/8-1/4 MEMPHIS, TN 38103**  
**1221 ft. Site 2 of 2 in cluster Z**

Relative: EDR Historical Auto Stations:  
**Lower** Name: SOUTHERN TOWING CO SHOP  
Year: 1968  
**Actual:** Type: AUTOMOBILE REPAIRING  
**240 ft.**

**X140 MERRIN JIM CO SERVICE EDR US Hist Auto Stat 1014186412**  
**South 20 3RD S N/A**  
**1/8-1/4 MEMPHIS, TN**  
**0.234 mi. Site 3 of 3 in cluster X**  
**1236 ft.**

Relative: EDR Historical Auto Stations:  
**Lower** Name: MERRIN JIM CO SERVICE  
Year: 1938  
**Actual:** Type: AUTOMOBILE LUBRICATION  
**249 ft.**

Name: MERRIN JIM CO SERVICE  
Year: 1938  
Type: AUTOMOBILE LAUNDRIES

**AA141 NIDHOLS GARAGE EDR US Hist Auto Stat 1014196296**  
**SSE 213 MADISON AVE N/A**  
**1/8-1/4 MEMPHIS, TN**  
**0.235 mi. Site 1 of 2 in cluster AA**  
**1239 ft.**

Relative: EDR Historical Auto Stations:  
**Lower** Name: NIDHOLS GARAGE  
Year: 1938  
**Actual:** Type: AUTOMOBILE GARAGES  
**249 ft.**

MAP FINDINGS

**142 26 S. MAIN STREET US BROWNFIELDS FINDS 1016361809**  
**SSW 26 S. MAIN STREET N/A**  
**1/8-1/4 MEMPHIS, TN 38103**  
**0.237 mi.**  
**1249 ft.**

Relative: US BROWNFIELDS:  
**Higher** Recipient name: Memphis-Shelby County  
Grant type: Assessment  
Property name: 26 S. MAIN STREET  
Property #: 002057 00008  
Parcel size: .08  
Property Description: The 0.077-acre rectangular subject property is improved with a 14,900-square-foot three-story building with a basement. The property is accessible from the northwest through a main entrance along South Main Street and from the southeast through the basement along South November 6th Street. The subject property is currently vacant and has not been occupied since the mid-2000s. The subject property has been developed commercially since at least 1888. The date of the earliest useful standard historical source (Sanborn fire insurance map) obtained for this Phase I ESA. Occupants of the subject property include a furniture store (late 1800s), a book seller and tailor (early 1900s), a caft (circa 1915 to the early 1930s), a hotel on the second and third floors (1920), clothing stores (mid-1930s to mid-1940s), a jewelry store (circa 1945 to early 1970s), optometrist office (circa 1961 to 1969), fashion clothing store (1970s), gift shop (1983), restaurant (1990), pager/beeper store (mid-1990s), hat store (early to mid-2000s), and a comedy club and karaoke caft (mid-2000s). Owners: Dec 1954 Jan 1987: Joseph Larkey & Assoc. Jan 1987: Brinkley House Assoc. LTD. Jan 1987 Jul 2003: Memphis Center City Revenue Finance Corp. Jul 2003 Oct 2006: Henry H & Peggy F Hancock/Alvin & Beth G Lansky/Oct 2006 Nov 2010: Alvin & Beth G Lansky/Nov 2010 Present: Taylor Waller Development LLC

Latitude: 35.144382  
Longitude: -90.0527450000001  
HCM label: Address Matching-House Number  
Map scale: Not reported  
Point of reference: Center of a Facility or Station  
Datum: North American Datum of 1983  
138883  
ACRES property ID: Not reported  
Start date: Not reported  
Completed date: Not reported  
Acres cleaned up: Not reported  
Cleanup funding: Not reported  
Cleanup funding source: Not reported  
Assessment funding: 29250  
Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement  
Redevelopment funding: Not reported  
Redev. funding source: Not reported  
Redev. funding entity name: Not reported  
Redevelopment start date: Not reported  
Assessment funding entity: EPA  
Cleanup funding entity: Not reported  
Grant type: B  
Phase II Environmental Assessment  
Accomplishment type: 0  
Cooperative agreement #: 95463110  
Ownership entity: Private  
Current owner: Taylor Waller Development LLC

MAP FINDINGS

**26 S. MAIN STREET (Continued)** 1016361809

Did owner change: N  
Cleanup required: No  
Video available: No  
Photo available: Yes  
Institutional controls required: N  
IC Category proprietary controls: Not reported  
IC cat. info. devices: Not reported  
IC cat. gov. controls: Not reported  
IC cat. enforcement permit tools: Not reported  
IC in place date: Not reported  
IC in place: Not reported  
State/tribal program date: Not reported  
State/tribal program ID: Not reported  
State/tribal NFA date: Not reported  
Air contaminated: Not reported  
Air cleaned: Not reported  
Asbestos found: Y  
Asbestos cleaned: Not reported  
Controlled substance found: Not reported  
Controlled substance cleaned: Not reported  
Drinking water affected: Not reported  
Drinking water cleaned: Not reported  
Groundwater affected: Not reported  
Groundwater cleaned: Not reported  
Lead contaminant found: Y  
Lead cleaned up: Not reported  
No media affected: Not reported  
Unknown media affected: Not reported  
Other cleaned up: Not reported  
Other metals found: Not reported  
Other metals cleaned: Not reported  
Other contaminants found: Not reported  
Other contams found description: Not reported  
PAHs found: Y  
PAHs cleaned up: Not reported  
PCBs found: Not reported  
PCBs cleaned up: Not reported  
Petro products found: Not reported  
Petro products cleaned: Not reported  
Sediments found: Not reported  
Sediments cleaned: Not reported  
Soil affected: Not reported  
Soil cleaned up: Not reported  
Surface water cleaned: Not reported  
VOCs found: Y  
VOCs cleaned: Not reported  
Cleanup other description: Not reported  
Num. of cleanup and re-dev. jobs: Not reported  
Past use greenspace acreage: Not reported  
Past use residential acreage: Not reported  
Past use commercial acreage: .08  
Past use industrial acreage: Not reported  
Future use greenspace acreage: Not reported  
Future use residential acreage: .04  
Future use commercial acreage: .04  
Future use industrial acreage: Not reported  
Greenspace acreage and type: Not reported

MAP FINDINGS

**26 S. MAIN STREET (Continued)** 1016361809

Superfund Fed. landowner flag: Not reported  
Arsenic cleaned up: Not reported  
Cadmium cleaned up: Not reported  
Chromium cleaned up: Not reported  
Copper cleaned up: Not reported  
Iron cleaned up: Not reported  
mercury cleaned up: Not reported  
nickel cleaned up: Not reported  
No clean up: Not reported  
Pesticides cleaned up: Not reported  
Selenium cleaned up: Not reported  
SVOCs cleaned up: Not reported  
Unknown clean up: Not reported  
Arsenic contaminant found: Not reported  
Cadmium contaminant found: Not reported  
Chromium contaminant found: Not reported  
Copper contaminant found: Not reported  
Iron contaminant found: Not reported  
Mercury contaminant found: Not reported  
Nickel contaminant found: Not reported  
No contaminant found: Not reported  
Pesticides contaminant found: Not reported  
Selenium contaminant found: Not reported  
SVOCs contaminant found: Not reported  
Unknown contaminant found: Not reported  
Future Use: Multistory 0  
Media affected Building Material: Y  
Media affected indoor air: Not reported  
Building material media cleaned up: Not reported  
Indoor air media cleaned up: Not reported  
Unknown media cleaned up: Not reported  
Past Use: Multistory Not reported

Recipient name: Memphis-Shelby County  
Grant type: Assessment  
Property name: 26 S. MAIN STREET  
Property #: 002057 00008  
Parcel size: .08  
Property Description: The 0.077-acre rectangular subject property is improved with a 14,900-square-foot three-story building with a basement. The property is accessible from the northwest through a main entrance along South Main Street and from the southeast through the basement along South November 6th Street. The subject property is currently vacant and has not been occupied since the mid-2000s. The subject property has been developed commercially since at least 1888. The date of the earliest useful standard historical source (Sanborn fire insurance map) obtained for this Phase I ESA. Occupants of the subject property include a furniture store (late 1800s), a book seller and tailor (early 1900s), a caft (circa 1915 to the early 1930s), a hotel on the second and third floors (1920), clothing stores (mid-1930s to mid-1940s), a jewelry store (circa 1945 to early 1970s), optometrist office (circa 1961 to 1969), fashion clothing store (1970s), gift shop (1983), restaurant (1990), pager/beeper store (mid-1990s), hat store (early to mid-2000s), and a comedy club and karaoke caft (mid-2000s). Owners: Dec 1954 Jan 1987: Joseph Larkey & Assoc. Jan 1987: Brinkley House Assoc. LTD. Jan 1987 Jul 2003: Memphis Center City Revenue Finance Corp. Jul 2003 Oct 2006: Henry H & Peggy F

MAP FINDINGS

26 S. MAIN STREET (Continued)

1016361809

Hancock/Alvin & Beth G Lansky/Oct 2006 Nov 2010: Alvin & Beth G Lansky/Nov 2010 Present: Taylor Waller Development LLC  
 Latitude: 35.144382  
 Longitude: -90.0527450000001  
 HCM label: Address Matching-House Number  
 Map scale: Not reported  
 Point of reference: Center of a Facility or Station  
 Datum: North American Datum of 1983  
 ACRES property ID: 138883  
 Start date: Not reported  
 Completed date: Not reported  
 Acres cleaned up: Not reported  
 Cleanup funding: Not reported  
 Cleanup funding source: Not reported  
 Assessment funding: 2946  
 Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement  
 Redevelopment funding: Not reported  
 Redev. funding source: Not reported  
 Redev. funding entity name: Not reported  
 Redevelopment start date: Not reported  
 Assessment funding entity: EPA  
 Cleanup funding entity: Not reported  
 Grant type: B  
 Accomplishment type: Phase I Environmental Assessment  
 Accomplishment count: 1  
 Cooperative agreement #: 95463110  
 Ownership entity: Private  
 Current owner: Taylor Waller Development LLC  
 Did owner change: N  
 Cleanup required: No  
 Video available: No  
 Photo available: Yes  
 Institutional controls required: N  
 IC Category proprietary controls: Not reported  
 IC cat. info. devices: Not reported  
 IC cat. gov. controls: Not reported  
 IC cat. enforcement permit tools: Not reported  
 IC in place date: Not reported  
 IC in place: Not reported  
 State/tribal program date: Not reported  
 State/tribal program ID: Not reported  
 State/tribal NFA date: Not reported  
 Air contaminated: Not reported  
 Air cleaned: Not reported  
 Asbestos found: Y  
 Asbestos cleaned: Not reported  
 Controlled substance found: Not reported  
 Controlled substance cleaned: Not reported  
 Drinking water affected: Not reported  
 Drinking water cleaned: Not reported  
 Groundwater affected: Not reported  
 Groundwater cleaned: Not reported  
 Lead contaminant found: Not reported  
 Lead cleaned up: Y  
 No media affected: Not reported  
 Unknown media affected: Not reported  
 Other cleaned up: Not reported

MAP FINDINGS

26 S. MAIN STREET (Continued)

1016361809

Other metals found: Not reported  
 Other metals cleaned: Not reported  
 Other contaminants found: Not reported  
 Other contents found description: Not reported  
 PAHs found: Y  
 PAHs cleaned up: Not reported  
 PCBs found: Not reported  
 PCBs cleaned up: Not reported  
 Petro products found: Not reported  
 Petro products cleaned: Not reported  
 Sediments found: Not reported  
 Sediments cleaned: Not reported  
 Soil affected: Not reported  
 Soil cleaned up: Not reported  
 Surface water cleaned: Not reported  
 VOCs found: Y  
 VOCs cleaned: Not reported  
 Cleanup other description: Not reported  
 Num. of cleanup and re-dev. jobs: Not reported  
 Past use greenspace acreage: Not reported  
 Past use residential acreage: Not reported  
 Past use commercial acreage: .08  
 Past use industrial acreage: Not reported  
 Future use greenspace acreage: Not reported  
 Future use residential acreage: .04  
 Future use commercial acreage: .04  
 Future use industrial acreage: Not reported  
 Greenspace acreage and type: Not reported  
 Superfund Fed. landowner flag: Not reported  
 Arsenic cleaned up: Not reported  
 Cadmium cleaned up: Not reported  
 Chromium cleaned up: Not reported  
 Copper cleaned up: Not reported  
 Iron cleaned up: Not reported  
 mercury cleaned up: Not reported  
 nickel cleaned up: Not reported  
 No clean up: Not reported  
 Pesticides cleaned up: Not reported  
 Selenium cleaned up: Not reported  
 SVOCs cleaned up: Not reported  
 Unknown clean up: Not reported  
 Arsenic contaminant found: Not reported  
 Cadmium contaminant found: Not reported  
 Chromium contaminant found: Not reported  
 Copper contaminant found: Not reported  
 Iron contaminant found: Not reported  
 Mercury contaminant found: Not reported  
 Nickel contaminant found: Not reported  
 No contaminant found: Not reported  
 Pesticides contaminant found: Not reported  
 Selenium contaminant found: Not reported  
 SVOCs contaminant found: Not reported  
 Unknown contaminant found: Not reported  
 Future Use: Multistory 0  
 Media affected Bluiding Material: Y  
 Media affected indoor air: Not reported  
 Building material media cleaned up: Not reported

MAP FINDINGS

26 S. MAIN STREET (Continued)

1016361809

Indoor air media cleaned up: Not reported  
 Unknown media cleaned up: Not reported  
 Past Use: Multistory

FINDS:

Registry ID: 110045010028

Environmental Interests/Information System

US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

AB143 FISHER L J EDR US Hist Auto Stat 1014194974  
 ESE 267 JEFFERSON AVE N/A  
 1/8-1/4 MEMPHIS, TN

1256 ft. Site 1 of 4 in cluster AB

Relative: EDR Historical Auto Stations:  
 Lower Name: FISHER L J  
 Year: 1921  
 Actual: Type: AUTOMOBILE REPAIRS  
 240 ft.

X144 THIRD STREET GARAGE EDR US Hist Auto Stat 1014164040  
 South 22 3RD S N/A  
 1/8-1/4 MEMPHIS, TN

1258 ft. Site 3 of 3 in cluster X

Relative: EDR Historical Auto Stations:  
 Lower Name: THIRD STREET GARAGE  
 Year: 1932  
 Actual: Type: AUTOMOBILE GARAGES  
 248 ft.

AB145 TAYLOR BILL TRANSMISSIONS EDR US Hist Auto Stat 1014178699  
 ESE 85 4TH ST N N/A  
 1/8-1/4 MEMPHIS, TN 38103

1286 ft. Site 2 of 4 in cluster AB

Relative: EDR Historical Auto Stations:  
 Lower Name: AAMCO TRANSMISSIONS  
 Year: 1968  
 Actual: Type: AUTOMOBILE REPAIRING  
 240 ft.  
 Name: A A M C O TRANSMISSIONS  
 Year: 1973  
 Type: AUTOMOBILE REPAIRING  
 Name: TAYLOR BILL TRANSMISSIONS  
 Year: 1978  
 Type: AUTOMOBILE REPAIRING

MAP FINDINGS

146 COLE JAS DCLO PRSR EDR US Hist Cleaners 1014142318  
 NNE 232 MAIN N N/A  
 1/8-1/4 MEMPHIS, TN

0.245 mi.  
 1291 ft.

Relative: EDR Historical Cleaners:  
 Lower Name: COLE JAS DCLO PRSR  
 Year: 1938  
 Actual: Type: CLOTHES PRESSERS AND CLEANERS  
 237 ft.

Y147 A DUNCAN A HARVEY FILLING STA EDR US Hist Auto Stat 1014164583  
 NNE 225 2ND N N/A  
 1/8-1/4 MEMPHIS, TN

0.247 mi.  
 1302 ft.

Relative: EDR Historical Auto Stations:  
 Lower Name: DUNCAN ABNER H SERV EITA  
 Year: 1932  
 Actual: Type: GASOLINE AND OIL SERVICE STATIONS  
 258 ft.

Name: ADUNCAN A HARVEY FILLING  
 Year: 1938  
 Type: GASOLINE AND OIL SERVICE STATIONS

Name: A DUNCAN A HARVEY FILLING STA  
 Year: 1943  
 Type: GASOLINE AND OIL SERVICE STATIONS

Name: DUNCAN ABNER H  
 Year: 1948  
 Type: GASOLINE AND OIL SERVICE STATIONS

Name: DUNCAN A HARVEY  
 Year: 1953  
 Type: GASOLINE STATIONS

Name: DUNCAN A HARVEY GAS STA  
 Year: 1958  
 Type: GASOLINE STATIONS

Name: DUNCAN A HARVEY GAS ST  
 Year: 1963  
 Type: GASOLINE STATIONS

AC148 COOK J B AUTO & MA EDR US Hist Auto Stat 1014166129  
 ENE 247 POPLAR AVE N/A  
 1/8-1/4 MEMPHIS, TN

0.248 mi.  
 1308 ft.

Relative: EDR Historical Auto Stations:  
 Lower Name: COOK J B AUTO & MA  
 Year: 1921  
 Actual: Type: AUTOMOBILE REPAIRS  
 232 ft.

Name: COOK J B AUTO & MA  
 Year: 1921  
 Type: AUTOMOBILE REPAIRS

**AC149** STROUDS MR EXCLUSIVE RUG EDR US Hist Cleaners 1014144221  
**ENE** 247 POPLAR AVE N/A  
 1/8-1/4 MEMPHIS, TN  
 0.248 mi.  
 1308 ft. Site 2 of 2 in cluster AC  
**Relative:** EDR Historical Cleaners:  
**Lower** Name: STROUDS MR EXCLUSIVE RUG  
 Year: 1948  
 Type: CARPET CLEANERS AND LAYERS  
**Actual:**  
**232 ft.** Name: ASTROUDS RUG CLEANERS  
 Year: 1948  
 Type: CARPET CLEANERS AND LAYERS

**AB150** TRI-STATE PRESS INC RCRA NonGen / NLR 1000915468  
**ESE** 277 JEFFERSON AVENUE FINDS TN00607021363  
 1/8-1/4 MEMPHIS, TN 38103  
 0.248 mi. Site 3 of 4 in cluster AB  
 1310 ft. RCRA NonGen / NLR:  
**Lower** Date form received by agency: 11/19/1980  
 Facility name: TRI-STATE PRESS INC  
 Facility address: 277 JEFFERSON AVENUE  
 MEMPHIS, TN 38103  
 EPA ID: TN0007021363  
 Mailing address: JEFFERSON AVE  
 MEMPHIS, TN 38103  
 Contact: TRI-STATE PRESS  
 Contact address: 277 JEFFERSON AVENUE  
 MEMPHIS, TN 38103  
 Contact country: US  
 Contact telephone: (615) 555-1212  
 Contact email: Not reported  
 EPA Region: 04  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Violation Status: No violations found  
 FINDS:

**TRI-STATE PRESS INC (Continued)** 1000915468  
 Registry ID: 110004960766  
 Environmental Interest/Information System  
 RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**AB151** A CARNEY JIMMY AUTO REPR EDR US Hist Auto Stat 1014159778  
**ESE** 283 JEFFERSON AVE N/A  
 1/8-1/4 MEMPHIS, TN  
 0.249 mi. Site 4 of 4 in cluster AB  
 1314 ft. EDR Historical Auto Stations:  
**Relative:** Name: CARNEY JIMMY AUTO REPR  
**Lower** Year: 1953  
 Type: AUTOMOBILE REPAIRING  
**Actual:** Name: A CARNEY JIMMY AUTO REPR  
**239 ft.** Year: 1953  
 Type: AUTOMOBILE REPAIRING  
 Name: CARNEY JIMMY AUTO REPR  
 Year: 1963  
 Type: AUTOMOBILE REPAIRING

**152** HD SUPPLY UTILITIES TN INST CONTROL S116158747  
**East** 273 WASHINGTON AVENUE N/A  
 1/4-1/2 MEMPHIS, TN  
 0.267 mi.  
 1410 ft.

**Relative:** INST CONTROL:  
**Lower** Facility ID: Not reported  
 EFO: Statewide  
 Control Type: Institutional  
 Control Description: Land Use Restriction  
**Actual:** Instrument Number: 11120524  
**235 ft.** Section: VOAP  
 Date Review: -  
 Date Recorded: DEC-06-2011  
 Date Removed: -  
 Map: -  
 Parcel: Not reported  
 Deed Book: 002032 00001  
 Page Number: -  
 Acreage: 0.68  
 PCB: -  
 VOC: -  
 SVOC: -  
 TPH: -  
 PAH: -

**HD SUPPLY UTILITIES (Continued)** S116158747  
 TCE: -  
 PCE: -  
 Metals: -  
 Pesticides: -  
 Arsenic: -  
 Lead: -  
 Other Contaminants: petroleum  
 Commercial Restriction: -  
 Residential Restriction: No  
 Daycare Restriction: No  
 School Restriction: No  
 Church Restriction: No  
 Groundwater Restriction: No  
 Invasive Activity: No  
 Other Restrictions: -  
 Facility ID: Not reported  
 EC Access: -  
 EC Cap: -  
 EC Monitor: -  
 EC Systems: -  
 Latitude: 35.147  
 Longitude: -90.046

**AA153** ELLIOTT WHITTING BLG TN LUST TRUST S104781726  
**SSE** 25 64 S. THIRD ST. N/A  
 1/4-1/2 MEMPHIS, TN  
 0.268 mi. Site 2 of 2 in cluster AA  
 1414 ft. LUST TRUST:  
**Relative:** Facility ID: 9790294  
**Lower** Case Number: 1  
 Application Num: 91004  
 Tank Owner: Fagens Inc  
 Owner ID: 308438  
 Deductible: Not reported  
 Applied Requested: Not reported  
 Applied Not Eligible: Not reported  
 Applied Net Pay: Not reported  
 Applied Deductible: Not reported  
 Applied Payment: Not reported  
 Total Requested: Not reported  
 Total Not Eligible: Not reported  
 Total Paid: Not reported  
 Total Net Pay: Not reported  
**Case Status:** Denied

**154** WOLF RIVER HARBOR - SOUTHERN SECTION - LOWER US BROWNFIELDS 1016361811  
**NW** MOUTH TO A.W. WILLIS BRIDGE FINDS TN016361811  
 1/4-1/2 MEMPHIS, TN 38103  
 0.280 mi.  
 1480 ft. US BROWNFIELDS:  
**Relative:** Recipient name: Memphis-Shelby County  
**Lower** Grant type: Assessment  
 Property name: WOLF RIVER HARBOR - SOUTHERN SECTION - LOWER  
**Actual:** Property #: Not Applicable  
**189 ft.** Parcel size: 100  
 Property Description: Subject property is the water body and sediments of the Wolf River Harbor, which is considered "waters of the state" and "waters of the United States." U.S. Corps of Engineers defines the property as a "slack-water harbor used for the import of industrial materials." The Harbor includes two marinas, a commercial dock, and industrial terminals on adjoining properties. The southern section extends from the A.W. Willis Ave. Bridge south to the confluence of the Harbor with the Mississippi River at Beale St. and Riverside Dr. Southern section is surrounded by residences and active commercial properties interspersed with recreational and tourist businesses. The Harbor has been used as a port since the first settlements (circa 1795) that eventually became the City of Memphis, which was founded in 1819 and incorporated in 1826. During the 19th century, Memphis became a major port along the Mississippi River. Several docks and terminals were built along the eastern shore of the current Harbor and the riverfront of Memphis to support trading, transportation of goods, and passage along the Mississippi River. In 1960, the Harbor was formed when the Wolf River was diverted to a more direct route to the Mississippi River. A causeway was constructed at the north end of the current Harbor, connecting the north end of Mud Island to Memphis. Prior to 1960, the subject property was the main channel of the Wolf River, and the mouth of the Wolf River was at the current mouth of the Harbor. The headwaters of the Wolf River are in northern Mississippi and the river flows through Shelby County, generally forming the boundary between northern Memphis (Frazier and Raleigh) and the remainder of the city. After the Harbor was formed in 1960 and until the early 1970s, when the North Wastewater Treatment Plant was constructed, the Harbor received untreated domestic and industrial wastewater through direct discharge from Uptown and Downtown Memphis, including Cypress Creek.  
 Latitude: 35.150385  
 Longitude: -90.055687  
 HCM label: Interpolation-Satellite  
 Map scale: Not reported  
 Point of reference: Center of a Facility or Station  
 Datum: North American Datum of 1983  
 ACRES property ID: 138885  
 Start date: Not reported  
 Completed date: Not reported  
 Acres cleaned up: Not reported  
 Cleanup funding: Not reported  
 Cleanup funding source: Not reported  
 Assessment funding: 2946  
 Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement  
 Redevelopment funding: 2520000  
 Redevelopment funding source: Local Funding  
 Redev. funding entity name: County Redevelopment Agency

WOLF RIVER HARBOR - SOUTHERN SECTION - LOWER (Continued)

1016361811

Redevelopment start date: 18-MAR-11  
 Assessment funding entity: EPA  
 Cleanup funding entity: Not reported  
 Grant type: B  
 Accomplishment type: Phase I Environmental Assessment  
 Accomplishment count: 1  
 Cooperative agreement #: 95463110  
 Ownership entity: Government  
 Current owner: State  
 Did owner change: N  
 Cleanup required: Unknown  
 Video available: No  
 Photo available: Yes  
 Institutional controls required: U  
 IC Category proprietary controls: Not reported  
 IC cat. info. devices: Not reported  
 IC cat. gov. controls: Not reported  
 IC cat. enforcement permit tools: Not reported  
 IC in place date: Not reported  
 IC in place: Not reported  
 State/tribal program date: Not reported  
 State/tribal program ID: Not reported  
 State/tribal NFA date: Not reported  
 Air contaminated: Not reported  
 Air cleaned: Not reported  
 Asbestos found: Not reported  
 Asbestos cleaned: Not reported  
 Controlled substance found: Not reported  
 Controlled substance cleaned: Not reported  
 Drinking water affected: Not reported  
 Drinking water cleaned: Not reported  
 Groundwater affected: Not reported  
 Groundwater cleaned: Not reported  
 Lead contaminant found: Not reported  
 Lead cleaned up: Not reported  
 No media affected: Not reported  
 Unknown media affected: Y  
 Other cleaned up: Not reported  
 Other metals found: Not reported  
 Other metals cleaned: Not reported  
 Other contaminants found: Not reported  
 Other contaminants found description: Not reported  
 PAHs found: Not reported  
 PAHs cleaned up: Not reported  
 PCBs found: Not reported  
 PCBs cleaned up: Not reported  
 Petro products found: Not reported  
 Petro products cleaned: Not reported  
 Sediments found: Not reported  
 Sediments cleaned: Not reported  
 Soil affected: Not reported  
 Soil cleaned up: Not reported  
 Surface water cleaned: Not reported  
 VOCs found: Not reported  
 VOCs cleaned: Not reported  
 Cleanup other description: Not reported  
 Num. of cleanup and re-dev. jobs: 0

