



Phase I Environmental Site Assessment and
Limited Environmental Compliance Review
SEACO, Inc.
2700 William H. Tuller Drive and
2701 Commerce Drive
Columbia, South Carolina

Prepared for:
Associated Asphalt Partners, LLC
Roanoke, Virginia

Prepared by:
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01-29288A

Signature and Environmental Professional Statement

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



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1 Introduction

1.1 Objective

ENVIRON International Corporation (ENVIRON) was retained by Associated Asphalt Partners, LLC (“Associated Asphalt”), to conduct an environmental review of the SEACO, Inc. (SEACO or the “Company”) facilities at 2700 William Tuller Drive (the “emulsion plant”) and 2701 Commerce Drive (the “trailer storage facility”) in Columbia, South Carolina (collectively, the “site” or the “facility”). The environmental review includes two components: 1) a Phase I Environmental Site Assessment (ESA); and 2) a limited review of regulatory compliance and other environmental matters.¹

The objective of the Phase I ESA, which was conducted in conformance with the scope and limitations of ASTM International’s *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* E1527-05 (the “ASTM Standard”), was to identify Recognized Environmental Conditions (RECs), as defined in the ASTM Standard. ENVIRON’s regulatory compliance review is a limited screening tool and is not a substitute for a comprehensive multi-media compliance audit.

1.2 Scope of Work

The environmental review included the following tasks:

- A visit to the site by Angela Menegay of ENVIRON on January 6, 2012 to observe the exterior and interior features of the site and to identify the uses and conditions specified in Sections 9.4.1 through 9.4.4.7 of the ASTM Standard. In addition, ENVIRON observed the adjoining properties from the site or adjacent public thoroughfares. Photographs taken during the site visit are presented in Appendix A.
- Interviews during the visit with the following site employees (year of initial hire at the site indicated in parentheses): Joe Reynolds, Vice President of Production (1990), and Jay von Kolnitz, Vice President of Finance (1970). The aforementioned individuals are referred to herein as “facility personnel.” The facility personnel interviewed by ENVIRON were identified by the Company as having good knowledge of the uses and physical characteristics of the site, as well as of regulatory compliance matters.
- A review of information contained in federal and state environmental databases, as obtained from the sources noted below:
 - A radius report prepared by Environmental Data Resources, Inc. (EDR, see Appendix B), which presents the results of searches of federal and state databases for the subject site, as well as properties near the subject site. The radius searched for each database, as well as the databases themselves, was selected in accordance with the ASTM Standard.

¹ Other environmental matters evaluated in this assessment include limited visual observations of building materials for presumed asbestos-containing materials (PACMs) and a limited assessment of off-site waste management facilities.

- The United States Environmental Protection Agency's (USEPA's) Envirofacts database, which provides site information contained in multiple USEPA regulatory databases.
- The USEPA's Enforcement and Compliance History Online (ECHO) database, which provides information on sites' enforcement and compliance history.
- The USEPA's Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)-Potentially Responsible Party (PRP) database, which was searched to determine whether the Company is listed as a PRP at any Superfund sites.
- The USEPA's Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database, which was searched to determine if any current or past off-site waste management facilities used by the Company or its known predecessors are listed on the National Priorities List (NPL) or CERCLIS.
- The Occupational Safety and Health Administration (OSHA) Establishment Search database, which provides site-specific information on OSHA inspections.
- South Carolina's underground storage tank registry and Bureau of Land and Waste Management (BLWM) public record database.
- A review of standard historical sources and local agency inquiries, as defined in the ASTM Standard. The following resources were reviewed:
 - Readily available historical sources (as identified in Section 3.2 of this report and included as Appendix C) to develop a history of the previous uses of the site and surrounding area.
 - Site-specific information obtained from the Richland County Health Department, the Richland County Assessed Property Inquiry, and the City of Columbia Fire Department.
 - A Freedom of Information Act (FOIA) request to the City of Columbia Departments of Planning, Permitting, and Inspections requesting information regarding the presence or absence of contamination at the site. Information pertaining to fire and hazardous materials response incidents, chemical and petroleum storage tanks, and building permit information was also requested. A response had not yet been received at the time the report was completed.
 - A FOIA request to South Carolina Department of Health and Environmental Control (SCDHEC) requesting records for the site. A response had not yet been received at the time the report was completed.
- A review of documents provided to ENVIRON by facility personnel, including environmental permits, correspondence with regulatory agencies, facility-prepared plans and procedures, and chemical use information. In addition, ENVIRON was provided with the following previous environmental assessment reports:
 - *Groundwater Quality Assessment Report, SEACO, Inc. Facility, Columbia, South Carolina*, prepared by Davis & Floyd, Inc., dated June 1992 (the "1992 Groundwater Assessment report");

- *Report of Aquifer Testing and Groundwater Monitoring, SEACO, Inc. Facility, Columbia, South Carolina*, prepared by Davis & Floyd, Inc., dated October 1996 (the “1996 Aquifer Testing report”); and
- *2011 Annual Routine Groundwater Monitoring, Site No. 13688, SEACO, Inc., Columbia, South Carolina*, prepared by Davis & Floyd, Inc., dated July 2011 (the “2011 monitoring report”).
- A review of physical setting sources, as defined in the ASTM Standard, including:
 - The current USGS 7.5-minute topographic map that shows the area on which the site is located.
 - Geologic, hydrogeologic, or hydrologic sources as provided in the EDR report and in the above-listed previous reports.
- A review of the responses provided by Associated Asphalt to a User Questionnaire consistent with Appendix X3 of the ASTM Standard. Pertinent responses, if any, are discussed in the appropriate sections of this report.

1.3 Reliance and General Limitations

This report been prepared for the exclusive use of Associated Asphalt and may not be relied upon by any other person or entity without ENVIRON’s prior express written permission.

The report is considered current only for a period of 180 days from the site inspection. The conclusions presented in this report represent ENVIRON’s best professional judgment based upon the information available and conditions existing as of the date of the review. In performing its assignment, ENVIRON must rely upon publicly available information, information provided by the client and information provided by third parties. Accordingly, the conclusions in this report are valid only to the extent that the information provided to ENVIRON was accurate and complete. This review is not intended as legal advice, nor is it an exhaustive review of site conditions or facility compliance. ENVIRON makes no representations or warranties, express or implied, about the conditions of the site.

ENVIRON’s scope of work for this assignment did not include collecting samples of any environmental media. As such, this review cannot rule out the existence of latent conditions, and is intended, consistent with normal standards of practice and care, to assist the client in identifying the risks of such conditions.

The scope of work for this assessment did not include an asbestos survey or inspection. According to federal OSHA regulations (29 CFR §1910.1001) and the Model Accreditation Plan (MAP; 40 CFR Part 763, Subpart E, Appendix C), the inspection, testing, evaluation, and/or sampling of suspect asbestos-containing materials must be conducted by an accredited inspector; these activities were not performed as part of this environmental review.

2 Summary of Conclusions

2.1 Introduction

ENVIRON was retained by Associated Asphalt, Inc. to conduct an environmental review of the SEACO site in Columbia, South Carolina. The environmental review includes two components: 1) a Phase I ESA; and 2) a limited review of regulatory compliance and other environmental matters.

To help evaluate the business risk of the identified environmental findings, ENVIRON considered various factors, exercised its judgment, and categorized these findings, based on a materiality threshold of \$50,000, as follows:

Material – Confirmed or otherwise demonstrated impairment of environmental media or regulatory non-compliance that typically would require expenditures in excess of the materiality threshold.

Potentially Material – Suspect impairment of environmental media or potential regulatory non-compliance that has not been confirmed or otherwise demonstrated through appropriate collection of data or technical analysis. Expenditures in excess of the materiality threshold could be required if suspect impairment or regulatory non-compliance were to be confirmed.

Noteworthy – Issues that are not expected to result in expenditures in excess of the materiality threshold.

Tables 2.1 and 2.2 present an overview of ENVIRON's findings and the business risk that these findings represent for the emulsion plant and the trailer parking area, respectively. Additional discussion of the individual findings is presented in Sections 2.2 through 2.4 below and in the body of this report.

Table 2.1: Overview of ENVIRON's Findings, Emulsion Plant

Finding	ASTM Characterization	Business Risk
Phase I Environmental Site Assessment		
Known Petroleum Contamination, Emulsion Plant	REC	Potentially Material
Historical Operations at the Emulsion Plant Parcel	Other Finding	Potentially Material
Other Potential Petroleum Contamination at the Emulsion Plant	Other Finding	Noteworthy
Potential Impact from Nearby Properties	Other Finding	Noteworthy
Areas of Indoor and Outdoor Oil Staining	<i>De minimis</i>	Noteworthy
Limited Environmental Compliance Review		
Wastewater Permitting	N/A	Noteworthy
Odors	N/A	Noteworthy

Table 2.1: Overview of ENVIRON’s Findings, Emulsion Plant		
Finding	ASTM Characterization	Business Risk
Other Environmental Matters		
Possible Presence of ACM in Building Materials	N/A	Noteworthy

Table 2.2: Overview of ENVIRON’s Findings, Trailer Parking Area		
Finding	ASTM Characterization	Business Risk
Phase I Environmental Site Assessment		
Potential Petroleum Contamination at the Trailer Parking Area	Other Finding	Noteworthy
Potential Impact from Nearby Properties	Other Finding	Noteworthy

2.2 Summary of Phase I ESA

SEACO owns and operates an asphaltic emulsions manufacturing facility and an associated trailer parking facility in Columbia, South Carolina. The site, which includes the two above-listed, non-contiguous facilities, totals approximately 9 acres. The emulsion plant facility was first developed prior to 1939 for industrial use, and SEACO began operating at the emulsion plant in 1949 for asphaltic emulsion manufacturing. The trailer parking area was first developed in the 1970s for cast stone manufacturing and was subsequently acquired by SEACO in the early 1980s.

Recognized Environmental Conditions

ENVIRON performed a Phase I ESA of the SEACO site at 2700 William Tuller Drive and 2701 Commerce Drive in Columbia, South Carolina in conformance with the scope and limitations of the ASTM Standard. Any exceptions to, or deletions from, this practice are described in Section 3.8 of this report. This assessment has revealed the following REC in connection with the facility:

- Known Petroleum Contamination at the Emulsion Plant.** In 1992, petroleum constituents at levels above federal maximum contaminant limits (MCLs) and SCDHEC risk-based screening levels (RBSLs) were discovered in groundwater monitoring wells adjacent to the south of the emulsion plant on property owned by CSX. The source of the contamination is believed to be a former fuel oil underground storage tank (UST) associated with a boiler formerly located in the mill building. The fuel oil UST was emptied and taken out of service in December 1992, and free product recovery was conducted at two recovery wells installed on the adjacent CSX property. According to data contained in subsequent groundwater monitoring reports, concentrations of benzene and naphthalene have demonstrated a slight, steady decrease over time, and light non-aqueous phase

liquid (LNAPL [i.e., free product floating on the groundwater table]) has not been detected in any wells since 2009.

Although the horizontal extent of impacts has not been delineated, based on regulatory correspondence, it appears that naphthalene is the primary constituent of concern and that SCDHEC has approved a monitoring only approach to address the release. Currently, SEACO performs annual groundwater monitoring for naphthalene only at four monitoring wells and the two recovery wells located on the adjacent CSX property. Based on the most recent groundwater monitoring report, naphthalene was detected in two monitoring and one recovery well at concentrations exceeding the SCDHEC RBSL of 25 micrograms per liter ($\mu\text{g/L}$) as established under the UST Program.

ENVIRON anticipates that the facility will be required to continue groundwater monitoring until the naphthalene concentrations fall below the RBSL for naphthalene. Material costs may be incurred in the long term to continue the annual groundwater monitoring and obtain eventual closure of the case.

Other Findings

Although not considered RECs based on currently available information, ENVIRON identified the following other findings. The term “other finding” is not defined by ASTM; rather, ENVIRON uses the term to connote areas of contingent risk that are not clearly defined by the ASTM Standard.

Emulsion Plant

- **Historical Release Associated with 130-gallon UST at the Emulsion Plant.** A 130-gallon waste oil UST was excavated and removed from the southern portion of the truck shop at the emulsion plant facility in June 1993. Petroleum contamination was observed during the excavation and reported to SCDHEC. According to the Full Closure Assessment Report submitted to SCDHEC, soil samples collected from the bottom of the excavation contained total petroleum hydrocarbons (TPH) diesel-range organics (DRO) at a maximum concentration of 500 milligrams per kilogram (mg/kg), which is considered a release of regulated substances by SCDHEC. No known soil excavation was performed, according to facility personnel, and no known subsequent subsurface investigations related to the waste oil UST release have been conducted. Despite the fact that no further investigation was conducted, it appears that a No Further Action (NFA) determination was granted on September 25, 1998 following submittal of an Initial Ground Water Assessment (IGWA) report relating to a former gasoline UST. The IGWA confirmed the absence of impacts near the former gasoline UST but did not include any investigation of the waste oil tank. Therefore, it appears that SCDHEC may have inadvertently provided the NFA determination for the former waste oil UST instead of the former gasoline UST. Although this matter is not considered a REC, given the previous detection of contamination within the waste oil UST excavation pit and the lack of any apparent follow-up investigation, residual petroleum impacts associated with the 130-gallon waste oil UST may still be present in the soil or groundwater. The possibility of widespread petroleum contamination from the waste oil UST is mitigated by the fact that any significant contamination would likely have been identified as part of the current groundwater monitoring activities on the

adjacent CSX property, as described above, for which a groundwater monitoring well is positioned downgradient to the area of the former waste oil UST. Thus, any residual contamination associated with the former waste oil UST is likely localized or limited to soil, and future costs to address such impacts are not anticipated to be material. Therefore, this matter is considered noteworthy from a business risk perspective.

- **Historical Operations at the Emulsion Plant Parcel.** The emulsion plant parcel has been used for various industrial purposes from prior to 1939 and was developed for use by SEACO in 1949. The former industrial operations included activities conducted by Durlane Gas Co. and Carolina Block Co., as well as metal working, woodworking, operation of a kiln, use of an oil warehouse, auto repair, and distribution of home heating oil. The former industrial operations likely included the use of petroleum products, heavy metals, paints, solvents, and other chemicals. The historical handling, disposal, and use of these chemicals were not strictly regulated, controlled, or monitored during the site's early operational history. It is possible that spills or releases of these chemicals may have adversely affected the soil and groundwater conditions at the site. As discussed above, limited subsurface investigation activities, focused on petroleum, have been conducted in certain areas of the site (i.e. near the former waste oil UST, gasoline UST, and downgradient of the former fuel oil UST). However, no site-wide subsurface characterization activities targeting the areas of historical industrial site use are known to have been performed. Although this matter is not considered a REC, future costs to investigate and remediate contamination (if present) are potentially material. However, the possibility that significant costs would be incurred is mitigated by the following factors: 1) ENVIRON observed no obvious indications of past releases, 2) facility personnel are not aware of any major spills or releases of chemicals or petroleum products at the site, 3) the site has always been served by the municipal sanitary sewer system (i.e., there are no known septic systems, which could serve as a conduit for subsurface releases), and 4) the site is located in an industrial/commercial area with no nearby residential receptors or known drinking water wells in the downgradient direction from the site.
- **Other Potential Petroleum Impacts at the Emulsion Plant Parcel.** Various raw materials are staged in ASTs within bare ground containment structures at the emulsion plant parcel. Although releases of asphaltic materials within such bare ground containment structures are unlikely to result in soil or groundwater impacts, the release of less viscous products, such as No. 2 fuel oil, could potentially result in adverse impacts to underlying soil or groundwater. Although this matter is not considered a REC, given the duration of operations at the site, ENVIRON cannot rule out the possibility that inadvertent releases of No. 2 heating oil or other petroleum substances may have resulted in soil or groundwater impacts. However, the potential for material expenditures related to such impacts at the emulsion plant is mitigated by the fact that known petroleum impacts are currently being addressed at the site and SCDHEC has approved a monitoring only strategy to address the known impacts.
- **Potential Impact from Nearby Properties.** Three properties (i.e., Rosewood Hills, Wiley St. Property, and in the Holt Drive Tract), located one-quarter to one-half mile upgradient and north-northwest of the emulsion plant parcel, are listed on regulatory databases potentially indicative of contamination, including the Solid Hazardous Waste Site (SHWS),

CERCLIS, and/or Brownfields databases. There has been no apparent regulatory impetus to investigate whether contamination from any of the three properties has migrated to the emulsion plant parcel. If contamination associated with the three properties was found to have migrated onto the SEACO property, it is expected that any remedial activities would not be the responsibility of SEACO. Thus, this matter is considered to be noteworthy from a business risk perspective.

Trailer Storage Facility

- **Potential Petroleum Impacts at the Trailer Storage Facility.** Diesel fuel is staged in an AST within a bare ground containment structure at the trailer storage facility. It is possible that historical fuel handling practices or inadvertent drips, spills, or overfills may have resulted in adverse impacts to underlying soil or groundwater. Although this matter is not considered a REC, ENVIRON cannot rule out the possibility that inadvertent releases of diesel fuel may have resulted in soil or groundwater impacts. However, the potential for significant expenditures related to such impacts at the trailer storage area is mitigated by the fact that no known releases of petroleum have occurred at the trailer storage area and no obvious evidence of significant releases was observed. Therefore, this matter is considered noteworthy from a business risk perspective.
- **Potential Impact from Nearby Properties to the Trailer Storage Facility.** Three properties (i.e., Rosewood Hills, Wiley St. Property, and the Holt Drive Tract), located one-quarter to one-half mile upgradient and northwest of the trailer storage area, are listed on regulatory databases potentially indicative of contamination, including the Solid Hazardous Waste Site (SHWS), CERCLIS, and/or Brownfields databases. There has been no apparent regulatory impetus to investigate whether contamination from any of the three properties has migrated to the trailer storage parcel. If contamination associated with the three properties was found to have migrated onto the SEACO site, it is expected that any remedial activities would not be the responsibility of SEACO. Thus, this matter is considered to be noteworthy from a business risk perspective.