WOLF RIVER HARBOR - SOUTHERN SECTION - LOWER (Continued)

1016361811

Past use greenspace acreage: Not reported  
 Past use residential acreage: Not reported  
 Past use commercial acreage: Not reported  
 Past use industrial acreage: 100  
 Future use greenspace acreage: 100  
 Future use residential acreage: Not reported  
 Future use commercial acreage: Not reported  
 Future use industrial acreage: Not reported  
 Greenspace acreage and type: Not reported  
 Superfund Fed. landowner flag: Not reported  
 Arsenic cleaned up: Not reported  
 Cadmium cleaned up: Not reported  
 Chromium cleaned up: Not reported  
 Copper cleaned up: Not reported  
 Iron cleaned up: Not reported  
 mercury cleaned up: Not reported  
 nickel cleaned up: Not reported  
 No clean up: Not reported  
 Pesticides cleaned up: Not reported  
 Selenium cleaned up: Not reported  
 SVOCs cleaned up: Not reported  
 Unknown clean up: Not reported  
 Arsenic contaminant found: Not reported  
 Cadmium contaminant found: Not reported  
 Chromium contaminant found: Not reported  
 Copper contaminant found: Not reported  
 Iron contaminant found: Not reported  
 Mercury contaminant found: Not reported  
 Nickel contaminant found: Not reported  
 No contaminant found: Not reported  
 Pesticides contaminant found: Not reported  
 Selenium contaminant found: Not reported  
 SVOCs contaminant found: Not reported  
 Unknown contaminant found: Not reported  
 Future Use: Multistory  
 Media affected Bluiding Material: Not reported  
 Media affected indoor air: Not reported  
 Building material media cleaned up: Not reported  
 Indoor air media cleaned up: Not reported  
 Unknown media cleaned up: Not reported  
 Past Use: Multistory  
 Recipient name: Memphis-Shelby County  
 Grant type: Assessment  
 Property name: WOLF RIVER HARBOR - SOUTHERN SECTION - LOWER  
 Property #: Not Applicable  
 Parcel size: 100  
 Property Description: Subject property is the water body and sediments of the Wolf River Harbor, which is considered "waters of the state" and "waters of the United States." U.S. Corps of Engineers defines the property as a "slack-water harbor used for the import of industrial materials." The Harbor includes two marinas, a commercial dock, and industrial terminals on adjoining properties. The southern section extends from the A.W. Willis Ave. Bridge south to the confluence of the Harbor with the Mississippi River at Beale St. and Riverside Dr. Southern section is surrounded by residences and active commercial properties interspersed with recreational and tourist businesses. The Harbor has

WOLF RIVER HARBOR - SOUTHERN SECTION - LOWER (Continued)

1016361811

been used as a port since the first settlements (circa 1795) that eventually became the City of Memphis, which was founded in 1819 and incorporated in 1826. During the 19th century, Memphis became a major port along the Mississippi River. Several docks and terminals were built along the eastern shore of the current Harbor and the riverfront of Memphis to support trading, transportation of goods, and passage along the Mississippi River. In 1960, the Harbor was formed when the Wolf River was diverted to a more direct route to the Mississippi River. A causeway was constructed at the north end of the current Harbor, connecting the north end of Mud Island to Memphis. Prior to 1960, the subject property was the main channel of the Wolf River, and the mouth of the Wolf River was at the current mouth of the Harbor. The headwaters of the Wolf River are in northern Mississippi and the river flows through Shelby County, generally forming the boundary between northern Memphis (Frayser and Raleigh) and the remainder of the city. After the Harbor was formed in 1960 and until the early 1970s, when the North Wastewater Treatment Plant was constructed, the Harbor received untreated domestic and industrial wastewater through direct discharge from Uptown and Downtown Memphis, including Cypress Creek.  
 Latitude: 35.150385  
 Longitude: -90.055687  
 HCM label: Interpolation-Satellite  
 Map scale: Not reported  
 Point of reference: Center of a Facility or Station  
 Datum: North American Datum of 1983  
 ACRES property ID: 138885  
 Start date: Not reported  
 Completed date: Not reported  
 Acres cleaned up: Not reported  
 Cleanup funding: Not reported  
 Cleanup funding source: Not reported  
 Assessment funding: 2946  
 Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement  
 Redevelopment funding: 1104098  
 Local funding sources: Local Funding  
 Redev. funding entity name: Memphis Division of Public Works  
 Redevelopment start date: 18-MAR-11  
 Assessment funding entity: EPA  
 Cleanup funding entity: Not reported  
 Grant type: B  
 Accomplishment type: Phase I Environmental Assessment  
 Accomplishment count: 1  
 Cooperative agreement #: 95463110  
 Ownership entity: Government  
 Current owner: State  
 Did owner change: N  
 Cleanup required: Unknown  
 Video available: No  
 Photo available: Yes  
 Institutional controls required: U  
 IC Category proprietary controls: Not reported  
 IC cat. info. devices: Not reported  
 IC cat. gov. controls: Not reported  
 IC cat. enforcement permit tools: Not reported  
 IC in place date: Not reported  
 IC in place: Not reported

WOLF RIVER HARBOR - SOUTHERN SECTION - LOWER (Continued)

1016361811

State/tribal program date: Not reported  
 State/tribal program ID: Not reported  
 State/tribal NFA date: Not reported  
 Air contaminated: Not reported  
 Air cleaned: Not reported  
 Asbestos found: Not reported  
 Asbestos cleaned: Not reported  
 Controlled substance found: Not reported  
 Controlled substance cleaned: Not reported  
 Drinking water affected: Not reported  
 Drinking water cleaned: Not reported  
 Groundwater affected: Not reported  
 Groundwater cleaned: Not reported  
 Lead contaminant found: Not reported  
 Lead cleaned up: Not reported  
 No media affected: Not reported  
 Unknown media affected: Y  
 Other cleaned up: Not reported  
 Other metals found: Not reported  
 Other metals cleaned: Not reported  
 Other contaminants found: Not reported  
 Other contaminants found description: Not reported  
 PAHs found: Not reported  
 PAHs cleaned up: Not reported  
 PCBs found: Not reported  
 PCBs cleaned up: Not reported  
 Petro products found: Not reported  
 Petro products cleaned: Not reported  
 Sediments found: Not reported  
 Sediments cleaned: Not reported  
 Soil affected: Not reported  
 Soil cleaned up: Not reported  
 Surface water cleaned: Not reported  
 VOCs found: Not reported  
 VOCs cleaned: Not reported  
 Cleanup other description: Not reported  
 Num. of cleanup and re-dev. jobs: 0  
 Past use greenspace acreage: Not reported  
 Past use residential acreage: Not reported  
 Past use commercial acreage: Not reported  
 Past use industrial acreage: 100  
 Future use greenspace acreage: 100  
 Future use residential acreage: Not reported  
 Future use commercial acreage: Not reported  
 Future use industrial acreage: Not reported  
 Greenspace acreage and type: Not reported  
 Superfund Fed. landowner flag: Not reported  
 Arsenic cleaned up: Not reported  
 Cadmium cleaned up: Not reported  
 Chromium cleaned up: Not reported  
 Copper cleaned up: Not reported  
 Iron cleaned up: Not reported  
 mercury cleaned up: Not reported  
 nickel cleaned up: Not reported  
 No clean up: Not reported  
 Pesticides cleaned up: Not reported  
 Selenium cleaned up: Not reported



WOLF RIVER HARBOR - SOUTHERN SECTION - LOWER (Continued)

1016361811

SVOCs cleaned up: Not reported  
 Unknown clean up: Not reported  
 Arsenic contaminant found: Not reported  
 Cadmium contaminant found: Not reported  
 Chromium contaminant found: Not reported  
 Copper contaminant found: Not reported  
 Iron contaminant found: Not reported  
 Mercury contaminant found: Not reported  
 Nickel contaminant found: Not reported  
 No contaminant found: Not reported  
 Pesticides contaminant found: Not reported  
 Selenium contaminant found: Not reported  
 SVOCs contaminant found: Not reported  
 Unknown contaminant found: Not reported  
 Future Use: Multistory Not reported  
 Media affected Bludging Material: Not reported  
 Media affected indoor air: Not reported  
 Building material media cleaned up: Not reported  
 Indoor air media cleaned up: Not reported  
 Unknown media cleaned up: Not reported  
 Past Use: Multistory Not reported

Recipient name: Memphis-Shelby County  
 Grant type: Assessment  
 Property name: WOLF RIVER HARBOR - SOUTHERN SECTION - LOWER  
 Property #: Not Applicable  
 Parcel size: 100  
 Property Description:

Subject property is the water body and sediments of the Wolf River Harbor, which is considered "waters of the state" and "waters of the United States." U.S. Corps of Engineers defines the property as a "slack-water harbor used for the import of industrial materials." The Harbor includes two marinas, a commercial dock, and industrial terminals on adjoining properties. The southern section extends from the A.W. Willis Ave. Bridge south to the confluence of the Harbor with the Mississippi River at Beale St. and Riverside Dr. Southern section is surrounded by residences and active commercial properties interspersed with recreational and tourist businesses. The Harbor has been used as a port since the first settlements (circa 1795) that eventually became the City of Memphis, which was founded in 1819 and incorporated in 1826. During the 19th century, Memphis became a major port along the Mississippi River. Several docks and terminals were built along the eastern shore of the current Harbor and the riverfront of Memphis to support trading, transportation of goods, and passage along the Mississippi River. In 1960, the Harbor was formed when the Wolf River was diverted to a more direct route to the Mississippi River. A causeway was constructed at the north end of the current Harbor, connecting the north end of Mud Island to Memphis. Prior to 1960, the subject property was the main channel of the Wolf River, and the mouth of the Wolf River was at the current mouth of the Harbor. The headwaters of the Wolf River are in northern Mississippi and the river flows through Shelby County, generally forming the boundary between northern Memphis (Frayser and Raleigh) and the remainder of the city. After the Harbor was formed in 1960 and until the early 1970s, when the North Wastewater Treatment Plant was constructed, the Harbor received untreated domestic and industrial wastewater through direct discharge from Uptown and Downtown Memphis, including Cypress Creek.

WOLF RIVER HARBOR - SOUTHERN SECTION - LOWER (Continued)

1016361811

Latitude: 35.150385  
 Longitude: -90.055687  
 HCM label: Interpolation-Satellite  
 Map scale: Not reported  
 Point of reference: Center of a Facility or Station  
 Datum: North American Datum of 1983  
 ACRES property ID: 138885  
 Start date: Not reported  
 Completed date: Not reported  
 Acres cleaned up: Not reported  
 Cleanup funding: Not reported  
 Cleanup funding source: Not reported  
 Assessment funding: 2946  
 Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement  
 Redevelopment funding: 200000  
 Redev. funding source: Other Federal Funding  
 Redev. funding entity name: U.S. Army Corps of Engineers  
 Redevelopment start date: 16-MAR-11  
 Assessment funding entity: EPA  
 Cleanup funding entity: Not reported  
 Grant type: B  
 Accomplishment type: Phase I Environmental Assessment  
 Accomplishment count: 1  
 Cooperative agreement #: 95463110  
 Ownership entity: Government  
 Current owner: Not reported  
 Did owner change: N  
 Cleanup required: Unknown  
 Video available: No  
 Photo available: Yes  
 Institutional controls required: U  
 IC Category proprietary controls: Not reported  
 IC cat. info. devices: Not reported  
 IC cat. gov. controls: Not reported  
 IC cat. enforcement permit tools: Not reported  
 IC in place date: Not reported  
 IC in place: Not reported  
 State/tribal program date: Not reported  
 State/tribal program ID: Not reported  
 State/tribal NFA date: Not reported  
 Air contaminated: Not reported  
 Air cleaned: Not reported  
 Asbestos found: Not reported  
 Asbestos cleaned: Not reported  
 Controlled substance found: Not reported  
 Controlled substance cleaned: Not reported  
 Drinking water affected: Not reported  
 Drinking water cleaned: Not reported  
 Groundwater affected: Not reported  
 Groundwater cleaned: Not reported  
 Lead contaminant found: Not reported  
 Lead cleaned up: Not reported  
 No media affected: Not reported  
 Unknown media affected: Y  
 Other cleaned up: Not reported  
 Other metals found: Not reported  
 Other metals cleaned: Not reported

WOLF RIVER HARBOR - SOUTHERN SECTION - LOWER (Continued)

1016361811

Other contaminants found: Not reported  
 Other contaminants found description: Not reported  
 PAHs found: Not reported  
 PAHs cleaned up: Not reported  
 PCBs found: Not reported  
 PCBs cleaned up: Not reported  
 Petro products found: Not reported  
 Petro products cleaned: Not reported  
 Sediments found: Not reported  
 Sediments cleaned: Not reported  
 Soil affected: Not reported  
 Soil cleaned up: Not reported  
 Surface water cleaned: Not reported  
 VOCs found: Not reported  
 VOCs cleaned: Not reported  
 Cleanup other description: Not reported  
 Num. of cleanup and re-dev. jobs: 0  
 Past use greenspace acreage: Not reported  
 Past use residential acreage: Not reported  
 Past use commercial acreage: Not reported  
 Past use industrial acreage: 100  
 Future use greenspace acreage: 100  
 Future use residential acreage: Not reported  
 Future use commercial acreage: Not reported  
 Future use industrial acreage: Not reported  
 Greenspace acreage and type: Not reported  
 Superfund Fed. landowner flag: Not reported  
 Arsenic cleaned up: Not reported  
 Cadmium cleaned up: Not reported  
 Chromium cleaned up: Not reported  
 Copper cleaned up: Not reported  
 Iron cleaned up: Not reported  
 mercury cleaned up: Not reported  
 nickel cleaned up: Not reported  
 No clean up: Not reported  
 Pesticides cleaned up: Not reported  
 Selenium cleaned up: Not reported  
 SVOCs cleaned up: Not reported  
 Unknown clean up: Not reported  
 Arsenic contaminant found: Not reported  
 Cadmium contaminant found: Not reported  
 Chromium contaminant found: Not reported  
 Copper contaminant found: Not reported  
 Iron contaminant found: Not reported  
 Mercury contaminant found: Not reported  
 Nickel contaminant found: Not reported  
 No contaminant found: Not reported  
 Pesticides contaminant found: Not reported  
 Selenium contaminant found: Not reported  
 SVOCs contaminant found: Not reported  
 Unknown contaminant found: Not reported  
 Future Use: Multistory Not reported  
 Media affected Bludging Material: Not reported  
 Media affected indoor air: Not reported  
 Building material media cleaned up: Not reported  
 Indoor air media cleaned up: Not reported  
 Unknown media cleaned up: Not reported

WOLF RIVER HARBOR - SOUTHERN SECTION - LOWER (Continued)

1016361811

Past Use: Multistory Not reported  
 Recipient name: Memphis-Shelby County  
 Grant type: Assessment  
 Property name: WOLF RIVER HARBOR - SOUTHERN SECTION - LOWER  
 Property #: Not Applicable  
 Parcel size: 100  
 Property Description:  
 Subject property is the water body and sediments of the Wolf River Harbor, which is considered "waters of the state" and "waters of the United States." U.S. Corps of Engineers defines the property as a "slack-water harbor used for the import of industrial materials." The Harbor includes two marinas, a commercial dock, and industrial terminals on adjoining properties. The southern section extends from the A.W. Willis Ave. Bridge south to the confluence of the Harbor with the Mississippi River at Beale St. and Riverside Dr. Southern section is surrounded by residences and active commercial properties interspersed with recreational and tourist businesses. The Harbor has been used as a port since the first settlements (circa 1795) that eventually became the City of Memphis, which was founded in 1819 and incorporated in 1826. During the 19th century, Memphis became a major port along the Mississippi River. Several docks and terminals were built along the eastern shore of the current Harbor and the riverfront of Memphis to support trading, transportation of goods, and passage along the Mississippi River. In 1960, the Harbor was formed when the Wolf River was diverted to a more direct route to the Mississippi River. A causeway was constructed at the north end of the current Harbor, connecting the north end of Mud Island to Memphis. Prior to 1960, the subject property was the main channel of the Wolf River, and the mouth of the Wolf River was at the current mouth of the Harbor. The headwaters of the Wolf River are in northern Mississippi and the river flows through Shelby County, generally forming the boundary between northern Memphis (Frayser and Raleigh) and the remainder of the city. After the Harbor was formed in 1960 and until the early 1970s, when the North Wastewater Treatment Plant was constructed, the Harbor received untreated domestic and industrial wastewater through direct discharge from Uptown and Downtown Memphis, including Cypress Creek.

Latitude: 35.150385  
 Longitude: -90.055687  
 HCM label: Interpolation-Satellite  
 Map scale: Not reported  
 Point of reference: Center of a Facility or Station  
 Datum: North American Datum of 1983  
 ACRES property ID: 138885  
 Start date: Not reported  
 Completed date: Not reported  
 Acres cleaned up: Not reported  
 Cleanup funding: Not reported  
 Cleanup funding source: Not reported  
 Assessment funding: 2946  
 Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement  
 Redevelopment funding: 10000  
 Redev. funding source: Private/Other Funding  
 Redev. funding entity name: Memphis Landbank Uptown LLC  
 Redevelopment start date: 16-MAR-11  
 Assessment funding entity: EPA  
 Cleanup funding entity: Not reported

WOLF RIVER HARBOR - SOUTHERN SECTION - LOWER (Continued)

1016361811

Grant type: B  
 Accomplishment type: Phase I Environmental Assessment  
 Accomplishment count: 1  
 Cooperative agreement #: 95463110  
 Ownership entity: Government  
 Current owner: State  
 Did owner change: N  
 Cleanup required: Unknown  
 Video available: No  
 Photo available: Yes  
 Institutional controls required: U  
 IC Category proprietary controls: Not reported  
 IC cat. info. devices: Not reported  
 IC cat. gov. controls: Not reported  
 IC cat. enforcement permit tools: Not reported  
 IC in place date: Not reported  
 IC in place: Not reported  
 State/tribal program date: Not reported  
 State/tribal program ID: Not reported  
 State/tribal NFA date: Not reported  
 Air contaminated: Not reported  
 Air cleaned: Not reported  
 Asbestos found: Not reported  
 Asbestos cleaned: Not reported  
 Controlled substance found: Not reported  
 Controlled substance cleaned: Not reported  
 Drinking water affected: Not reported  
 Drinking water cleaned: Not reported  
 Groundwater affected: Not reported  
 Groundwater cleaned: Not reported  
 Lead cleaned up: Not reported  
 Lead contaminant found: Not reported  
 No media affected: Not reported  
 Unknown media affected: Y  
 Other cleaned up: Not reported  
 Other metals found: Not reported  
 Other contaminants cleaned: Not reported  
 Other contaminants found: Not reported  
 Other contams found description: Not reported  
 PAHs found: Not reported  
 PAHs cleaned up: Not reported  
 PCBs found: Not reported  
 PCBs cleaned up: Not reported  
 Petro products found: Not reported  
 Petro products cleaned: Not reported  
 Sediments found: Not reported  
 Sediments cleaned: Not reported  
 Soil affected: Not reported  
 Soil cleaned up: Not reported  
 Surface water cleaned: Not reported  
 VOCs found: Not reported  
 VOCs cleaned: Not reported  
 Cleanup other description: Not reported  
 Num. of cleanup and re-dev. jobs: 0  
 Past use greenspace acreage: Not reported  
 Past use residential acreage: Not reported  
 Past use commercial acreage: Not reported

WOLF RIVER HARBOR - SOUTHERN SECTION - LOWER (Continued)

1016361811

Past use industrial acreage: 100  
 Future use greenspace acreage: 100  
 Future use residential acreage: Not reported  
 Future use commercial acreage: Not reported  
 Future use industrial acreage: Not reported  
 Greenspace acreage and type: Not reported  
 Superfund Fnd. landowner flag: Not reported  
 Arsenic cleaned up: Not reported  
 Cadmium cleaned up: Not reported  
 Chromium cleaned up: Not reported  
 Copper cleaned up: Not reported  
 Iron cleaned up: Not reported  
 mercury cleaned up: Not reported  
 nickel cleaned up: Not reported  
 No clean up: Not reported  
 Pesticides cleaned up: Not reported  
 Selenium cleaned up: Not reported  
 SVOCs cleaned up: Not reported  
 Unknown clean up: Not reported  
 Arsenic contaminant found: Not reported  
 Cadmium contaminant found: Not reported  
 Chromium contaminant found: Not reported  
 Copper contaminant found: Not reported  
 Iron contaminant found: Not reported  
 Mercury contaminant found: Not reported  
 Nickel contaminant found: Not reported  
 No contaminant found: Not reported  
 Pesticides contaminant found: Not reported  
 Selenium contaminant found: Not reported  
 SVOCs contaminant found: Not reported  
 Unknown contaminant found: Not reported  
 Future Use: Multistory Not reported  
 Media affected Blinding Material: Not reported  
 Media affected indoor air: Not reported  
 Building material media cleaned up: Not reported  
 Indoor air media cleaned up: Not reported  
 Unknown media cleaned up: Not reported  
 Past Use: Multistory Not reported

FINDS:

Registry ID: 110045010046

Environmental Interest/Information System  
 US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES)  
 is an federal online database for Brownfields Grantees to  
 electronically submit data directly to EPA.

155 SE 114-1/2 0.289 mi. 1526 ft.

MEMPHIS CITY SCHOOLS  
 285 COURT AVE  
 MEMPHIS, TN 38103

SCRD DRYCLEANERS

1011117305  
 N/A

Relative: Lower  
 Actual: 238 ft.

SCRD DRYCLEANERS:  
 Record ID: 110.00000  
 Facility name: Memphis City Schools  
 Facility address: 285 COURT AVE  
 Location: MEMPHIS, Tennessee, United States  
 Other contaminant: TPH, xylenes, isopropylbenzene, p-isopropylbenzene  
 Deepest gw contaminant: Approximately 16 ft bgs  
 Plume size: chlorinated solvent: 200 x 45 ft; TPH: 100 x 150 ft  
 Groundwater depth: 6-10 ft bgs (based on static water levels in MWs)  
 Conductivity: 3.0 x 10-6 cm/s (PI 11/98) Friday  
 Gradient: 0.01 f/ft  
 Pathways: Groundwater Soil  
 DNAPL presence: No  
 Vapor intrusion: Yes  
 Cost for assessment: \$23,699  
 Cost for operation: \$34,832

Contaminant name: 1,1,1-Trichloroethane  
 Contaminant in gw: 1,490 mg/L  
 Contaminant in Soil: Not reported

Contaminant name: 1,2,4-trimethylbenzene  
 Contaminant in gw: 14,000 mh/L  
 Contaminant in Soil: 368 mg/kg

Contaminant name: 1,3,5-trimethylbenzene  
 Contaminant in gw: 7,470 mg/L  
 Contaminant in Soil: 196 mg/kg

Contaminant name: cis-1,2-Dichloroethene  
 Contaminant in gw: 50.64 mg/L  
 Contaminant in Soil: 86.90 mg/kg

Contaminant name: ethylbenzene  
 Contaminant in gw: 181 mg/L  
 Contaminant in Soil: 4.56 mg/kg

Contaminant name: n-butylbenzene  
 Contaminant in gw: Not reported  
 Contaminant in Soil: 31 mg/kg

Contaminant name: n-propylbenzene  
 Contaminant in gw: 1,450 mg/L  
 Contaminant in Soil: 38.4 mg/kg

Contaminant name: naphthalene  
 Contaminant in gw: 260 mg/L  
 Contaminant in Soil: 11.3 mg/kg

Contaminant name: p-isopropyltoluene  
 Contaminant in gw: 983 mg/L  
 Contaminant in Soil: 21.2 mg/kg

MEMPHIS CITY SCHOOLS (Continued)

1011117305

Contaminant name: tert butylbenzene  
 Contaminant in gw: 1.4 mg/L  
 Contaminant in Soil: 21.1 mg/kg

Contaminant name: Tetrachloroethene (PCE)  
 Contaminant in gw: 116.0 mg/L  
 Contaminant in Soil: 3040 mg/kg

Contaminant name: trans-1,2-Dichloroethene  
 Contaminant in gw: 0.479 mg/L  
 Contaminant in Soil: 12.60 mg/kg

Contaminant name: Trichloroethene (TCE)  
 Contaminant in gw: 43.56 mg/L  
 Contaminant in Soil: 78.20 mg/kg

Contaminant name: Vinyl Chloride  
 Contaminant in gw: 2.345 mg/L  
 Contaminant in Soil: 3.930 mg/kg

Cleanup Goals:

Goals are site-specific based on potential receptors, risk assessment and other factors. The State of Tennessee uses the EPAs Clean Water Act MCLs for groundwater and the EPA Region 9 PRGs for soil as clean-up guidelines. TN Division of Solid WasteManagement Remedial Goal Levels (TPH: 500 ppm; PCE: 6.0 ppm; TCE: 60 ppm) were used as the remedial goal during the soil excavation.

Design Cost Details:

\$599,527 \$42,361.62 - Two injection events during 2007 and 2009 conducted by IET Not reported

Facility Description Details:

The Memphis City Schools site consists of several tracts of land that are being redeveloped to accommodate a new school. For a period of more than 50 years (early 1900s to early 1970s), Loeb Laundry occupied property on the west side of the site. Drycleaning services were added around 1937. By the 1990s, the buildings associated with the Loeb facility were removed and an asphalt parking lot was constructed. The property was eventually sold to the City of Memphis. Based on the age of the Loeb Drycleaners and the typical operation of a drycleaning facility, stoddard solvent and tetrachloroethylene (PCE) were expected to be present at the site. Soil, groundwater, and free product samples collected at the site indicated the presence of PCE, stoddard solvent, total petroleum hydrocarbons (TPH), and other volatile organic compounds (VOCs).

Implementation Date:

Spring 1999/Summer 2007/Spring 2009

Final Remediation Details:

The final design consisted of two 16-ft-deep, 225-ft-cup-2-c/sup> excavations within the chlorinated solvent source area and a 14-ft-deep area, approximately 1435 ft-cup-2-c/sup>, within the TPH/free product contaminated area. Waste was characterized based on depth and contaminant concentration profiles and disposed of as construction & debris waste, special waste, or hazardous waste. 12,710 gallons of water were recovered from the excavations and treated/dispensed offsite. An additional excavation covering the previously excavated area as well as the surrounding soils (approx. 300 ft x 320 ft) was conducted to establish a stable base grade for the new building. Water from this excavation contained low levels of TPH and VOCs and was discharged to the sanitary sewer. A groundwater recovery system was installed between 2001 and 2003 (trench

MEMPHIS CITY SCHOOLS (Continued)

101117305

network in 2001, operation unit in 2003 after facility construction) to extract residual contaminants from groundwater up to 10 ft bgs. The recovery trench system is located 20 ft bgs and consists of horizontally placed 4 diameter Schedule 4-inch PVC slotted piping with bell-end joints. The joints are glued together and connected to a center cross-fitting with the ends of the piping finished with PVC caps. Filter fabric sock covers the slotted portion of the piping. The piping is entrenched with crushed limestone rock with the trench bed sloped to the northeast. The northeast end of the network is attached to a PVC sweep-fitting that connects the trench system to a 6-inch vertical PVC pipe recovery well. The well is secured within a lockable well vault. Effluent from the system is discharged to the sanitary sewer. The system pumps 30-50 gpm and, on average, has discharged 300,000 gallons/month to the sewer. Innovative Environmental Technologies (IET) performed the in-situ injections at the site using zero valent iron and various hydrogen donors and nutrients during two remedial events. The injections were conducted using a recovery well and monitoring well in the source area.

Lithology Details:

Subsurface: alluvium, fluvial (terrace) deposits; Memphis Sand; Fort Pillow Sand. Boring Log Stratigraphy: Ground level to 0.3-0.5 ft, asphalt; 0-4 ft (sometimes 6-10 ft), chert fragments and construction debris; 0.5-20 ft brown to yellow-brown or greenish gray silty clays with some sand, some mottling, firm to moist (wet at 10-12 ft)

Next Steps:

1. Monitor the groundwater CVOC concentrations in the recovery well, as well as the other monitoring wells on the site to evaluate the efficacy of the remedial program.

Technology Used Details:

In Situ: Biostimulation Zero Valent Iron Ex Situ: Pump and Treat Soil Removal

Why Technology was Selected:

Lateral extent of contamination was limited to fairly localized hot spots located within the footprint of the new building that was to be constructed. The highest contaminant concentrations were detected above and beneath the water table. Excavation was selected due to its effectiveness and the speed of remediation. Biostimulation and zero-valent iron was selected to biologically and abiotically stimulate reductive dechlorination at the site.

Other Technology Used:

Passive gas samplers (EMFLUX) and summa canisters were utilized as part of an air/soil gas monitoring program to determine if hotspots remained, if contaminants entered the new school via vapor intrusion, and if the vapor concentrations detected were a health hazard to the students.

Site Specific Details:

1. Preliminary Solvent Impact Assessment (RI) 2. Soil Characterization Report - March 1999 3. Report of Soil Removal and Disposal - April 1999 4. Groundwater Monitoring Reports: 1st Quarter GWM Rpt - October 2003 through 3rd Quarter GWM Rpt - April 2004, 5. Remedial Alternatives Study (FS) - Dec. 11, 1998 6. Health Consultation Report, Downtown School Memphis City Schools - March 2003

Principal Contact Details:

Nancy Boisvert DCERP L&C Annex, 4th Floor 401 Church Street Nashville, Tennessee 37243 615-253-3876

Results to Date:

The excavations were terminated when confirmation samples collected from the walls and floor of the excavation indicated contaminant concentrations below

MEMPHIS CITY SCHOOLS (Continued)

101117305

the established regulatory levels. The maximum PCE and TCE concentrations detected within the exposed soil surface post-excavation are 7.2 and 13.70 mg/kg, respectively. Five wells, including the recovery well (RW), are included in the groundwater recovery monitoring. The wells were sampled three times prior to starting the system and three times since operation began in June 2003. Two wells, MW-22 and MW-25, have shown no impact from site contaminants. Samples from the remaining wells, RW, MW-23, and MW-24, have indicated PCE and degradation products at elevated levels. Prior to system startup, elevated PCE (max 1210 ug/L), TCE (max 345), and cis 1,2 DCE (max 537 ug/L) were detected at RW. PCE and TCE concentrations at MW-23 and MW-24 were at or below the detection limit; elevated cis 1,2 DCE concentrations ranging from 70-106 ug/L were detected. VC concentrations were elevated in all three wells, with the maximum pre-startup concentration detected being 437 ug/L at MW-23. After system startup, VC concentrations in MW-23 and MW-24 have dropped to <1.00 ug/L and 1.88 ug/L, respectively. PCE and TCE at RW have declined overall (266 ug/L and 166 ug/L), with some fluctuation occurring with data from the last two sampling events. Vapor monitoring study indicated no apparent health risk. Four groundwater monitoring events have occurred since the injection event of 2007 and two groundwater monitoring events have occurred since the injection event of 2009. Five monitoring wells were sampled prior to the remedial event, as well as after to monitor the efficacy of the remedial design. MW-23 was used as an injection well for the 2007 remedial event and was not sampled during the two subsequent sampling events. During the four monitoring events in 2008 and 2009, CVOC concentrations were below the laboratory detection limit of 1 ug/L. The pre-injection contaminant concentrations included cis-1,2-DCE concentrations of 174 ug/L and vinyl chloride concentrations of 103 ug/L. MW-24 has been sampled six times since the initial remedial injection of 2007. During the October 2009 sampling event, all concentrations of CVOCs were below their EPA MCL values, cis-1,2-DCE was reported as 59.5 ug/L and trans-1,2-DCE was reported as 1.63 ug/L. All other concentrations were below the laboratory detection limit of 1 ug/L. Concentrations of the contaminants of concern decreased to below the EPA MCL and EPA Region 9 PRGs from the pre-injection concentrations of 6.18 ug/L for 1,2-DCA and 92.8 ug/L for cis-1,2-DCE. The recovery well was not sampled during the 2009 sampling event because it was used as an injection well during the Spring 2009 injection event. The last sampling event was Winter 2008 in the recovery well. The concentration of PCE was 12.4 ug/L and the other CVOCs sampled were below the laboratory detection limit of 10 ug/L. The pre-injection concentrations for the first injection event in Summer 2007 were 3.65 ug/L for 1,2-DCA, 70.3 ug/L for cis-1,2-DCE, 43.1 ug/L for PCE, 17.9 ug/L for TCE, and 2.13 ug/L for vinyl chloride. MW-26 was sampled during the October 2009 sampling event and CVOC concentrations were reported as cis-1,2-DCE at 60.4 ug/L, trans-1,2-DCE at 2.42 ug/L, and vinyl chloride at 10.6 ug/L. The levels of cis-1,2-DCE and trans-1,2-DCE are not above the EPA MCL or the EPA Region 9 PRGs. The level of vinyl chloride is above the EPA MCLs, as well as the EPA Region 9 PRGs. The level however, indicates that reductive dechlorination is occurring at the site. The pre-injection concentrations for the 2009 injection event were 78.8 ug/L for cis-1,2-DCE, 1.99 ug/L TCE, and 2.3 ug/L vinyl chloride. MW-25 was not sampled during the Fall 2009 sampling event, but was sampled during the Summer 2009 sampling event. The concentrations of all but 1,2-DCA were below the laboratory detection limit of 1 ug/L. 1,2-DCE was recorded at 6.43 ug/L. The pre-injection contaminant concentration was recorded as 5.84 ug/L for 1,2-DCA.

AD156 South 114-1/2 0.342 mi. 1807 ft. Site 1 of 3 in cluster AD

RADISSON HOTEL

185 UNION MEMPHIS, TN 38103

TN LUST U004174790

TN LUST N/A

Relative: Lower 242 ft. LUST: Region: STATE Facility ID: 9792503 Current Status: 1a Completed Tank Closure Product Released: - Discovery Date: Not reported How Discovered: - Cause: - Case Manager: David Groce Case Description: Closed Section: FO Priority: - Owner ID: 0 Company Name: SHANER MEMPHIS HOTEL Owner Address: L.P. RADISSON MEMPHIS HOTEL Owner City: MEMPHIS Owner State: TN Owner Zip Code: 38103 Owner Telephone: (901) 528-1800 Owner Address 2: - IcdsZ: Not reported Site Number: 1 Contact: Not reported Cac Contact: - Contact Title: - Consultant Address 1: - Consultant Address 2: - Contact City: - Contact State: - Contact Phone: - Contact zip: - Contact cac: -

UST:

Facility ID: 9792503 Facility Description: Commercial Owner ID: 309635 Owner Name: SHANER MEMPHIS HOTEL GROUP INC. Owner Address: L.P. RADISSON MEMPHIS Owner Address 2: Not reported Owner City, St, Zip: STATE COLLEGE, PA 16803 Owner Description: Private Tank Number: 1 Tank ID: 53613 Tank Other Material: Not reported RSN Red Tagged: Not reported Fac Red Tagged: Not reported Replacement: Not reported Compartment ID: 54433 Compartment Letter: A Compartment Status: Permanently Out of Use Compartment Capacity: 1000

RADISSON HOTEL (Continued)

U004174790

Small Delivery: Not reported Tank RD: Tank\_Tightness MTG Inv/Control Substance Description: Diesel Date Installed: 03/08/1986 Date Last Used: 09/17/1996 Date Closed: Not reported Regulated: Regulated Tank Material Desc: Unknown Tank Mod Desc: None Tank Emergency: Not reported Tank No Fee: Y Overfill Type: Not reported Overfill Device Installed: N Spill Device Installed: N Date Removed From Ground: 1996-10-21 00:00:00 Pipe Material Desc: Unknown Pipe Other Material: Not reported Pipe RD: Y Pipe Repaired: N Flex Piping Type: Not reported Year Flex Piping Installed: Not reported

AD157 South 1/4-1/2 0.352 mi. 1858 ft. Site 2 of 3 in cluster AD

GREYHOUND TERMINAL 203 UNION AVE. MEMPHIS, TN 38105

TN LUST TRUST U00136599

TN SPILLS N/A

Relative: Lower 240 ft. LUST TRUST: Facility ID: 9790376 Case Number: 1 Application Num: 92096 Tank Owner: Greyhound Lines, Inc. Owner ID: 302154 Deductible: \$10,000.00 Applied Requested: Not reported Applied Not Eligible: Not reported Applied Net Pay: Not reported Applied Deductible: Not reported Applied Payment: Not reported Total Requested: \$1,032,115.84 Total Net Eligible: \$312,696.44 Total Paid: \$709,419.40 Total Net Pay: \$719,419.40 Case Status: Active

SPILLS:

State Incident Number: 200100-570 Incident Type: Spill Incident Date: 05/16/2001 Incident Notes: Not reported Incident Description: DIESEL SPILL Date Received: 05/17/2001 Time Received: 7:01:00 PM Milemarker: Not reported Route: Not reported Affected Areas: Road Surface

GREYHOUND TERMINAL (Continued)

U00136599

Carrier Type: Not reported  
 Carrier / Resp Party: Not reported  
 Responsible Party Contact: Greyhound bus  
 Responsible Party Phone: Not reported  
 Material: Diesel  
 Estimated Amount: < 10 Gallons  
 Date Closed: 05/22/2011  
 Condition of Closure: No Further Action  
 Closed By: Mark Thomas  
 Damages: False  
 Fire: False  
 Explosion: False  
 Evacuation: False  
 Exposure: False  
 Fishkill: False  
 Drinking Water Impacted: False  
 ER Guide: Not reported  
 Specific Chemical ID Number: Not reported

State Incident Number: 201000-4586  
 Incident Type: Spill  
 Incident Date: 04/02/2010  
 Incident Notes: 0745 Received phone call from Brad Kline with ERTS. Greyhound bus spilled 20 gallons of diesel fuel at 203 Union Ave onto an asphalt parking lot. Unknown amount of diesel impacted a storm drain. First Response on scene for cleanup. 1012 ERTS/ Kline reported that diesel spill is closer to 10 gallons. A storm drain was impacted, not the sewage system. The spill was contained and cleaned up by First Response. This incident is closed.

Incident Description: TRACTOR TRAILER WRECK / INCIDENT  
 Date Received: 04/05/2010  
 Time Received: 8:23:00 AM  
 Milemarker: Not reported  
 Route: Not reported  
 Affected Areas: Other  
 Carrier Type: Not reported  
 Carrier / Resp Party: Not reported  
 Responsible Party Contact: Greyhound  
 Responsible Party Phone: Not reported  
 Material: Diesel  
 Estimated Amount: 10 to 100 Gallons  
 Date Closed: 04/05/2010  
 Condition of Closure: No Further Action  
 Closed By: Jason Simpson  
 Damages: False  
 Fire: False  
 Explosion: False  
 Evacuation: False  
 Exposure: False  
 Fishkill: False  
 Drinking Water Impacted: False  
 ER Guide: Not reported  
 Specific Chemical ID Number: Not reported

AD158 GREYHOUND TERMINAL  
 South 203 UNION AVENUE  
 1/4-1/2 MEMPHIS, TN 38105  
 0.352 mi.  
 1858 ft.

TN LUST U001316599  
 TN UST  
 TN HIST UST

Site 3 of 3 in cluster AD

Relative: LUST:  
 Lower Region: STATE  
 Facility ID: 9790376  
 Current Status: 7 Closure Monitoring  
 Product Released: -  
 Discovery Date: 01/30/1990  
 How Discovered: 2 Release Detection  
 Cause: 7 Unknown  
 Case Manager: Heidi LaMountain  
 Case Description: -  
 Section: FO  
 Priority: Low  
 Owner ID: 0  
 Owner Name: GREYHOUND LINES INC  
 Owner Address: 600 Vine Street Suite 1400  
 Owner City: Cincinnati  
 Owner State: OH  
 Owner Zip Code: 45202  
 Owner Telephone: (513) 419-3307  
 Owner Address 2: -  
 fadd2: Not reported  
 Site Number: 1  
 Contact: Todd Bachand  
 Cas Contact: Tim Riddle  
 Contact Title: Mr.  
 Consultant Address 1: 110 Perimeter Park  
 Consultant Address 2: Suite E  
 Contact City: Knoxville  
 Contact State: TN  
 Contact Phone: 865-539-2077  
 Contact zip: 37922  
 Contact cac: CAC

UST:  
 Facility ID: 9790376  
 Other Facility Description:  
 Owner ID: 302154  
 Owner Name: GREYHOUND LINES, INC.  
 Owner Address: C/O STRATA ENVIRONMENTAL  
 Owner Address 2: 110 PERIMETER PARK, SUITE E  
 Owner City,St,Zip: KNOXVILLE, TN 37922  
 Owner Description: Commercial

Tank Number: 1  
 Tank ID: 45603  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: N  
 Replacement: Not reported  
 Compartment ID: 46316  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 12000

GREYHOUND TERMINAL (Continued)

U001316599

Small Delivery: Not reported  
 Tank RD: ATG  
 Substance Description: Diesel  
 Date Installed: 12/01/1996  
 Date Last Used: 11/15/1989  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Asphalt Coated or Bare Steel  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1990-10-12 00:00:00  
 Pipe Material Desc: Fiberglass Reinforced Plastic  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

Tank Number: 2  
 Tank ID: 45604  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: N  
 Replacement: Not reported  
 Compartment ID: 46317  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 8000  
 Small Delivery: Not reported  
 Tank RD: Not listed  
 Substance Description: Diesel  
 Date Installed: 09/21/1975  
 Date Last Used: 01/12/1989  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Asphalt Coated or Bare Steel  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1990-01-12 00:00:00  
 Pipe Material Desc: Unknown  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

Tank Number: 3

GREYHOUND TERMINAL (Continued)

U001316599

Tank ID: 45605  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: N  
 Replacement: N  
 Compartment ID: 46318  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 12000  
 Small Delivery: N  
 Tank RD: ATG Tank\_Tightness  
 Substance Description: Diesel  
 Date Installed: 12/01/1990  
 Date Last Used: Not reported  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Fiberglass Reinforced Plastic  
 Tank Mod Desc: None  
 Tank Emergency: N  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: Y  
 Spill Device Installed: Y  
 Date Removed From Ground: 2011-11-30 00:00:00  
 Pipe Material Desc: Fiberglass Reinforced Plastic  
 Pipe Other Material: Not reported  
 Pipe RD: Y Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

HIST UST:  
 Facility ID: 9-790376  
 Facility Description: Other  
 Owner ID: 3848  
 Owner Name: GREYHOUND LINES INC  
 Owner Address: P. O. Box 60362  
 Owner City,St,Zip: Dallas, TX 75201  
 Owner Telephone: (214) 849-8411  
 Owner Description: Commercial

Tank ID: 3  
 Tank Status: Currently in Use  
 Tank Capacity: 12000  
 Tank Contents: Diesel  
 Tank Material: Fiberglass Reinforced Plastic  
 Tank Zndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: True  
 Tank Inventory Control: False  
 Tank ATG: True  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: True



GREYHOUND TERMINAL (Continued)

U001316599

Spill Installed: True  
 Cathodic Protection: True  
 Date Installed: 12/01/1990  
 Tank Leak Detection Listed: False  
 Pipe Material: Fiberglass Reinforced Plastic  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: True  
 Pipe Leak Detection Listed: True  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: False

Tank ID: 1  
**Tank Status: Permanently Out of Use**  
 Tank Capacity: 12000  
 Tank Contents: Diesel  
 Tank Material: Asphalt Coated or Bare Steel  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False  
 Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: True  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Date Installed: 12/01/1966  
 Tank Leak Detection Listed: False  
 Pipe Material: Fiberglass Reinforced Plastic  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: True  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: False

Tank ID: 2  
**Tank Status: Permanently Out of Use**  
 Tank Capacity: 8000  
 Tank Contents: Diesel  
 Tank Material: Asphalt Coated or Bare Steel  
 Tank 2ndary Trait: None  
 Tank Manual Gauge: False

GREYHOUND TERMINAL (Continued)

U001316599

Tank Tightness: False  
 Tank Inventory Control: False  
 Tank ATG: False  
 Tank Vapor Monitor: False  
 Tank Groundwater Monitor: False  
 Tank Double Walled: False  
 Tank 2nd Contained: False  
 Tank SIR: False  
 Overfill Installed: False  
 Spill Installed: False  
 Cathodic Protection: False  
 Date Installed: 09/21/1975  
 Tank Leak Detection Listed: True  
 Pipe Material: Unknown  
 Pipe Other Material: None  
 Pipe Type: Not Listed  
 Pipe Auto Line Leak Detect.: False  
 Pipe Leak Detection Listed: False  
 Pipe Vapor Monitor: False  
 Pipe Groundwater Monitor: False  
 Pipe Dbl Walled: Not reported  
 Pipe 2nd Contained: False  
 Pipe SIR: False  
 Pipe Leak Detection Listed: True

159 East 1/4-1/2 0.363 mi. 1919 ft.

DOWNTOWN EXXON  
 119 N DANNY THOMAS BLVD  
 MEMPHIS, TN 38103

TN LUST S107465146  
 N/A

Relative: LUST:  
 Lower: Region: STATE  
 Facility Id: 9791320  
 Current Status: 8 Case Closed  
 Product Released: -  
 Discovery Date: 07/28/1987  
 How Discovered: 8 Other  
 Cause: 5 Pipe Failure  
 Case Manager: David Groce  
 Case Description: -  
 Section: FO  
 Priority: -  
 Owner ID: 0  
 Company Name: DOWNTOWN TEXACO  
 Owner Address: P O BOX 38247  
 Owner City: GERMANTOWN  
 Owner State: TN  
 Owner Zip Code: 38183-0247  
 Owner Telephone: (901) 523-2077  
 Owner Address 2: -  
 fadd2: Not reported  
 Site Number: 1  
 Contact: Not reported  
 Cac Contact: Not reported  
 Contact Title: -  
 Contact Phone: -  
 Consultant Address 1: 3013 Kate Bond Road  
 Consultant Address 2: -

DOWNTOWN EXXON (Continued)

S107465146

Contact City: Bartlett  
 Contact State: TN  
 Contact Phone: 901-373-5441  
 Contact zip: 38133  
 Contact cac: CAC  
 Region: STATE  
 Facility Id: 9791320  
 Current Status: 1a Completed Tank Closure  
 Product Released: -  
 Discovery Date: Not reported  
 How Discovered: -  
 Cause: -  
 Case Manager: David Groce  
 Case Description: -  
 Section: FO  
 Priority: -  
 Owner ID: 0  
 Company Name: DOWNTOWN TEXACO  
 Owner Address: P O BOX 38247  
 Owner City: GERMANTOWN  
 Owner State: TN  
 Owner Zip Code: 38183-0247  
 Owner Telephone: (901) 523-2077  
 Owner Address 2: -  
 fadd2: Not reported  
 Site Number: 2  
 Contact: Not reported  
 Cac Contact: -  
 Contact Title: -  
 Consultant Address 1: -  
 Consultant Address 2: -  
 Contact City: -  
 Contact State: -  
 Contact Phone: -  
 Contact zip: -  
 Contact cac: -

160 East 1/4-1/2 0.409 mi. 2161 ft.

EXXON R/S #5-7142  
 186 N DANNY THOMAS BLVD  
 MEMPHIS, TN 38103

TN LUST S107465123  
 N/A

Relative: LUST:  
 Lower: Region: STATE  
 Facility Id: 9791283  
 Current Status: 8 Case Closed  
 Product Released: -  
 Discovery Date: 12/21/1989  
 How Discovered: 3 On-site Impact  
 Cause: 7 Unknown  
 Case Manager: Cindy Patton  
 Case Description: -  
 Section: FO  
 Priority: -  
 Owner ID: 0  
 Company Name: EXXON COMPANY USA

EXXON R/S #5-7142 (Continued)

S107465123

Owner Address: P O BOX 4386  
 Owner City: HOUSTON  
 Owner State: TX  
 Owner Zip Code: 77210-4386  
 Owner Telephone: (901) 762-4239  
 Owner Address 2: -  
 fadd2: Not reported  
 Site Number: 1  
 Contact: Not reported  
 Cac Contact: Not reported  
 Contact Title: -  
 Consultant Address 1: 1775 Pyramid Place  
 Consultant Address 2: Suite 110  
 Contact City: Memphis  
 Contact State: TN  
 Contact Phone: 901-332-8055  
 Contact zip: 38132  
 Contact cac: CAC

AE161 SE 1/4-1/2 0.414 mi. 2188 ft.

WELLS FARGO ARMORED SERVICE CORP  
 277 MONROE AVENUE  
 MEMPHIS, TN 38103  
 Site 1 of 2 in cluster AE

TN LUST U004173936  
 N/A

Relative: LUST:  
 Lower: Region: STATE  
 Facility Id: 9790838  
 Current Status: 1a Completed Tank Closure  
 Product Released: -  
 Discovery Date: Not reported  
 How Discovered: -  
 Cause: -  
 Case Manager: David Groce  
 Case Description: closed  
 Section: FO  
 Priority: -  
 Owner ID: 0  
 Company Name: WILLIAM P DAVIES  
 Owner Address: 54 SOUTH COOPER ST  
 Owner City: MEMPHIS  
 Owner State: TN  
 Owner Zip Code: 38104  
 Owner Telephone: (901) 523-8155  
 Owner Address 2: -  
 fadd2: Not reported  
 Site Number: 1  
 Contact: Not reported  
 Cac Contact: -  
 Contact Title: -  
 Consultant Address 1: -  
 Consultant Address 2: -  
 Contact City: -  
 Contact State: -  
 Contact Phone: -  
 Contact zip: -  
 Contact cac: -

WELLS FARGO ARMORED SERVICE CORP (Continued)

U004173936

Region: STATE  
 Facility Id: 9790838  
 Current Status: 8 Case Closed  
 Product Released: -  
 Discovery Date: 08/28/1997  
 How Discovered: 1 At Closure  
 Cause: 7 Unknown  
 Case Manager: Sharon Harrison  
 Case Description: Active Case  
 Section: FO  
 Priority: Medium  
 Owner ID: 0  
 Company Name: LOOMIS, FARGO & CO.  
 Owner Address: P O BOX 561367  
 Owner City: Dallas  
 Owner State: TX  
 Owner Zip Code: 75356  
 Owner Telephone: (214) 638-3909  
 Owner Address 2: -  
 fadd2: Not reported  
 Site Number: 2  
 Contact: Not reported  
 Cac Contact: -  
 Contact Title: -  
 Consultant Address 1: -  
 Consultant Address 2: -  
 Contact City: -  
 Contact State: -  
 Contact Phone: -  
 Contact zip: -  
 Contact cac: -

UST:

Facility ID: 9790838  
 Facility Description: Truck/Transporter  
 Owner ID: 302502  
 Owner Name: LOOMIS, FARGO AND CO.  
 Owner Address: P.O. BOX 561367  
 Owner Address 2: Not reported  
 Owner City,St,Zip: DALLAS, TX 75356  
 Owner Description: Commercial  
 Tank Number: 1  
 Tank ID: 50593  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 51336  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 10000  
 Small Delivery: Not reported  
 Tank RD: NotListed  
 Substance Description: Diesel  
 Date Installed: 04/08/1976  
 Date Last Used: Not reported

WELLS FARGO ARMORED SERVICE CORP (Continued)

U004173936

Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Unknown  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1997-08-25 00:00:00  
 Pipe Material Desc: Unknown  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

Tank Number: 2  
 Tank ID: 50594  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 51337  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 12000  
 Small Delivery: Not reported  
 Tank RD: NotListed  
 Substance Description: Gasoline  
 Date Installed: 04/08/1976  
 Date Last Used: 08/25/1997  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Unknown  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1997-08-25 00:00:00  
 Pipe Material Desc: Unknown  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

AE162 SE 114-1/2 0.414 mi. 2188 ft.