De Minimis Conditions

ENVIRON identified the following *de minimis* conditions, which are considered noteworthy from a business risk perspective: 1) small areas of oil-stained gravel and soil in driveway areas at both parcels and 2) limited staining observed on pavement and flooring at the emulsion plant. Additional discussion of these findings is provided in Section 3.7.

2.3 Summary of Environmental Compliance Review

The site holds environmental permits for air emissions and storm water discharges at the emulsion plant, submits chemical inventory reports for the emulsion plant to federal and state agencies, and maintains a number of environmental plans and procedures.

ENVIRON identified several potential compliance findings that are each considered noteworthy from a business risk perspective (i.e., the cost to address an individual finding is not reasonably likely to exceed \$50,000). ENVIRON's analysis does not account for fines or penalties that may be levied by the USEPA or the state environmental agency in response to the noted regulatory

compliance findings; however, potential fines could be significantly minimized if these findings are promptly and voluntarily corrected.

- **Wastewater Permitting.** The National Pollutant Discharge Elimination System (NPDES) categorical pretreatment standard 40 CFR §443, which is applicable to sources of paving and roofing materials, may apply to wastewater produced at the emulsion plant. However, the rule is not clear, and a determination by both EPA and the publicly operated treatment works (POTW) may be required. Also, NPDES regulations require that a permit be obtained for discharges of pollutants, such as oils that may be present in the air compressor condensate, to the ground surface. Thus, a regulatory agency could require that a permit be obtained for the condensate discharge at the emulsion plant, which the facility has not done.
- **Odors.** Facility personnel indicated that complaints have on occasion been received from neighboring facilities in the summer regarding odors emanating from the emulsion plant, but the facility has not received violations for odors.

2.4 Summary of Other Environmental Matters

ENVIRON's scope of work also included a limited off-site waste disposal liability review and a limited visual evaluation of potential asbestos-containing materials, as described in Section 4.2. A discussion of ENVIRON's findings, which are considered noteworthy, is presented below.

- **Possible Presence of Asbestos-Containing Material (ACM) in Building Materials.** Given the date of construction of the buildings at the emulsion plant, it is possible that ACMs are present. At the time of ENVIRON's site visit, presumed ACM (PACM) were observed at the site (e.g., boiler and pipe insulation). The site has not met OSHA employee notification, training, labeling and recordkeeping requirements for presumed ACM.

3 Phase I Environmental Site Assessment

3.1 Site Setting

SEACO owns and operates an asphaltic emulsion plant located at 2700 William Tuller Drive (the “emulsion plant”) and a trailer storage and vehicle refueling area located at and 2701 Commerce Drive (the “trailer storage area”) in Columbia, Richland County, South Carolina. The trailer storage facility is located approximately 350 feet northeast of the emulsion plant; a vacant lot is located between the two parcels.² The two SEACO facilities (the “site” or the “facility”) are located southeast of downtown Columbia (Figure 1).

The 3-acre emulsion plant facility is accessed from William Tuller Drive at the north-central boundary and is developed with a mill building, maintenance shop, truck shop, storage/dispatch building, and an office building with an attached truck wash bay and shed (Figure 2). Numerous ASTs, primarily used for emulsion storage, are situated along the southern portion of the site. The area immediately west of the emulsion plant facility is paved with gravel and the western-most portion of the emulsion plant facility consists of a grass field that is fenced off from the remainder of the facility. The central and eastern portions of the facility are paved with asphalt or concrete. There are no surface water bodies on the emulsion plant facility.

The 6-acre trailer storage facility is accessed from Commerce Drive at the southern boundary, and is developed with one covered truck parking structure near the southern boundary and a diesel fuel AST. Approximately 400 empty asphalt trailers are staged in the trailer storage area, and there are no on-site surface water bodies.

Table 3.1 provides an overview of physical setting and utility information for the site.

Table 3.1: Physical Setting and Utility Information		
Conditions	Source	Description
Topography		
Elevation (above mean sea level)	USGS topographic map (Southwest Columbia, SC, 1995); Google Earth	Ranges from approximately 200 feet near the northeastern boundary of the trailer storage area to 194 feet near the southern boundary of the emulsion plant.
Topographic Gradient	USGS topographic map; Visual observations	Relatively flat, with a very gentle downward slope to southeast. Regional topography slopes gently downward to the east.

² The asphaltic emulsion plant is comprised of parcels with four separate street addresses (i.e., 2700 William Tuller Drive; 2636, 2646, and 2646R Commerce Drive). The trailer parking area is comprised of a parcel with one street address (i.e., 2701 Commerce Drive).

Table 3.1: Physical Setting and Utility Information		
Conditions	Source	Description
Hydrology		
Surface Water Runoff	Visual observations; Facility personnel	At the emulsion plant facility, percolates into the ground surface at unpaved areas or enters an underground catchment tank that is pumped out into a holding tank. At the trailer storage area, percolates into the ground surface at unpaved areas then enters catch basins that discharge to the municipal storm sewer system.
Nearest Surface Water Body	USGS topographic map; Visual observations; 1996 Aquifer Testing report	Gill's Creek, a tributary to the Congaree River, located approximately 9,000 feet to the east, which flows into the Congaree River located approximately two miles to the south.
Flood Plain	FEMA*; Facility personnel	Facility personnel reported no known occurrences of flooding at the site.
Wetlands	NWI*	No on-site federally designated wetlands.
Geology and Hydrogeology		
Presumed Direction of Shallow Groundwater Flow	1996 Aquifer Testing report and Annual Groundwater Monitoring Reports	The general direction of shallow groundwater flow ranges from the south-southwest to the southeast at the Emulsion Plant and is assumed to be similar at the Trailer Parking Area.
Depth to Groundwater	1996 Aquifer Testing report	The water table occurs at a depth of approximately 7 to 11 feet beneath the emulsion plant.
On-site Wells	Facility personnel; Visual observations	Three monitoring wells are located on the emulsion plant facility. No wells are located on the trailer storage area.
Nearest Groundwater Supply Wells	EDR database report; Davis & Floyd documentation	Seven wells are identified within one mile surrounding the site in the EDR report; however, none of the downgradient wells appear to be used for drinking water purposes. According to documentation from Davis & Floyd, SEACO's environmental contactor, no drinking water wells have been identified near the emulsion plant facility.
Geologic Conditions	1996 Aquifer Testing report	The site is underlain by fine-to-medium-grained sand to depths of 15 to 18 feet.
Site Utility Information		
Electricity Supplier	Facility personnel	South Carolina Gas and Electric
Natural Gas Supplier	Facility personnel	South Carolina Gas and Electric
Use of Fuel Oil for Building Heat	Facility personnel	Fuel oil is currently used at the emulsion plant as backup fuel for the boiler.
Water Supplier	Facility personnel; City website	Columbia Water Works, which obtains its water from Broad River and Lake Murray.

Table 3.1: Physical Setting and Utility Information		
Conditions	Source	Description
Sanitary Sewer	Facility personnel	Columbia Metropolitan Wastewater System.
Septic Systems	Facility personnel	No current or former septic systems reported.
<p>Notes: FEMA = Federal Emergency Management Agency; NCSS = National Cooperative Soil Survey; NWI = National Wetlands Inventory * Source was provided in the EDR database report.</p>		

The facilities are located in a mixed industrial/residential land use area. The nearest residential areas are located adjacent west, north and east of the trailer storage area and approximately 360 feet northeast of the emulsion plant. Based on discussions with facility personnel, ENVIRON’s visual observations from the property boundary and public rights-of-way, and a limited review of publicly available information, a general determination of the current use of adjacent properties was developed, as described in Table 3.2.

Table 3.2: Current Use of Adjacent Properties		
Direction	Property/Land Use	ENVIRON’s Observations
North	A residential neighborhood is located north of the trailer storage area. A vacant lot is situated north of the emulsion plant, beyond which is the trailer storage area.	No apparent exterior manufacturing or chemical storage operations were observed during ENVIRON’s reconnaissance.
East	Vacant buildings and single family residences are located east of the trailer storage area and a warehouse leased by Buchanan Construction is located east of the emulsion plant.	No apparent exterior manufacturing or chemical storage operations were observed during ENVIRON’s reconnaissance.
South	A railroad and rail yard owned by CSX is located south of the emulsion plant. To the south of the trailer storage area is a vacant lot, beyond which, is the emulsion plant.	ENVIRON observed numerous rail cars, the contents of which are unknown, within the rail yard.
West	Accu Sweep and residences are situated west of the trailer storage area. A vacant building (former rug store) is located west of the emulsion plant facility.	ENVIRON observed several vehicles equipped with plastic tanks at the Accu Sweep facility. Unused equipment was observed with the fenced lot behind the Accu Sweep building.
<p>Notes: Observations were made by ENVIRON during the site visit. ENVIRON walked or drove by the borders of these properties that are shared with the subject site. ENVIRON did not enter the neighboring properties and was therefore unable to observe the rear and sides of the properties.</p>		

3.2 Historical Uses of the Site and Adjacent Properties

Based on ENVIRON's review of historical sources of information³ and discussions with facility personnel, by 1939, the western portion of the emulsion plant facility was developed by Durlane Gas Co. (which operated an office building and a gas tank at the location of the current vacant lot) and the central portion of the emulsion plant was operated by Carolina Concrete Block Co., which operated a metal working building at the approximate location of the former dispatch building; a woodworking building, a kiln, and warehouse at the approximate location of the current machine shop; and an oil warehouse at the approximate location of the mill building). The eastern portion of the emulsion plant facility was undeveloped land until it was developed by Colprovia Road Products Inc., (currently SEACO) in 1949. According to facility personnel, SEACO historically distributed home heating oil prior to approximately 1994; Tuller Oil Co (a division of SEACO) is listed in the 1986 and 1991 city directories at the emulsion plant address. The 1956 Sanborn map depicts two gas tanks adjacent to the southwestern corner of the current truck shop (at the location of the former home heating oil tanks, according to facility personnel) and several tar tanks in the approximate location of the current emulsion ASTs. On the 1965 Sanborn map, an auto repair company is depicted at the location of the dispatch/storage building, and a roofing materials warehouse is depicted at the location of the current maintenance building.

On historical aerial photographs from 1939 through 1970, the northern portion of the trailer storage area appears covered by grass and trees, and small clearings are visible on the southern portion of the area. According to facility personnel, in the 1970s and 1980s the trailer storage area was used for cast stone molding (e.g., poured cement siding and building facades). SEACO acquired the site in 1984 for trailer parking and constructed the covered truck parking structure. The 1996 city directory lists SEACO garage as the occupant.

The properties in the vicinity of the site have primarily been used for industrial purposes since at least the 1950s. Notable operations on surrounding properties include automobile repair, metal fabrication, and a rail yard.

A discussion of potential soil and groundwater contamination findings associated with historical uses of the site is presented in Section 3.7.

3.3 Current Use of Site

SEACO employs approximately 40 individuals in the manufacture and transport of asphaltic emulsions. According to facility personnel and SEACO's listings on environmental databases, the Standard Industrial Classification (SIC) code to describe the emulsion plant and cold mix asphalt operations is 2951, *Asphalt Paving Mixtures and Blocks*; the corresponding North American Industry Classification System (NAICS) code is 324121, *Asphalt Paving Mixture and*

³ ENVIRON reviewed the following sources of historical information: historical aerial photographs (1939, 1955, 1961, 1966, 1970, 1981, 1989, 1994, 1999, 2005, 2006, and 2010); historical topographic maps (1944, 1972, 1981, 1982, and 1994); city directory abstracts (1952, 1964, 1971, 1976, 1981, 1986, 1991, 1996, 2001, 2006, and 2011); and Sanborn fire insurance maps (1950, 1956, and 1965).

*Block Manufacturing.*⁴ Operations at the emulsion plant facility are conducted in two shifts, five days per week, fluctuating on a seasonal basis. The major operations conducted at the emulsion plant and trailer storage area are described in more detail below.

Emulsion Plant

- *Receiving* – The majority of raw materials (i.e., caustic, fuel oil, tall oil [a product of wood pulp], acid, surfactants, and liquid asphalt) are received in tank trucks and offloaded into ASTs at various offload stations. Emulsifiers are received in drums or totes.
- *Main Processing* – Two primary types of asphaltic emulsion are produced. Anionic emulsion is composed of caustic soda ash, tall oil, and emulsifiers which, are metered into a mix tank then conveyed via piping to one of two mills in the mill house for blending with liquid asphalt. The resulting emulsion is then conveyed via above-ground piping to a storage tank. Similarly, cationic emulsion, which is composed of hydrochloric acid and surfactants and fuel oil, is made by blending the ingredients with liquid asphalt in a mill. The on-site boiler is used to maintain the asphalt and emulsions at a liquid state, and fuel oil is fed through the mill lines to prevent build-up of emulsion.
- *Ancillary Operations* – The facility also performs administrative operations, which do not involve the use of significant quantities of chemicals. Other ancillary operations conducted at the facility include operation of a small quality assurance testing laboratory, operation of one boiler, a truck/trailer wash station, trailer maintenance, and machinery maintenance. One parts washer unit, containing a petroleum-based degreaser, is located in each of the two maintenance shops. The facility maintains numerous diesel-powered vehicles, including eight road trucks (for hauling emulsion trailers), a tractor, a man lift, and two skid steers; the facility also utilizes three propane forklifts. The diesel-powered vehicles are fueled at the trailer storage area or at other off-site facilities. The office building is cooled with central air conditioning units and heated with electric heat.

Trailer Storage Area

- *Main Operations* – The site maintains a diesel/fuel oil AST for fueling SEACO's road trucks and other diesel-powered vehicles. Trucks are parked under the covered parking area at the southern portion of the site, while approximately 400 tank trailers are situated throughout the central and northern portion of the site. During winter months, SEACO's fleet of approximately 500 tank trailers are parked at this site and another off-site facility; however, during warmer months when road construction projects occur, significantly fewer tank trailers are stored at the trailer storage area.

According to facility personnel, SEACO's operations have remained generally consistent during its period of occupancy at the sites, although certain affiliated businesses (i.e., sale of home heating oil) have been discontinued over the years.

⁴ A formal determination of the most appropriate SIC/NAICS code for the site was beyond the scope of ENVIRON's review.

According to facility personnel, no chlorinated solvents are currently used at the facility. Facility personnel were not aware of any historical use of chlorinated solvents at the site.

3.4 Database Review for the Site and Surrounding Properties

ENVIRON reviewed the results of the state and federal environmental database searches performed by EDR (see Appendix B) and also reviewed information available in the South Carolina UST registry and BLWM public record database. The site is listed on nine environmental databases, as discussed in Table 3.4.

Table 3.4: Summary of Environmental Database Listings for the Site			
Listing Name or Address	Database	Comments	Reference for Further Discussion
Databases Related to Potential Site Conditions			
SEACO Inc (2700 William Tuller Dr)	Leaking Underground Storage Tanks (LUST)	A release of petroleum product from a UST at the emulsion plant was reported on June 30, 1993, and closure was issued on September 25, 1998. No further information regarding the nature of the release is provided in the listing.	Section 3.5.1 and Table 4.1
Databases Related to Regulatory Compliance			
Colprovia Asphalt- Columbia (2700 William Tuller Dr)	Aboveground Storage Tanks (AST)	Colprovia Asphalt, a division of SEACO, is listed as having two tank farms with five ASTs from 2,001- to 10,000-gallons and 16 ASTs from 10,001- to 42,000-gallons (with an actual storage amount of 837,450 gallons). The listing notes that the last inspection conducted by EPA was summer 1999. Although the listing name is under Colprovia Asphalt- Columbia, based on the number of ASTs, this listing appears as though it may pertain to the emulsion plant facility.	Section 3.5.2, Table 4.1
SEACO Inc (2700 William Tuller Dr)	Toxic Chemical Release Inventory System (TRIS)	For reporting year 2009, SEACO reported benzo(g,h,i)perylene on TRI forms.	Table 4.1
	Aerometric Information and Retrieval System (AIRS)	The emulsion plant is listed as operating with permit number 1900-0220.	Table 4.1
	Underground storage tank (UST)	The emulsion plant is listed with a 1,000-gallon abandoned gasoline UST and a 150-gallon abandoned waste oil UST.	Section 3.5.1 and Table 4.1

Listing Name or Address	Database	Comments	Reference for Further Discussion
SEACO, Inc. Asphaltic Emulsions (2700 William Tuller Dr)	FTTS and HIST FTTS	The emulsion plant and another off-site facility located at 1119 Airport Road, were inspected on 4/18/96 under EPCRA, and violations occurred, according to the listing.	Table 4.1
	Integrated Compliance Information System (ICIS)	The emulsion plant and another off-site facility located at 1119 Airport Road, were subject to an EPCRA enforcement action in April 2007 (Enforcement Action ID 04-2007-9126 and 04-2007-0109).	Table 4.1
SEACO Incorporated (2700 William Tuller Dr)	Facility Index System/ Facility Registration System (FINDS)	The emulsion plant is listed in FINDS (a pointer database) regarding its listings on other regulatory and compliance databases. Specifically, the site is listed in the Aerometric Information and Retrieval System Facility Subsystem (AFS), National Compliance Database (NCDB), South Carolina Environmental Facility Information System (SC-EFIS), Toxic Chemical Release Inventory System (TRIS), and ICIS. Additional information in ICIS, TRIS, and AFS is included above.	Table 4.1
SEACO Inc-Columbia (2700 William Tuller Dr)	Toxic Substances Control Act (TSCA)	In 2006, SEACO reported certain classifications of chemicals under TSCA.	N/A; a review of TSCA is not included in ENVIRON's scope

There are several listings in the EDR report for off-site facilities within applicable ASTM search radii. Several of these listings (e.g., hazardous waste generators, registered USTs, recycling centers), by themselves, are not necessarily indicative of an environmental concern and, therefore, are not discussed herein. A number of facilities appear on databases indicating potential contamination concerns (e.g., Comprehensive Environmental Response, Compensation and Liability Information System [CERCLIS], State Hazardous Waste Sites [SHWS], LUST, Brownfields,). Of the sites representing a potential environmental concern, only those facilities that are located adjacent to or upgradient of the property are discussed in Table 3.5 below.⁵ These facilities were selected for further discussion based on the assumption that a hazardous material released to the subsurface generally does not migrate laterally within the unsaturated soil for a significant distance, but a hazardous material can migrate in the groundwater in a generally downgradient direction; however, the direction of groundwater flow may be affected by localized topographic, hydraulic, and hydrogeologic conditions.