LOOMIS, FARGO & CO  
 277 MONROE  
 MEMPHIS, TN 38103

TN LUST TRUST S104781800 N/A

Relative: Lower  
 Actual: 239 ft.  
 LUST TRUST:  
 Facility ID: 9790838  
 Case Number: 2  
 Application Num: 00137  
 Tank Owner: Loomis, Fargo And Co.  
 Owner Id: 302502  
 Deductible: \$3,138.08  
 Applied Requested: Not reported  
 Applied Not Eligible: Not reported  
 Applied Net Pay: Not reported  
 Applied Deductible: Not reported  
 Applied Payment: Not reported  
 Total Requested: \$66,198.87  
 Total Not Eligible: \$34,818.14  
 Total Paid: \$28,242.66  
 Total Net Pay: \$31,380.73  
 Case Status: Closed

163 ESE 1/4-1/2 0.444 mi. 2343 ft.

FIRE APP MAINTANANCE SHOP  
 354 ADAMS  
 MEMPHIS, TN 38103

TN LUST U004174119 N/A

Relative: Lower  
 Actual: 239 ft.  
 LUST:  
 Region: STATE  
 Facility Id: 9791110  
 Current Status: 1a Completed Tank Closure  
 Product Released: -  
 Discovery Date: Not reported  
 How Discovered: -  
 Cause: -  
 Case Manager: Chuck Nance  
 Case Description: -  
 Section: FO  
 Priority: 0  
 Owner ID: 0  
 Company Name: CITY OF MEMPHIS/PROP  
 Owner Address: 281 EAST PARKWAY NORTH  
 Owner City: MEMPHIS  
 Owner State: TN  
 Owner Zip Code: 38112  
 Owner Telephone: (901) 528-2933  
 Owner Address 2: -  
 fadd2: Not reported  
 Site Number: 1  
 Contact: Not reported  
 Cac Contact: -  
 Contact Title: -  
 Consultant Address 1: -  
 Consultant Address 2: -  
 Contact City: -  
 Contact State: -  
 Contact Phone: -

FIRE APP MAINTANANCE SHOP (Continued)

U004174119

Contact zip: -  
 Contact cac: -

UST:

Facility ID: 9791110  
 Facility Description: Not Listed  
 Owner ID: 308910  
 Owner Name: CITY OF MEMPHIS/VEHICLE SERVICE CENTER  
 Owner Address: ATTN: RUSSELL HEASTON  
 Owner Address 2: 671 ST. JUDE PLACE  
 Owner City,St,Zip: MEMPHIS, TN 38105  
 Owner Description: Local Government

Tank Number: 1  
 Tank ID: 50240  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 50982  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 1000  
 Small Delivery: Not reported  
 Tank RD: NotListed  
 Substance Description: Not Listed  
 Date Installed: 01/15/1960  
 Date Last Used: 08/21/1991  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Asphalt Coated or Bare Steel  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1991-08-22 00:00:00  
 Pipe Material Desc: Bare Steel  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

Tank Number: 2  
 Tank ID: 50241  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 50983  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 1000  
 Small Delivery: Not reported

MAP FINDINGS

FIRE APP MAINTANANCE SHOP (Continued)

U004174119

Tank RD: NotListed  
 Substance Description: Diesel  
 Date Installed: 01/15/1971  
 Date Last Used: 08/21/1991  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Asphalt Coated or Bare Steel  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1991-08-22 00:00:00  
 Pipe Material Desc: Bare Steel  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

Tank Number: 3  
 Tank ID: 50242  
 Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 50984  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 2000  
 Small Delivery: Not reported  
 Tank RD: NotListed  
 Substance Description: Not Listed  
 Date Installed: 01/01/2000  
 Date Last Used: 08/21/1991  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Asphalt Coated or Bare Steel  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1991-08-22 00:00:00  
 Pipe Material Desc: Bare Steel  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

Tank Number: 4  
 Tank ID: 50243

MAP FINDINGS

FIRE APP MAINTANANCE SHOP (Continued)

U004174119

Tank Other Material: Not reported  
 RSN Red Tagged: Not reported  
 Fac Red Tagged: Not reported  
 Replacement: Not reported  
 Compartment ID: 50985  
 Compartment Letter: A  
 Compartment Status: Permanently Out of Use  
 Compartment Capacity: 560  
 Small Delivery: Not reported  
 Tank RD: NotListed  
 Substance Description: Used Oil  
 Date Installed: 01/15/1956  
 Date Last Used: 09/12/1991  
 Date Closed: Not reported  
 Regulated: Regulated  
 Tank Material Desc: Asphalt Coated or Bare Steel  
 Tank Mod Desc: None  
 Tank Emergency: Not reported  
 Tank No Fee: Y  
 Overfill Type: Not reported  
 Overfill Device Installed: N  
 Spill Device Installed: N  
 Date Removed From Ground: 1991-12-16 00:00:00  
 Pipe Material Desc: Bare Steel  
 Pipe Other Material: Not reported  
 Pipe RD: Y  
 Pipe Repaired: N  
 Flex Piping Type: Not reported  
 Year Flex Piping Installed: Not reported

164 MEMPHIS GASLIGHT CO EDR MGP 1008408783  
 NNE N FRONT AND MILL AVE N/A  
 1/2-1 MEMPHIS, TN 38105  
 0.828 mi.  
 4373 ft.  
 Relative: Manufactured Gas Plants:  
 Lower Alternate Name: MEMPHIS CONSOLIDATED GAS AND ELECTRIC. No additional information available  
 Actual: 222 ft.

Orphan Summary

City	EDR ID	Site Name	Site Address	Zip	Database(s)
MEMPHIS	S10746510	SALVATION ARMY	1611 DANNY THOMAS BLVD	38103	TN LUST
MEMPHIS	S10746509	MEMPHIS DEVELOPMENT EXHIBITION SHOP	1120 S MAIN ST	38107	TN LUST
MEMPHIS	S10746501	KENDRICK AT JACKSON	KENDRICK AT JACKSON	38107	TN LUST
MEMPHIS	S113874116	MAIN TO MAIN MULTIMODAL CONNECTOR	MAIN STREET / AND OTHER STREETS		TN NPDES
MEMPHIS	S10699707	FOURGE RAVINE	1429 SOUTH RIVERSIDE		TN VCP
MEMPHIS	S108976575	PLAYHOUSE ON THE SQUARE	2142 UNION AVE #2118 UNION	38119	TN VCP
MEMPHIS	S100356508	OPPRESS GREEK	N WATKINS ST	38107	CERC/NFRAP
MEMPHIS	1003868587	16 RED OPEN FIELD SES-16	WINCHESTER	38103	CERC/NFRAP
MEMPHIS	S100352423	NORTH 2ND STREET INCINERATOR	NORTH 2ND STREET INCINERATOR	38103	TN SWIFLF

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

**STANDARD ENVIRONMENTAL RECORDS**

**Federal NPL site list**

**NPL: National Priority List**  
 National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIO) and regional EPA offices.

Date of Government Version: 12/16/2014 Source: EPA  
 Date Data Arrived at EDR: 01/08/2015 Telephone: N/A  
 Date Made Active in Reports: 02/09/2015 Last EDR Contact: 01/08/2015  
 Number of Days to Update: 32 Next Scheduled EDR Contact: 04/20/2015  
 Data Release Frequency: Quarterly

**NPL Site Boundaries**

Sources:  
 EPA's Environmental Photographic Interpretation Center (EPIO)  
 Telephone: 202-564-7333

EPA Region 1 Telephone 617-918-1143	EPA Region 6 Telephone: 214-655-6659
EPA Region 3 Telephone 215-814-5418	EPA Region 7 Telephone: 913-551-7247
EPA Region 4 Telephone 404-562-8033	EPA Region 8 Telephone: 303-312-6774
EPA Region 5 Telephone 312-886-6686	EPA Region 9 Telephone: 415-947-4246
EPA Region 10 Telephone 206-553-8665	

**Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/16/2014 Source: EPA  
 Date Data Arrived at EDR: 01/08/2015 Telephone: N/A  
 Date Made Active in Reports: 02/09/2015 Last EDR Contact: 01/08/2015  
 Number of Days to Update: 32 Next Scheduled EDR Contact: 04/20/2015  
 Data Release Frequency: Quarterly

**NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA complies a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Source: EPA  
 Date Data Arrived at EDR: 02/02/1994 Telephone: 202-564-4267  
 Date Made Active in Reports: 03/30/1994 Last EDR Contact: 08/15/2011  
 Number of Days to Update: 56 Next Scheduled EDR Contact: 11/28/2011  
 Data Release Frequency: No Update Planned

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

**Federal Delisted NPL site list**

**DELISTED NPL:** National Priority List Deletions  
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/16/2014	Source: EPA
Date Data Arrived at EDR: 01/08/2015	Telephone: N/A
Date Made Active in Reports: 02/09/2015	Last EDR Contact: 01/08/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 04/20/2015
	Data Release Frequency: Quarterly

**Federal CERCLIS list**

**CERCLIS:** Comprehensive Environmental Response, Compensation, and Liability Information System  
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 01/09/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 03/09/2015
	Data Release Frequency: Quarterly

**FEDERAL FACILITY:** Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/21/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/07/2014	Telephone: 703-603-8704
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 01/09/2015
Number of Days to Update: 13	Next Scheduled EDR Contact: 04/20/2015
	Data Release Frequency: Varies

**Federal CERCLIS NFRAP site List**

**CERCLIS-NFRAP:** CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 01/09/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 03/09/2015
	Data Release Frequency: Quarterly

**Federal RCRA CORRACTS facilities list**

**CORRACTS:** Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

Date of Government Version: 12/09/2014	Source: EPA
Date Data Arrived at EDR: 12/29/2014	Telephone: 800-424-9346
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 12/29/2014
Number of Days to Update: 31	Next Scheduled EDR Contact: 04/13/2015
	Data Release Frequency: Quarterly

**Federal RCRA non-CORRACTS TSD facilities list**

**RCRA-TSDF:** RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/09/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/29/2014	Telephone: (404) 562-8651
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 12/29/2014
Number of Days to Update: 31	Next Scheduled EDR Contact: 04/13/2015
	Data Release Frequency: Quarterly

**Federal RCRA generators list**

**RCRA-LQG:** RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/29/2014	Telephone: (404) 562-8651
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 12/29/2014
Number of Days to Update: 31	Next Scheduled EDR Contact: 04/13/2015
	Data Release Frequency: Quarterly

**RCRA-SQG:** RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/09/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/29/2014	Telephone: (404) 562-8651
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 12/29/2014
Number of Days to Update: 31	Next Scheduled EDR Contact: 04/13/2015
	Data Release Frequency: Quarterly

**RCRA-CESQG:** RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/29/2014	Telephone: (404) 562-8651
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 12/29/2014
Number of Days to Update: 31	Next Scheduled EDR Contact: 04/13/2015
	Data Release Frequency: Varies

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

**Federal institutional controls / engineering controls registries**

**US ENG CONTROLS:** Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/18/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/19/2014	Telephone: 703-603-0695
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 12/03/2014
Number of Days to Update: 31	Next Scheduled EDR Contact: 03/16/2015
	Data Release Frequency: Varies

**US INST CONTROL:** Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/18/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/19/2014	Telephone: 703-603-0695
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 12/03/2014
Number of Days to Update: 31	Next Scheduled EDR Contact: 03/16/2015
	Data Release Frequency: Varies

**LUCIS:** Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/03/2014	Source: Department of the Navy
Date Data Arrived at EDR: 12/12/2014	Telephone: 843-820-7326
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 02/16/2015
Number of Days to Update: 48	Next Scheduled EDR Contact: 06/01/2015
	Data Release Frequency: Varies

**Federal ERNS list**

**ERNS:** Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/29/2014	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 09/30/2014	Telephone: 202-267-2180
Date Made Active in Reports: 11/06/2014	Last EDR Contact: 12/29/2014
Number of Days to Update: 37	Next Scheduled EDR Contact: 04/13/2015
	Data Release Frequency: Annually

**State- and tribal - equivalent NPL**

**TN SHWS:** Promulgated Sites

"Inactive hazardous substance sites that constitute an imminent, substantial danger" is an inactive hazardous substance site where there is a threat of danger to the public health, safety, or environment which is both real and presently existing. Such situations may include, but are not limited to one or more of the following: an immediate action is necessary to minimize an ongoing threat to the public health or pollution of the environment; an inactive hazardous substance site where there is an active release, where direct access to the hazardous substance is not controlled, or where incompatible hazardous substances are found in close proximity. Also known as Promulgated Sites List.

Date of Government Version: 01/05/2015	Source: Department of Environment & Conservation
Date Data Arrived at EDR: 01/06/2015	Telephone: 615-532-0900
Date Made Active in Reports: 02/11/2015	Last EDR Contact: 01/05/2015
Number of Days to Update: 36	Next Scheduled EDR Contact: 04/20/2015
	Data Release Frequency: Semi-Annually

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

**AR SHWS:** Hazardous Substance Remedial Action Trust Fund Priority List

A partial prioritized listing of sites at which remedial actions and/or investigations shall be provided by the Hazardous Substance Remedial Action Trust Fund.

Date of Government Version: 12/15/2014	Source: Department of Environmental Quality
Date Data Arrived at EDR: 12/15/2014	Telephone: 501-682-0850
Date Made Active in Reports: 01/12/2015	Last EDR Contact: 12/15/2014
Number of Days to Update: 28	Next Scheduled EDR Contact: 03/30/2015
	Data Release Frequency: Annually

**State and tribal landfill and/or solid waste disposal site lists**

**TN SWFLF:** Solid Waste Disposal Facilities

Solid Waste Facilities/Landfill Sites. SWFLF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/15/2014	Source: Department of Environment and Conservation
Date Data Arrived at EDR: 12/17/2014	Telephone: 615-532-0804
Date Made Active in Reports: 01/21/2015	Last EDR Contact: 12/17/2014
Number of Days to Update: 35	Next Scheduled EDR Contact: 03/30/2015
	Data Release Frequency: Annually

**AR SWFLF:** Solid Waste Facility Permit Database

Solid Waste Facilities/Landfill Sites. SWFLF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/10/2014	Source: Department of Environmental Quality
Date Data Arrived at EDR: 11/11/2014	Telephone: 501-682-0597
Date Made Active in Reports: 11/14/2014	Last EDR Contact: 02/10/2015
Number of Days to Update: 3	Next Scheduled EDR Contact: 05/25/2015
	Data Release Frequency: Quarterly

**State and tribal leaking storage tank lists**

**TN LUST:** Fund Eligible Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank site locations.

Date of Government Version: 09/15/2014	Source: Department of Environment and Conservation
Date Data Arrived at EDR: 11/20/2014	Telephone: 615-532-0945
Date Made Active in Reports: 01/19/2015	Last EDR Contact: 11/20/2014
Number of Days to Update: 60	Next Scheduled EDR Contact: 03/02/2015
	Data Release Frequency: Quarterly

**TN LUST TRUST:** LUST TRUST Fund Database

This list contains information on sites that had accidental releases of petroleum and are eligible for reimbursement from the TN Petroleum UST Fund.

Date of Government Version: 09/15/2014	Source: Department of Environment & Conservation
Date Data Arrived at EDR: 11/20/2014	Telephone: 615-532-0971
Date Made Active in Reports: 01/21/2015	Last EDR Contact: 11/20/2014
Number of Days to Update: 62	Next Scheduled EDR Contact: 03/02/2015
	Data Release Frequency: Varies

**TN HIST\_LUST CO:** Leaking Underground Storage Tanks Sites

A listing of leaking underground storage tank site locations from the Columbia Field Office. The listing is no longer updated.



**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

Date of Government Version: 10/18/1994  
 Date Data Arrived at EDR: 10/24/1994  
 Date Made Active in Reports: 12/30/1994  
 Number of Days to Update: 67

Source: Department of Environmental Conservation, Columbia Field Office  
 Telephone: 931-380-3371  
 Last EDR Contact: 06/29/2009  
 Next Scheduled EDR Contact: 09/28/2009  
 Data Release Frequency: No Update Planned

**INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land**  
 LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/23/2014  
 Date Data Arrived at EDR: 11/25/2014  
 Date Made Active in Reports: 01/29/2015  
 Number of Days to Update: 65

Source: EPA Region 7  
 Telephone: 913-551-7003  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Varies

**INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land**  
 LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/06/2014  
 Date Data Arrived at EDR: 10/29/2014  
 Date Made Active in Reports: 11/17/2014  
 Number of Days to Update: 19

Source: EPA Region 6  
 Telephone: 214-665-6597  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Varies

**INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land**  
 LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 07/30/2014  
 Date Data Arrived at EDR: 08/12/2014  
 Date Made Active in Reports: 08/22/2014  
 Number of Days to Update: 10

Source: EPA Region 4  
 Telephone: 404-562-8677  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Semi-Annually

**INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land**  
 LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 11/04/2014  
 Date Data Arrived at EDR: 11/07/2014  
 Date Made Active in Reports: 11/17/2014  
 Number of Days to Update: 10

Source: EPA Region 8  
 Telephone: 303-312-6271  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Quarterly

**INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land**  
 LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015  
 Date Data Arrived at EDR: 01/08/2015  
 Date Made Active in Reports: 02/09/2015  
 Number of Days to Update: 32

Source: Environmental Protection Agency  
 Telephone: 415-972-3372  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Quarterly

**INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land**  
 A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013  
 Date Data Arrived at EDR: 05/01/2013  
 Date Made Active in Reports: 11/01/2013  
 Number of Days to Update: 184

Source: EPA Region 1  
 Telephone: 617-918-1313  
 Last EDR Contact: 01/30/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Varies

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

**INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land**  
 Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/03/2014  
 Date Data Arrived at EDR: 11/05/2014  
 Date Made Active in Reports: 11/17/2014  
 Number of Days to Update: 12

Source: EPA, Region 5  
 Telephone: 312-886-7439  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Varies

**INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land**  
 LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/10/2014  
 Date Data Arrived at EDR: 11/14/2014  
 Date Made Active in Reports: 02/09/2015  
 Number of Days to Update: 87

Source: EPA Region 10  
 Telephone: 206-553-2857  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Quarterly

**State and tribal registered storage tank lists**

**TN UST: Facility and Tank Report**  
 Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/15/2014  
 Date Data Arrived at EDR: 11/20/2014  
 Date Made Active in Reports: 01/12/2015  
 Number of Days to Update: 53

Source: Department of Environment and Conservation  
 Telephone: 615-532-0945  
 Last EDR Contact: 11/20/2014  
 Next Scheduled EDR Contact: 03/02/2015  
 Data Release Frequency: Quarterly

**AR UST: Underground Storage Tank Data**  
 Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 12/22/2014  
 Date Data Arrived at EDR: 12/22/2014  
 Date Made Active in Reports: 01/12/2015  
 Number of Days to Update: 21

Source: Department of Environmental Quality  
 Telephone: 501-682-0984  
 Last EDR Contact: 12/22/2014  
 Next Scheduled EDR Contact: 04/06/2015  
 Data Release Frequency: Quarterly

**TN AST: Aboveground Storage Tanks**  
 Registered Aboveground Storage Tanks.

Date of Government Version: 10/01/1999  
 Date Data Arrived at EDR: 10/12/1999  
 Date Made Active in Reports: 11/05/1999  
 Number of Days to Update: 24

Source: Department of Environment and Conservation  
 Telephone: 615-532-0965  
 Last EDR Contact: 11/05/1999  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: No Update Planned

**AR AST: Aboveground Tank Database**  
 Aboveground storage tank locations.

Date of Government Version: 12/22/2014  
 Date Data Arrived at EDR: 12/22/2014  
 Date Made Active in Reports: 01/12/2015  
 Number of Days to Update: 21

Source: Department of Environmental Quality  
 Telephone: 501-682-0984  
 Last EDR Contact: 12/22/2014  
 Next Scheduled EDR Contact: 04/06/2015  
 Data Release Frequency: Quarterly

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

**INDIAN UST R7: Underground Storage Tanks on Indian Land**  
 The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014  
 Date Data Arrived at EDR: 11/25/2014  
 Date Made Active in Reports: 01/29/2015  
 Number of Days to Update: 65

Source: EPA Region 7  
 Telephone: 913-551-7003  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Varies

**INDIAN UST R8: Underground Storage Tanks on Indian Land**  
 The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 11/04/2014  
 Date Data Arrived at EDR: 11/07/2014  
 Date Made Active in Reports: 11/17/2014  
 Number of Days to Update: 10

Source: EPA Region 8  
 Telephone: 303-312-6137  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Quarterly

**INDIAN UST R9: Underground Storage Tanks on Indian Land**  
 The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/13/2014  
 Date Data Arrived at EDR: 11/18/2014  
 Date Made Active in Reports: 02/09/2015  
 Number of Days to Update: 83

Source: EPA Region 9  
 Telephone: 415-972-3368  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Quarterly

**INDIAN UST R10: Underground Storage Tanks on Indian Land**  
 The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/10/2014  
 Date Data Arrived at EDR: 11/14/2014  
 Date Made Active in Reports: 02/09/2015  
 Number of Days to Update: 87

Source: EPA Region 10  
 Telephone: 206-553-2857  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Quarterly

**INDIAN UST R6: Underground Storage Tanks on Indian Land**  
 The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/06/2014  
 Date Data Arrived at EDR: 10/29/2014  
 Date Made Active in Reports: 11/06/2014  
 Number of Days to Update: 8

Source: EPA Region 6  
 Telephone: 214-665-6591  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Semi-Annually

**INDIAN UST R1: Underground Storage Tanks on Indian Land**  
 The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013  
 Date Data Arrived at EDR: 05/01/2013  
 Date Made Active in Reports: 01/27/2014  
 Number of Days to Update: 271

Source: EPA, Region 1  
 Telephone: 617-918-1313  
 Last EDR Contact: 01/30/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Varies

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

**INDIAN UST R4: Underground Storage Tanks on Indian Land**  
 The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 07/30/2014  
 Date Data Arrived at EDR: 08/12/2014  
 Date Made Active in Reports: 08/22/2014  
 Number of Days to Update: 10

Source: EPA Region 4  
 Telephone: 404-562-9424  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Semi-Annually

**INDIAN UST R5: Underground Storage Tanks on Indian Land**  
 The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/03/2014  
 Date Data Arrived at EDR: 11/05/2014  
 Date Made Active in Reports: 11/17/2014  
 Number of Days to Update: 12

Source: EPA Region 5  
 Telephone: 312-886-6136  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Varies

**FEMA UST: Underground Storage Tank Listing**  
 A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010  
 Date Data Arrived at EDR: 02/16/2010  
 Date Made Active in Reports: 04/12/2010  
 Number of Days to Update: 55

Source: FEMA  
 Telephone: 202-646-5797  
 Last EDR Contact: 01/12/2015  
 Next Scheduled EDR Contact: 04/27/2015  
 Data Release Frequency: Varies

**State and tribal institutional control / engineering control registries**

**TN ENG CONTROLS: Engineering Control Sites**  
 Sites that have engineering controls:

Date of Government Version: 12/01/2014  
 Date Data Arrived at EDR: 12/04/2014  
 Date Made Active in Reports: 01/26/2015  
 Number of Days to Update: 53

Source: Department of Environment & Conservation  
 Telephone: 615-532-0900  
 Last EDR Contact: 02/16/2015  
 Next Scheduled EDR Contact: 06/01/2015  
 Data Release Frequency: Varies

**AR ENG CONTROLS: Engineering Controls Sites Listing**  
 A listing of sites with engineering controls in place.

Date of Government Version: 11/16/2014  
 Date Data Arrived at EDR: 11/19/2014  
 Date Made Active in Reports: 11/21/2014  
 Number of Days to Update: 2

Source: Department of Environmental Quality  
 Telephone: 501-682-0867  
 Last EDR Contact: 02/17/2015  
 Next Scheduled EDR Contact: 06/01/2015  
 Data Release Frequency: Varies

**TN INST CONTROL: Institutional Control Sites**  
 Sites that have institutional controls.

Date of Government Version: 11/17/2014  
 Date Data Arrived at EDR: 12/01/2014  
 Date Made Active in Reports: 01/21/2015  
 Number of Days to Update: 51

Source: Department of Environment & Conservation  
 Telephone: 615-532-0900  
 Last EDR Contact: 02/16/2015  
 Next Scheduled EDR Contact: 06/01/2015  
 Data Release Frequency: Varies

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

**AR INST CONTROL: Institutional Control/Land Use Restriction Sites**

Sites that have institutional controls and/or land use restrictions in place.

Date of Government Version: 11/16/2014  
 Date Data Arrived at EDR: 11/19/2014  
 Date Made Active in Reports: 11/21/2014  
 Number of Days to Update: 2

Source: Department of Environmental Quality  
 Telephone: 501-682-0867  
 Last EDR Contact: 02/17/2015  
 Next Scheduled EDR Contact: 06/01/2015  
 Data Release Frequency: Varies

**State and tribal voluntary cleanup sites**

**TN SRP: State Remediation Program List**

The State Remediation Program (SRP) was established in 1994 within the Division of Solid Waste Management for the purpose of providing owners, prospective purchasers and other interested parties the means to voluntarily investigate, clean up or monitor contaminated sites not regulated under RCRA, CERCLA or the Tennessee Division of Underground Tanks (UST).

Date of Government Version: 11/03/2014  
 Date Data Arrived at EDR: 11/04/2014  
 Date Made Active in Reports: 01/19/2015  
 Number of Days to Update: 76

Source: Department of Environment & Conservation  
 Telephone: 615-532-0853  
 Last EDR Contact: 02/02/2015  
 Next Scheduled EDR Contact: 05/18/2015  
 Data Release Frequency: Varies

**TN VCP: Voluntary Cleanup, Oversight and Assistance Program Sites**

The Voluntary Cleanup Oversight and Assistance Program (VOAP) offers people the opportunity to work proactively with state government to address necessary cleanup of a property to return it to productive use. In return for their efforts, participants can receive a No Further Action letter and a release of liability for areas where investigation and cleanup is conducted. The program is open to everyone with an interest in addressing contamination at a site.

Date of Government Version: 01/05/2015  
 Date Data Arrived at EDR: 01/06/2015  
 Date Made Active in Reports: 02/10/2015  
 Number of Days to Update: 35

Source: Department of Environmental & Conservation  
 Telephone: 615-532-0912  
 Last EDR Contact: 01/05/2015  
 Next Scheduled EDR Contact: 04/20/2015  
 Data Release Frequency: Varies

**AR VCP: Voluntary Cleanup Program Sites**

A listing of Voluntary Cleanup Program projects.

Date of Government Version: 11/17/2014  
 Date Data Arrived at EDR: 11/19/2014  
 Date Made Active in Reports: 01/13/2015  
 Number of Days to Update: 55

Source: Department of Environmental Quality  
 Telephone: 501-682-0867  
 Last EDR Contact: 02/17/2015  
 Next Scheduled EDR Contact: 06/01/2015  
 Data Release Frequency: Varies

**INDIAN VCP R1: Voluntary Cleanup Priority Listing**

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014  
 Date Data Arrived at EDR: 10/01/2014  
 Date Made Active in Reports: 11/06/2014  
 Number of Days to Update: 36

Source: EPA, Region 1  
 Telephone: 617-918-1102  
 Last EDR Contact: 12/31/2014  
 Next Scheduled EDR Contact: 04/13/2015  
 Data Release Frequency: Varies

**INDIAN VCP R7: Voluntary Cleanup Priority Listing**

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008  
 Date Data Arrived at EDR: 04/22/2008  
 Date Made Active in Reports: 05/19/2008  
 Number of Days to Update: 27

Source: EPA, Region 7  
 Telephone: 913-551-7365  
 Last EDR Contact: 04/20/2009  
 Next Scheduled EDR Contact: 07/20/2009  
 Data Release Frequency: Varies

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

**State and tribal Brownfields sites**

**TN BROWNFIELDS: Superfund VOAP Listing**

Brownfields sites included on the Superfund Voluntary Cleanup, Oversight & Assistance Program listing.

Date of Government Version: 01/05/2015  
 Date Data Arrived at EDR: 01/06/2015  
 Date Made Active in Reports: 02/10/2015  
 Number of Days to Update: 35

Source: Department of Environment & Conservation  
 Telephone: 615-532-0912  
 Last EDR Contact: 01/05/2015  
 Next Scheduled EDR Contact: 04/20/2015  
 Data Release Frequency: Varies

**AR BROWNFIELDS: Brownfields Projects**

Projects that the Department of Environmental Quality has received Brownfields applications for.