⁵ Shallow groundwater flow beneath the emulsion has been documented to vary from south-southwest to southeast. ENVIRON anticipates that the direction of shallow groundwater beneath the other parcels would be similar, assuming the groundwater gradient follows surface topography.

Table 3.5: Summary of Environmental Database Listings Potentially Indicative of Environmental Concern for Upgradient or Adjacent Properties to the Site			
Listing Name or Address	Database	Comments	Reference for Further Discussion
Bagnal Builders Supply Co Inc	LUST	The facility, located 800 feet northwest of the emulsion plant and west of the trailer storage area, is listed on the LUST database for a release of petroleum product from a UST in 2000. NFA status was issued in May 2000.	N/A, due to closed status
RUS of Columbia Inc.	LUST	The facility, located 0.4-miles to the west-northwest of the emulsion plant and trailer storage area, is listed on the LUST database for a 1993 release of petroleum from a UST. NFA status was issued on May 25, 1996.	N/A, due to closed status
Holt Drive Tract	SHWS and CERCLIS	The facility, located one-quarter mile to the northwest of the trailer storage area, is listed with EPA IDs SCS123457074 and SCN000410103. The facility is not on the NPL. A pre-CERCLIS screening was conducted on 4/22/2007.	Section 3.7
Rosewood Hills	SHWS	The facility, located 0.37-mile to the west-northwest of the emulsion plant and trailer storage area, is listed on the SHWS database with EPA ID SCS123457332. No further information is provided.	Section 3.7
Wiley St. Property	Brownfields	The 0.5-acre parcel is located one-quarter mile northwest of the emulsion plant and trailer storage area. The City of Columbia has received a grant for assessment of the parcel, and a Phase I ESA has been conducted.	Section 3.7

The EDR report indicates that poor or inadequate address information was available for several sites located in the vicinity of the property; therefore, these sites could not be readily mapped by EDR. Because the location of these sites with respect to the property could not be evaluated, ENVIRON is limited in its ability to express an opinion regarding the potential for impact to the property from these sites. It was beyond the scope of this review to accurately locate each of the unmapped sites identified by EDR; however, ENVIRON reviewed the list of unmapped sites and identified one that appeared to be adjacent to or possibly pertaining to the subject site. One unmapped listing, referred to as Airline Drive Asphalt Spill, is identified on the SHWS database with the EPA ID SCS123456944; no further information is provided. Airline Drive, which forms the southern boundary of Columbia Owens Downtown Airport, is located southeast (downgradient) of the Colprovia plant. Based on the material released and the proximity of Airline Drive to the site, it is unclear whether this listing actually pertains to Colprovia or to the airport. Facility personnel were not aware of this listing. Given that there is no apparent ongoing regulatory scrutiny of this matter and spills of asphalt do not represent a significant contamination concern, ENVIRON does not consider this unmapped listing to represent a potential contamination concern.

3.5 Materials Storage

3.5.1 Underground Storage Tanks

No current or historical USTs have been identified at the trailer storage area. Three known USTs operated by SEACO were formerly located at the emulsion plant facility. A 130-gallon waste oil UST was removed from inside the southern portion of the truck shop building in 1993 by the contractor Davis & Floyd. Closure documentation indicates that evidence of a release was observed, and the release was reported to SCDHEC on June 30, 1993. The emulsion plant facility is listed on the LUST database for the June 1993 release. In addition, a 1,000-gallon gasoline UST, installed in 1978, was removed from a location at the west side of the office building in May 1997 by Davis & Floyd. According to the closure report submitted to SCDHEC, no holes in the tank or soil staining were observed, and two soil samples collected at the bottom of the excavation did not indicate contamination above regulatory guidelines. The gasoline and waste oil USTs were registered with SCDHEC under UST permit #12813.

According to facility personnel, SEACO also operated an unregistered fuel oil UST of unknown size formerly located outside the eastern wall of the mill building. The years of the UST operation are unknown. Facility personnel indicated that in the early 1990s, the tank was emptied and subsequently used as a storm water catchment system; storm water that accumulated in the tank was pumped out for use in the asphalt mixing process. The tank was subsequently filled with concrete, and a new underground storm water cistern was installed. The former fuel oil UST is believed to be the source of the known petroleum groundwater contamination extending onto the adjacent CSX property to the south.

Further discussion of known petroleum contamination associated with the former USTs is presented in Section 3.7.

Although not considered to be a UST, one below-ground concrete pit is located in the truck shop at the emulsion plant to provide access to the under-side of trailers. Oil stains were observed in the pit, although the concrete appeared intact. Additionally, a trench drain is located in the truck wash bay on the east side of the office building; facility personnel indicated that the trench drains to the sanitary sewer.

3.5.2 Aboveground Storage Tanks

Sixty-four aboveground storage tanks (ASTs) are maintained at the emulsion plant facility and one AST is maintained at the trailer storage area. A summary of identified ASTs at each of the site parcels is provided in Table 3.6 below.

Table 3.6: Summary of Aboveground Storage Tanks		
Number of ASTs	Content	Volume (gallons)
Emulsion Plant Parcel		
20	Cationic Emulsion	15,000 to 25,000
9	Anionic Emulsion	15,000 to 25,000
10	Hot Mix Asphalt	34,000

Table 3.6: Summary of Aboveground Storage Tanks		
Number of ASTs	Content	Volume (gallons)
3	No. 2 Fuel Oil	5,000 to 20,000
1 each	Kerosene, New Motor Oil, Hydraulic Oil, Used Motor Oil	200 to 550
1	Permatec Emulsion	7,000
1	MQB	25,000
1	Caustic	7,800
1	Hydrochloric Acid	7,500
1	4819-3 Emulsifier	10,000
1	AA-75 Emulsion	15,000
1	Recycled Emulsion	15,000
Trailer Storage Area		
1	No. 2 Fuel Oil/Diesel	10,000

ASTs at the emulsion plant are staged within four tank farm areas located along the south-central portion of the site; a concrete secondary containment wall structure is situated along the downgradient side of the tank farm areas. The ground surface within the tank farm is largely unpaved and slopes toward the southeastern corner of the containment wall. In addition, an asphalt berm was constructed between the southern portion of the truck shop and the tank farm area to prevent excess storm water from draining into the tank farm area. The containment area basin has sufficient capacity to contain a spill of the largest AST, according to facility personnel. AST secondary containment requirements are further discussed in Table 4.1. Areas of localized staining were observed on the paved ground surface in the tank farm area, particularly around the pump house.

According to facility personnel and a document summarizing historic releases at the emulsion plant facility prepared by the former president of SEACO, numerous releases of asphaltic emulsion have occurred at the emulsion plant facility. In the late 1950s, approximately 4,000-gallons of emulsion were released when a valve came out of a tank. In about 1967, 2,500-gallons of emulsion was released when a tank trailer was punctured. In fall 1988, 1,500-gallons of emulsion overflowed onto the ground surface in front of the office when a loading operator fell asleep while loading a tank trailer. Remediation for the above-listed incidents consisted of adding stone to form a paving material that was spread to pave the yard; no emulsion left the emulsion plant facility during these incidents.

In spring 1988, 3,000-gallons of emulsion overflowed from an overheated tank onto CSX property. Granite sand was used to contain and cover the material, and in the summer the material was removed and used to pave the tank trailer storage area. An additional area of emulsion on the CSX property was discovered in summer 1990 when an unauthorized motorcyclist hit a patch of asphalt; the additional area of asphalt was then removed.

In 2006, a hot asphalt tank at the emulsion plant exploded when a welding torch ignited fumes in the tank (the tank had been flushed with #2 fuel oil). Facility personnel indicated that the force of the explosion blew out the vented top of the tank, and there were no releases of material because the tank was empty. Facility personnel also indicated that the fire department responded and allowed the fire to burn itself out because it was contained within the tank.

These release incidents are discussed further in Section 3.7.

The trailer storage area maintains a 10,000-gallon diesel fuel AST surrounded by a cinder block containment berm and associated fuel pump station situated inside the berm. The floor surface within the berm is covered with gravel, and grass was observed growing in the bermed areas although no significant staining was observed inside the berm. Facility personnel reported that there are no current or former underground transfer lines used to convey the materials from the tanks.

No evidence of releases from the ASTs at the trailer storage area was observed, and facility personnel indicated that they are not aware of releases from ASTs at this parcel.

3.5.3 Drum and Other Storage Areas

Several dedicated drum storage areas are maintained at the site. ENVIRON observed approximately 20 drums of asphaltic emulsion stored in the former dispatch building at the emulsion plant facility; the material is provided to customers as samples. Four drums of emulsifier and two totes of latex are stored in the maintenance shop, approximately 12 totes of emulsifier and several drums of motor oil and hydraulic fluid are stored in the truck shop, and three drums of a citrus-based cleaner are stored in a shed at the emulsion plant facility. Additionally, other chemicals are positioned at their points of use, such as drums of boiler water treatment chemicals. While secondary containment was not provided for all of the drums and totes, ENVIRON did not observe evidence of spills or uncontrolled releases from these storage areas, other than localized staining in some interior areas.

Retail-sized quantities of paints, lubricants, and cleaners were observed in the truck shop and in maintenance areas.

3.6 Polychlorinated Biphenyls

Facility personnel were not aware of any on-site equipment that is known to contain polychlorinated biphenyls (PCBs). There are currently three pole-mounted transformers at the emulsion plant; the units are owned by South Carolina Gas & Electric. The units are not labeled as to their PCB content. Because the installation date of the units is unknown and may predate the 1979 federal ban on the manufacture of PCBs, it is possible that the transformer oils contain PCBs. Because some of the buildings at the emulsion plant were constructed prior to the 1979 federal ban on the manufacture of PCBs, it is possible that hydraulic oils or other types of electrical equipment, such as capacitors, contain PCBs. ENVIRON observed no indication of leaks or releases from electrical equipment observed during the site visit.

3.7 Soil and Groundwater Conditions (Findings and Opinions)

ENVIRON conducted a Phase I ESA of the facility located at 2700 William Tuller Drive and 2701 Commerce Drive in Columbia, South Carolina. The objective of the ESA was to identify RECs, which the ASTM Standard defines as follows:

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. Conditions determined to be *de minimis* are not recognized environmental conditions.

Information on the soil and groundwater conditions at the site, as well as ENVIRON's findings and opinions, are presented in Sections 3.7.1 to 3.7.3 below.

3.7.1 Prior Environmental Activities

Based on a review of historical site documents and interviews with facility personnel, a number of prior environmental assessment, sampling, or remediation activities have been conducted at the emulsion plant, as described below; no investigation activities are known to have been conducted at the trailer storage area:

- **Investigation, Remediation, and Monitoring of Petroleum Impacts at the Emulsion Plant.** SCDHEC conducted a site investigation at the emulsion plant on June 26, 1990 in response to a complaint lodged by a dirt bike rider after he hit a patch of emulsion while riding on the CSX property south of the site. SCDHEC collected one soil and one surface water sample from within the CSX railroad right-of-way for laboratory analysis. Analytical results indicated the presence of #2 fuel oil and associated constituents (i.e., chlorobenzene, 1,2/1,3/1,4-dichlorobenzenes, ethylbenzene, and 2-methylnaphthalene) in soil⁶. Analysis of a surface water sample, the location of which is unknown, did not indicate the presence of contaminants. According to a 1992 Groundwater Quality Assessment report by Davis & Floyd, SEACO installed six groundwater monitoring wells (four installed on the CSX property adjacent south of the emulsion plant, one at the south-central portion of the emulsion plant, and one at the northeastern portion of the plant) to further investigate the presence of petroleum constituents). Analysis of groundwater for the presence of BTEX, naphthalene, and TPH indicated the presence of TPH-DRO as high as 547 milligrams per liter (mg/L), naphthalene as high as 150 µg/L, and total BTEX as high as 404 µg/L. Benzene was detected at concentrations up to 37 µg/L, which exceeded

⁶ SEACO did not provide any records of the 1990 SCDHEC investigation. ENVIRON has submitted an information request to SCDHEC to obtain all records associated with the SEACO facility; a response has not been received as of the date of this report.

the benzene maximum contaminant limit (MCL) of 5 µg/L. Although no liquid-phase petroleum was apparent at the time of initial groundwater sampling, subsequent groundwater sampling discovered the presence of LNAPL in MW-4, located immediately downgradient of a fuel oil UST (associated with the boiler) located near the southern site boundary. Further on-site investigation verified that the source of the free product did not originate upgradient of the boiler. The unregistered fuel oil UST was converted to a storm water collection tank in December 1992 and was subsequently filled with concrete in 2001. Two product recovery wells were installed on the CSX property and LNAPL recovery began in 1994. It is unclear when LNAPL recovery ceased, but no free product has been identified in any wells since 2009. Although the extent of impacts does not appear to have been delineated, SCDHEC appears to have approved a monitoring only approach and SEACO currently performs groundwater monitoring for only the parameter naphthalene at the four monitoring wells and two recovery wells located on the CSX property. Continued groundwater monitoring at the site for the presence of naphthalene is anticipated, as further discussed in Section 3.7.2.

- **1993 and 1997 UST Closures.** SEACO formerly maintained two registered USTs at the emulsion plant under the SCDHEC UST Program (UST Program Site ID #12813). One 130-gallon waste oil UST was excavated and removed from the southern portion of the truck shop at the emulsion plant facility in June 1993. Petroleum contamination was observed during the excavation and reported to SCDHEC on June 30, 1993. A Closure Assessment Report submitted to SCDHEC in July 1993 indicated that TPH-DRO was detected at concentrations of 500 mg/kg and 119 mg/kg in two soil samples collected from the base of the excavation; BTEX and naphthalene were not detected. In response to an application to the SCDHEC Site Rehabilitation SUPERB Program, SCDHEC confirmed that a release of regulated substances had occurred and that the site was eligible for compensation from SUPERB and issued the site a 5B priority classification; based on the 5B classification, money for additional site investigation was not available at the time. Because no funding was available, no further action was taken to address the release.

On May 14, 1997, a 1,000-gallon gasoline UST was removed from the northern portion of the emulsion plant facility, apparently in response to a SCDHEC UST Compliance Inspection Notice of Violation issued following a January 21, 1997 inspection. According to the UST Assessment Report submitted to SCDHEC on June 30, 1997, no pits or holes were observed during the excavation, and two soil samples were collected from either end of the excavation at a depth of 7.5 feet. The soil samples were analyzed for BTEX, naphthalene, and PAHs; one sample contained naphthalene at 0.03 mg/kg; all other parameters were BDL for both samples.

In August 1997, SEACO received a notification that SUPERB funds for an Initial Ground Water Assessment were made available for 5B sites. Davis & Floyd subsequently submitted an Initial Ground-Water Assessment (IGWA) Report in September 1998, which included additional assessment of the former gasoline UST, but did not include additional assessment of the former waste oil UST, which was the release reported in June 1993 that triggered the IGWA process. According to the IGWA, one groundwater monitoring well (i.e., IGWA-1) was drilled to a depth of 10.78 feet directly south of the excavated 1,000-

gallon gasoline UST. Analysis of one soil sample for VOCs and one groundwater sample for BTEX, naphthalene, and PAHs did not indicate the presence of petroleum constituents.

Despite the fact that no further investigation of the former waste oil UST was conducted, it appears that an NFA determination was issued on September 25, 1998 following submittal of an IGWA report relating to the former gasoline UST. The IGWA confirmed the absence of impacts near the former gasoline UST, but did not include any investigation of the waste oil tank. Therefore, it appears that SCDHEC may have inadvertently provided the NFA determination for the former waste oil UST instead of the former gasoline UST. Given the previous detection of contamination within the waste oil UST excavation and the lack of any apparent follow-up investigation, residual petroleum impacts associated with the 130-gallon waste oil UST may still be present in the soil or groundwater. Potential impacts associated with the former waste oil tank are further discussed in Section 3.7.3 below. Because no evidence of a release was discovered in connection with the former gasoline UST, the former gasoline UST is not discussed further.

Based on the above-described environmental activities at the emulsion plant, a review of site-related documents, and ENVIRON's site observations, a few known and potential site contamination findings have been identified. These findings are described in more detail in Sections 3.7.2 and 3.7.3.

3.7.2 Known Site Conditions

As noted above, SEACO is currently monitoring petroleum-contaminated groundwater at the emulsion plant, the cause of which is suspected to be a fuel oil UST formerly located at the south-central portion of the emulsion plant. The following known contamination conditions were identified in relation to the site.

- **Known Petroleum Contamination at Emulsion Plant.** As noted above, in 1992, petroleum constituents at levels above the MCLs and SCDHEC RBSLs were discovered in groundwater monitoring wells adjacent south of the emulsion plant, and the source of the contamination is believed to be a former fuel oil UST associated with a boiler formerly located in the mill building. The fuel oil UST was emptied and taken out of service on December 30, 1992, and free product recovery was conducted at two recovery wells installed on the CSX property. According to data contained in subsequent groundwater monitoring reports, concentrations of benzene and naphthalene have demonstrated a slight, steady decrease over time, and LNAPL has not been detected in any wells since 2009. Based on regulatory correspondence, it appears that naphthalene is the primary constituent of concern and that SCDHEC has approved a monitoring only approach to address the release. Based on the most recent groundwater monitoring report, naphthalene was detected in three wells at concentrations exceeding the SCDHEC RBSL of 25 µg/L.

Based on the known exceedances of the SCDHEC RBSL for naphthalene in groundwater, ENVIRON characterizes the known petroleum contamination at the emulsion plant as a REC.

- **Exterior Ground Staining.** At the time of the site visit, ENVIRON observed several areas of oil-stained gravel/soil at areas of truck parking and driveway areas at the emulsion plant

and trailer storage area. Additionally, ENVIRON observed what appeared to be evidence of emulsion staining at areas of the emulsion plant. The individual stains were less than four square feet in area. Based on the limited areal extent of the staining, ENVIRON considers this matter to represent a *de minimis* condition.