Date of Government Version: 11/16/2014  
 Date Data Arrived at EDR: 11/19/2014  
 Date Made Active in Reports: 11/21/2014  
 Number of Days to Update: 2

Source: Department of Environmental Quality  
 Telephone: 501-682-0867  
 Last EDR Contact: 02/17/2015  
 Next Scheduled EDR Contact: 06/01/2015  
 Data Release Frequency: Varies

**ADDITIONAL ENVIRONMENTAL RECORDS**

**Local Brownfield lists**

**US BROWNFIELDS: A Listing of Brownfields Sites**

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfields sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/22/2014  
 Date Data Arrived at EDR: 12/22/2014  
 Date Made Active in Reports: 01/29/2015  
 Number of Days to Update: 38

Source: Environmental Protection Agency  
 Telephone: 202-566-2777  
 Last EDR Contact: 12/22/2014  
 Next Scheduled EDR Contact: 04/06/2015  
 Data Release Frequency: Semi-Annually

**Local Lists of Landfill / Solid Waste Disposal Sites**

**DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations**

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
 Date Data Arrived at EDR: 05/07/2009  
 Date Made Active in Reports: 09/21/2009  
 Number of Days to Update: 137

Source: EPA, Region 9  
 Telephone: 415-947-4219  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: No Update Planned

**ODI: Open Dump Inventory**

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
 Date Data Arrived at EDR: 08/09/2004  
 Date Made Active in Reports: 09/17/2004  
 Number of Days to Update: 39

Source: Environmental Protection Agency  
 Telephone: 800-424-9346  
 Last EDR Contact: 06/09/2004  
 Next Scheduled EDR Contact: N/A  
 Data Release Frequency: No Update Planned

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

**TN SWRCY: Recycling Facilities Listing**

A listing of recycling facility locations.

Date of Government Version: 01/16/2015  
 Date Data Arrived at EDR: 01/16/2015  
 Date Made Active in Reports: 02/10/2015  
 Number of Days to Update: 25

Source: Department of Environment & Conservation  
 Telephone: 615-532-8657  
 Last EDR Contact: 01/12/2015  
 Next Scheduled EDR Contact: 04/27/2015  
 Data Release Frequency: Varies

**AR SWRCY: Recycling Directory**

A listing of recycling facilities.

Date of Government Version: 11/10/2014  
 Date Data Arrived at EDR: 11/11/2014  
 Date Made Active in Reports: 11/14/2014  
 Number of Days to Update: 3

Source: Department of Environmental Quality  
 Telephone: 501-682-0865  
 Last EDR Contact: 02/10/2015  
 Next Scheduled EDR Contact: 05/25/2015  
 Data Release Frequency: Semi-Annually

**INDIAN ODI: Report on the Status of Open Dumps on Indian Lands**

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
 Date Data Arrived at EDR: 12/03/2007  
 Date Made Active in Reports: 01/24/2008  
 Number of Days to Update: 52

Source: Environmental Protection Agency  
 Telephone: 703-308-8245  
 Last EDR Contact: 02/02/2015  
 Next Scheduled EDR Contact: 05/18/2015  
 Data Release Frequency: Varies

**Local Lists of Hazardous waste / Contaminated Sites**

**US CDL: Clandestine Drug Labs**

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/10/2014  
 Date Data Arrived at EDR: 12/01/2014  
 Date Made Active in Reports: 02/09/2015  
 Number of Days to Update: 70

Source: Drug Enforcement Administration  
 Telephone: 202-307-1000  
 Last EDR Contact: 11/25/2014  
 Next Scheduled EDR Contact: 03/16/2015  
 Data Release Frequency: Quarterly

**TN DEL SHWS: Deleted State Hazardous Waste Sites**

A listing of sites removed from the Promulgated Sites Listing.

Date of Government Version: 01/05/2015  
 Date Data Arrived at EDR: 01/06/2015  
 Date Made Active in Reports: 02/11/2015  
 Number of Days to Update: 36

Source: Department of Environment & Conservation  
 Telephone: 615-532-0900  
 Last EDR Contact: 01/05/2015  
 Next Scheduled EDR Contact: 04/20/2015  
 Data Release Frequency: Varies

**TN PRIORITY CLEANERS: DCERP Remediation Sites Listing**

Drycleaner Environmental Response Program remediation sites.

Date of Government Version: 01/23/2015  
 Date Data Arrived at EDR: 01/27/2015  
 Date Made Active in Reports: 02/10/2015  
 Number of Days to Update: 14

Source: Department of Environment & Conservation  
 Telephone: 615-253-3876  
 Last EDR Contact: 01/19/2015  
 Next Scheduled EDR Contact: 05/04/2015  
 Data Release Frequency: Varies

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

**TN CDL: Registry of Contaminated Properties**

Pursuant to TCA 68212509 the following properties have been quarantined because of methamphetamine production, but have not been cleaned and certified within the 60day time frame allotted by the statute. These properties are hereby registered by the Tennessee Department of Environment and Conservation as unremediated methamphetamine sites. This is not a comprehensive list of quarantined properties. These are properties that TDEC has been notified as being quarantined, but have not been cleaned within the 60 day grace period. Other properties where methamphetamine production residues are a concern may not have been quarantined, may not have been reported to TDEC, or may not have passed the 60day grace

Date of Government Version: 02/01/2015  
 Date Data Arrived at EDR: 02/04/2015  
 Date Made Active in Reports: 02/11/2015  
 Number of Days to Update: 7

Source: Department of Environment & Conservation  
 Telephone: 615-532-0900  
 Last EDR Contact: 02/04/2015  
 Next Scheduled EDR Contact: 05/18/2015  
 Data Release Frequency: Varies

**AR CDL: Methamphetamine Contaminated Properties Listing**

A listing of properties believed to be contaminated by the illegal manufacture of drugs.

Date of Government Version: 10/13/2014  
 Date Data Arrived at EDR: 11/04/2014  
 Date Made Active in Reports: 11/14/2014  
 Number of Days to Update: 10

Source: Department of Environmental Quality  
 Telephone: 501-683-1552  
 Last EDR Contact: 02/03/2015  
 Next Scheduled EDR Contact: 05/18/2015  
 Data Release Frequency: Varies

**US HIST CDL: National Clandestine Laboratory Register**

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/10/2014  
 Date Data Arrived at EDR: 12/01/2014  
 Date Made Active in Reports: 02/09/2015  
 Number of Days to Update: 70

Source: Drug Enforcement Administration  
 Telephone: 202-307-1000  
 Last EDR Contact: 11/25/2014  
 Next Scheduled EDR Contact: 03/16/2015  
 Data Release Frequency: No Update Planned

**Local Lists of Registered Storage Tanks**

**TN HIST UST: Underground Storage Tank Database**

This database is no longer updated by the agency. It contains records and detail fields that the current UST database does not.

Date of Government Version: 09/15/2014  
 Date Data Arrived at EDR: 11/20/2014  
 Date Made Active in Reports: 01/21/2015  
 Number of Days to Update: 62

Source: Department of Environment & Conservation  
 Telephone: 615-532-0945  
 Last EDR Contact: 01/21/2015  
 Next Scheduled EDR Contact: 03/02/2015  
 Data Release Frequency: No Update Planned

**Local Land Records**

**LIENS 2: CERCLA Lien Information**

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014  
 Date Data Arrived at EDR: 03/18/2014  
 Date Made Active in Reports: 04/24/2014  
 Number of Days to Update: 37

Source: Environmental Protection Agency  
 Telephone: 202-564-6023  
 Last EDR Contact: 01/30/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Varies

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

**TN LIENS: Liens Information**

A listing of sites with environmental liens information.

Date of Government Version: 10/07/2013  
 Date Data Arrived at EDR: 10/09/2013  
 Date Made Active in Reports: 11/13/2013  
 Number of Days to Update: 35

Source: Department of Environment & Conservation  
 Telephone: 615-532-0900  
 Last EDR Contact: 01/05/2015  
 Next Scheduled EDR Contact: 04/20/2015  
 Data Release Frequency: Varies

**Records of Emergency Release Reports**

**HMIRS: Hazardous Materials Information Reporting System**

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/30/2014  
 Date Data Arrived at EDR: 10/01/2014  
 Date Made Active in Reports: 11/06/2014  
 Number of Days to Update: 36

Source: U.S. Department of Transportation  
 Telephone: 202-366-4555  
 Last EDR Contact: 12/30/2014  
 Next Scheduled EDR Contact: 04/13/2015  
 Data Release Frequency: Annually

**TN SPILLS: State Spills**

A listing of spills locations.

Date of Government Version: 01/05/2015  
 Date Data Arrived at EDR: 01/06/2015  
 Date Made Active in Reports: 02/10/2015  
 Number of Days to Update: 35

Source: Department of Environment & Conservation  
 Telephone: 615-532-0109  
 Last EDR Contact: 01/09/2015  
 Next Scheduled EDR Contact: 04/20/2015  
 Data Release Frequency: Varies

**AR SPILLS: Emergency Response Incidents**

Spills and releases notified to the Department of Environmental Quality

Date of Government Version: 01/11/2015  
 Date Data Arrived at EDR: 01/13/2015  
 Date Made Active in Reports: 02/03/2015  
 Number of Days to Update: 21

Source: Department of Environmental Quality  
 Telephone: 501-682-0716  
 Last EDR Contact: 01/13/2015  
 Next Scheduled EDR Contact: 04/27/2015  
 Data Release Frequency: Quarterly

**Other Ascertainable Records**

**RCRA NonGen / NLR: RCRA - Non Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste

Date of Government Version: 12/09/2014  
 Date Data Arrived at EDR: 12/29/2014  
 Date Made Active in Reports: 01/29/2015  
 Number of Days to Update: 31

Source: Environmental Protection Agency  
 Telephone: (404) 562-9651  
 Last EDR Contact: 12/29/2014  
 Next Scheduled EDR Contact: 04/13/2015  
 Data Release Frequency: Varies

**DOT OPS: Incident and Accident Data**

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012  
 Date Data Arrived at EDR: 08/07/2012  
 Date Made Active in Reports: 09/18/2012  
 Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety  
 Telephone: 202-366-4595  
 Last EDR Contact: 02/03/2015  
 Next Scheduled EDR Contact: 05/18/2015  
 Data Release Frequency: Varies

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

**DOD: Department of Defense Sites**

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005  
 Date Data Arrived at EDR: 11/10/2006  
 Date Made Active in Reports: 01/11/2007  
 Number of Days to Update: 62

Source: USGS  
 Telephone: 888-275-8747  
 Last EDR Contact: 01/15/2015  
 Next Scheduled EDR Contact: 04/27/2015  
 Data Release Frequency: Semi-Annually

**FUDS: Formerly Used Defense Sites**

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 06/06/2014  
 Date Data Arrived at EDR: 09/10/2014  
 Date Made Active in Reports: 09/18/2014  
 Number of Days to Update: 8

Source: U.S. Army Corps of Engineers  
 Telephone: 202-528-4285  
 Last EDR Contact: 12/12/2014  
 Next Scheduled EDR Contact: 03/23/2015  
 Data Release Frequency: Varies

**CONSENT: Superfund (CERCLA) Consent Decrees**

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2013  
 Date Data Arrived at EDR: 01/24/2014  
 Date Made Active in Reports: 02/24/2014  
 Number of Days to Update: 31

Source: Department of Justice, Consent Decree Library  
 Telephone: Varies  
 Last EDR Contact: 12/24/2014  
 Next Scheduled EDR Contact: 04/13/2015  
 Data Release Frequency: Varies

**ROD: Records Of Decision**

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013  
 Date Data Arrived at EDR: 12/12/2013  
 Date Made Active in Reports: 02/24/2014  
 Number of Days to Update: 74

Source: EPA  
 Telephone: 703-416-0223  
 Last EDR Contact: 12/12/2014  
 Next Scheduled EDR Contact: 03/23/2015  
 Data Release Frequency: Annually

**UMTRA: Uranium Mill Tailings Sites**

Uranium ore was mined by private companies for federal government use in national defense programs. When the mill shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010  
 Date Data Arrived at EDR: 10/07/2011  
 Date Made Active in Reports: 03/01/2012  
 Number of Days to Update: 146

Source: Department of Energy  
 Telephone: 505-845-0011  
 Last EDR Contact: 11/26/2014  
 Next Scheduled EDR Contact: 03/09/2015  
 Data Release Frequency: Varies

**US MINES: Mines Master Index File**

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 12/30/2014  
 Date Data Arrived at EDR: 12/31/2014  
 Date Made Active in Reports: 01/29/2015  
 Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration  
 Telephone: 303-231-5959  
 Last EDR Contact: 12/30/2014  
 Next Scheduled EDR Contact: 03/16/2015  
 Data Release Frequency: Semi-Annually

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

**TRIS: Toxic Chemical Release Inventory System**

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011  
 Date Data Arrived at EDR: 07/31/2013  
 Date Made Active in Reports: 09/13/2013  
 Number of Days to Update: 44

Source: EPA  
 Telephone: 202-566-0250  
 Last EDR Contact: 01/29/2015  
 Next Scheduled EDR Contact: 03/09/2015  
 Data Release Frequency: Annually

**TSCA: Toxic Substances Control Act**

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012  
 Date Data Arrived at EDR: 01/15/2015  
 Date Made Active in Reports: 01/29/2015  
 Number of Days to Update: 14

Source: EPA  
 Telephone: 202-260-5521  
 Last EDR Contact: 12/22/2014  
 Next Scheduled EDR Contact: 04/06/2015  
 Data Release Frequency: Every 4 Years

**FTTS: FIFRA/TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
 Date Data Arrived at EDR: 04/16/2009  
 Date Made Active in Reports: 05/11/2009  
 Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
 Telephone: 202-566-1667  
 Last EDR Contact: 11/19/2014  
 Next Scheduled EDR Contact: 03/09/2015  
 Data Release Frequency: Quarterly

**FTTS INSP: FIFRA/TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**

A listing of FIFRA/TSCA Tracking System (FTTS) inspectors and enforcements.

Date of Government Version: 04/09/2009  
 Date Data Arrived at EDR: 04/16/2009  
 Date Made Active in Reports: 05/11/2009  
 Number of Days to Update: 25

Source: EPA  
 Telephone: 202-566-1667  
 Last EDR Contact: 11/19/2014  
 Next Scheduled EDR Contact: 03/09/2015  
 Data Release Frequency: Quarterly

**HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing**

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
 Date Data Arrived at EDR: 03/01/2007  
 Date Made Active in Reports: 04/10/2007  
 Number of Days to Update: 40

Source: Environmental Protection Agency  
 Telephone: 202-564-2501  
 Last EDR Contact: 12/17/2007  
 Next Scheduled EDR Contact: 03/17/2008  
 Data Release Frequency: No Update Planned

**HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing**

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

Date of Government Version: 10/19/2006  
 Date Data Arrived at EDR: 03/01/2007  
 Date Made Active in Reports: 04/10/2007  
 Number of Days to Update: 40

Source: Environmental Protection Agency  
 Telephone: 202-564-2501  
 Last EDR Contact: 12/17/2008  
 Next Scheduled EDR Contact: 03/17/2008  
 Data Release Frequency: No Update Planned

**SSTS: Section 7 Tracking Systems**

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009  
 Date Data Arrived at EDR: 12/10/2010  
 Date Made Active in Reports: 02/25/2011  
 Number of Days to Update: 77

Source: EPA  
 Telephone: 202-564-4203  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Annually

**ICIS: Integrated Compliance Information System**

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/31/2014  
 Date Data Arrived at EDR: 10/29/2014  
 Date Made Active in Reports: 11/06/2014  
 Number of Days to Update: 8

Source: Environmental Protection Agency  
 Telephone: 202-564-5088  
 Last EDR Contact: 01/09/2015  
 Next Scheduled EDR Contact: 04/27/2015  
 Data Release Frequency: Quarterly

**PADS: PCB Activity Database System**

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCBs who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014  
 Date Data Arrived at EDR: 10/15/2014  
 Date Made Active in Reports: 11/17/2014  
 Number of Days to Update: 33

Source: EPA  
 Telephone: 202-566-0500  
 Last EDR Contact: 01/16/2015  
 Next Scheduled EDR Contact: 04/27/2015  
 Data Release Frequency: Annually

**MLTS: Material Licensing Tracking System**

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 12/29/2014  
 Date Data Arrived at EDR: 01/08/2015  
 Date Made Active in Reports: 01/23/2015  
 Number of Days to Update: 21

Source: Nuclear Regulatory Commission  
 Telephone: 301-415-7169  
 Last EDR Contact: 12/04/2014  
 Next Scheduled EDR Contact: 03/23/2015  
 Data Release Frequency: Quarterly

**RADINFO: Radiation Information Database**

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/07/2014  
 Date Data Arrived at EDR: 10/08/2014  
 Date Made Active in Reports: 10/20/2014  
 Number of Days to Update: 12

Source: Environmental Protection Agency  
 Telephone: 202-343-9775  
 Last EDR Contact: 01/08/2015  
 Next Scheduled EDR Contact: 04/20/2015  
 Data Release Frequency: Quarterly

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

**FINDS: Facility Index System/Facility Registry System**

Facility Index System: FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/16/2014  
 Date Data Arrived at EDR: 09/23/2014  
 Date Made Active in Reports: 10/20/2014  
 Number of Days to Update: 40

Source: EPA  
 Telephone: (404) 562-9900  
 Last EDR Contact: 12/09/2014  
 Next Scheduled EDR Contact: 03/23/2015  
 Data Release Frequency: Quarterly

**RAATS: RCRA Administrative Action Tracking System**

RCRA Administration Action Tracking System: RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995  
 Date Data Arrived at EDR: 07/03/1995  
 Date Made Active in Reports: 08/07/1995  
 Number of Days to Update: 35

Source: EPA  
 Telephone: 202-564-1104  
 Last EDR Contact: 06/02/2008  
 Next Scheduled EDR Contact: 09/01/2008  
 Data Release Frequency: No Update Planned

**RMP: Risk Management Plans**

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2014  
 Date Data Arrived at EDR: 08/12/2014  
 Date Made Active in Reports: 11/06/2014  
 Number of Days to Update: 86

Source: Environmental Protection Agency  
 Telephone: 202-564-8600  
 Last EDR Contact: 01/26/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Varies

**BRS: Biennial Reporting System**

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011  
 Date Data Arrived at EDR: 02/26/2013  
 Date Made Active in Reports: 04/19/2013  
 Number of Days to Update: 52

Source: EPA/NTIS  
 Telephone: 800-424-9346  
 Last EDR Contact: 11/26/2014  
 Next Scheduled EDR Contact: 03/09/2015  
 Data Release Frequency: Biennially

**TN DRYCLEANERS: Registered Facilities List**

A list of all active registered drycleaner facilities. There may be some inactive facilities included.

Date of Government Version: 06/09/2014  
 Date Data Arrived at EDR: 07/25/2014  
 Date Made Active in Reports: 08/20/2014  
 Number of Days to Update: 26

Source: Dept. of Environment & Conservation  
 Telephone: 615-532-0900  
 Last EDR Contact: 01/23/2015  
 Next Scheduled EDR Contact: 05/04/2015  
 Data Release Frequency: Annually

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

**TN NPDES: Permitted Facility Listing**

A listing of permitted wastewater facilities.

Date of Government Version: 11/23/2014  
 Date Data Arrived at EDR: 11/25/2014  
 Date Made Active in Reports: 01/21/2015  
 Number of Days to Update: 57

Source: Department of Environment & Conservation  
 Telephone: 615-253-2245  
 Last EDR Contact: 11/21/2014  
 Next Scheduled EDR Contact: 03/09/2015  
 Data Release Frequency: Varies

**TN AIRS: Listing of Permitted Sources**

A listing of permitted sources issued by the Division of Air Pollution Control.

Date of Government Version: 12/15/2014  
 Date Data Arrived at EDR: 12/18/2014  
 Date Made Active in Reports: 01/21/2015  
 Number of Days to Update: 34

Source: Department of Environment & Conservation  
 Telephone: 615-532-0545  
 Last EDR Contact: 02/16/2015  
 Next Scheduled EDR Contact: 05/18/2015  
 Data Release Frequency: Varies

**AR AIRS: Permitted Facility Emission & Stack Data**

Permitted facility emissions and stack data for the state.

Date of Government Version: 12/28/2014  
 Date Data Arrived at EDR: 12/29/2014  
 Date Made Active in Reports: 02/03/2015  
 Number of Days to Update: 36

Source: Department of Environmental Quality  
 Telephone: 501-682-0726  
 Last EDR Contact: 12/29/2014  
 Next Scheduled EDR Contact: 04/13/2015  
 Data Release Frequency: Quarterly

**TN LEAD CERT: Lead Safe Housing Registry**

A listing of Tennessee properties that have achieved a lead safe designation.

Date of Government Version: 12/13/2014  
 Date Data Arrived at EDR: 12/17/2014  
 Date Made Active in Reports: 01/21/2015  
 Number of Days to Update: 35

Source: Department of Environment & Conservation  
 Telephone: 615-532-8011  
 Last EDR Contact: 12/08/2014  
 Next Scheduled EDR Contact: 03/23/2015  
 Data Release Frequency: Quarterly

**INDIAN RESERV: Indian Reservations**

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005  
 Date Data Arrived at EDR: 12/08/2006  
 Date Made Active in Reports: 01/11/2007  
 Number of Days to Update: 34

Source: USGS  
 Telephone: 202-208-3710  
 Last EDR Contact: 01/15/2015  
 Next Scheduled EDR Contact: 04/27/2015  
 Data Release Frequency: Semi-Annually

**SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing**

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011  
 Date Data Arrived at EDR: 03/09/2011  
 Date Made Active in Reports: 05/02/2011  
 Number of Days to Update: 54

Source: Environmental Protection Agency  
 Telephone: 615-532-8599  
 Last EDR Contact: 02/18/2015  
 Next Scheduled EDR Contact: 06/01/2015  
 Data Release Frequency: Varies

**PCB TRANSFORMER: PCB Transformer Registration Database**

The database of PCB transformer registrations that includes all PCB registration submittals.

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

Date of Government Version: 02/01/2011  
 Date Data Arrived at EDR: 10/19/2011  
 Date Made Active in Reports: 01/10/2012  
 Number of Days to Update: 83

Source: Environmental Protection Agency  
 Telephone: 202-566-0517  
 Last EDR Contact: 01/30/2015  
 Next Scheduled EDR Contact: 05/11/2015  
 Data Release Frequency: Varies

**FEDLAND: Federal and Indian Lands**

Federally and Indian administered lands of the United States. Lands included are administered by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005  
 Date Data Arrived at EDR: 02/06/2006  
 Date Made Active in Reports: 01/11/2007  
 Number of Days to Update: 339

Source: U.S. Geological Survey  
 Telephone: 888-275-8747  
 Last EDR Contact: 01/15/2015  
 Next Scheduled EDR Contact: 04/27/2015  
 Data Release Frequency: N/A

**US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)**

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/16/2014  
 Date Data Arrived at EDR: 10/31/2014  
 Date Made Active in Reports: 11/17/2014  
 Number of Days to Update: 17

Source: EPA  
 Telephone: 202-564-2496  
 Last EDR Contact: 02/06/2015  
 Next Scheduled EDR Contact: 04/13/2015  
 Data Release Frequency: Annually

**COAL ASH EPA: Coal Combustion Residues Surface Impoundments List**

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014  
 Date Data Arrived at EDR: 09/10/2014  
 Date Made Active in Reports: 10/20/2014  
 Number of Days to Update: 40

Source: Environmental Protection Agency  
 Telephone: N/A  
 Last EDR Contact: 12/12/2014  
 Next Scheduled EDR Contact: 03/23/2015  
 Data Release Frequency: Varies

**US AIRS MINOR: Air Facility System Data**

A listing of minor source facilities.

Date of Government Version: 10/16/2014  
 Date Data Arrived at EDR: 10/31/2014  
 Date Made Active in Reports: 11/17/2014  
 Number of Days to Update: 17

Source: EPA  
 Telephone: 202-564-2496  
 Last EDR Contact: 02/06/2015  
 Next Scheduled EDR Contact: 04/13/2015  
 Data Release Frequency: Annually

**COAL ASH DOE: Steam-Electric Plan Operation Data**

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  
 Date Data Arrived at EDR: 08/07/2009  
 Date Made Active in Reports: 10/22/2009  
 Number of Days to Update: 76

Source: Department of Energy  
 Telephone: 202-585-8719  
 Last EDR Contact: 01/15/2015  
 Next Scheduled EDR Contact: 04/27/2015  
 Data Release Frequency: Varies

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

**EPA WATCH LIST: EPA WATCH LIST**

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013  
 Date Data Arrived at EDR: 03/21/2014  
 Date Made Active in Reports: 06/17/2014  
 Number of Days to Update: 88

Source: Environmental Protection Agency  
 Telephone: 617-520-3000  
 Last EDR Contact: 02/09/2015  
 Next Scheduled EDR Contact: 05/25/2015  
 Data Release Frequency: Quarterly

**US FIN ASSUR: Financial Assurance Information**

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 11/19/2014  
 Date Data Arrived at EDR: 11/21/2014  
 Date Made Active in Reports: 01/29/2015  
 Number of Days to Update: 69

Source: Environmental Protection Agency  
 Telephone: 202-566-1917  
 Last EDR Contact: 02/16/2015  
 Next Scheduled EDR Contact: 06/01/2015  
 Data Release Frequency: Quarterly

**2020 COR ACTION: 2020 Corrective Action Program List**

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011  
 Date Data Arrived at EDR: 05/18/2012  
 Date Made Active in Reports: 05/25/2012  
 Number of Days to Update: 7

Source: Environmental Protection Agency  
 Telephone: 703-306-4044  
 Last EDR Contact: 02/13/2015  
 Next Scheduled EDR Contact: 05/25/2015  
 Data Release Frequency: Varies

**PRP: Potentially Responsible Parties**

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013  
 Date Data Arrived at EDR: 10/17/2014  
 Date Made Active in Reports: 10/20/2014  
 Number of Days to Update: 3

Source: EPA  
 Telephone: 202-564-6023  
 Last EDR Contact: 02/13/2015  
 Next Scheduled EDR Contact: 05/25/2015  
 Data Release Frequency: Quarterly

**LEAD SMELTER 2: Lead Smelter Sites**

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001  
 Date Data Arrived at EDR: 10/27/2010  
 Date Made Active in Reports: 12/02/2010  
 Number of Days to Update: 36

Source: American Journal of Public Health  
 Telephone: 703-305-6451  
 Last EDR Contact: 12/02/2009  
 Next Scheduled EDR Contact: N/A  
 Data Release Frequency: No Update Planned

**LEAD SMELTER 1: Lead Smelter Sites**

A listing of former lead smelter site locations.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/25/2014  
 Date Data Arrived at EDR: 11/26/2014  
 Date Made Active in Reports: 01/29/2015  
 Number of Days to Update: 64

Source: Environmental Protection Agency  
 Telephone: 703-603-8787  
 Last EDR Contact: 01/05/2015  
 Next Scheduled EDR Contact: 04/20/2015  
 Data Release Frequency: Varies

### EDR HIGH RISK HISTORICAL RECORDS

#### EDR Exclusive Records

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whole oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oilly waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
 Date Data Arrived at EDR: N/A  
 Date Made Active in Reports: N/A  
 Number of Days to Update: N/A

Source: EDR, Inc.  
 Telephone: N/A  
 Last EDR Contact: N/A  
 Next Scheduled EDR Contact: N/A  
 Data Release Frequency: No Update Planned

#### EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
 Date Data Arrived at EDR: N/A  
 Date Made Active in Reports: N/A  
 Number of Days to Update: N/A

Source: EDR, Inc.  
 Telephone: N/A  
 Last EDR Contact: N/A  
 Next Scheduled EDR Contact: N/A  
 Data Release Frequency: Varies

#### EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
 Date Data Arrived at EDR: N/A  
 Date Made Active in Reports: N/A  
 Number of Days to Update: N/A

Source: EDR, Inc.  
 Telephone: N/A  
 Last EDR Contact: N/A  
 Next Scheduled EDR Contact: N/A  
 Data Release Frequency: Varies

### EDR RECOVERED GOVERNMENT ARCHIVES

#### Exclusive Recovered Govt. Archives

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

#### TN RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment and Conservation in Tennessee.

Date of Government Version: N/A  
 Date Data Arrived at EDR: 07/01/2013  
 Date Made Active in Reports: 01/15/2014  
 Number of Days to Update: 198

Source: Department of Environment and Conservation  
 Telephone: N/A  
 Last EDR Contact: 06/01/2012  
 Next Scheduled EDR Contact: N/A  
 Data Release Frequency: Varies

#### TN RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment and Conservation in Tennessee.

Date of Government Version: N/A  
 Date Data Arrived at EDR: 07/01/2013  
 Date Made Active in Reports: 01/03/2014  
 Number of Days to Update: 186

Source: Department of Environment and Conservation  
 Telephone: N/A  
 Last EDR Contact: 06/01/2012  
 Next Scheduled EDR Contact: N/A  
 Data Release Frequency: Varies

#### AR RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Arkansas.

Date of Government Version: N/A  
 Date Data Arrived at EDR: 07/01/2013  
 Date Made Active in Reports: 01/16/2014  
 Number of Days to Update: 199

Source: Department of Environmental Quality  
 Telephone: N/A  
 Last EDR Contact: 06/01/2012  
 Next Scheduled EDR Contact: N/A  
 Data Release Frequency: Varies

#### AR RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Arkansas.

Date of Government Version: N/A  
 Date Data Arrived at EDR: 07/01/2013  
 Date Made Active in Reports: 01/04/2014  
 Number of Days to Update: 187

Source: Department of Environmental Quality  
 Telephone: N/A  
 Last EDR Contact: 06/01/2012  
 Next Scheduled EDR Contact: N/A  
 Data Release Frequency: Varies

### OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

#### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013  
 Date Data Arrived at EDR: 08/19/2013  
 Date Made Active in Reports: 10/03/2013  
 Number of Days to Update: 45

Source: Department of Energy & Environmental Protection  
 Telephone: 860-424-3375  
 Last EDR Contact: 11/17/2014  
 Next Scheduled EDR Contact: 03/02/2015  
 Data Release Frequency: No Update Planned

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

#### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 11/01/2014  
 Date Data Arrived at EDR: 11/05/2014  
 Date Made Active in Reports: 11/24/2014  
 Number of Days to Update: 19

Source: Department of Environmental Conservation  
 Telephone: 518-402-8651  
 Last EDR Contact: 02/04/2015  
 Next Scheduled EDR Contact: 05/18/2015  
 Data Release Frequency: Annually

#### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013  
 Date Data Arrived at EDR: 07/21/2014  
 Date Made Active in Reports: 08/25/2014  
 Number of Days to Update: 35

Source: Department of Environmental Protection  
 Telephone: 717-783-8950  
 Last EDR Contact: 01/19/2015  
 Next Scheduled EDR Contact: 05/04/2015  
 Data Release Frequency: Annually

#### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013  
 Date Data Arrived at EDR: 07/15/2014  
 Date Made Active in Reports: 08/13/2014  
 Number of Days to Update: 29

Source: Department of Environmental Management  
 Telephone: 401-222-2737  
 Last EDR Contact: 11/26/2014  
 Next Scheduled EDR Contact: 03/09/2015  
 Data Release Frequency: Annually

#### VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 06/24/2014  
 Date Data Arrived at EDR: 08/22/2014  
 Date Made Active in Reports: 11/04/2014  
 Number of Days to Update: 74

Source: Department of Environmental Conservation  
 Telephone: 802-241-3443  
 Last EDR Contact: 01/19/2015  
 Next Scheduled EDR Contact: 05/04/2015  
 Data Release Frequency: Annually

#### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013  
 Date Data Arrived at EDR: 06/20/2014  
 Date Made Active in Reports: 08/07/2014  
 Number of Days to Update: 48

Source: Department of Natural Resources  
 Telephone: N/A  
 Last EDR Contact: 12/12/2014  
 Next Scheduled EDR Contact: 03/30/2015  
 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

#### AHA Hospitals:

Source: American Hospital Association, Inc.  
 Telephone: 312-280-5991  
 The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.  
 Medical Centers: Provider of Services Listing  
 Source: Centers for Medicare & Medicaid Services  
 Telephone: 410-786-3000  
 A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

#### Nursing Homes

Source: National Institutes of Health  
 Telephone: 301-594-6248  
 Information on Medicare and Medicaid certified nursing homes in the United States.

#### Public Schools

Source: National Center for Education Statistics  
 Telephone: 202-502-7300  
 The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

#### Private Schools

Source: National Center for Education Statistics  
 Telephone: 202-502-7300  
 The National Center for Education Statistics' primary database on private school locations in the United States.

#### Daycare Centers: Child Care Listing

Source: Department of Human Services  
 Telephone: 615-313-4778

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NW: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

#### State Wetlands Data: Wetlands Inventory

Source: Tennessee Spatial Data Server  
 Telephone: 931-528-6481

#### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey  
 A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

### STREET AND ADDRESS INFORMATION

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**GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM**

**TARGET PROPERTY ADDRESS**

100 NORTH MAIN  
100 N MAIN ST  
MEMPHIS, TN 38103

**TARGET PROPERTY COORDINATES**

Latitude (North): 35.1477 - 35° 8' 51.72"  
Longitude (West): 90.0512 - 90° 3' 4.32"  
Universal Transverse Mercator: Zone 15  
UTM X (Meters): 768645.0  
UTM Y (Meters): 3893206.5  
Elevation: 259 ft. above sea level

**USGS TOPOGRAPHIC MAP**

Target Property Map: 35090-B1 NORTHWEST MEMPHIS, TN AR  
Most Recent Revision: 1999

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

**GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

**GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

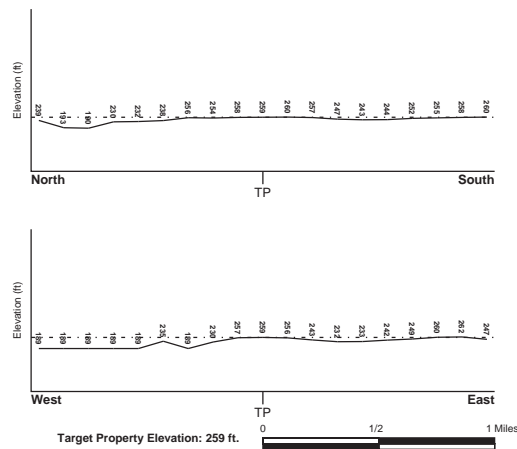
**TOPOGRAPHIC INFORMATION**

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**TARGET PROPERTY TOPOGRAPHY**

General Topographic Gradient: General West

**SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

**GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

**HYDROLOGIC INFORMATION**

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

**FEMA FLOOD ZONE**

Target Property County: SHELBY, TN  
FEMA Flood Electronic Data: YES - refer to the Overview Map and Detail Map  
Flood Plain Panel at Target Property: 47157C - FEMA DFIRM Flood data  
Additional Panels in search area: 0504290225B - FEMA Q3 Flood data

**NATIONAL WETLAND INVENTORY**

NWI Quad at Target Property: NORTHWEST MEMPHIS  
NWI Electronic Data Coverage: YES - refer to the Overview Map and Detail Map

**HYDROGEOLOGIC INFORMATION**

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
31	1/4 - 1/2 Mile ESE	NE
38	1/2 - 1 Mile SE	NW
P46	1/2 - 1 Mile SE	NW
52	1/2 - 1 Mile NNE	NE

For additional site information, refer to Physical Setting Source Map Findings.

**GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

**GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

**GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

**ROCK STRATIGRAPHIC UNIT**

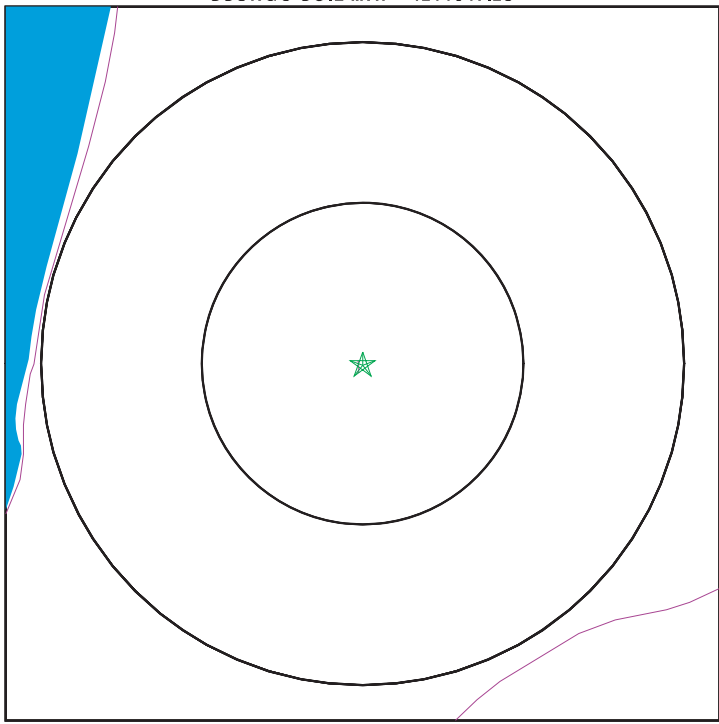
Era: Cenozoic  
System: Quaternary  
Series: Holocene  
Code: Qh (decoded above as Era, System & Series)

**GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4211947.2s



★ Target Property  
 ☆ SSURGO Soil  
 ∇ Water

SITE NAME: 100 North Main  
 ADDRESS: 100 N Main St  
 Memphis TN 38103  
 LAT/LONG: 35.1477 / 90.0512

CLIENT: Deca Real Estate Advisors  
 CONTACT: Michael Cohen  
 INQUIRY #: 4211947.2s  
 DATE: February 19, 2015 1:34 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

**Soil Map ID: 1**

Soil Component Name: GRADED LAND (Udorthents)  
 Soil Surface Texture: silt loam  
 Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.  
 Soil Drainage Class: Well drained  
 Hydric Status: Not hydric  
 Corrosion Potential - Uncoated Steel: Low  
 Depth to Bedrock Min: > 0 inches  
 Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	59 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 6.1

**LOCAL / REGIONAL WATER AGENCY RECORDS**

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

**WELL SEARCH DISTANCE INFORMATION**

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**FEDERAL USGS WELL INFORMATION**

MAP ID	WELL ID	LOCATION FROM TP
B2	USGS40001143871	0 - 1/8 Mile WNW
A4	USGS40001143866	0 - 1/8 Mile SE
C6	USGS40001143863	1/8 - 1/4 Mile SW
E14	USGS40001143853	1/8 - 1/4 Mile South
E15	USGS40001143852	1/8 - 1/4 Mile SSE
F19	USGS40001143850	1/4 - 1/2 Mile South
I27	USGS40001143843	1/4 - 1/2 Mile SSW
37	USGS40001143827	1/2 - 1 Mile South
L40	USGS40001143820	1/2 - 1 Mile SSW
M41	USGS40001143823	1/2 - 1 Mile SSW
N42	USGS40001143953	1/2 - 1 Mile NE
N43	USGS40001143954	1/2 - 1 Mile NE
O48	USGS40001143938	1/2 - 1 Mile NE
O49	USGS40001143939	1/2 - 1 Mile NE
50	USGS40001143821	1/2 - 1 Mile SW
Q54	USGS40001143814	1/2 - 1 Mile SE
Q56	USGS40001143819	1/2 - 1 Mile SE
S60	USGS40001143835	1/2 - 1 Mile ESE
R62	USGS40001143799	1/2 - 1 Mile SW

**FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

MAP ID	WELL ID	LOCATION FROM TP
9	TN0002849	1/8 - 1/4 Mile NE

Note: PWS System location is not always the same as well location.

**STATE DATABASE WELL INFORMATION**

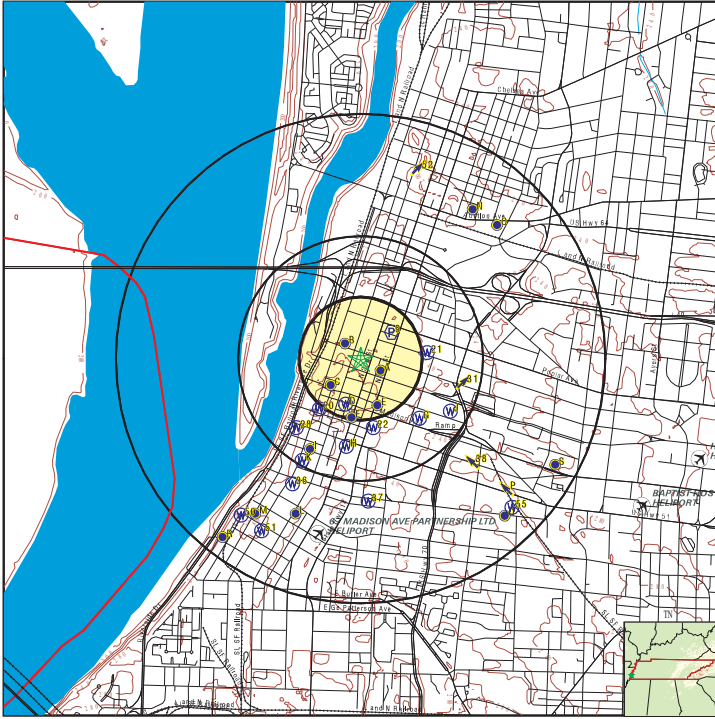
MAP ID	WELL ID	LOCATION FROM TP
A1	TN6000000118133	0 - 1/8 Mile ESE
B3	TN6000000117973	0 - 1/8 Mile NW
C5	TN6000000118003	1/8 - 1/4 Mile SW
D7	TN6000000118031	1/8 - 1/4 Mile SSW
C8	TN6000000118136	1/8 - 1/4 Mile SW
D10	TN6000000118064	1/8 - 1/4 Mile South
C11	TN6000000118012	1/8 - 1/4 Mile SW
D13	TN6000000117992	1/8 - 1/4 Mile SSW
D16	TN6000000118050	1/8 - 1/4 Mile SSW
F17	TN6000000117967	1/8 - 1/4 Mile South
D18	TN6000000117978	1/8 - 1/4 Mile SSW
20	TN6000000118018	1/4 - 1/2 Mile SW
Z1	TN6000000117977	1/4 - 1/2 Mile East
22	TN6000000118041	1/4 - 1/2 Mile South
G23	TN6000000118015	1/4 - 1/2 Mile SE
G24	TN6000000118016	1/4 - 1/2 Mile SE
H25	TN6000000118034	1/4 - 1/2 Mile South
H26	TN6000000118033	1/4 - 1/2 Mile South

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**STATE DATABASE WELL INFORMATION**

MAP ID	WELL ID	LOCATION FROM TP
28	TN6000000117947	1/4 - 1/2 Mile SW
J29	TN6000000118036	1/4 - 1/2 Mile ESE
J30	TN6000000118035	1/4 - 1/2 Mile ESE
I32	TN6000000118002	1/4 - 1/2 Mile SSW
I33	TN6000000118001	1/4 - 1/2 Mile SSW
K34	TN6000000118000	1/4 - 1/2 Mile SSW
K35	TN6000000117999	1/4 - 1/2 Mile SSW
36	TN6000000118032	1/2 - 1 Mile SSW
L39	TN6000000117972	1/2 - 1 Mile SSW
O44	TN6000000117958	1/2 - 1 Mile NE
N45	TN6000000118140	1/2 - 1 Mile NE
M47	TN6000000118128	1/2 - 1 Mile SW
51	TN6000000117948	1/2 - 1 Mile SSW
P53	TN6000000118009	1/2 - 1 Mile SE
55	TN6000000117957	1/2 - 1 Mile SE
Q57	TN6000000118051	1/2 - 1 Mile SE
R58	TN6000000117949	1/2 - 1 Mile SW
S59	TN6000000118011	1/2 - 1 Mile ESE
S61	TN6000000118010	1/2 - 1 Mile ESE

PHYSICAL SETTING SOURCE MAP - 4211947.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- G1 Indeterminate Groundwater Flow at Location
- G2 Groundwater Flow Varies at Location

SITE NAME: 100 North Main  
 ADDRESS: 100 N Main St  
 Memphis TN 38103  
 LAT/LONG: 35.1477 / 90.0512

CLIENT: Deca Real Estate Advisors  
 CONTACT: Michael Cohen  
 INQUIRY #: 4211947.2s  
 DATE: February 19, 2015 1:34 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation Database EDR ID Number

**A1**  
**ESE**  
**0 - 1/8 Mile**  
**Higher**

TN WELLS TN600000118133

County name: SHELBY  
 Well number: 15709674  
 Driller na: FED RES BNK SH-0-196  
 Addr line1: Not Reported  
 License co: 29  
 Cmpltn dat: 07-DEC-62  
 Latitude: 350850  
 Cmpltn tot: 401  
 Cmpltn est: 0  
 Wlts quad: 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900300  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descriptio: Municipal  
 Driller re: 1443092  
 Site id: TN600000118133

**B2**  
**WNW**  
**0 - 1/8 Mile**  
**Lower**

FED USGS USGS40001143871

Org. Identifier: USGS-TN  
 Formal name: USGS Tennessee Water Science Center  
 Monloc Identifier: USGS-350853090030701  
 SH-0-029  
 Monloc name: Well  
 Monloc type: FORMERLY CLARIDGE HOTEL, NOW CLARIDGE CONDOMINIUMS  
 Monloc desc: Drainagearea value: Not Reported  
 Huc code: 08010100 Latitude: 35.1483056  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Longitude: -90.0524167 Source map scale: 24000  
 Horiz Acc measure: 1 Horiz Acc measure units: seconds  
 Horiz Collection method: Global positioning system (GPS), uncorrected  
 Horiz coord refs: NAD83 Vert measure val: 265  
 Vert measure units: feet Vertacc measure val: 5  
 Vert accmeasure units: feet  
 Vertcollection method: Interpolated from topographic map  
 Vert coord refs: NGVD29 Countrycode: US  
 Aquifername: Mississippi embayment aquifer system  
 Formation type: Memphis Sand  
 Aquifer type: Confined single aquifer  
 Construction date: Not Reported Welldepth: 442  
 Welldepth units: ft Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

TC4211947.2s Page A-10

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1932-01-01	48	

**B3**  
**NW**  
**0 - 1/8 Mile**  
**Lower**

TN WELLS TN600000117973

County name: SHELBY  
 Well number: 15709511  
 Driller na: CLARIDGE HTL SH-0-28  
 Addr line1: Not Reported  
 License co: 30  
 Cmpltn dat: Not Reported  
 Latitude: 350856  
 Cmpltn tot: 454  
 Cmpltn est: 0  
 Wlts quad: 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900308  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descriptio: Commercial  
 Driller re: 1442932  
 Site id: TN600000117973

**A4**  
**SE**  
**0 - 1/8 Mile**  
**Lower**

FED USGS USGS40001143866

Org. Identifier: USGS-TN  
 Formal name: USGS Tennessee Water Science Center  
 Monloc Identifier: USGS-350848090025801  
 SH-0-196  
 Monloc name: Well  
 Monloc type: Not Reported  
 Monloc desc: Not Reported  
 Huc code: Not Reported Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Longitude: -90.0495356 Source map scale: Not Reported  
 Longitude: -90.0495356 Horiz Acc measure units: seconds  
 Horiz Acc measure: 1 Horiz Collection method: Interpolated from map  
 Horiz coord refs: NAD83 Vert measure val: 253  
 Vert measure units: feet Vertacc measure val: 5  
 Vert accmeasure units: feet  
 Vertcollection method: Interpolated from topographic map  
 Vert coord refs: NGVD29 Countrycode: US  
 Aquifername: Not Reported  
 Formation type: Not Reported

TC4211947.2s Page A-11

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type: Not Reported  
 Construction date: Not Reported Welldepth: 401  
 Welldepth units: ft Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

**C5**  
**SW**  
**1/8 - 1/4 Mile**  
**Higher**

TN WELLS TN600000118003

County name: SHELBY  
 Well number: 15709541  
 Driller na: GERBERS SH-0-59  
 Addr line1: Not Reported  
 License co: 30  
 Cmpltn dat: Not Reported  
 Latitude: 350847  
 Cmpltn tot: 495  
 Cmpltn est: 0  
 Wlts quad: 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900312  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descriptio: Commercial  
 Driller re: 1442962  
 Site id: TN600000118003

**C6**  
**SW**  
**1/8 - 1/4 Mile**  
**Higher**

FED USGS USGS40001143863

Org. Identifier: USGS-TN  
 Formal name: USGS Tennessee Water Science Center  
 Monloc Identifier: USGS-350846090031101  
 SH-0-199  
 Monloc name: Well  
 Monloc type: Not Reported  
 Monloc desc: Not Reported  
 Huc code: Not Reported Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Longitude: -90.0531468 Source map scale: Not Reported  
 Longitude: -90.0531468 Horiz Acc measure units: seconds  
 Horiz Acc measure: 1 Horiz Collection method: Interpolated from map  
 Horiz coord refs: NAD83 Vert measure val: 265  
 Vert measure units: feet Vertacc measure val: 5  
 Vert accmeasure units: feet  
 Vertcollection method: Interpolated from topographic map  
 Vert coord refs: NGVD29 Countrycode: US  
 Aquifername: Not Reported  
 Formation type: Not Reported

TC4211947.2s Page A-12



**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Aquifer type: Not Reported  
 Construction date: Not Reported  
 Welldepth: Not Reported  
 Wellholedepth: 514  
 Welldepth units: Not Reported  
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 0

**D7 SSW**  
**1/8 - 1/4 Mile Higher**  
 TN WELLS TN600000118031

County name: SHELBY  
 Well number: 15709570  
 Driller name: NATIONAL BANK COMMERCE  
 Address line 1: 45 S. 2ND ST.  
 License code: 29  
 Completion date: Not Reported  
 Latitude: 350844  
 Completion total: 500  
 Completion east: 400  
 Well quadrant: 0409NE8  
 Driller tag: Not Reported  
 Longitude: 900308  
 Accuracy: S  
 Casing fee: 439  
 Wellbore: 0  
 Description: Industrial  
 Driller reference: 1442900  
 Site ID: TN600000118031

**C8 SW**  
**1/8 - 1/4 Mile Higher**  
 TN WELLS TN600000118136

County name: SHELBY  
 Well number: 15709677  
 Driller name: GERBERS SH 0-199-199  
 Address line 1: Not Reported  
 License code: 740  
 Completion date: 28-MAY-64  
 Latitude: 350846  
 Completion total: 514  
 Completion east: 0  
 Well quadrant: 0404NE8  
 Driller tag: Not Reported  
 Longitude: 900312  
 Accuracy: S  
 Casing fee: 0  
 Wellbore: 0  
 Description: Commercial  
 Driller reference: 1443095  
 Site ID: TN600000118136

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID  
 Direction  
 Distance  
 Elevation  
 Database  
 EDR ID Number

**9 NE**  
**1/8 - 1/4 Mile Lower**  
 FRDS PWS TN0002849

Epa region: 04 State: TN  
 Pwsid: TN0002849  
 Pwsname: MEMPHIS WILBERT VAULT CO.  
 City served: Not Reported State served: TN  
 Zip served: Not Reported Fips county: 47157  
 Status: Closed Pop svcd: 25  
 Pwsvvconn: 0 Source: Groundwater  
 Pws type: TNCWS Owner: Private  
 Contact: MEMPHIS WILBERT VAULT CO.  
 Contactor name: Not Reported  
 Contact phone: 901-528-3800 Contact address 1: Not Reported  
 Contact address 2: PO BOX 16308 3929 LAKEVIEW Contact city: MEMPHIS  
 Contact state: TN Contact zip: 38116  
 Activity code: I

Location Information:  
 Name: MEMPHIS WILBERT VAULT CO.  
 Pwstypcd: TNCWS Primsrccd: GW  
 Ppsserved: 25  
 Add1: Not Reported  
 Add2: PO BOX 16308 3929 LAKEVIEW  
 City: MEMPHIS State: TN  
 Zip: 38116 Phone: 901-528-3800  
 Cityserv: Not Reported Cntyserv: Not Reported  
 Stateserv: TN Zpserv: Not Reported

PWS ID: TN0002849  
 Date Initiated: 7706 Date Deactivated: Not Reported  
 PWS Name: MEMPHIS WILBERT VAULT CO.  
 PO BOX 16308 3929 LAKEVIEW  
 MEMPHIS, TN 38116

Addressee / Facility: System Owner/Responsible Party  
 MEMPHIS & SHELBY CO. HEALTH DE  
 814 JEFFERSON AT DUNLAP  
 MEMPHIS, TN 38105

Facility Latitude: 35 08 57 Facility Longitude: 090 02 56  
 City Served: Not Reported  
 Treatment Class: Not Reported Population: Not Reported

Violations information not reported.