3.7.3 Potential Site Conditions

ENVIRON observed the facility to have adequate chemical storage practices, and facility personnel were not aware of any current or former use of chlorinated solvents. ENVIRON identified the following findings relating to potential site conditions:

- **Historical Release Associated with 130-gallon UST at Emulsion Plant.** As discussed in Section 3.7.1 above, a 130-gallon waste oil UST was excavated and removed from the southern portion of the truck shop at the emulsion plant facility in June 1993. Petroleum contamination was observed during the excavation and reported to SCDHEC. According to the Full Closure Assessment Report submitted to SCDHEC, soil samples collected from the bottom of the excavation contained TPH-DRO at a maximum concentration of 500 mg/kg, which is considered a release of regulated substances by SCDHEC. No known soil excavation was performed, according to facility personnel, and no known subsequent subsurface investigations related to the waste oil UST release have been conducted. Despite the fact that no further investigation was conducted, it appears that a NFA determination was granted on September 25, 1998 following submittal of an IGWA report relating to a former gasoline UST. The IGWA confirmed the absence of impacts near the former gasoline UST but did not include any investigation of the waste oil tank. Therefore, it appears that SCDHEC may have inadvertently provided the NFA determination for the former waste oil UST instead of the former gasoline UST. Given the previous detection of contamination within the waste oil UST excavation pit and the lack of any apparent follow-up investigation, residual petroleum impacts associated with the 130-gallon waste oil UST may still be present in the soil or groundwater. Although this matter is not considered a REC, absent more recent sampling data in the area of the former UST, ENVIRON cannot rule out the possibility that residual petroleum-impacted soil remains.
- **Other Potential Petroleum Impacts at the Emulsion Plant Parcel.** Various raw materials are staged in ASTs within bare ground containment structures at the emulsion plant parcel. Although releases of asphaltic materials within such bare ground containment structures are unlikely to result in soil or groundwater impacts, the release of less viscous products, such as No. 2 fuel oil, could potentially result in adverse impacts to underlying soil or groundwater. Although this matter is not considered a REC, given the duration of operations at the site, ENVIRON cannot rule out the possibility that inadvertent releases of No. 2 heating oil or other substances may have resulted in soil or groundwater impacts.
- **Historical Operations of the Emulsion Plant.** The emulsion plant parcel has been used for various industrial purposes from prior to 1939 and was developed for use by SEACO in 1949. The former industrial operations included activities conducted by Durlane Gas Co. and Carolina Block Co., as well as metal working, woodworking, operation of a kiln, use of an oil warehouse, auto repair, and distribution of home heating oil. The former industrial operations likely included the use of petroleum products, heavy metals, paints, solvents,

and other chemicals. The historical handling, disposal, and use of these chemicals were not strictly regulated, controlled, or monitored during the site's early operational history. It is possible that spills or releases of these chemicals may have adversely affected the soil and groundwater conditions at the site. As discussed above, limited subsurface investigation activities have been conducted in certain areas of the site (i.e. near the former waste oil UST, gasoline UST, and downgradient of the former fuel oil UST). However, no site-wide subsurface characterization activities targeting the areas of historical industrial site use are known to have been performed. Although this matter is not considered a REC, absent further information regarding the specific nature of historical chemical use, chemical handling practices, and associated wastes, it is possible that spills or releases of these chemicals may have adversely affected the soil and groundwater conditions at the site.

- **Potential Petroleum Impacts at the Trailer Storage Facility.** Diesel fuel is staged in an AST within a bare ground containment structure at the trailer storage facility. Historical releases of diesel fuel could potentially result in adverse impacts to underlying soil or groundwater. Although this matter is not considered a REC, given the duration of operations at the site, ENVIRON cannot rule out the possibility that inadvertent releases of diesel fuel may have resulted in soil or groundwater impacts.
- **Potential Impact from Nearby Properties.** Three properties (i.e., Rosewood Hills, Wiley St. Property, and the Holt Drive Tract), located one-quarter to one-half mile upgradient and northwest to north-northwest of the emulsion plant and trailer storage parcels, are listed on regulatory databases potentially indicative of contamination, including the Solid Hazardous Waste Site (SHWS), CERCLIS, and/or Brownfields databases. Although this matter is not considered a REC, there has been no apparent regulatory impetus to investigate whether contamination from any of the three properties has migrated to the site.
- **Pavement and Floor Staining.** ENVIRON observed multiple areas of exterior pavement and interior flooring where oil stains were apparent at the emulsion plant. In addition, pooling of a fuel oil/asphalt mixture was observed on the concrete floor of the mill building at the emulsion plant. The stains were limited in areal extent, the pooled fluid was being managed with sorbent materials, the underlying pavement/flooring appeared to be intact, and no stains or fluid appeared to reach floor drains or storm water drains. As such, ENVIRON considers this matter to represent a *de minimis* condition.

3.8 Analysis of Data Gaps

The Phase I ESA component of this review was conducted in accordance with the methodology specified in ASTM Standard E1527-05, as agreed upon by ENVIRON and Associated Asphalt in December 2011. The standard ASTM scope was expanded to include a limited review of regulatory compliance, asbestos-containing materials, and off-site waste management facilities. Issues considered outside the scope of the ASTM Standard and this review include radon, lead-based paint, lead in drinking water, wetlands, PCBs in building materials, cultural and historic resources, ecological resources, endangered species, and high voltage power lines.

The ASTM Standard defines a data gap as “a lack of or inability to obtain information required by the practice despite good faith efforts by the environmental professional to gather such

information.” A data gap is only significant if other information obtained during the ESA, or professional experience, raises reasonable concerns and affects the ability of the environmental professional to identify whether a given issue is a REC. The ASTM Standard requires that the ESA report identify and comment on significant data gaps. As such, this section also provides a discussion of issues with significant data gaps, if any, that were identified as part of this assessment.

Site reconnaissance limitations and exceptions to the ASTM Standard for the assessment are discussed below.

- Due to extended age of the site, it was not possible to interview representatives dating back to the site’s first developed use before 1939. However, ENVIRON conducted interviews with representatives of SEACO dating back to 1970 and reviewed other historical sources regarding former uses of the property.
- Historical information, such as aerial photographs, was not readily available to characterize the site from the present back to the property’s obvious first developed use or 1940, whichever is earlier. The earliest readily available historical source that would indicate specific site uses is an aerial photograph dated 1939, which shows that at least a portion of the emulsion plant was already developed with buildings.
- As it is a user requirement, ENVIRON did not conduct a review of records to identify environmental liens or activity and use limitations (AULs) imposed by judicial authorities with respect to the property.

None of the exceptions, deletions, deviations, or site reconnaissance limitations noted above are considered to represent significant data gaps.

4 Environmental Compliance and Other Matters

4.1 Environmental Compliance Review

The facility holds an environmental permit for air emissions. The site also submits chemical inventory reports to federal and state agencies and maintains a number of environmental plans and procedures. As noted in Section 3.4, SEACO is listed on the following environmental databases related to regulatory compliance matters: TSCA, AST, TRIS, AIRS, UST, FTTS, ICIS, and FINDS.

A summary of ENVIRON's review of environmental compliance matters at the facility is presented in Table 4.1 at the end of this section. This table also summarizes ENVIRON's limited review of occupational health and safety matters, which included a search of the OSHA Establishment Search database and discussions with facility personnel regarding any recent OSHA inspections and enforcement actions. A review of the facility's compliance with OSHA programs was not included in ENVIRON's scope of work.

4.2 Asbestos-Containing Materials (ACM)

Although an asbestos inspection in conformance with established protocols as outlined in 40 CFR §763 or other applicable state or local regulations and sampling of suspect building materials was beyond ENVIRON's scope of work, limited visual observations of building materials to identify the possible presence of presumed asbestos containing materials (PACM) as identified in the OSHA regulations was conducted during the site visit. OSHA's definition of PACM is limited to thermal system insulation (TSI) and surfacing materials present in buildings constructed before 1981. Vinyl floor tiles are not considered PACM, but OSHA nonetheless requires that asphalt and vinyl floor tiles present in buildings constructed before 1981 be treated similarly to PACM.⁷

Because the majority of buildings at the emulsion plant were constructed prior to 1981 and an asbestos survey has not been conducted, TSI, surfacing materials and floor tiles must be treated as PACM. ENVIRON observed such materials (e.g., TSI associated with the boilers and piping) during the site visit. Additional PACM may also be concealed behind solid structures, enclosures or other building components, an evaluation of which was beyond the scope of this assessment. Other suspect ACM (e.g., ceiling tiles, roofing materials) may also be present at the facility; however, the OSHA requirements for PACM do not apply to these materials. In order to more fully evaluate the presence or absence of ACM at the site, a comprehensive asbestos survey would be necessary.

SEACO is required by OSHA to identify those materials, if any, that may have been installed prior to 1981, and treat these materials as PACM or known ACM. OSHA regulations also require that facilities with PACM or known ACM comply with certain employee notification, training, labeling and recordkeeping requirements (29 CFR §1910.1001(j)) and housekeeping

⁷ Other materials that could contain asbestos (e.g., ceiling tiles, roofing materials) and that are present in buildings constructed before 1981 are referred to herein as "suspect" ACM and are not generally subject to OSHA requirements for ACM and PACM unless they have been confirmed, or are suspected, to contain asbestos.

programs (1910.1001(k)). The Company has not developed asbestos training programs, labeled ACM or PACM, or maintained appropriate records, as required.

4.3 Off-site Waste Disposal Assessment

Based on ENVIRON’s review of the CERCLA-PRP database, a review of facility records, and discussions with facility personnel, SEACO has not been identified as a Potentially Responsible Party (PRP) at off-site waste disposal sites.

Based on discussions with facility personnel regarding current and former waste disposal facilities, ENVIRON identified several off-site waste management facilities that have received SEACO’s wastes, as noted in Table 4.2.

Table 4.1: Summary of Known Off-site Disposal Facilities			
Off-site Waste Management Facility	Waste Disposed at Facility	CERCLIS Database Listings	
		Active	Archived*
Allied Waste Services West Columbia, SC	General trash	No Listing Found	No Listing Found
Heritage- Crystal Clean Cayce, SC	Parts washer solvent	No Listing Found	No Listing Found
OmniSource Recycling Columbia, SC	Scrap metal	No Listing Found	No Listing Found
Havird Columbia, SC	Used oil	No Listing Found	No Listing Found

Key: DR = Deferred to Resource Conservation and Recovery Act (RCRA); DS = Site Discovery; PA = Preliminary Assessment; NFRAP = No further remedial action planned; RA = Removal Assessment; SI – Site Inspection
* According to the USEPA website, the Archive designation indicates the sites at which the USEPA has no further interest under the Federal Superfund Program based on available information. The USEPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available.

ENVIRON searched for the above-listed facilities on the USEPA’s CERCLIS database. According to ENVIRON’s search, none of the disposal facilities searched were identified as being archived or active CERCLIS sites.

Table 4.2: Summary of Regulatory Compliance Matters		
Compliance Area	Description	ENVIRON's Conclusions
Air Emissions	<p><u>Overview and Permitting</u> Air emissions at the emulsion plant consist primarily of combustion products from the facility's natural gas fired boiler that utilizes #2 fuel oil as a backup fuel. There are no air pollution control devices at the emulsion plant.</p> <p>The emulsion plant maintains an air operating permit (1900-0220, minor source operating permit) issued on April 9, 2008 by SCDHEC, expiring March 31, 2018. The permit establishes the following emissions limitations for the operation of a 4.185 mmBTU/hr natural gas and #2 fuel oil-fired boiler that was installed pre-2003: 0.6 lb/mmBTU for PM; 3.5 lb/mmBTU for SO₂; and 20% opacity. The permit also requires that modeling be conducted to demonstrate that the emulsion plant's operation will not interfere with the attainment or maintenance of state or federal ambient air standards, that permit-related records be maintained for at least five years, and the sulfur content of the #2 fuel oil be less than or equal to 0.5%. The permit also indicates that the emulsion plant's 4.185 mmBTU/hr natural gas-fired boiler and fuel oil storage tank are specifically exempt from permitting. Based on information provided by facility personnel and contained in the permit documentation, the site appears to be in substantive compliance with the permit requirements.</p> <p><u>Area Source NESHAP Standards</u> The USEPA has developed National Emission Standards for Hazardous Air Pollutants (NESHAP) for area sources, which apply to any site that conducts covered operations, irrespective of whether the site triggers major source thresholds. Although a NESHAP has been developed for Asphalt Processing and Asphalt Roof Manufacturing, the rule does not appear to apply to the emulsion plant because asphalt refining is not conducted at those facilities (i.e., liquid asphalt is purchased as a raw material).</p> <p><u>RMP</u> Title III of the Clean Air Act requires that a facility develop a Risk Management Program (RMP) if it stores one or more listed toxic or flammable substances in excess of substance-specific thresholds. Based on the information provided to ENVIRON by facility personnel, it does not appear that the facility is subject to RMP requirements.</p>	No issues identified.

Table 4.2: Summary of Regulatory Compliance Matters		
Compliance Area	Description	ENVIRON's Conclusions
	<p><u>Compliance History and Database Listings</u> According to the EDR report and Envirofacts and ECHO databases, SEACO's emulsion plant is listed in the AIRS database with a minor operating permit. No current or historic violations are noted.</p>	
Greenhouse Gas (GHG) Reporting	<p>The USEPA's GHG Reporting Rule (40 CFR Part 98) applies to owners and operators of facilities in certain source categories and/or that have GHG emissions that exceed certain GHG emission thresholds. Based on ENVIRON's review, it is unlikely that SEACO is subject to these requirements because it does not meet any of the criteria specified in the rule. Further, based on SEACO's reported annual fuel usage (a combined 27 MCF natural gas for both the emulsion plant and another, separate facility not included as part of this assessment), annual emissions of CO₂ are unlikely to exceed the 25,000 mt applicability threshold.</p>	No issues identified.
Process Wastewater Discharges	<p><i>Emulsion Plant:</i> Process wastewater generated by the emulsion plant consists of vehicle wash water, boiler blowdown, and air compressor condensate; additionally, during especially heavy rain events, storm water collected in an underground cistern is pumped into the vehicle wash bay. Vehicle wash water, which is generated in the wash bay, and boiler blowdown, are discharged to the sanitary sewer. Air compressor condensate is discharged to the ground surface.</p> <p>SEACO does not maintain a wastewater discharge permit at the emulsion plant; no process wastewater is generated at the trailer storage area. Facilities within certain industrial categories that discharge to wastewater treatment plants or surface waters are subject to federal pretreatment standards. The categorical pretreatment standard 40 CFR §443, <i>Effluent Limitations Guidelines for Existing Sources and Standards of Performance and Pretreatment Standards for New Sources for the Paving and Roofing Materials (Tars and Asphalt) Point Source Category</i>, contains effluent limitation guidelines for facilities that produce asphalt emulsion (Subpart A) and asphalt concrete (Subpart B). The rule is unclear as to whether the wastewater produced at the emulsion plant would be subject to this categorical pretreatment standard. Subpart A may cover pollutants present in storm water at the emulsion plant. The applicability of categorical pretreatment standard 40 CFR §443 and the potential requirement for a wastewater treatment permit may require a determination by both USEPA and the local publicly owned treatment works (POTW).</p>	<p>It is unclear whether the NPDES categorical pretreatment standard 40 CFR §443, which is applicable to sources of paving and roofing materials, applies to wastewater produced at the emulsion plant; a determination by both USEPA and the POTW may be required. Also, NPDES regulations require that a permit be obtained for discharges of pollutants, such as the oils that may be present in the air compressor condensate, to the ground surface. Thus, a regulatory agency could require that a permit be obtained for the condensate discharge at the emulsion plant, which the facility has not done.</p>

Table 4.2: Summary of Regulatory Compliance Matters		
Compliance Area	Description	ENVIRON's Conclusions
	Facility personnel reported that its operations at the site have never been subject to a regulatory inspection regarding wastewater discharges. The facility is not listed in the EDR report, Envirofacts database, or ECHO database with respect to wastewater issues.	
Storm Water Discharges	<p>Storm water at the emulsion plant percolates into the ground surface at unpaved areas and collects in an underground cistern, which is pumped into holding tanks for use in the process or is pumped to the sanitary sewer. Storm water at the trailer storage areas enters four catch basins that discharge to the storm sewer. Based on the SIC code of the operations, the emulsion plant is subject to federal storm water permitting requirements.</p> <p>SEACO submitted a Notice of Intent (NOI) for coverage of the emulsion plant and trailer storage area under the SCDHEC storm water permitting program in 2011 and was issued general permit number SCR000000, which became effective on January 1, 2011 and expires on January 1, 2016. The permit requires that the site prepare a Storm Water Pollution Prevention Plan (SWPPP), conduct periodic inspections, and periodic visual storm water monitoring, and initial benchmark monitoring. Facility personnel have prepared a SWPPP and conduct visual inspections. Facility personnel indicated that benchmark monitoring has not yet been conducted because the site has not experienced a significant rain event while facility personnel trained to collect the bench mark samples were present; ENVIRON observed the sampling bottles and cooler maintained on-site. Based on ENVIRON's review, the site appears to be in substantial compliance with the permit requirements.</p>	No issues identified.
Hazardous Waste Management	<p>Based on ENVIRON's review and interviews with facility personnel, the facility does not generate hazardous waste (other than small amounts of universal waste, as detailed below). As such, requirements specific to hazardous waste generators (e.g., training, document management, storage area specifications) do not apply.</p> <p><u>Universal Waste</u> Universal wastes generated on-site include used batteries, which are exchanged for a core charge, and a limited amount of fluorescent bulbs, which are disposed with the general trash. Under federal RCRA regulations, it can be permissible for sites that do not generate hazardous waste to dispose of hazardous waste (and therefore universal waste) at RCRA-permitted landfills, including municipal landfills, although disposal at hazardous or universal waste facilities is preferred.</p>	No issues identified.

Table 4.2: Summary of Regulatory Compliance Matters		
Compliance Area	Description	ENVIRON's Conclusions
	<p><u>Compliance History and Database Listings</u> Facility personnel indicated that the Company's operations at the site have never been the subject of a federal or state inspection related to hazardous waste matters. The facility is not listed in the EDR report, Envirofacts database, or ECHO database with respect to hazardous waste issues.</p>	
Nonhazardous Waste Management	<p>Nonhazardous waste generated at the site consists of general trash, used oil, scrap metal, and parts washer solvent. General facility trash is collected in an on-site dumpster for collection by Allied Waste. Used oil is collected in drums at the emulsion plant for off-site management by Havird. Scrap metal is collected at the emulsion plant for recycle by OmniSource Recycling. Parts washer solvent, generated at the emulsion plant, is collected by Heritage-Crystal Clean for recycling.</p>	No issues identified.
Spill Prevention, Control, and Countermeasure (SPCC) and Facility Response Plan (FRP)	<p>The amount of oils and petroleum products stored aboveground at the emulsion plant and trailer storage area exceeds 1,320 gallons; therefore, the facilities are subject to federal SPCC requirements. As required, SEACO has prepared an SPCC plan that incorporates these facilities. The plan was most recently revised in October 2007 and is certified by a Professional Engineer. The SPCC plan appears to reflect current site conditions and contain the required elements. Facility personnel indicated that SEACO's environmental contractor Davis & Floyd is scheduled to update the SPCC plan in 2012 and will create a separate plan for each facility at that time.</p> <p>The SPCC regulations require that subject sites conduct and document routine visual inspections according to the frequency established in the site's plan. Facility personnel indicated that SPCC inspections are conducted monthly, and the facility maintains records of the inspections, as required. In addition, the site does not conduct integrity testing for drums and tanks on a regular schedule. The SPCC regulations allow sites to implement a visual monitoring program of tanks and drums in lieu of conducting integrity tests, provided that the site's SPCC plan provides a detailed discussion on the visual inspections as well as the rationale for why visual monitoring is an appropriate substitution for integrity testing.</p> <p>The Oil Pollution Prevention regulation also requires the development of a Facility Response Plan (FRP) for facilities that may pose "substantial harm," based on criteria such as total oil storage capacity of greater than or equal to one million gallons, combined with factors such as insufficient secondary containment for each AST area and distance from</p>	No issues identified.

Table 4.2: Summary of Regulatory Compliance Matters		
Compliance Area	Description	ENVIRON's Conclusions
	sensitive environments. Based on the combined capacity of the ASTs at the emulsion plant site, it does not appear that SEACO currently exceeds the one million gallon threshold for oil and oil-containing materials. However, in the event that additional storage capacity is added, SEACO may wish to evaluate the applicability of a FRP at that time.	
UST and AST Registration	Numerous fuel oil, emulsion, asphalt, and other raw material ASTs are maintained at the site. SCDHEC does not require that these ASTs be registered.	No issues identified.
Water Withdrawal and Safe Drinking Water Act (SDWA)	All water used at the site is supplied by the municipal water provider, and SEACO does not directly withdraw water from site groundwater or from surface water bodies. Thus, the site is not subject to any state-imposed water withdrawal requirements or federal SDWA requirements.	No issues identified.
Emergency Planning and Community Right to Know Act (EPCRA)	<p>Based on information provided by facility personnel, it appears that chemical storage at the site exceeds chemical storage and usage thresholds above which chemical inventory reporting (i.e., Tier II and TRI) would be required under EPCRA regulations, as detailed below. However, it was beyond the scope of ENVIRON's review to conduct a detailed chemical analysis to determine the full universe of materials at the site that may be subject to EPCRA reporting obligations.</p> <p><u>Tier II Reporting:</u> Tier II chemical inventory forms are required to be submitted to emergency response agencies for all hazardous chemicals present at a facility in quantities of 10,000 pounds or greater, and for all extremely hazardous substances (EHS) in quantities greater than or equal to 500 pounds or the threshold planning quantity, whichever is less. For purposes of Tier II reporting, a hazardous chemical is defined as any material for which OSHA requires a MSDS. The site appears to be subject to Tier II reporting requirements. Specifically, the emulsion plant maintains greater than 10,000 pounds of hazardous chemicals (namely, liquid asphalt, emulsion agent, asphalt emulsion, butonal, caustic soda, #2 fuel oil, hydrochloric acid, cationic emulsifier, anionic emulsifier, tall oil/MQB, and copolymer latex). The site has submitted Tier II reports for these materials.</p> <p><u>TRI Reporting:</u> The Toxic Release Inventory (TRI, otherwise known as Form R or Form A) requirements apply to certain sites within certain NAICS codes that have 10 or more full-time employees.</p>	No issues identified.

Table 4.2: Summary of Regulatory Compliance Matters		
Compliance Area	Description	ENVIRON's Conclusions
	<p>The site is potentially subject to TRI requirements because its NAICS code (324121) is among those that are subject to the regulation and greater than 10 employees work at the site. Based on information provided by facility personnel, the facility processes or manufactures greater than 10 pounds of benzo(g,h,i)perylene, which is a listed persistent, bioaccumulative, and toxic (PBT) compound under Section 313 of EPCRA. Therefore, the site is required to submit annual TRI reporting forms to the USEPA for this chemical. The site submits TRI reports.</p> <p><u>Database Listings</u> Based on information provided in Envirofacts, the emulsion plant historically reported methanol on Form R reports from 1997 to 2005; facility personnel indicated that methanol is no longer used. According to the emulsion plant's listing in the EDR report and in Envirofacts, the facility was subject to enforcement actions in 1997 and 2007 for EPCRA violations. Although facility personnel were not aware of the 2007 enforcement action, facility personnel indicated that in 1997, the site was subject to an unannounced EPCRA inspection by USEPA, and a Notice of Violation (NOV) was issued for failure to submit Tier II reports. All issues regarding the NOV have been resolved, according to facility personnel.</p>	
Ozone-Depleting Substances	<p>Regulations under the CAA require that companies use certified technicians for certain repair/maintenance actions (e.g., refrigerant refilling/removal and connection of hoses/gauges) on cooling and refrigeration equipment. The units at the site are maintained by certified technicians, as required.</p> <p>Facility personnel did not know the amount or type of refrigerant used in the units, but based on the small size of the units, they are likely to contain less than 50 pounds of refrigerant. Thus, the facility is not subject to CAA regulations regarding to the maintenance of servicing records or the conduct of leak calculations.</p>	No issues identified.
Noise and Odors	<p>Although the detection of noise and odors is dependent on the weather conditions and ongoing operations at the time of the site visit, ENVIRON did not note strong odors or excessive noise in exterior areas at the site. According to facility personnel, complaints have on occasion been received from neighboring facilities in the summer regarding odors emanating from the emulsion plant, but no violations have ever resulted for odors.</p>	Facility personnel indicated that complaints have on occasion been received from neighboring facilities in the summer regarding odors emanating from the emulsion plant, but no violations have ever resulted for odors.

Table 4.2: Summary of Regulatory Compliance Matters		
Compliance Area	Description	ENVIRON's Conclusions
Occupational Safety and Health	According to facility personnel and the OSHA Establishment Search database, the emulsion plant facility was inspected by OSHA on November 22, 2005. Five initial violations were issued; however, following an informal conference, the violations were reduced to one (for flammable and combustible liquids) resulting in a \$350 fine. The inspection has since been granted closed status.	No issues identified.

5 References

5.1 Documents

Davis & Floyd, Inc. 1992. "Groundwater Quality Assessment Report, SEACO, Inc. Facility, Columbia, South Carolina." June 1.

Davis & Floyd, Inc. 1996. "Report of Aquifer Testing and Groundwater Monitoring, SEACO, Inc. Facility, Columbia, South Carolina." October 30.

Davis & Floyd, Inc. 2011. "2011 Annual Routine Groundwater Monitoring, Site No. 13688, SEACO, Inc., Columbia, South Carolina." July.

EDR. 2012. "Certified Sanborn® Map Report, Inquiry Number 3237245.2." January 10.

EDR. 2011. "EDR Historical Topographic Map Report, Inquiry Number 3230541.4." December 27.

EDR. 2011. "The EDR Aerial Photo Decade Package, Inquiry Number 3230541.5." December 28.

EDR. 2012. "The EDR-City Directory Abstract, Inquiry Number 3237245.3." January 12.

EDR. 2012. "The EDR Radius Map™ Report with GeoCheck®, Inquiry Number 03237245.1r," January 17.

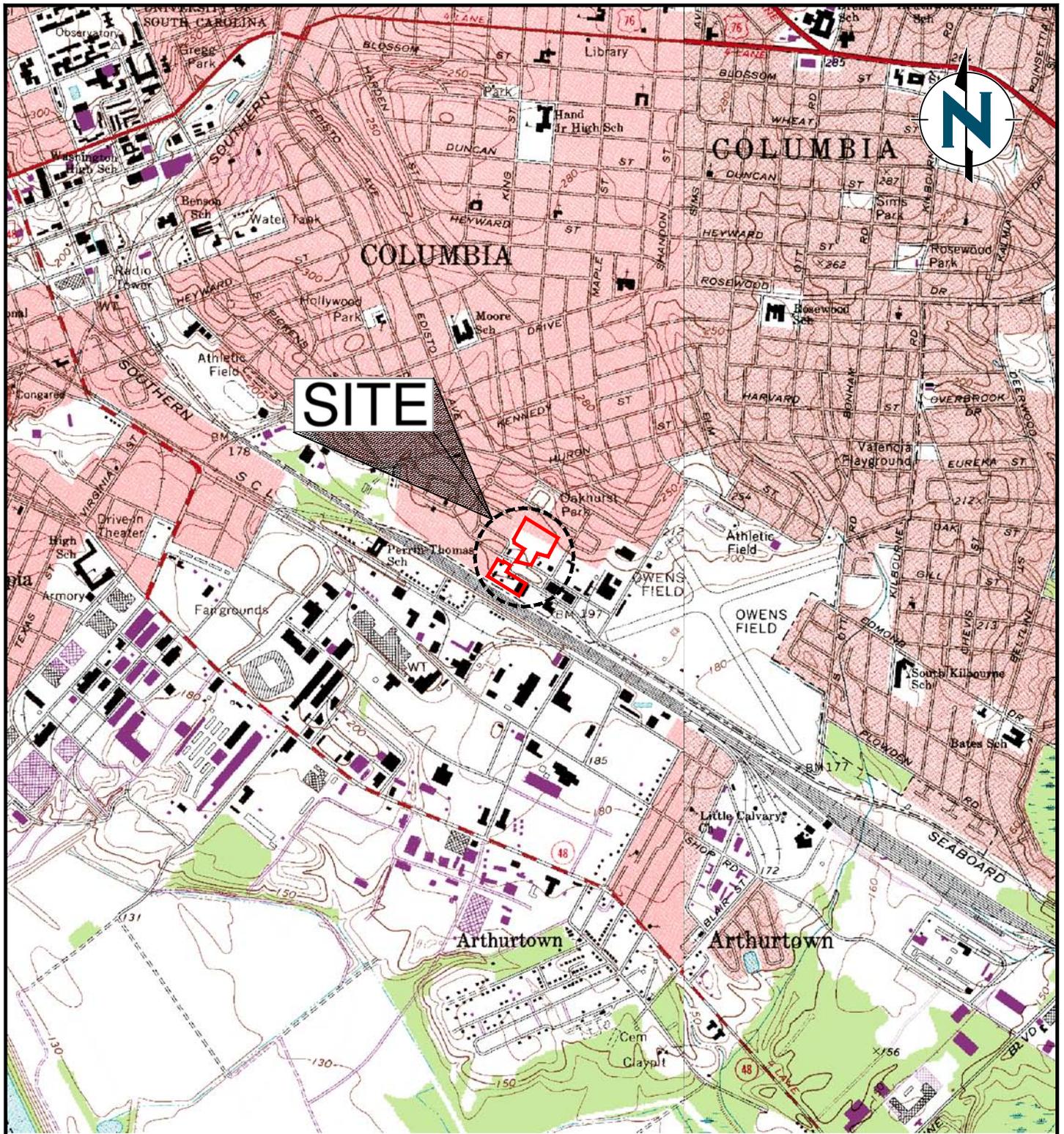
5.2 Interviews

City of Columbia, South Carolina. 2012. Public information request. January 10.

Joe Reynolds. SEACO, Inc. 2012. Personal interview. January 6.

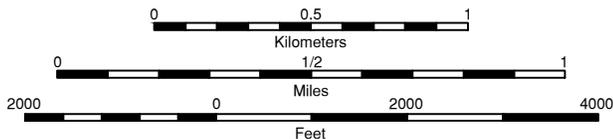
Jay von Kolnitz. SEACO, Inc. 2012. Personal interview. January 6.

Figures



SITE

SCALE 1:24000



Source: U.S. Geological Survey 7.5 minute (topographic) quadrangles; Southwest Columbia, and Fort Jackson South, South Carolina.

C:\PROJECTS\01-29288\ASLM COLUMBIA SC2.DWG

ENVIRON

DRAFTED BY: VGMILES

DATE: 1/30/2012

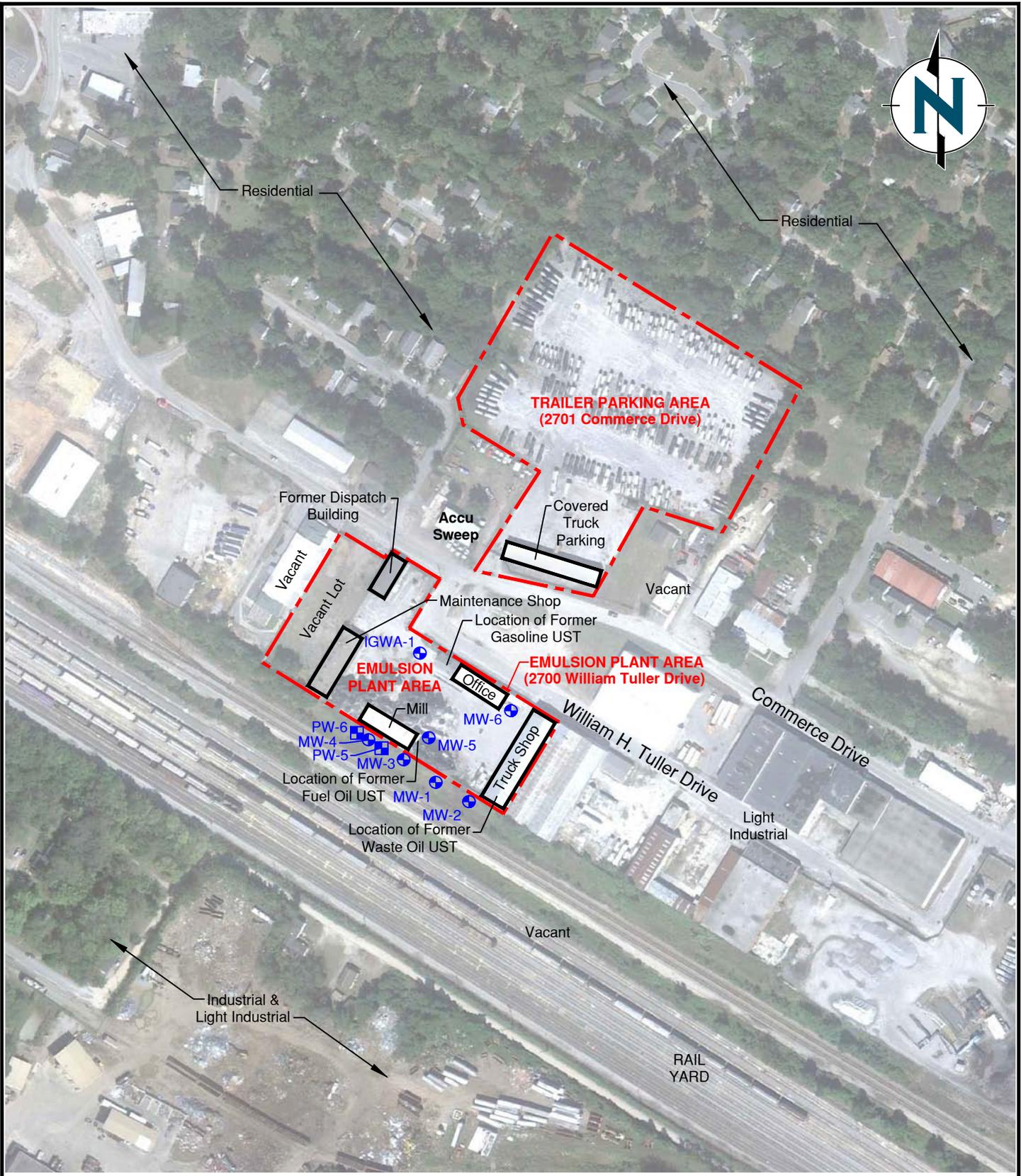
Site Location Map

SEACO, Inc.

2700 William H. Tuller Drive & 2701 Commerce Drive
Columbia, South Carolina

Figure

1



EXPLANATION

- Approximate monitoring well location
- Approximate recovery well location



Aerial Photograph Source: © Google; October, 2010.

C:\PROJECTS\01-29288\ASITE LAYOUT COLUMBIA SC2.DWG



DRAFTED BY: \GMILES

DATE: 1/30/2012

Site Layout
 SEACO, Inc.
 2700 William H. Tuller Drive & 2701 Commerce Drive
 Columbia, South Carolina

Figure
2

Appendix A

Site Photographs



Photo 1: View of the front of the emulsion plant site, facing south.



Photo 2: View of AST tank farms and the maintenance building (in background) at the emulsion plant, facing west.



Photo 3: View of the former dispatch building at the emulsion plant, facing north.



Photo 4: View of the truck shop at the emulsion plant, facing southeast.



Photo 5: View of the vacant lot comprising the western-most portion of the emulsion plant site, facing southwest.



Photo 6: View of a portion of the tank farms' secondary containment wall at the emulsion plant, facing south.