**D10 South**  
**1/8 - 1/4 Mile Higher**  
 TN WELLS TN600000118064

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

County name: SHELBY  
 Well number: 15709604  
 Driller name: LEADER FEDL SH-0-123  
 Address line 1: Not Reported  
 License code: 740  
 Completion date: Not Reported  
 Latitude: 350842  
 Completion total: 51  
 Completion east: 0  
 Well quadrant: 0404NE8  
 Driller tag: Not Reported  
 Longitude: 900305  
 Accuracy: S  
 Casing fee: 0  
 Wellbore: 0  
 Description: Test  
 Driller reference: 1443023  
 Site ID: TN600000118064

**C11 SW**  
**1/8 - 1/4 Mile Higher**  
 TN WELLS TN600000118012

County name: SHELBY  
 Well number: 15709550  
 Driller name: KRESS SH 0-68SH-0-68  
 Address line 1: Not Reported  
 License code: 29  
 Completion date: Not Reported  
 Latitude: 350845  
 Completion total: 0  
 Completion east: 0  
 Well quadrant: 0404NE8  
 Driller tag: Not Reported  
 Longitude: 900313  
 Accuracy: S  
 Casing fee: 0  
 Wellbore: 0  
 Description: Commercial  
 Driller reference: 1442971  
 Site ID: TN600000118012

**E12 SSE**  
**1/8 - 1/4 Mile Lower**  
 Shallow Water Depth: 8.04  
 Groundwater Flow: Not Reported  
 Deep Water Depth: 21.88  
 Average Water Depth: Not Reported  
 Date: 12/12/1997  
 TN WELLS TN600000117982

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

County name: SHELBY  
 Well number: 15709520  
 Driller name: EXCHANGE BLD SH-0-38  
 Address line 1: Not Reported  
 License code: 29  
 Completion date: Not Reported  
 Latitude: 350842  
 Completion total: 500  
 Completion east: 0  
 Well quadrant: 0404NE8  
 Driller tag: Not Reported  
 Longitude: 900307  
 Accuracy: S  
 Casing fee: 0  
 Wellbore: 0  
 Description: Commercial  
 Driller reference: 1442941  
 Site ID: TN600000117982

**E14 South**  
**1/8 - 1/4 Mile Higher**  
 FED USGS USGS40001143853

Org. Identifier: USGS-TN  
 Formal name: USGS Tennessee Water Science Center  
 Monloc Identifier: USGS-350841090030201  
 Monloc name: SH-O-123  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: Not Reported Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Latitude: 35.1448122  
 Longitude: -90.0506468 Source map scale: Not Reported  
 Horiz Acc measure: 1 Horiz Acc measure units: seconds  
 Horiz Collection method: Interpolated from map  
 Horiz coord relys: NAD83 Vert measure val: 250  
 Vert measure units: feet Vert measure val: 5  
 Vert collection method: Interpolated from topographic map  
 Vert coord relys: NGVD29 Countrycode: US  
 Aquifer name: Not Reported  
 Formation type: Not Reported  
 Aquifer type: Not Reported  
 Construction date: Not Reported Welldepth: 51  
 Welldepth units: ft Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

**E15 SSE**  
**1/8 - 1/4 Mile Lower**  
 FED USGS USGS40001143852

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Org. Identifier: USGS-TN  
 Formal name: USGS Tennessee Water Science Center  
 Monloc Identifier: USGS-350841090025801  
 Monloc name: Sh:O-098  
 Monloc type: Well  
 Monloc desc: Basement of Sterick Bldg, 3rd and Madison  
 Huc code: Not Reported Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Latitude: 35.1448122  
 Longitude: -90.0495356 Sourcecamp scale: 24000  
 Horiz Acc measure: 3 Horiz Acc measure units: seconds  
 Horiz Collection method: Interpolated from map  
 Horiz coord relys: NAD83 Vert measure val: 242  
 Vert measure units: feet Vertacc measure val: 5  
 Vert accmeasure units: feet  
 Vertcollection method: Interpolated from topographic map  
 Vert coord relys: NGVD29 Countrycode: US  
 Aquifername: Mississippi embayment aquifer system  
 Formation type: Memphis Sand  
 Aquifer type: Confined single aquifer  
 Construction date: 1930 Welldepth: 455  
 Welldepth units: ft Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

**D16**  
**SSW**  
**1/8 - 1/4 Mile**  
**Higher**  
 TN WELLS TN600000118050

County name: SHELBY  
 Well number: 15709589  
 Driller na: FIRST NATL SHH0-1077  
 Addr line1: Not Reported  
 License co: 30  
 Cmpltn dat: Not Reported  
 Latitude: 350841  
 Cmpltn tot: 464  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900310  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Description: Industrial  
 Driller re: 1443009  
 Site id: TN6000000118050

**F17**  
**South**  
**1/8 - 1/4 Mile**  
**Higher**  
 TN WELLS TN6000000117967

Horiz Acc measure: Unknown Horiz Acc measure units: Unknown  
 Horiz Collection method: Interpolated from map  
 Horiz coord relys: NAD83 Vert measure val: 260  
 Vert measure units: feet Vertacc measure val: 5  
 Vert accmeasure units: feet  
 Vertcollection method: Interpolated from topographic map  
 Vert coord relys: NGVD29 Countrycode: US  
 Aquifername: Not Reported  
 Formation type: Not Reported  
 Aquifer type: Not Reported  
 Construction date: Not Reported Welldepth: 445  
 Welldepth units: ft Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

**20**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**  
 TN WELLS TN6000000118018

County name: SHELBY  
 Well number: 15709556  
 Driller na: LOWENSTEINS SHH0-744  
 Addr line1: Not Reported  
 License co: 30  
 Cmpltn dat: Not Reported  
 Latitude: 350841  
 Cmpltn tot: 500  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900315  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Description: Commercial  
 Driller re: 1442977  
 Site id: TN6000000118018

**21**  
**East**  
**1/4 - 1/2 Mile**  
**Lower**  
 TN WELLS TN6000000117977

County name: SHELBY  
 Well number: 15709515  
 Driller na: COCA COLA SH 0-33-33  
 Addr line1: Not Reported  
 License co: 740  
 Cmpltn dat: Not Reported  
 Latitude: 350853  
 Cmpltn tot: 450  
 Cmpltn est: 0  
 Wlts quad : 0404NE8

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

County name: SHELBY  
 Well number: 15709505  
 Driller na: BRITLING CAF SH:0-22  
 Addr line1: Not Reported  
 License co: 29  
 Cmpltn dat: Not Reported  
 Latitude: 350840  
 Cmpltn tot: 495  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900306  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Description: Commercial  
 Driller re: 1442926  
 Site id: TN6000000117967

**D18**  
**SSW**  
**1/8 - 1/4 Mile**  
**Higher**  
 TN WELLS TN6000000117978

County name: SHELBY  
 Well number: 15709516  
 Driller na: COMMERCE BLD SH:0-34  
 Addr line1: Not Reported  
 License co: 740  
 Cmpltn dat: Not Reported  
 Latitude: 350841  
 Cmpltn tot: 504  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900311  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Description: Commercial  
 Driller re: 1442937  
 Site id: TN6000000117978

**F19**  
**South**  
**1/4 - 1/2 Mile**  
**Higher**  
 FED USGS USGS40001143850

Org. Identifier: USGS-TN  
 Formal name: USGS Tennessee Water Science Center  
 Monloc Identifier: USGS-350838090030701  
 Monloc name: SH:O-38  
 Monloc type: Well  
 Monloc desc: INFORMATION COPIED FROM 1966 FORMS  
 Huc code: Not Reported Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Latitude: 35.143789  
 Longitude: -90.0520357 Sourcecamp scale: Not Reported

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Horiz Acc measure: Unknown Horiz Acc measure units: Unknown  
 Horiz Collection method: Interpolated from map  
 Horiz coord relys: NAD83 Vert measure val: 260  
 Vert measure units: feet Vertacc measure val: 5  
 Vert accmeasure units: feet  
 Vertcollection method: Interpolated from topographic map  
 Vert coord relys: NGVD29 Countrycode: US  
 Aquifername: Not Reported  
 Formation type: Not Reported  
 Aquifer type: Not Reported  
 Construction date: Not Reported Welldepth: 445  
 Welldepth units: ft Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

**20**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**  
 TN WELLS TN6000000118018

County name: SHELBY  
 Well number: 15709556  
 Driller na: LOWENSTEINS SHH0-744  
 Addr line1: Not Reported  
 License co: 30  
 Cmpltn dat: Not Reported  
 Latitude: 350841  
 Cmpltn tot: 500  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900315  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Description: Commercial  
 Driller re: 1442977  
 Site id: TN6000000118018

**21**  
**East**  
**1/4 - 1/2 Mile**  
**Lower**  
 TN WELLS TN6000000117977

County name: SHELBY  
 Well number: 15709515  
 Driller na: COCA COLA SH 0-33-33  
 Addr line1: Not Reported  
 License co: 740  
 Cmpltn dat: Not Reported  
 Latitude: 350853  
 Cmpltn tot: 450  
 Cmpltn est: 0  
 Wlts quad : 0404NE8

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Driller ta: Not Reported  
 Longitude: 900247  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Description: Commercial  
 Driller re: 1442936  
 Site id: TN6000000117977

**22**  
**South**  
**1/4 - 1/2 Mile**  
**Lower**  
 TN WELLS TN6000000118041

County name: SHELBY  
 Well number: 15709580  
 Driller na: STERICK BLDG SH:0-98  
 Addr line1: Not Reported  
 License co: 30  
 Cmpltn dat: Not Reported  
 Latitude: 350837  
 Cmpltn tot: 500  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900301  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Description: Commercial  
 Driller re: 1443000  
 Site id: TN6000000118041

**G23**  
**SE**  
**1/4 - 1/2 Mile**  
**Lower**  
 TN WELLS TN6000000118015

County name: SHELBY  
 Well number: 15709553  
 Driller na: LOEBS LAUNDR SH:0-71  
 Addr line1: Not Reported  
 License co: 740  
 Cmpltn dat: Not Reported  
 Latitude: 350839  
 Cmpltn tot: 416  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900250  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Description: Industrial  
 Driller re: 1442974  
 Site id: TN6000000118015

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID  
 Direction  
 Distance  
 Elevation

	Database	EDR ID Number
<b>G24 SE</b> 1/4 - 1/2 Mile Lower	TN WELLS	TN600000118016

County name: SHELBY  
 Well number: 15709554  
 Driller na: LOEBS LAUNDR SH:0-72  
 Addr line1: Not Reported  
 License co: 30  
 Cmpltn dat: Not Reported  
 Latitude: 350839  
 Cmpltn tot: 396  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900248  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descriptio: Industrial  
 Driller re: 1442975  
 Site id: TN600000118016

**H25 South**  
1/4 - 1/2 Mile Lower

	Database	EDR ID Number
<b>H25 South</b> 1/4 - 1/2 Mile Lower	TN WELLS	TN600000118034

County name: SHELBY  
 Well number: 15709573  
 Driller na: PEABODY HOTL SH:0-91  
 Addr line1: Not Reported  
 License co: 29  
 Cmpltn dat: Not Reported  
 Latitude: 350833  
 Cmpltn tot: 485  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900308  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descriptio: Commercial  
 Driller re: 1442993  
 Site id: TN600000118034

**H26 South**  
1/4 - 1/2 Mile Lower

	Database	EDR ID Number
<b>H26 South</b> 1/4 - 1/2 Mile Lower	TN WELLS	TN600000118033

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

County name: SHELBY  
 Well number: 15709572  
 Driller na: PEABODY HOTL SH:0-90  
 Addr line1: Not Reported  
 License co: 740  
 Cmpltn dat: Not Reported  
 Latitude: 350833  
 Cmpltn tot: 552  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900308  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descriptio: Commercial  
 Driller re: 1442992  
 Site id: TN600000118033

**I27 SSW**  
1/4 - 1/2 Mile Higher

	Database	EDR ID Number
<b>I27 SSW</b> 1/4 - 1/2 Mile Higher	TN WELLS	TN600000118034

Org. Identifier: USGS-TN  
 Formal name: USGS Tennessee Water Science Center  
 Monloc Identifier: USGS-350834090031601  
 Monloc name: SH:0-058  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: Not Reported  
 Drainagearea Units: Not Reported  
 Contrib drainagearea units: Not Reported  
 Longitude: -90.0545358  
 Horiz Acc measure: Unknown  
 Horiz Collection method: Interpolated from map  
 Horiz coord refsys: NAD83  
 Vert measure units: feet  
 Vert accmeasure units: feet  
 Vertcollection method: Unknown  
 Vert coord refsys: NGVD29  
 Aquifername: Mississippi embayment aquifer system  
 Formation type: Memphis Sand  
 Aquifer type: Confined single aquifer  
 Construction date: Not Reported  
 Welldepth units: ft  
 Wellholedepth units: Not Reported

Drainagearea value: Not Reported  
 Contrib drainagearea: Not Reported  
 Latitude: 35.1428678  
 Source map scale: Not Reported  
 Horiz Acc measure units: Unknown  
 Vert measure val: 271.00  
 Vertacc measure val: .01  
 Countrycode: US  
 Welldepth: 480  
 Wellholedepth: Not Reported

Ground-water levels, Number of Measurements: 0

**28 SW**  
1/4 - 1/2 Mile Lower

	Database	EDR ID Number
<b>28 SW</b> 1/4 - 1/2 Mile Lower	TN WELLS	TN600000117947

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

County name: SHELBY  
 Well number: 15709485  
 Driller na: SWIFT ANDOCO SH:0-22  
 Addr line1: Not Reported  
 License co: 30  
 Cmpltn dat: Not Reported  
 Latitude: 350837  
 Cmpltn tot: 468  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900321  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descriptio: Industrial  
 Driller re: 1442906  
 Site id: TN600000117947

**J29 ESE**  
1/4 - 1/2 Mile Lower

	Database	EDR ID Number
<b>J29 ESE</b> 1/4 - 1/2 Mile Lower	TN WELLS	TN600000118036

County name: SHELBY  
 Well number: 15709575  
 Driller na: UNITED ICE SH:0-93  
 Addr line1: Not Reported  
 License co: 29  
 Cmpltn dat: 23-JAN-50  
 Latitude: 350841  
 Cmpltn tot: 416  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900241  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descriptio: Industrial  
 Driller re: 1442995  
 Site id: TN600000118036

**J30 ESE**  
1/4 - 1/2 Mile Lower

	Database	EDR ID Number
<b>J30 ESE</b> 1/4 - 1/2 Mile Lower	TN WELLS	TN600000118035

County name: SHELBY  
 Well number: 15709574  
 Driller na: UNITED ICE SH:0-9292  
 Addr line1: Not Reported  
 License co: 740  
 Cmpltn dat: Not Reported  
 Latitude: 350840  
 Cmpltn tot: 279  
 Cmpltn est: 0  
 Wlts quad : 0404NE8

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Driller ta: Not Reported  
 Longitude: 900241  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descriptio: Industrial  
 Driller re: 1442994  
 Site id: TN600000118035

**31 ESE**  
1/4 - 1/2 Mile Lower

	Database	EDR ID Number
<b>31 ESE</b> 1/4 - 1/2 Mile Lower	TN WELLS	TN600000118002

Shallow Water Depth: 9.68  
 Groundwater Flow: NE  
 Deep Water Depth: 17.84  
 Average Water Depth: Not Reported  
 Date: 8/19/97

AQUIFLOW 20649

**I32 SSW**  
1/4 - 1/2 Mile Higher

	Database	EDR ID Number
<b>I32 SSW</b> 1/4 - 1/2 Mile Higher	TN WELLS	TN600000118002

County name: SHELBY  
 Well number: 15709540  
 Driller na: GOLDSMITHS SH:0-58  
 Addr line1: Not Reported  
 License co: 30  
 Cmpltn dat: Not Reported  
 Latitude: 350832  
 Cmpltn tot: 480  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900318  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descriptio: Commercial  
 Driller re: 1442961  
 Site id: TN600000118002

**I33 SSW**  
1/4 - 1/2 Mile Higher

	Database	EDR ID Number
<b>I33 SSW</b> 1/4 - 1/2 Mile Higher	TN WELLS	TN600000118001

County name: SHELBY  
 Well number: 15709539  
 Driller na: GOLDSMITHS SH:0-57  
 Addr line1: Not Reported  
 License co: 30  
 Cmpltn dat: 26-JUL-37  
 Latitude: 350831  
 Cmpltn tot: 485  
 Cmpltn est: 0  
 Wlts quad : 0404NE8

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Driller ta: Not Reported  
 Longitude: 900318  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descripto: Commercial  
 Driller re: 1442960  
 Site id: TN600000118001

**K34 SSW** TN WELLS TN600000118000  
**1/4 - 1/2 Mile Higher**

County name: SHELBY  
 Well numbr: 15709538  
 Driller na: GAYOSA HOTEL SH:0-56  
 Addr line1: Not Reported  
 License co: 30  
 Cmpltn dat: Not Reported  
 Latitude: 350830  
 Cmpltn tot: 465  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900319  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descriptio: Commercial  
 Driller re: 1442959  
 Site id: TN600000118000

**K35 SSW** TN WELLS TN600000117999  
**1/4 - 1/2 Mile Higher**

County name: SHELBY  
 Well numbr: 15709537  
 Driller na: GAYOSA HOTEL SH:0-55  
 Addr line1: Not Reported  
 License co: 740  
 Cmpltn dat: Not Reported  
 Latitude: 350830  
 Cmpltn tot: 420  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900320  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descriptio: Commercial  
 Driller re: 1442958  
 Site id: TN600000117999

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID Direction Database EDR ID Number  
 Distance  
 Elevation

**36 SSW** TN WELLS TN600000118032  
**1/2 - 1 Mile Higher**

County name: SHELBY  
 Well numbr: 15709571  
 Driller na: MALCO THEATR SH:0-89  
 Addr line1: Not Reported  
 License co: 30  
 Cmpltn dat: Not Reported  
 Latitude: 350825  
 Cmpltn tot: 475  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900322  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descriptio: Commercial  
 Driller re: 1442991  
 Site id: TN600000118032

**37 South** FED USGS USGS40001143827  
**1/2 - 1 Mile Lower**

Org. Identifier: USGS-TN  
 Formal name: USGS Tennessee Water Science Center  
 Monloc Identifier: USGS-350821090030200  
 Monloc name: SH:0-218  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 08010100 Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Latitude: 35.1392568  
 Longitude: -90.0506468 Sourcemap scale: Not Reported  
 Horiz Acc measure: Unknown Horiz Acc measure units: Unknown  
 Horiz Collection method: Interpolated from map  
 Horiz coord relys: NAD83 Vert measure val: Not Reported  
 Vert measure units: Not Reported Vertacc measure val: Not Reported  
 Vert accmeasure units: Not Reported  
 Vertcollection method: Not Reported  
 Vert coord relys: Not Reported Countycode: US  
 Aquifername: Mississippi embayment aquifer system  
 Formation type: Not Reported  
 Aquifer type: Not Reported  
 Construction date: Not Reported Welldepth: Not Reported  
 Welldepth units: Not Reported Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID Direction Database EDR ID Number  
 Distance  
 Elevation

**38 SE** AQUIFLOW 17618  
**1/2 - 1 Mile Higher**  
 Shallow Water Depth: 4.99  
 Groundwater Flow: NW  
 Deep Water Depth: 6.58  
 Average Water Depth: Not Reported  
 Date: 8/1995

**L39 SSW** TN WELLS TN600000117972  
**1/2 - 1 Mile Higher**

County name: SHELBY  
 Well numbr: 15709510  
 Driller na: CHISCA HOTEL SH:0-27  
 Addr line1: Not Reported  
 License co: 30  
 Cmpltn dat: Not Reported  
 Latitude: 350819  
 Cmpltn tot: 450  
 Cmpltn est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900322  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descriptio: Commercial  
 Driller re: 1442931  
 Site id: TN600000117972

**L40 SSW** FED USGS USGS40001143820  
**1/2 - 1 Mile Higher**

Org. Identifier: USGS-TN  
 Formal name: USGS Tennessee Water Science Center  
 Monloc Identifier: USGS-350818090032001  
 Monloc name: SH:0-027  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 08010100 Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Latitude: 35.1384235  
 Longitude: -90.0556469 Sourcemap scale: Not Reported  
 Horiz Acc measure: Unknown Horiz Acc measure units: Unknown  
 Horiz Collection method: Interpolated from map  
 Horiz coord relys: NAD83 Vert measure val: Not Reported  
 Vert measure units: Not Reported Vertacc measure val: Not Reported  
 Vert accmeasure units: Not Reported  
 Vertcollection method: Not Reported  
 Vert coord relys: Not Reported Countycode: US  
 Aquifername: Mississippi embayment aquifer system  
 Formation type: Memphis Sand

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Aquifer type: Not Reported  
 Construction date: Not Reported Welldepth: 300  
 Welldepth units: ft Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

**M41 SSW** FED USGS USGS40001143823  
**1/2 - 1 Mile Higher**

Org. Identifier: USGS-TN  
 Formal name: USGS Tennessee Water Science Center  
 Monloc Identifier: USGS-350819090033000  
 Monloc name: SH:0- 3  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 08010100 Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Latitude: 35.1387013  
 Longitude: -90.0584248 Sourcemap scale: Not Reported  
 Horiz Acc measure: Unknown Horiz Acc measure units: Unknown  
 Horiz Collection method: Interpolated from map  
 Horiz coord relys: NAD83 Vert measure val: Not Reported  
 Vert measure units: Not Reported Vertacc measure val: Not Reported  
 Vert accmeasure units: Not Reported  
 Vertcollection method: Not Reported  
 Vert coord relys: Not Reported Countycode: US  
 Aquifername: Mississippi embayment aquifer system  
 Formation type: Not Reported  
 Aquifer type: Not Reported  
 Construction date: Not Reported Welldepth: Not Reported  
 Welldepth units: Not Reported Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

**N42 NE** FED USGS USGS40001143953  
**1/2 - 1 Mile Lower**

Org. Identifier: USGS-TN  
 Formal name: USGS Tennessee Water Science Center  
 Monloc Identifier: USGS-350923090023500  
 Monloc name: SH:0-124  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 08010100 Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Latitude: 35.1564786  
 Longitude: -90.0431465 Sourcemap scale: Not Reported  
 Horiz Acc measure: 1 Horiz Acc measure units: seconds  
 Horiz Collection method: Interpolated from map  
 Horiz coord relys: NAD83 Vert measure val: Not Reported  
 Vert measure units: Not Reported Vertacc measure val: Not Reported  
 Vert accmeasure units: Not Reported  
 Vertcollection method: Not Reported  
 Vert coord relys: Not Reported Countycode: US  
 Aquifername: Mississippi embayment aquifer system  
 Formation type: Claiborne Group



**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Aquifer type: Confined single aquifer  
 Construction date: 19270501 Welldepth: Not Reported  
 Welldepth units: Not Reported Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

**N43**  
**NE**  
**1/2 - 1 Mile**  
**Lower**  
**FED USGS USGS40001143954**

Org. Identifier: USGS-TN  
 Formal name: USGS Tennessee Water Science Center  
 Monloc Identifier: USGS-350923090023501  
 Monloc name: SH-O-124 DUP  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 08010100 Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Latitude: 35.1564786  
 Longitude: -90.0431465 Sourcecamp scale: Not Reported  
 Horiz Acc measure: Unknown Horiz Acc measure units: Unknown  
 Horiz Collection method: Interpolated from map  
 Horiz coord refs: Not Reported Vert measure val: Not Reported  
 Vert measure units: Not Reported Vertacc measure val: Not Reported  
 Vert accmeasure units: Not Reported  
 Vertcollection method: Not Reported  
 Vert coord refs: Not Reported Countrycode: US  
 Aquifername: Mississippi embayment aquifer system  
 Formation type: Not Reported  
 Aquifer type: Not Reported  
 Construction date: Not Reported Welldepth: Not Reported  
 Welldepth units: Not Reported Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

**O44**  
**NE**  
**1/2 - 1 Mile**  
**Lower**  
**TN WELLS TN600000117958**

County name: SHELBY  
 Well numbr: 15709496  
 Driller na: BANNON ICE SHSO-1313  
 Addr line1: Not Reported  
 License co: 740  
 Cmpltm dat: Not Reported  
 Latitude: 350920  
 Cmpltm tot: 396  
 Cmpltm est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900230  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descripto: Not Reported  
 Driller re: 1442917  
 Site id: TN600000117958

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID Direction Database EDR ID Number  
 Distance  
 Elevation

**N45**  
**NE**  
**1/2 - 1 Mile**  
**Lower**  
**TN WELLS TN600000118140**

County name: SHELBY  
 Well numbr: 15709681  
 Driller na: MEMPHIS LG & W SH-O-124  
 Addr line1: Not Reported  
 License co: 740  
 Cmpltm dat: Not Reported  
 Latitude: 350924  
 Cmpltm tot: 98  
 Cmpltm est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900235  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 230  
 Descripto: Test  
 Driller re: 1443099  
 Site id: TN600000118140

**P46**  
**SE**  
**1/2 - 1 Mile**  
**Lower**  
 Shallow Water Depth: 8.78  
 Groundwater Flow: NW  
 Deep Water Depth: 22.50  
 Average Water Depth: Not Reported  
 Date: 7/11/96  
**AQUIFLOW 20545**

**M47**  
**SW**  
**1/2 - 1 Mile**  
**Higher**  
**TN WELLS TN600000118128**

County name: SHELBY  
 Well numbr: 15709669  
 Driller na: NYLON NET SHSO-19191  
 Addr line1: Not Reported  
 License co: 29  
 Cmpltm dat: Not Reported  
 Latitude: 350818  
 Cmpltm tot: 470  
 Cmpltm est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900333  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descripto: Industrial  
 Driller re: 1443087  
 Site id: TN600000118128

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID Direction Database EDR ID Number  
 Distance  
 Elevation

**O48**  
**NE**  
**1/2 - 1 Mile**  
**Lower**  
**FED USGS USGS40001143938**

Org. Identifier: USGS-TN  
 Formal name: USGS Tennessee Water Science Center  
 Monloc Identifier: USGS-350920090022800  
 Monloc name: SH-O-13  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 08010100 Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Latitude: 35.1556453  
 Longitude: -90.041202 Sourcecamp scale: Not Reported  
 Horiz Acc measure: Unknown Horiz Acc measure units: Unknown  
 Horiz Collection method: Interpolated from map  
 Horiz coord refs: Not Reported Vert measure val: Not Reported  
 Vert measure units: Not Reported Vertacc measure val: Not Reported  
 Vert accmeasure units: Not Reported  
 Vertcollection method: Not Reported  
 Vert coord refs: Not Reported Countrycode: US  
 Aquifername: Mississippi embayment aquifer system  
 Formation type: Not Reported  
 Aquifer type: Not Reported  
 Construction date: Not Reported Welldepth: Not Reported  
 Welldepth units: Not Reported Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

**O49**  
**NE**  
**1/2 - 1 Mile**  
**Lower**  
**FED USGS USGS40001143939**

Org. Identifier: USGS-TN  
 Formal name: USGS Tennessee Water Science Center  
 Monloc Identifier: USGS-350920090022801  
 Monloc name: SH-O-013  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 08010100 Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Latitude: 35.1556453  
 Longitude: -90.041202 Sourcecamp scale: Not Reported  
 Horiz Acc measure: Unknown Horiz Acc measure units: Unknown  
 Horiz Collection method: Interpolated from map  
 Horiz coord refs: Not Reported Vert measure val: Not Reported  
 Vert measure units: Not Reported Vertacc measure val: Not Reported  
 Vert accmeasure units: Not Reported  
 Vertcollection method: Not Reported  
 Vert coord refs: Not Reported Countrycode: US  
 Aquifername: Mississippi embayment aquifer system  
 Formation type: Memphis Sand

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Aquifer type: Not Reported  
 Construction date: Not Reported Welldepth: 396  
 Welldepth units: ft Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