Photo 7: View of pooled fuel oil/asphalt in the mill building at the emulsion plant.



Photo 8: Mechanic's access pit in the truck shop at the emulsion plant.



Photo 9: Storage for drums and totes in the southern portion of the truck shop at the emulsion plant.



Photo 10: Trench drain connected to the sanitary sewer in the vehicle wash bay at the emulsion plant.



Photo 11: Storm water catch basin for the underground cistern located outside the northeastern portion of the mill building at the emulsion plant.



Photo 12: Covered truck parking at the trailer storage area, facing south.



Photo 13: No. 2 fuel oil AST and associated pump at the trailer storage area, facing northeast.



Photo 14: Storm water catch basin (foreground) and trailers stored at northwestern portion of the trailer storage area, facing northwest.

Appendix B

Environmental Database Report

Notes on Environmental Database Report

EDR conducted its searches for the standard environmental record sources and the minimum search distances, as specified by the ASTM Standard. The ASTM Standard uses the terminology “approximate minimum search distance” to refer to the radii searched in the environmental database report. The EDR database search contained a number of unmapped sites. Although it was beyond the scope of this assessment to locate each of the unmapped sites identified by EDR, ENVIRON briefly reviewed the list of unmapped sites for any properties observed during the facility visit to be nearby or adjacent to the subject site.

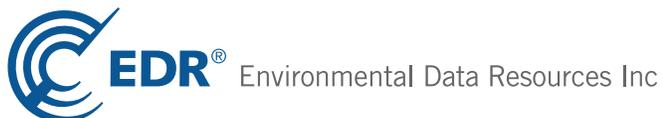
EDR conducted the search of environmental databases in December 2011. Because the environmental databases themselves are sometimes not updated by the specific regulatory agencies for periods of up to one year or more (depending on the database and the state), the database search conducted herein will not necessarily list any facility or site for which an environmental investigation/listing has been initiated subsequent to the last update.

SEACO, Inc

2700 William Tuller Dr
Columbia, SC 29205

Inquiry Number: 03237245.1r
January 17, 2012

The EDR Radius Map™ Report with GeoCheck®



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Milford, CT 06461
Toll Free: 800.352.0050
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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 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

2700 WILLIAM TULLER DR
COLUMBIA, SC 29205

COORDINATES

Latitude (North): 33.9769000 - 33° 58' 36.84"
Longitude (West): 81.0081000 - 81° 0' 29.16"
Universal Transverse Mercator: Zone 17
UTM X (Meters): 499251.8
UTM Y (Meters): 3759400.2
Elevation: 199 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 33081-H1 SOUTHWEST COLUMBIA, SC
Most Recent Revision: 1994

East Map: 33080-H8 FORT JACKSON SOUTH, SC
Most Recent Revision: 1987

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2009
Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
SEACO INC 2700 WILLIAM TULLER DR COLUMBIA, SC 29205	TRIS	29205SCNC 27
SEACO INC 2700 WILLIAM TULLER DR COLUMBIA, SC 29250	AIRS	N/A
SEACO, INC. 2700 WILLIAM TULLER DRIVE COLUMBIA, SC 29205	ICIS COLUMBIA SC 29205	N/A

EXECUTIVE SUMMARY

COLPROVIA ASPHALT - COLUMBIA 2700 WILLIAM TULLER DRIVE COLUMBIA, SC 29205	AST	N/A
SEACO, INC., ASPHALT EMULSIONS 2700 WILLIAM TULLER DRIVE COLUMBIA, SC 29250	FTTS HIST FTTS	N/A
SEACO INC 2700 WILLIAM TULLER DRIVE COLUMBIA, SC 29205	FINDS	N/A
SEACO INC 2700 WILLIAM TULLER DR COLUMBIA, SC 29205	LUST No Action Required: 09/25/98 UST	N/A
SEACO INC - COLUMBIA 2700 WILLIAM TULLER DRIVE COLUMBIA, SC 29205	TSCA	N/A

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

FEDERAL FACILITY..... Federal Facility Site Information listing

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

EXECUTIVE SUMMARY

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators

RCRA-SQG..... RCRA - Small Quantity Generators

RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

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

SWF/LF..... Permitted Landfills List

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

INDIAN UST..... Underground Storage Tanks on Indian Land

FEMA UST..... Underground Storage Tank Listing

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

ALLSITES..... Site Assessment & Remediation Public Record Database

EXECUTIVE SUMMARY

CDL..... Clandestine Drug Lab Sites
US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information
LUCIS..... Land Use Control Information System

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Spills Database List

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
UMTRA..... Uranium Mill Tailings Sites
MINES..... Mines Master Index File
SSTS..... Section 7 Tracking Systems
PADS..... PCB Activity Database System
MLTS..... Material Licensing Tracking System
RADINFO..... Radiation Information Database
RAATS..... RCRA Administrative Action Tracking System
UIC..... Underground Injection Wells Listing
DRYCLEANERS..... Drycleaner Database
NPDES..... Waste Water Treatment Facilities Listing
INDIAN RESERV..... Indian Reservations
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
COAL ASH..... Coal Ash Disposal Sites
FINANCIAL ASSURANCE..... Financial Assurance Information Listing
COAL ASH DOE..... Sleam-Electric Plan Operation Data

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

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.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System 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.

A review of the CERCLIS list, as provided by EDR, and dated 02/25/2011 has revealed that there are 2 CERCLIS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HOLT DRIVE TRACK	2028 HOLT DRIVE	NW 1/8 - 1/4 (0.230 mi.)	C16	26
ESTECH GENERAL CHEMICALS CORP	1150 SHOP RD	SW 1/4 - 1/2 (0.270 mi.)	E22	32

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 02/25/2011 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DAVIS & ROGERS	2825 COMMERCE DR	SE 0 - 1/8 (0.114 mi.)	B11	17

State- and tribal - equivalent CERCLIS

SHWS: State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

A review of the SHWS list, as provided by EDR, and dated 10/06/2011 has revealed that there are 7 SHWS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HOLT DRIVE TRACT	2028 HOLT DR	NW 1/8 - 1/4 (0.230 mi.)	C17	27
ARAMARK UNIFORM SERVICES	919 AIRPORT BLVD	ENE 1/4 - 1/2 (0.363 mi.)	24	35
ARNOLDS PROFESSIONAL GARMENT C	2601 ROSEWOOD DR	N 1/2 - 1 (0.523 mi.)	29	43
SCHOONYS CLEANERS	3010 ROSEWOOD DR	NNE 1/2 - 1 (0.755 mi.)	30	43

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DAVIS & ROGERS	2825 COMMERCE DR	SE 0 - 1/8 (0.114 mi.)	B11	17

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ROSEWOOD HILLS	720 SUPERIOR ST	WNW 1/4 - 1/2 (0.372 mi.)	F25	37
PALMETTO ANTIQUE FLOORING AND	1125 JOE LOUIS DR	SSE 1/2 - 1 (0.953 mi.)	31	46

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Health & Environmental Control's Leaking UST list.

A review of the LUST list, as provided by EDR, and dated 08/31/2011 has revealed that there are 7 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BAGNAL BUILDERS SUPPLY CO INC No Action Required: 05/03/00	919 S EDISTO AVE	WNW 1/8 - 1/4 (0.165 mi.)	13	22
COLUMBIA OWENS DOWNTOWN AIRPOR No Action Required: 09/19/00	1400 JIM HAMILTON BLVD	ESE 1/4 - 1/2 (0.255 mi.)	D20	29
RUS OF COLUMBIA INC No Action Required: 05/25/96	628 SUPERIOR	WNW 1/4 - 1/2 (0.401 mi.)	F27	39

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BOINEAUS WAREHOUSE No Action Required: 03/13/07	2822 COMMERCE DR	SE 0 - 1/8 (0.102 mi.)	B9	15
COLUMBIA DISTRIBUTING CORP No Action Required: 08/25/95	1007 AIRPORT BLVD	ESE 1/8 - 1/4 (0.239 mi.)	D18	27
CENTRAL EQUIPMENT SUPPLY DEPOT No Action Required: 10/04/02	1500 SHOP RD	S 1/4 - 1/2 (0.392 mi.)	26	37
ESTES EXPRESS LINES No Action Required: 12/11/98	1112 KEY RD	SW 1/4 - 1/2 (0.455 mi.)	28	40

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Health & Environmental Control's list: Comprehensive Underground Storage Tanks.

A review of the UST list, as provided by EDR, and dated 08/31/2011 has revealed that there are 4 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BAGNAL BUILDERS SUPPLY CO INC	919 S EDISTO AVE	WNW 1/8 - 1/4 (0.165 mi.)	13	22

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BOINEAUS WAREHOUSE	2822 COMMERCE DR	SE 0 - 1/8 (0.102 mi.)	B9	15
COLUMBIA DISTRIBUTING CORP	2847 COMMERCE DR	SE 1/8 - 1/4 (0.157 mi.)	12	21
COLUMBIA DISTRIBUTING CORP	1007 AIRPORT BLVD	ESE 1/8 - 1/4 (0.239 mi.)	D18	27

EXECUTIVE SUMMARY

State and tribal institutional control / engineering control registries

RCR: The Bureau of Land and Waste Management established this Registry to help monitor and maintain sites that have conditional remedies. A Conditional Remedy is an environmental remedy that includes certain qualifications. These qualifications are divided into two major categories: Remedies requiring Land Use Controls and Conditional No Further Actions.

A review of the RCR list, as provided by EDR, and dated 09/20/2011 has revealed that there is 1 RCR site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
COLUMBIA OWENS DOWNTOWN AIRPOR	1400 JIM HAMILTON BLVD	ESE 1/4 - 1/2 (0.255 mi.)	D21	31

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties addressed by Cooperative Agreement Recipients and Brownfields properties addressed by Targeted Brownfields Assessments

A review of the US BROWNFIELDS list, as provided by EDR, and dated 06/27/2011 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WILEY ST. PROPERTY	1917 WILEY ST.	WNW 1/4 - 1/2 (0.254 mi.)	19	28

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling center locations.

A review of the SWRCY list, as provided by EDR, and dated 11/16/2009 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
US RECYCLING	1118 SHOP ROAD	SW 1/4 - 1/2 (0.274 mi.)	E23	35

Other Ascertainable Records

RCRA-NonGen: 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 list, as provided by EDR, and dated 06/15/2011 has revealed that there

EXECUTIVE SUMMARY

are 4 RCRA-NonGen sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>UNITECH SERVICES GROUP INC</i>	<i>811 S EDISTO AVE</i>	<i>WNW 1/8 - 1/4 (0.187 mi.)</i>	<i>14</i>	<i>22</i>
<i>DIXIE LIGHTING</i>	<i>740 SOUTH EDISTO DR</i>	<i>NW 1/8 - 1/4 (0.212 mi.)</i>	<i>C15</i>	<i>24</i>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
US EPA DAVIS & ROGERS	2825 COMMERCE DR	SE 0 - 1/8 (0.114 mi.)	B10	16
<i>DAVIS & ROGERS</i>	<i>2825 COMMERCE DR</i>	<i>SE 0 - 1/8 (0.114 mi.)</i>	<i>B11</i>	<i>17</i>

GWCI: Groundwater Contamination Inventory Cases. Any site that has groundwater contamination over a federal MCL.

A review of the GWCI list, as provided by EDR, and dated 07/01/2008 has revealed that there is 1 GWCI site within approximately 0.5 miles of the target property.

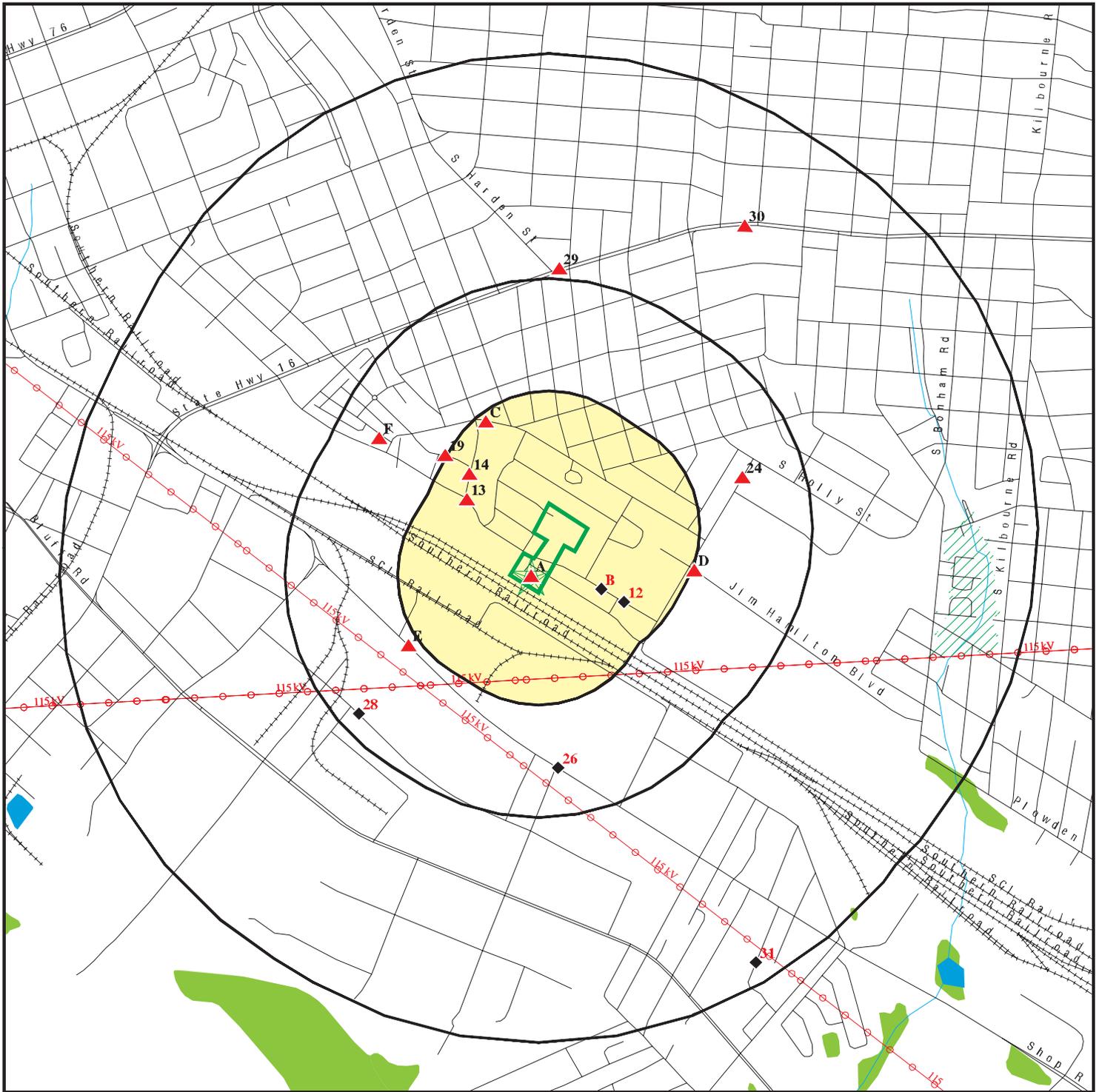
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>COLUMBIA OWENS DOWNTOWN AIRPOR</i>	<i>1400 JIM HAMILTON BLVD</i>	<i>ESE 1/4 - 1/2 (0.255 mi.)</i>	<i>D20</i>	<i>29</i>

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 38 records.

<u>Site Name</u>	<u>Database(s)</u>
CAROLINA EASTMAN CO POLYMER EQUIPMENT SITE RICHLAND COUNTY LANDFILL	SHWS SHWS CERC-NFRAP, RCRA-NonGen, FINDS, SHWS
COLUMBIA LANDFILL AIRLINE DRIVE ASPHALT SPILL FMR ED ROBINSON LAUNDRY & DRY CLEA DIVEX/BOOKMAN LOOP NEWELL RUBBERMAID	SHWS SHWS SHWS SHWS, DRYCLEANERS SHWS CERC-NFRAP, RCRA-NonGen, FINDS, SHWS
USC COLISEUM PARKING LOTS ALLIED CHEMICAL FIBER DIV DIVEX/LITTLETON COLUMBIA PINTSCH GAS PLANT RUSHMORE SITE PONTIAC PRECISION BOMBING RANGE (A VCC-GLOBE VCC COLUMBIA COLUMBIA SUPPLY COMPANY FABRICATIO COLUMBIA LANDFILL CRAPPS GROCERY USDA FOREST SERVICE HIGHMARKET EXXON SC DEPT OF MENTAL HEALTH GASLO 745 YOUNGS 24 GULF SERVICE STATION 24225 SC DEPT OF MENTAL HEALTH NEW CHINA RESTAURANT USDA FOREST SERVICE USDA FOREST SERVICE LANDSFORD CANAL STATE PARK JACKSONS SC SCHOOL BUS DEPOT SC DHEC MAINTENANCE USDA FOREST SERVICE USDA FOREST SERVICE SCDOT HWY 395 RANDOLPH TRUCKING (COMMERCE DR.) P COOPER TOOLS	SHWS SHWS CERC-NFRAP, SHWS SHWS SHWS CERCLIS, FINDS CERCLIS CERCLIS CERC-NFRAP CERC-NFRAP LUST, UST LUST, UST LUST GWCI, LUST, UST GWCI, LUST, UST GWCI, LUST, UST GWCI, LUST, UST GWCI, LUST, UST LUST, UST UST UST UST UST UST UST RCRA-NonGen US BROWNFIELDS VCP

OVERVIEW MAP - 03237245.1r



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

Power transmission lines

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

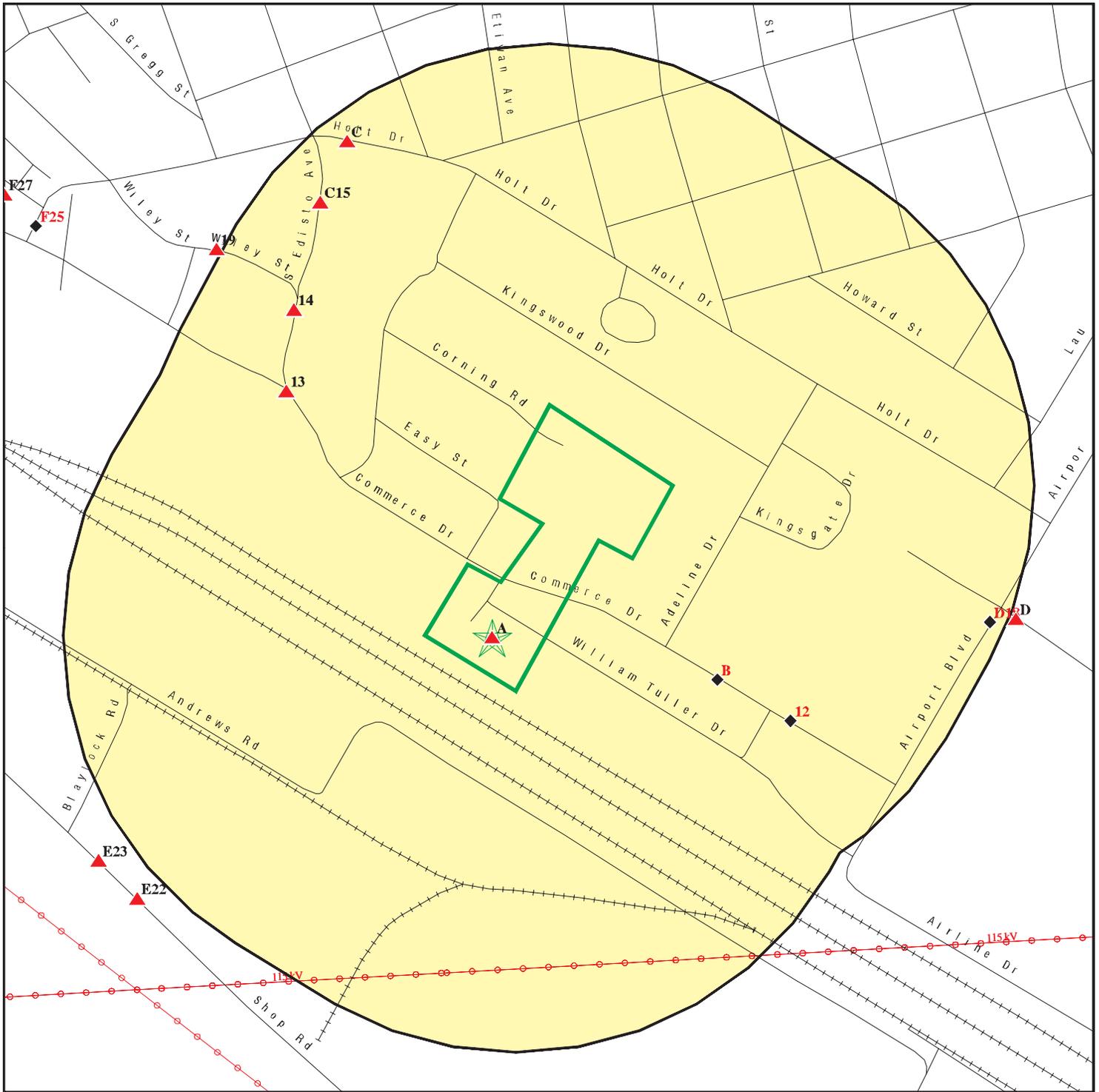
State Wetlands

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: SEACO, Inc
 ADDRESS: 2700 William Tuller Dr
 Columbia SC 29205
 LAT/LONG: 33.9769 / -81.0081

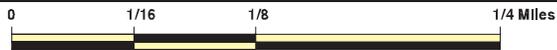
CLIENT: Environ Corporation
 CONTACT: Jon Bradshaw
 INQUIRY #: 03237245.1r
 DATE: January 17, 2012 4:51 pm

DETAIL MAP - 03237245.1r



- 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
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone



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: SEACO, Inc
 ADDRESS: 2700 William Tuller Dr
 Columbia SC 29205
 LAT/LONG: 33.9769 / -81.0081

CLIENT: Environ Corporation
 CONTACT: Jon Bradshaw
 INQUIRY #: 03237245.1r
 DATE: January 17, 2012 4:52 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>STANDARD ENVIRONMENTAL RECORDS</u>								
<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	1	1	NR	NR	2
FEDERAL FACILITY		1.000	0	0	0	0	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP		0.500	1	0	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-LQG		0.250	0	0	NR	NR	NR	0
RCRA-SQG		0.250	0	0	NR	NR	NR	0
RCRA-CESQG		0.250	0	0	NR	NR	NR	0
<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
<i>Federal ERNS list</i>								
ERNS		TP	NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS		1.000	1	1	2	3	NR	7
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF		0.500	0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	X	0.500	1	2	4	NR	NR	7
INDIAN LUST		0.500	0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
UST	X	0.250	1	3	NR	NR	NR	4

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	X	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>								
RCR		0.500	0	0	1	NR	NR	1
<i>State and tribal voluntary cleanup sites</i>								
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>								
BROWNFIELDS		0.500	0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS		0.500	0	0	1	NR	NR	1
<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
SWRCY		0.500	0	0	1	NR	NR	1
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
ALLSITES		0.500	0	0	0	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
<i>Local Land Records</i>								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS		TP	NR	NR	NR	NR	NR	0
SPILLS		TP	NR	NR	NR	NR	NR	0
<i>Other Ascertainable Records</i>								
RCRA-NonGen		0.250	2	2	NR	NR	NR	4
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MINES		0.250	0	0	NR	NR	NR	0
TRIS	X	TP	NR	NR	NR	NR	NR	0
TSCA	X	TP	NR	NR	NR	NR	NR	0
FTTS	X	TP	NR	NR	NR	NR	NR	0
HIST FTTS	X	TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS	X	TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
GWCI		0.500	0	0	1	NR	NR	1
UIC		TP	NR	NR	NR	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
AIRS	X	TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
COAL ASH		0.500	0	0	0	NR	NR	0
FINANCIAL ASSURANCE		TP	NR	NR	NR	NR	NR	0
COAL ASH DOE		TP	NR	NR	NR	NR	NR	0

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants		1.000	0	0	0	0	NR	0
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

A1
Target
Property

SEACO INC
2700 WILLIAM TULLER DR
COLUMBIA, SC 29205

TRIS **1005447448**
29205SCNC 27

Site 1 of 8 in cluster A

Actual:
199 ft.

TRIS:

[Click this hyperlink](#) while viewing on your computer to access
1 additional US_TRIS: record(s) in the EDR Site Report.

A2
Target
Property

SEACO INC
2700 WILLIAM TULLER DR
COLUMBIA, SC 29250

AIRS **S108282148**
N/A

Site 2 of 8 in cluster A

Actual:
199 ft.

AIRS:

Operate Status:	O
Year Inv:	Not reported
Emissions Contact:	JOE REYNOLDS
Contact Telephone:	8037995335
Mail Address:	PO BOX 5227
Mailing City:	COLUMBIA
Mail State:	SC
Mail Zip:	29250
Latitude/Longitude:	340152 / 805159
Source Industrial Code (Sic):	2951
Naics Code:	324121
State Permit Number:	1900-0220
State Permit Type:	Not reported
Pollutant Description:	Not reported
Estimated Emissions (Tons/Yr):	Not reported

A3
Target
Property

SEACO, INC.
2700 WILLIAM TULLER DRIVE COLUMBIA SC 29205
COLUMBIA, SC 29205

ICIS **1011608368**
N/A

Site 3 of 8 in cluster A

Actual:
199 ft.

ICIS:

Enforcement Action ID:	04-2007-9126
FRS ID:	110017202445
Program ID:	TRIS 29205SCNC 2700W
Action Name:	SEACO, INC., AND COLPROVIA ASPHALTS
Facility Name:	SEACO INC.
Facility Address:	2700 WILLIAM TULLER DRIVE COLUMBIA SC 29205 COLUMBIA, South Carolina 29205
Enforcement Action Type:	EPCRA 325 Action For Penalty
Facility County:	Richland
EPA Region #:	4
Enforcement Action ID:	04-2007-9126
FRS ID:	110017202445
Program ID:	SC-EFIS SC0000037990
Action Name:	SEACO, INC., AND COLPROVIA ASPHALTS
Facility Name:	SEACO INC
Facility Address:	2700 WILLIAM TULLER DRIVE COLUMBIA SC 29205 COLUMBIA, South Carolina 29205
Enforcement Action Type:	EPCRA 325 Action For Penalty

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SEACO, INC. (Continued)

1011608368

Facility County: Richland
EPA Region #: 4

Enforcement Action ID: 04-2007-9126
FRS ID: 110017202445
Program ID: FRS 110017202445
Action Name: SEACO, INC., AND COLPROVIA ASPHALTS
Facility Name: SEACO INC
Facility Address: 2700 WILLIAM TULLER DRIVE COLUMBIA SC 29205
COLUMBIA, South Carolina 29205

Enforcement Action Type: EPCRA 325 Action For Penalty
Facility County: Richland
EPA Region #: 4

Enforcement Action ID: 04-2007-9126
FRS ID: 110017202445
Program ID: AIRS/AFS 4507900220
Action Name: SEACO, INC., AND COLPROVIA ASPHALTS
Facility Name: SEACO INC
Facility Address: 2700 WILLIAM TULLER DRIVE COLUMBIA SC 29205
COLUMBIA, South Carolina 29205

Enforcement Action Type: EPCRA 325 Action For Penalty
Facility County: Richland
EPA Region #: 4

Enforcement Action ID: 04-2007-9126
FRS ID: 110017202445
Program ID: NCDB D04#EPCRA-IV-96-109
Action Name: SEACO, INC., AND COLPROVIA ASPHALTS
Facility Name: SEACO, INC. ASPHALT EMULSION
Facility Address: 2700 WILLIAM TULLER DRIVE COLUMBIA SC 29205
COLUMBIA, South Carolina 29205

Enforcement Action Type: EPCRA 325 Action For Penalty
Facility County: Richland
EPA Region #: 4

Enforcement Action ID: 04-2007-9126
FRS ID: 110017202445
Program ID: TSCA 100604082
Action Name: SEACO, INC., AND COLPROVIA ASPHALTS
Facility Name: SEACO, INC.
Facility Address: 2700 WILLIAM TULLER DRIVE COLUMBIA SC 29205
COLUMBIA, South Carolina 29205

Enforcement Action Type: EPCRA 325 Action For Penalty
Facility County: Richland
EPA Region #: 4

Enforcement Action ID: 04-1997-0109
FRS ID: 110017202445
Program ID: NCDB D04#EPCRA-IV-96-109
Action Name: SEACO, INC.
Facility Name: SEACO, INC. ASPHALT EMULSION
Facility Address: 2700 WILLIAM TULLER DRIVE COLUMBIA SC 29205
COLUMBIA, South Carolina 29205

Enforcement Action Type: EPCRA 325 Action For Penalty
Facility County: Richland
EPA Region #: 4

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SEACO, INC. (Continued)

1011608368

Enforcement Action ID: 04-1997-0109
FRS ID: 110017202445
Program ID: AIRS/AFS 4507900220
Action Name: SEACO, INC.
Facility Name: SEACO INC
Facility Address: 2700 WILLIAM TULLER DRIVE COLUMBIA SC 29205
COLUMBIA, South Carolina 29205
Enforcement Action Type: EPCRA 325 Action For Penalty
Facility County: Richland
EPA Region #: 4

Enforcement Action ID: 04-1997-0109
FRS ID: 110017202445
Program ID: TRIS 29205SCNC 2700W
Action Name: SEACO, INC.
Facility Name: SEACO INC.
Facility Address: 2700 WILLIAM TULLER DRIVE COLUMBIA SC 29205
COLUMBIA, South Carolina 29205
Enforcement Action Type: EPCRA 325 Action For Penalty
Facility County: Richland
EPA Region #: 4

Enforcement Action ID: 04-1997-0109
FRS ID: 110017202445
Program ID: SC-EFIS SC0000037990
Action Name: SEACO, INC.
Facility Name: SEACO INC
Facility Address: 2700 WILLIAM TULLER DRIVE COLUMBIA SC 29205
COLUMBIA, South Carolina 29205
Enforcement Action Type: EPCRA 325 Action For Penalty
Facility County: Richland
EPA Region #: 4

Enforcement Action ID: 04-1997-0109
FRS ID: 110017202445
Program ID: TSCA 100604082
Action Name: SEACO, INC.
Facility Name: SEACO, INC.
Facility Address: 2700 WILLIAM TULLER DRIVE COLUMBIA SC 29205
COLUMBIA, South Carolina 29205
Enforcement Action Type: EPCRA 325 Action For Penalty
Facility County: Richland
EPA Region #: 4

Enforcement Action ID: 04-1997-0109
FRS ID: 110017202445
Program ID: FRS 110017202445
Action Name: SEACO, INC.
Facility Name: SEACO INC
Facility Address: 2700 WILLIAM TULLER DRIVE COLUMBIA SC 29205
COLUMBIA, South Carolina 29205
Enforcement Action Type: EPCRA 325 Action For Penalty
Facility County: Richland
EPA Region #: 4

Program ID: AIRS/AFS 4507900220

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SEACO, INC. (Continued)

1011608368

Facility Name: SEACO INC
Address: 2700 WILLIAM TULLER DRIVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported
Latitude: 33.976474
Longitude: -81.007106

Program ID: FRS 110017202445
Facility Name: SEACO INC
Address: 2700 WILLIAM TULLER DRIVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported
Latitude: 33.976474
Longitude: -81.007106

Program ID: NCDB D04#EPCRA-IV-96-109
Facility Name: SEACO INC
Address: 2700 WILLIAM TULLER DRIVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported
Latitude: 33.976474
Longitude: -81.007106

Program ID: SC-EFIS SC0000037990
Facility Name: SEACO INC
Address: 2700 WILLIAM TULLER DRIVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported
Latitude: 33.976474
Longitude: -81.007106

Program ID: TRIS 29205SCNC 2700W
Facility Name: SEACO INC
Address: 2700 WILLIAM TULLER DRIVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported
Latitude: 33.976474
Longitude: -81.007106

Program ID: TSCA 100604082
Facility Name: SEACO INC
Address: 2700 WILLIAM TULLER DRIVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported
Latitude: 33.976474

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SEACO, INC. (Continued)

1011608368

Longitude: -81.007106

Program ID: AIRS/AFS 4507900220
Facility Name: SEACO INC
Address: 2700 WILLIAM TULLER DRIVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported
Latitude: 33.976474
Longitude: -81.007106

Program ID: FRS 110017202445
Facility Name: SEACO INC
Address: 2700 WILLIAM TULLER DRIVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported
Latitude: 33.976474
Longitude: -81.007106

Program ID: NCDB D04#EPCRA-IV-96-109
Facility Name: SEACO INC
Address: 2700 WILLIAM TULLER DRIVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported
Latitude: 33.976474
Longitude: -81.007106

Program ID: SC-EFIS SC0000037990
Facility Name: SEACO INC
Address: 2700 WILLIAM TULLER DRIVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported
Latitude: 33.976474
Longitude: -81.007106

Program ID: TRIS 29205SCNC 2700W
Facility Name: SEACO INC
Address: 2700 WILLIAM TULLER DRIVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported
Latitude: 33.976474
Longitude: -81.007106

Program ID: TSCA 100604082
Facility Name: SEACO INC
Address: 2700 WILLIAM TULLER DRIVE
Tribal Indicator: N
Fed Facility: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

SEACO, INC. (Continued)

1011608368

NAIC Code: Not reported
 SIC Code: Not reported
 Latitude: 33.976474
 Longitude: -81.007106

A4
Target
Property

COLPROVIA ASPHALT - COLUMBIA
2700 WILLIAM TULLER DRIVE
COLUMBIA, SC 29205

AST A100267473
N/A

Site 4 of 8 in cluster A

Actual:
199 ft.

AST:
 Facility ID: 830
 District: Central Midlands
 Mailing Addr: Not reported
 Mailing City,St,Zip: Columbia, SC 29250-
 Lat/Long: 33 58 37.95 -81 00 28.34
 Facility Manager: Gene R. Elders
 Manager Phone: 8037969034
 Facility office location: P.O. Box 5227
 Facility phone number: 8037995335
 Facility Manager Ext: Not reported
 Tank A-How many of size < 250 glns: 0
 Tank B-How many of size 250-1000 glns: 0
 Tank C-How many of size 1001-2000 glns: 0
 Tank D-How many of size 2001-10000 glns: 5
 Tank E-How many of size 10001-42000 glns: 16
 Tank F-How many of size 42001-250000 glns: 0
 Tank G-How many of size 250001-1000000 glns: 0
 Tank H-How many of size 1000001-4000000 glns: 0
 Tank I-How many of size >4000000 glns: 0
 Total site capacity 661-2,000 glns: F
 Total site capacity 2001-10,000 glns: F
 Total site capacity 10,001-42,000 glns: F
 Total site capacity 42,001-100,000 glns: F
 Total site capacity 100,001-250,000 glns: F
 Total site capacity 250,001-1,000,000 glns: T
 Total site capacity 1,000,001-5,000,000 glns: F
 Total site capacity 5,000,001-10,000,000 glns: F
 Total site capacity >10,000,000 glns: F
 Actual storage amount in gallons: 837450.00000
 GPS unit make/model: Trimble XRS
 GPS mode uncorrected, Radio beacon, Satellite corrected: Sat - DGPS
 Date data was collected: 04/06/99
 NAICS code: 8.00000
 Is this a registered terminal facility?: F
 If not, does it need to be registered?: F
 Earthen containment: F
 Asphalt containment: F
 Liner: F
 Concrete floor and walls: F
 Concrete walls, earth floor: F
 Block walls, concrete floor: T
 Block walls, earthe floor: T
 Double wall tank: F
 Does containment need repair?: F
 Comments: Last inspection was done by EPA, summer 1999. Two tank farms.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A5
Target
Property

SEACO, INC., ASPHALT EMULSIONS
2700 WILLIAM TULLER DRIVE
COLUMBIA, SC 29250

FTTS 1009522858
HIST FTTS N/A

Site 5 of 8 in cluster A

Actual:
199 ft.