**50**  
**SW**  
**1/2 - 1 Mile**  
**Higher**  
**FED USGS USGS40001143821**

Org. Identifier: USGS-TN  
 Formal name: USGS Tennessee Water Science Center  
 Monloc Identifier: USGS-350818090033501  
 Monloc name: SH-O-191  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: Not Reported Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Latitude: 35.1384235  
 Longitude: -90.0598137 Sourcecamp scale: Not Reported  
 Horiz Acc measure: 1 Horiz Acc measure units: seconds  
 Horiz Collection method: Interpolated from map  
 Horiz coord refs: NAD83 Vert measure val: 260  
 Vert measure units: feet Vertacc measure val: 5  
 Vert accmeasure units: feet  
 Vertcollection method: Interpolated from topographic map  
 Vert coord refs: NGVD29 Countrycode: US  
 Aquifername: Not Reported  
 Formation type: Not Reported  
 Aquifer type: Not Reported  
 Construction date: Not Reported Welldepth: 470  
 Welldepth units: ft Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

**51**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**  
**TN WELLS TN600000117948**

County name: SHELBY  
 Well numbr: 15709466  
 Driller na: OLIVER-FINNIE SH-O-3  
 Addr line1: Not Reported  
 License co: 30  
 Cmpltm dat: Not Reported  
 Latitude: 350815  
 Cmpltm tot: 502  
 Cmpltm est: 0  
 Wlts quad : 0404NE8  
 Driller ta: Not Reported  
 Longitude: 900330  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descripto: Other  
 Driller re: 1442907  
 Site id: TN600000117948

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**52**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

Shallow Water Depth: 5.92  
Groundwater Flow: NE  
Deep Water Depth: 11.75  
Average Water Depth: Not Reported  
Date: 8/1992

**AQUIFLOW** **17540**

**F53**  
**SE**  
**1/2 - 1 Mile**  
**Higher**

**TN WELLS** **TN6000000118009**

County name: SHELBY  
Well number: 15709547  
Driller na: MANUFACTURER SH:0-65  
Addr line1: Not Reported  
License co: 29  
Cmpltn dat: Not Reported  
Latitude: 350824  
Cmpltn tot: 0  
Cmpltn est: 0  
Wlts quad : 0404NE9  
Driller ta: Not Reported  
Longitude: 900225  
Accuracy: S  
Casing fee: 0  
Wbz: 0  
Descriptio: Industrial  
Driller re: 1442968  
Site id: TN6000000118009

**Q54**  
**SE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS** **USGS40001143814**

Org. Identifier: USGS-TN  
Formal name: USGS Tennessee Water Science Center  
Monloc Identifier: USGS-350817090022901  
Monloc name: SH:0-246  
Monloc type: Well  
Monloc desc: 495 UNION MUST CALL HESS ENVIROMENTAL SERVICE INC  
Huc code: 08010100 Drainagearea value: Not Reported  
Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
Contrib drainagearea units: Not Reported Latitude: 35.1381456  
Longitude: -90.0414799 Sourcecamp scale: 24000  
Horiz Acc measure: 1 Horiz Acc measure units: seconds  
Horiz Collection method: Interpolated from map  
Horiz coord relys: NAD83 Vert measure val: 258  
Vert measure units: feet Vertacc measure val: 1  
Vert accmeasure units: feet  
Vertcollection method: Interpolated from topographic map  
Vert coord relys: NGVD29 Countrycode: US  
Aquifername: Other aquifers  
Formation type: Terrace Deposits

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Aquifer type: Not Reported  
Construction date: Not Reported Welldepth: 56  
Welldepth units: ft Wellholedepth: 56  
Wellholedepth units: ft

Ground-water levels, Number of Measurements: 1  
Date Date Surface Sealevel  
1988-10-18 13.5

**55**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**TN WELLS** **TN6000000117957**

County name: SHELBY  
Well number: 15709495  
Driller na: MPS PUBLISH SHH:0-122  
Addr line1: Not Reported  
License co: 740  
Cmpltn dat: Not Reported  
Latitude: 350820  
Cmpltn tot: 395  
Cmpltn est: 0  
Wlts quad : 0404NE9  
Driller ta: Not Reported  
Longitude: 900225  
Accuracy: S  
Casing fee: 0  
Wbz: 0  
Descriptio: Commercial  
Driller re: 1442916  
Site id: TN6000000117957

**Q56**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS** **USGS40001143819**

Org. Identifier: USGS-TN  
Formal name: USGS Tennessee Water Science Center  
Monloc Identifier: USGS-350818090022600  
Monloc name: SH:0- 12  
Monloc type: Well  
Monloc desc: Not Reported  
Huc code: 08010100 Drainagearea value: Not Reported  
Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
Contrib drainagearea units: Not Reported Latitude: 35.1384234  
Longitude: -90.0406466 Sourcecamp scale: Not Reported  
Horiz Acc measure: Unknown Horiz Acc measure units: Unknown  
Horiz Collection method: Interpolated from map  
Horiz coord relys: NAD83 Vert measure val: Not Reported  
Vert measure units: Not Reported Vertacc measure val: Not Reported  
Vert accmeasure units: Not Reported  
Vertcollection method: Not Reported  
Vert coord relys: Not Reported Countrycode: US  
Aquifername: Mississippi embayment aquifer system  
Formation type: Not Reported

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Aquifer type: Not Reported  
Construction date: Not Reported Welldepth: Not Reported  
Welldepth units: Not Reported Wellholedepth: Not Reported  
Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

**Q57**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**TN WELLS** **TN6000000118051**

County name: SHELBY  
Well number: 15709591  
Driller na: MPS PUBLISH SH:0-109  
Addr line1: Not Reported  
License co: 30  
Cmpltn dat: Not Reported  
Latitude: 350819  
Cmpltn tot: 395  
Cmpltn est: 0  
Wlts quad : 0404NE9  
Driller ta: Not Reported  
Longitude: 900225  
Accuracy: S  
Casing fee: 0  
Wbz: 0  
Descriptio: Industrial  
Driller re: 1443010  
Site id: TN6000000118051

**R58**  
**SW**  
**1/2 - 1 Mile**  
**Higher**

**TN WELLS** **TN6000000117949**

County name: SHELBY  
Well number: 15709487  
Driller na: OLIVER-FINNIE SH:0-4  
Addr line1: Not Reported  
License co: 30  
Cmpltn dat: Not Reported  
Latitude: 350815  
Cmpltn tot: 500  
Cmpltn est: 0  
Wlts quad : 0404NE8  
Driller ta: Not Reported  
Longitude: 900339  
Accuracy: S  
Casing fee: 0  
Wbz: 0  
Descriptio: Industrial  
Driller re: 1442908  
Site id: TN6000000117949

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**S59**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**TN WELLS** **TN6000000118011**

County name: SHELBY  
Well number: 15709549  
Driller na: KRAUS CLEANR SH:0-67  
Addr line1: Not Reported  
License co: 740  
Cmpltn dat: 11-MAY-46  
Latitude: 350830  
Cmpltn tot: 408  
Cmpltn est: 0  
Wlts quad : 0404NE9  
Driller ta: Not Reported  
Longitude: 900214  
Accuracy: S  
Casing fee: 0  
Wbz: 0  
Descriptio: Residential  
Driller re: 1442970  
Site id: TN6000000118011

**S60**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS** **USGS40001143835**

Org. Identifier: USGS-TN  
Formal name: USGS Tennessee Water Science Center  
Monloc Identifier: USGS-350829090021401  
Monloc name: SH:0-067  
Monloc type: Well  
Monloc desc: Not Reported  
Huc code: Not Reported Drainagearea value: Not Reported  
Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
Contrib drainagearea units: Not Reported Latitude: 35.1412011  
Longitude: -90.0373131 Sourcecamp scale: Not Reported  
Horiz Acc measure: 1 Horiz Acc measure units: seconds  
Horiz Collection method: Interpolated from map  
Horiz coord relys: NAD83 Vert measure val: 266  
Vert measure units: feet Vertacc measure val: 5  
Vert accmeasure units: feet  
Vertcollection method: Interpolated from topographic map  
Vert coord relys: NGVD29 Countrycode: US  
Aquifername: Not Reported  
Formation type: Not Reported  
Aquifer type: Not Reported  
Construction date: Not Reported Welldepth: 401  
Welldepth units: ft Wellholedepth: 408  
Wellholedepth units: ft

Ground-water levels, Number of Measurements: 0

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID  
 Direction  
 Distance  
 Elevation  
 Database EDR ID Number

**S61**  
**ESE**  
**12 - 1 Mile**  
**Higher**

TN WELLS TN600000118010

County name: SHELBY  
 Well number: 15709548  
 Driller na: KRAUS CLEANR SH.0666  
 Addr line1: Not Reported  
 License co: 740  
 Cmpltn dat: Not Reported  
 Latitude: 350829  
 Cmpltn tot: 473  
 Cmpltn est: 0  
 Wils quad : 0404NE9  
 Driller ta: Not Reported  
 Longitude: 900213  
 Accuracy: S  
 Casing fee: 0  
 Wbz: 0  
 Descripto: Industrial  
 Driller re: 1442969  
 Site id: TN600000118010

**R62**  
**SW**  
**12 - 1 Mile**  
**Higher**

FED USGS USGS40001143799

Org. Identifier: USGS-TN  
 Formal name: USGS Tennessee Water Science Center  
 Monloc Identifier: USGS-350812090034100  
 Monloc name: SH-O-241 USCOE 11-RUP-85  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: Not Reported Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Latitude: 35.1367569  
 Longitude: -90.0614804 Source map scale: Not Reported  
 Horiz Acc measure: 1 Horiz Acc measure units: seconds  
 Horiz Collection method: Interpolated from map  
 Horiz coord refs: NAD83 Vert measure val: 278  
 Vert measure units: feet Vertacc measure val: 5  
 Vert accmeasure units: feet  
 Vertcollection method: Interpolated from topographic map  
 Vert coord refs: NGVD29 Countrycode: US  
 Aquifername: Not Reported  
 Formation type: Not Reported  
 Aquifer type: Not Reported  
 Construction date: Not Reported Welldepth: Not Reported  
 Welldepth units: Not Reported Wellholedepth: 200  
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 0

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS  
 RADON**

**AREA RADON INFORMATION**

State Database: TN Radon

Radon Test Results

County	Total Sites	Avg	Max	<4 pCi/L	4-10 pCi/L	10-20 pCi/L	20-50 pCi/L	50-100 pCi/L	>100 pCi/L
SHELBY	31	1.1	2.5	31	0	0	0	0	0

Federal EPA Radon Zone for SHELBY County: 3

Note: Zone 1 indoor average level > 4 pCi/L  
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L  
 : Zone 3 indoor average level < 2 pCi/L

Federal Area Radon Information for SHELBY COUNTY, TN

Number of sites tested: 117

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.025 pCi/L	99%	1%	0%
Living Area - 2nd Floor	0.000 pCi/L	100%	0%	0%
Basement	1.356 pCi/L	100%	0%	0%

**PHYSICAL SETTING SOURCE RECORDS SEARCHED**

**TOPOGRAPHIC INFORMATION**

USGS 7.5' Digital Elevation Model (DEM)  
 Source: United States Geologic Survey  
 EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey  
 A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

**HYDROLOGIC INFORMATION**

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory  
 Source: Tennessee Spatial Data Server  
 Telephone: 931-528-6481

**HYDROGEOLOGIC INFORMATION**

AQUIFLOW<sup>R</sup> Information System  
 Source: EDR proprietary database of groundwater flow information  
 EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

**GEOLOGIC INFORMATION**

Geologic Age and Rock Stratigraphic Unit  
 Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database  
 Source: Department of Agriculture, Natural Resources Conservation Services  
 The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database  
 Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)  
 Telephone: 800-672-5559  
 SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

**PHYSICAL SETTING SOURCE RECORDS SEARCHED**

**LOCAL / REGIONAL WATER AGENCY RECORDS**

**FEDERAL WATER WELLS**

PWS: Public Water Systems  
 Source: EPA/Office of Drinking Water  
 Telephone: 202-564-3750  
 Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data  
 Source: EPA/Office of Drinking Water  
 Telephone: 202-564-3750  
 Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)  
 This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

**OTHER STATE DATABASE INFORMATION**

**RADON**

State Database: TN Radon  
 Source: Department of Environment & Conservation  
 Telephone: 615-299-9725  
 Radon Test Results

**Area Radon Information**

Source: USGS  
 Telephone: 703-356-4020  
 The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

**EPA Radon Zones**

Source: EPA  
 Telephone: 703-356-4020  
 Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

**OTHER**

Airport Landing Facilities: Private and public use landing facilities  
 Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater  
 Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

## **Appendix F**

### **Qualifications**





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## **Michael Gross**

### **Environmental Consultant**

#### **EXPERIENCE**

**Environmental Consultant, Professional Service Industries, Inc. 2012 - Present**

As an Environmental Consultant, Michael Gross has worked in a variety of capacities in the environmental department of a national consulting firm including industrial hygiene compliance and Environmental Site Assessments. Michael has experience overseeing multiple construction projects with crews as large as 30 workers, and with air quality monitoring and analysis, and spent nine weeks heading up a contract with the Department of Energy's Naval Reactor's Program.

**Environmental Management Division intern, City of Rockville, Maryland 2011**

Michael performed a variety of tasks in the office and in the field for the Environmental Management Division of Rockville, Maryland. In addition to other tasks, he surveyed lakes and parks, assisted with website design, and ensured local restaurants were up to code regarding their oil/grease disposal.

**Veterinary Assistant, Greenfield Veterinary Hospital 2011**

**Campaign Member: City of Pittsburgh, Clean Water Action Campaign 2010**

#### **EDUCATION**

B.A., Environmental Sciences, University of Pittsburgh, 2012

#### **CERTIFICATIONS & MEMBERSHIPS**

Geographic Information Systems (GIS)

OSHA (40 Hour) Certification

Hazardous Waste Operations / Emergency Response (HAZWOPER)

Building Inspector License

NIOSH 582 Trained/Certified to read and analyze air samples



## **Keith W. Butler**

### **Project Manager**

Mr. Butler has extensive project management experience with respect to environmental due diligence and subsurface investigations. He is responsible for the preparation of project proposals, Phase I and II Environmental Site Assessments, Work Plans, Health and Safety Plans, Quality Assurance Project Plans, and investigation reports. Additionally, Mr. Butler has conducted and managed numerous Phase I and II ESAs. In these roles, Mr. Butler is responsible for applying the various state and local regulations, which govern environmental compliance and determine the need for additional investigation and/or remediation.

#### **PROJECT EXPERIENCE**

##### **Madison National Bank, Various Sites, New York**

Mr. Butler served as the Project Manager and principal contact for Madison National Bank. He was responsible for the preparation of Transaction Screen and Phase I/II Environmental Site Assessments (ESAs) at various sites throughout the New York metropolitan area, as required by the bank to satisfy client mortgage or construction loan requests.

##### **Jewish Home & Hospital, Manhattan, NY**

Most recently, Mr. Butler completed a Phase I ESA at their Bronx campus to obtain US. Housing and Urban Development (HUD) funding for a future construction project. Mr. Butler was also responsible for implementing a Remedial Action Work (RAW) Plan at the Bronx facility as required by the NYSDEC under a Voluntary Cleanup Agreement. The RAW included the preparation of contract documents, excavation of over 2,000 tons petroleum contaminated soils, installation of a Soil Vapor Extraction (SVE) system remedial oversight, and sampling.

##### **Pulte Homes of New York, Patchogue, NY**

Mr. Butler served as the Project Manager for the re-development of this six acre site and was responsible for field oversight and coordination between remediation contractors and various regulatory agencies. Initial phases of the project included the completion of Phase I and II ESAs. Subsequent remediation consisted of UST removal, excavation of petroleum impacted soils, closure of three NYSDEC spill numbers, removal of contaminated UIC sediment/sludge, the closure of commercial and residential UIC structures and the excavation of arsenic and metals contaminated soil. The project was conducted under approved Remedial Work and Soil Management Plans with oversight from the State, County and Village agencies.

##### **Town of Islip, Blydenburgh Road Landfill, Hauppauge, NY**

Mr. Butler served as the Project Manager for the groundwater and leachate monitoring program at the Blydenburgh Road Landfill - Cleanfills 1 and 2 and Leachate Impoundment Area. Mr. Butler was the principal contact for the Town's Resource Recovery Agency. He prepared the quarterly and annual monitoring reports, oversaw sampling efforts, and coordinated with the Town's analytical laboratory and data validation contractors. Mr. Butler was also responsible for preparing quarterly well condition



reports and leachate quality reports for compliance with the Town's Suffolk County Discharge Certification Permit.

**Ogden Aviation, Various Sites, JFK International Airport, Jamaica, New York**

Mr. Butler served as the project manager for the rehabilitation of the satellite fuel farm recovery well system. Recovery wells at the fuel farm had become clogged with iron deposits and bacteria limiting product recovery efforts. Mr. Butler developed and supervised chemical cleaning and redevelopment of recovery wells under the approval of the NYSDEC. The chemical treatment has resulted in significant increases in product recovery volumes.

**Brookhaven National Laboratory, Upton, NY**

Mr. Butler has worked on a number of remediation system and monitoring well installation projects at BNL. His duties included oversight of installations, system pump tests, performance evaluations, and well development. He also provided oversight of soil borings, temporary well construction, soil and water sampling, and air monitoring for groundwater screening survey of two operable units in hazardous and radioactive waste storage areas. Mr. Butler also provided oversight for groundwater monitoring, well construction, well abandonment, and methane-monitoring wells for landfill closure.

**metroPCS, Various Sites, New York**

Mr. Butler served as the Project Manager for metroPCS' Long Island region telecommunications site acquisition and expansion program. Mr. Butler was responsible for the preparation of Phase I ESAs, the conduct of Phase II ESAs, including asbestos, lead paint and soil sampling, and coordination of National Environmental Policy Act (NEPA) reports and planing studies at various locations proposed for construction of new cellular telephone facilities. Reports and associated communications were transmitted electronically through metroPCS' data management system.

**Dormitory Authority - State of New York, Harlem Hospital Center Modernization Project - Hazardous and Universal Waste Survey, Harlem Hospital, New York, NY**

Mr. Butler served as the field team leader for conducting hazardous and universal waste surveys in multiple buildings affiliated with Harlem Hospital Center. The survey included the identification of hazardous and universal waste materials including chemicals, paints, fluorescent bulbs, high intensity discharge bulbs/fixtures, battery operated equipment, above and underground petroleum storage tank identification, PCB containing light ballasts and electrical equipment. The hospital is comprised of a number of buildings, many that were abandoned and slated for demolition.

**SVE Monitoring at Newark International Airport, Elizabeth, NJ**

A routine leak detection test indicated that two 10,000-gallon underground storage tanks, which were used to store unleaded gasoline, had failed tightness tests. Follow-up investigation revealed that the product had impacted the subsurface environment. In response to this, a soil vapor extraction system was installed to reduce the residual concentrations of petroleum constituents in soil and groundwater and to minimize vapor migration into subsurface utility vaults. Mr. Butler was responsible for implementing the Remedial Action Work Plan, developed for the site by Ogden and the State of New Jersey. Activities conducted under the RAW include quarterly groundwater monitoring, air sampling, vacuum pressure monitoring, system maintenance and reporting.



**Federal Express Site, Newark International Airport, Elizabeth, NJ**

Mr. Butler worked with Ogden Aviation and the State of New Jersey to address outstanding environmental issues at the site related to a spill of jet fuel, which occurred during a construction accident. Mr. Butler performed a site assessment, which included groundwater monitoring, product gauging, and groundwater flow modeling. After reviewing these data, Mr. Butler determined that fill material at the site was contributing to soil and groundwater contamination and has petitioned the State for partial site closure. Mr. Butler is continuing to address the remaining area of concern through product recovery and continued monitoring.

**Northrop Grumman, Various Sites**

Mr. Butler conducted three Phase I ESAs and a Phase II investigation for the presence of PCBs in soil. He also inspected and supervised the removal of underground storage tanks, asbestos abatement projects, and sanitary system closures related to the facility decommissioning. Mr. Butler also conducted groundwater investigations and provided oversight during soil sampling, drilling and soil remediation activities.

**New York City Department of Environmental Protection, Various Sites**

Mr. Butler served as an Environmental Scientist for hazard investigation at seven sewage pump stations. Mr. Butler addressed a wide range of environmental concerns including asbestos, lead based paints, PCB oil, light ballasts, and other hazardous building materials. He conducted field investigations, sampling, and prepared Hazardous Materials Survey Reports for use during preparation of plans and specifications for proposed pump station construction projects.

**Fresh Kills Landfill, Staten Island, New York**

Mr. Butler participated in the field operations during pump and yield tests conducted on Cells 1 and 9. The tests were performed to determine the hydraulic properties of the landfill's refuse. He collected groundwater and leachate measurements in recovery wells and in adjacent observation wells under pumping and non-pumping conditions.

**EDUCATION:**

BS, Geology, Slippery Rock University of Pennsylvania, 1990

**PROFESSIONAL REGISTRATIONS/CERTIFICATIONS:**

OSHA Certification, 40-hour Health & Safety Training at Hazardous Waste Sites  
OSHA Certification, 8-hour Refresher Health & Safety Training at Hazardous Waste Sites  
OSHA Confined Space Entry Training





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# Jeff Doss

## Principal

### EXPERIENCE:

Jeff has over 15 years of experience in the due diligence industry. He has performed and managed over 1,000 environmental site assessments for residential, commercial and industrial properties throughout the continental United States and internationally. Prior to launching DECA Real Estate Advisors, Jeff worked for environmental due diligence firms in Oregon and New York City. In addition, Jeff ran the New York City national headquarters operation for a due diligence firm in the late 1990s and early 2000s. During Jeff's career he has been intimately involved with conduit lending, and has been a senior reviewer for several major lenders including C. S. First Boston, Merrill Lynch, Natixis Real Estate Capital Inc., Citigroup and Greenwich Capital.

In addition to due diligence assessments, Jeff also performed and managed Phase II site investigations, underground storage tank management and closure activities, and Phase III remedial investigations/cleanups under various regulatory programs. The clients serviced for these projects included industrial and commercial clients, financial institutions, real estate developers, and individual investors. Furthermore, Jeff has prepared and successfully implemented soil and groundwater remedial investigation and remedial action work plans for the cleanup of facilities including large bulk petroleum and industrial facilities, marinas, gasoline service stations, dry cleaner facilities and vacant and/or undeveloped properties. Management responsibilities have included running an office with more than 40 employees; directing advisory efforts between lenders, property owners and lawyers; negotiating with the regulatory agencies and using innovative remedial technologies for cost effective mitigation of the project sites.

### Areas of Expertise:

- Due Diligence Environmental and Property Condition Site Assessments
- Third Party Desktop reviews for major commercial conduit lenders
- Project Management
- UST Management, Closure, Investigation, Remediation, System Upgrades
- Remedial Investigations/Feasibility Studies
- Groundwater Monitoring and Sampling
- Remedial Design and Implementation
- Subsurface Investigations
- Industrial Facility Site Characterization



Representative projects performed and/or managed by Jeff include the following:

- ESA; a 2,336,272 square foot, 64-story, Class-A office building located in the heart of Pittsburgh's "Golden Triangle". The site had a leaking underground storage tank situation, and Jeff quantified the overall risk and the deal closed on time.
- ESA; a premier multi-tenanted, specialty retail complex that included restaurants, a marina, waterfront park, parking garage and a ferry terminal for the San Francisco Bay Area. The site had a complex history and the surrounding properties had adversely affected the site. Jeff worked with the owner and bank to resolve the outstanding issues and an escrow account was established to effectively mitigate the risk.
- Third Party Desktop Reviews; Two four-diamond full-service hotels in Seattle and Portland. The hotels had long histories and several renovations occurred prior to their current configuration. Jeff reviewed various previous reports in order to verify that all outstanding issues had been properly resolved.
- ESA and Phase II; a marina located in the U. S. Virgin Islands that offers first-class shopping, dining and a full-service marina with 128 slips. The site and neighboring properties had a history of underground storage tank leaks that had impacted the adjacent waterway, and Jeff worked with the property owner, U. S. Coast Guard and local government agencies to quantify and delineate the subsurface impacts, and to determine an adequate holdback in order for the deal to close.
- ESA and Third Party Desktop Review; a 57-story, 793-foot U-shaped office building that was constructed in 1913 and is one of the oldest and most famous skyscrapers in New York. The building is located near the former World Trade Centers and the desktop reviews were part of the air monitoring and potential asbestos concerns at this site resulting from the collapse of the nearby office towers. Jeff reviewed the available documentation and determined that the risk was properly evaluated and quantified.
- ESA and Construction Monitoring; an approximately 500,000 square foot, 17-story, Class-A office building that was constructed in 2006 on the site of a former oil refinery on the waterfront in Baltimore. Jeff performed monthly construction monitoring services for the lender in addition to evaluating and monitoring the existing environmental risks and necessary waterfront bulkhead replacement.
- ESA and PCA; a 453,000 square foot, Class-A, 27-story office tower located within New Orleans central business district. The building was 25 years old with mostly original mechanical equipment. The building had experienced problems during Hurricane Katrina, with extensive roof and window damage. Jeff evaluated and quantified the damage, and set aside an escrow amount to cover the repairs.
- ESA and PCA; a multi-building bed and breakfast hotel facility that opened for business in 1742 and is located in Edgartown, Martha's Vineyard, MA. The buildings were being renovated, and Jeff worked with the owners and lender to quantify the costs associated with the building improvement activities.
- Phase II and Phase III; soil and groundwater remediation at a marina in Seaford, NY during its conversion into multi-family residential apartments. Jeff actively managed several components of the investigation including soil sampling, excavation and onsite soil remediation, groundwater sampling and characterization; underground storage tank removals and building demolition activities. This site was one of the first to be completed under New York State's Region II Voluntary Cleanup Program.



- Phase II; soil and groundwater contamination delineation (including evaluation of sediments in the East River), and remedial design under the oversight of the New York State Department of Environmental Conservation (NYSDEC) during the conversion of an undeveloped parcel into multi-family residential apartments situated directly on the East River in College Point, NY.
- Third Party Desktop Reviews; a \$900,000,000 loan to finance an eight-property, 6,127 room portfolio of luxury hotel/resorts in four major markets across three states. The financing was part of a larger transaction to acquire a controlling interest in a privately-held Japanese company. Jeff quantified the outstanding issues of concern that enabled the deal to close on time.
- Third Party Desktop Reviews; Jeff has reviewed thousands of Phase I ESA, Phase II, Phase III and PCA reports including single deals and portfolios up to several hundred sites.

**EDUCATION:**

**Wake Forest University, Winston-Salem, North Carolina**

Masters in Business Administration

January 2003

**University of North Carolina, Charlotte, North Carolina**

Bachelor of Science: Business Administration, Marketing

May 1992

Bachelor of Arts: Earth Sciences, Geology

August 1992