FTTS INSP:
Inspection Number: 19960418A4002 2
Region: 04
Inspection Date: 04/18/96
Inspector: HASHIM SAFI
Violation occurred: Yes
Investigation Type: EPCRA, Enforcement, SEE Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: EPCRA
Facility Function: Manufacturer

HIST FTTS INSP:
Inspection Number: 19960418A4002 2
Region: 04
Inspection Date: Not reported
Inspector: HASHIM SAFI
Violation occurred: Yes
Investigation Type: EPCRA, Enforcement, SEE Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: EPCRA
Facility Function: Manufacturer

A6
Target
Property

SEACO INC
2700 WILLIAM TULLER DRIVE
COLUMBIA, SC 29205

FINDS 1007248308
N/A

Site 6 of 8 in cluster A

Actual:
199 ft.

FINDS:
Registry ID: 110017202445

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.

SC-EFIS (South Carolina - Environmental Facility Information System) integrates information on environmental facilities, permits, violations, enforcement actions, and compliance activities needed to support regulatory requirements and target environmental quality improvements for the water, air, solid waste, and hazardous waste program areas. The EFIS was developed by the state of South Carolina and Maine joined their system in 2004.

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

SEACO INC (Continued)

1007248308

information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

**A7
 Target
 Property**

**SEACO INC
 2700 WILLIAM TULLER DR
 COLUMBIA, SC 29205**

**LUST 1003012940
 UST N/A**

Site 7 of 8 in cluster A

**Actual:
 199 ft.**

LUST:
 Facility ID: 12813
 Release Number: 1
 Facility Status: currently inactive
 Substance: PETRO
 Owner: COLPROVIA ASPHALTS DIV OF SEACO INC
NFA Date: 09/25/98
 Date Confirmed: 10/17/95
 Report Date: 06/30/93
 Rank: 3BF

LUST DETAIL:
 Release Date: 06/30/1993
 Cleanup Complete Date: 09/25/1998
 RP Name: COLPROVIA ASPHALTS DIV OF SEACO INC
 RP Address: 1119 AIRPORT BLVD
 RP City: COLUMBIA
 RP State: SC
 RP Zip: 29250
 SCRBCA Class Code: CLASS3BF
 Depth to Ground Water: Not reported
 Ground Water Flow Direction: Not reported
 Project Manager: WILSON, RODNEY L

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SEACO INC (Continued)

1003012940

Release Fin Type Code: With SUPERB

UST:

Facility ID: 12813
Owner: COLPROVIA ASPHALTS DIV OF SEACO INC
Owner Contact: JOE REYNOLDS
Owner Address: 1119 AIRPORT BLVD
Owner City,St,Zip: COLUMBIA, SC 29250
Owner Phone: 803-799-6141
Contact: JOE REYNOLDS
Contact Tel: 803-799-5335

Tank ID: 1
Capacity: 1000
Product: Gasoline
Calcage: 10
Status: Abandoned

Tank ID: 2
Capacity: 150
Product: Waste Oil
Calcage: 25
Status: Abandoned

**A8
Target
Property**

**SEACO INC - COLUMBIA
2700 WILLIAM TULLER DRIVE
COLUMBIA, SC 29205**

**TSCA 1014200583
N/A**

Site 8 of 8 in cluster A

**Actual:
199 ft.**

[Click this hyperlink](#) while viewing on your computer to access additional TSCA detail in the EDR Site Report.

**B9
SE
< 1/8
0.102 mi.
541 ft.**

**BOINEAUS WAREHOUSE
2822 COMMERCE DR
COLUMBIA, SC 29205

Site 1 of 3 in cluster B**

**LUST U003519468
UST N/A**

**Relative:
Lower**

LUST:
Facility ID: 12852
Release Number: 1
Facility Status: awaiting funding
Substance: PETRO
Owner: T E C INC
NFA Date: 03/13/07
Date Confirmed: 09/10/93
Report Date: 06/03/93
Rank: 3BF

**Actual:
196 ft.**

LUST DETAIL:
Release Date: 06/03/1993
Cleanup Complete Date: 04/11/2003
RP Name: TEC INC
RP Address: PO BOX 11889

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOINEAUS WAREHOUSE (Continued)

U003519468

RP City: COLUMBIA
RP State: SC
RP Zip: 29211
SCRBCA Class Code: CLASS3BF
Depth to Ground Water: 9.419
Ground Water Flow Direction: Not reported
Project Manager: SHRADER, ART A
Release Fin Type Code: With SUPERB

UST:

Facility ID: 12852
Owner: T E C INC
Owner Contact: WALTER THEUS
Owner Address: PO BOX 11889
Owner City,St,Zip: COLUMBIA, SC 29211-1889
Owner Phone: 803
Contact: WALTER THEUS
Contact Tel: Not reported

Tank ID: 1
Capacity: 2000
Product: Miscellaneous Hydrocarbons
Calclage: Not reported
Status: Abandoned

B10
SE
< 1/8
0.114 mi.
602 ft.

US EPA DAVIS & ROGERS
2825 COMMERCE DR
COLUMBIA, SC 29205
Site 2 of 3 in cluster B

RCRA-NonGen 1004780410
SCD987574258

Relative:
Lower

RCRA-NonGen:

Date form received by agency: 09/26/1991
Facility name: US EPA DAVIS & ROGERS
Facility address: 2825 COMMERCE DR
COLUMBIA, SC 29205
EPA ID: SCD987574258
Mailing address: COMMERCE DR
COLUMBIA, SC 29205
Contact: HYTHAM SABA
Contact address: 2825 COMMERCE DR
COLUMBIA, SC 29205
Contact country: US
Contact telephone: (404) 347-3931
Contact email: Not reported
EPA Region: 04
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:
196 ft.

Owner/Operator Summary:

Owner/operator name: DAVIS & ROGERS
Owner/operator address: 2825 COMMERCE DR
COLUMBIA, SC 29205
Owner/operator country: Not reported
Owner/operator telephone: (404) 347-3931
Legal status: Private

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US EPA DAVIS & ROGERS (Continued)

1004780410

Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
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

Violation Status: No violations found

B11
SE
< 1/8
0.114 mi.
602 ft.

DAVIS & ROGERS
2825 COMMERCE DR
COLUMBIA, SC 29205

CERC-NFRAP **1000261806**
RCRA-NonGen **SCD097634489**
SHWS

Site 3 of 3 in cluster B

Relative:
Lower

CERC-NFRAP:
Site ID: 0405514
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Actual:
196 ft.

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID: 4000987.00000
Person ID: 4000438.00000

Contact Sequence ID: 4358976.00000
Person ID: 4000583.00000

Contact Sequence ID: 4359526.00000
Person ID: 4000234.00000

Contact Sequence ID: 4360082.00000
Person ID: 4270070.00000

Contact Sequence ID: 4363709.00000
Person ID: 4000271.00000

Contact Sequence ID: 4503536.00000
Person ID: 4000228.00000

Contact Sequence ID: 4518898.00000
Person ID: 4000376.00000

Contact Sequence ID: 4535863.00000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVIS & ROGERS (Continued)

1000261806

Person ID: 4000275.00000
Contact Sequence ID: 4678731.00000
Person ID: 4270495.00000
Contact Sequence ID: 4778160.00000
Person ID: 13002428.00000
Contact Sequence ID: 13063762.00000
Person ID: 13002538.00000

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY
Date Started: Not reported
Date Completed: 09/13/1990
Priority Level: Not reported

Action: ADMINISTRATIVE RECORDS
Date Started: 07/15/1991
Date Completed: 07/15/1991
Priority Level: Admin Record Compiled for a Removal Event

Action: Public Notice Published
Date Started: Not reported
Date Completed: 08/23/1991
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 09/05/1991
Priority Level: Higher priority for further assessment

Action: REMOVAL
Date Started: 05/13/1991
Date Completed: 11/14/1991
Priority Level: Cleaned up

Action: SITE INSPECTION
Date Started: Not reported
Date Completed: 04/07/1993
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH
Date Started: 02/28/1994
Date Completed: 12/12/1996
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 01/18/2000
Priority Level: Not reported

RCRA-NonGen:

Date form received by agency: 11/02/1998
Facility name: DAVIS & ROGERS
Facility address: 2825 COMMERCE DR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVIS & ROGERS (Continued)

1000261806

COLUMBIA, SC 29205
EPA ID: SCD097634489
Mailing address: COMMERCE DR
COLUMBIA, SC 29205
Contact: JOHN GETTINGER
Contact address: 2825 COMMERCE DR
COLUMBIA, SC 29205
Contact country: US
Contact telephone: (803) 799-2407
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

Owner/Operator Summary:

Owner/operator name: Not reported
Owner/operator address: OWNERSTREET
OWNERCITY, WY 99999
Owner/operator country: Not reported
Owner/operator telephone: (404) 555-1212
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: OPERNAME
Owner/operator address: OPERSTREET
OPERCITY, WY 99999
Owner/operator country: Not reported
Owner/operator telephone: (404) 555-1212
Legal status: Municipal
Owner/Operator Type: Operator
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

Hazardous Waste Summary:

Waste code: F006
Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVIS & ROGERS (Continued)

1000261806

FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM;
(2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS)
ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON
STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM
PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF
ALUMINUM.

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/23/1988
Date achieved compliance: 08/30/1989
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 07/26/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 158000
Final penalty amount: 158000
Paid penalty amount: 0

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/23/1988
Date achieved compliance: 08/30/1989
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 07/26/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 150000
Final penalty amount: 150000
Paid penalty amount: 0

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/23/1988
Date achieved compliance: 08/30/1989
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: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 05/29/1987
Date achieved compliance: 12/15/1987
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVIS & ROGERS (Continued)

1000261806

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Evaluation Action Summary:

Evaluation date: 09/23/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/30/1989
Evaluation lead agency: State

Evaluation date: 12/15/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/29/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 12/15/1987
Evaluation lead agency: State

SHWS:

EPA ID: SCD097634489

12
SE
1/8-1/4
0.157 mi.
828 ft.

**COLUMBIA DISTRIBUTING CORP
2847 COMMERCE DR
COLUMBIA, SC 29205**

**UST U003520381
N/A**

**Relative:
Lower**

UST:

Facility ID: 12258
Owner: COLUMBIA DISTRIBUTING CORP
Owner Contact: L BLOCKER
Owner Address: 2847 COMMERCE DR
Owner City,St,Zip: COLUMBIA, SC 29205-4406
Owner Phone: 803-799-7000
Contact: L BLOCKER
Contact Tel: 803-799-7000

**Actual:
196 ft.**

Tank ID: 1
Capacity: 500
Product: Gasoline
Calcage: Not reported
Status: Abandoned

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

13
 WNW
 1/8-1/4
 0.165 mi.
 873 ft.

BAGNAL BUILDERS SUPPLY CO INC
919 S EDISTO AVE
COLUMBIA, SC 29205

LUST **U003619680**
UST **N/A**

Relative:
Higher

LUST:

Facility ID: 07599
 Release Number: 1
 Facility Status: Not reported
 Substance: PETRO
 Owner: BAGNAL BUILDERS SUPPLY CO INC
NFA Date: 05/03/00
 Date Confirmed: 01/12/00
 Report Date: 01/12/00
 Rank: Not reported

Actual:
200 ft.

UST:

Facility ID: 7599
 Owner: BAGNAL BUILDERS SUPPLY CO INC
 Owner Contact: SAMMY CRAPPS
 Owner Address: 919 S EDISTO AVE
 Owner City,St,Zip: COLUMBIA, SC 29205-4320
 Owner Phone: Not reported
 Contact: SAMMY CRAPPS
 Contact Tel: Not reported

Tank ID: 1
 Capacity: 12000
 Product: Gasoline
 Calcage: 15
Status: Abandoned

Tank ID: 2
 Capacity: 6000
 Product: Gasoline
 Calcage: 10
Status: Abandoned

14
 WNW
 1/8-1/4
 0.187 mi.
 987 ft.

UNITECH SERVICES GROUP INC
811 S EDISTO AVE
COLUMBIA, SC 29205

RCRA-NonGen **1004781218**
FINDS **SCR000761205**

Relative:
Higher

RCRA-NonGen:

Date form received by agency: 01/09/2006
 Facility name: UNITECH SERVICES GROUP INC
 Facility address: 811 S EDISTO AVE
 COLUMBIA, SC 29205
 EPA ID: SCR000761205
 Mailing address: S EDISTO AVE
 COLUMBIA, SC 29205
 Contact: GLENN ROBERTS
 Contact address: PARKER ST
 SPRINGFIELD, MA 01151
 Contact country: US
 Contact telephone: (413) 543-6911

Actual:
212 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNITECH SERVICES GROUP INC (Continued)

1004781218

Contact email: Not reported
EPA Region: 04
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: UNITECH SERV GROUP
Owner/operator address: 295 PARKER ST
SPRINGFIELD, MA 01151
Owner/operator country: Not reported
Owner/operator telephone: (413) 543-6911
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
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: 01/02/2001
Facility name: UNITECH SERVICES GROUP INC
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

Waste code: D008
Waste name: LEAD

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 01/10/2001
Evaluation: COMPLIANCE ASSISTANCE VISIT
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110002181200

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNITECH SERVICES GROUP INC (Continued)

1004781218

Environmental Interest/Information System

SC-EFIS (South Carolina - Environmental Facility Information System) integrates information on environmental facilities, permits, violations, enforcement actions, and compliance activities needed to support regulatory requirements and target environmental quality improvements for the water, air, solid waste, and hazardous waste program areas. The EFIS was developed by the state of South Carolina and Maine joined their system in 2004.

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.

**C15
NW
1/8-1/4
0.212 mi.
1118 ft.**

**DIXIE LIGHTING
740 SOUTH EDISTO DR
COLUMBIA, SC 29250
Site 1 of 3 in cluster C**

**RCRA-NonGen 1004780673
FINDS SCD987591971**

**Relative:
Higher
Actual:
228 ft.**

RCRA-NonGen:
Date form received by agency: 03/27/2002
Facility name: DIXIE LIGHTING
Facility address: 740 SOUTH EDISTO DR
COLUMBIA, SC 29250
EPA ID: SCD987591971
Mailing address: PO BOX 4685
WEST COLUMBIA, SC 29171
Contact: ZACK TAYLOR
Contact address: PO BOX 4685
WEST COLUMBIA, SC 29171
Contact country: US
Contact telephone: (803) 796-7701
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: JOHN GANTT
Owner/operator address: 30 CUMBERLAND ST
CHARLESTON, SC 29401
Owner/operator country: Not reported
Owner/operator telephone: (803) 577-6808
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DIXIE LIGHTING (Continued)

1004780673

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: 07/29/1992
Facility name: DIXIE LIGHTING
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

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.

Violation Status: No violations found

FINDS:

Registry ID: 110002244660

Environmental Interest/Information System

SC-EFIS (South Carolina - Environmental Facility Information System) integrates information on environmental facilities, permits, violations, enforcement actions, and compliance activities needed to support regulatory requirements and target environmental quality improvements for the water, air, solid waste, and hazardous waste program areas. The EFIS was developed by the state of South Carolina and Maine joined their system in 2004.

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 ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

C16 **HOLT DRIVE TRACK**
NW **2028 HOLT DRIVE**
1/8-1/4 **COLUMBIA, SC 29205**
0.230 mi.
1214 ft. **Site 2 of 3 in cluster C**

CERCLIS **1010417159**
 SCN000410103

Relative:
Higher

CERCLIS:
Site ID: 0410103
EPA ID: SCN000410103
Facility County: RICHLAND
Short Name: HOLT DRIVE TRACK
Congressional District: Not reported
IFMS ID: Not reported
SMSA Number: Not reported
USGC Hydro Unit: Not reported
Federal Facility: Not a Federal Facility
DMNSN Number: Not reported
Site Orphan Flag: Not reported
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: S
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 04
Classification: Not reported
Site Settings Code: Not reported
NPL Status: Not on the NPL
DMNSN Unit Code: Not reported
RBRAC Code: Not reported
RResp Fed Agency Code: Not reported
Non NPL Status: Status Not Specified
Non NPL Status Date: 20070422
Site Fips Code: 45079
CC Concurrence Date: Not reported
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

Actual:
240 ft.

CERCLIS Site Contact Name(s):

Contact ID: 4000275.00000
Contact Name: William Joyner
Contact Tel: (404) 562-8795
Contact Title: Site Assessment Manager (SAM)
Contact Email: joyner.william@epa.gov

Contact ID: 13002538.00000
Contact Name: Corey Hendrix
Contact Tel: (404) 562-8738
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Alias Comments: Not reported
Site Description: 4 acre parcel consist of 3 buildings- previous office for termite exterminating company

CERCLIS Assessment History:

Action Code: 001

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

HOLT DRIVE TRACK (Continued)

1010417159

Action: PRE-CERCLIS SCREENING
 Date Started: Not reported
 Date Completed: 04/22/2007
 Priority Level: Not reported
 Operable Unit: SITEWIDE
 Primary Responsibility: State, Fund Financed
 Planning Status: Not reported
 Urgency Indicator: Not reported
 Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

C17
NW
 1/8-1/4
 0.230 mi.
 1214 ft.

HOLT DRIVE TRACT
2028 HOLT DR
COLUMBIA, SC 29205
 Site 3 of 3 in cluster C

SHWS S108476482
N/A

Relative:
Higher

SHWS:
 EPA ID: SCS123457074

Actual:
240 ft.

D18
ESE
 1/8-1/4
 0.239 mi.
 1261 ft.

COLUMBIA DISTRIBUTING CORP
1007 AIRPORT BLVD
COLUMBIA, SC 29205
 Site 1 of 3 in cluster D

LUST U003520379
UST N/A

Relative:
Lower

LUST:
 Facility ID: 09894
 Release Number: 3
 Facility Status: Not reported
 Substance: PETRO
 Owner: H BURG
NFA Date: 08/25/95
 Date Confirmed: 08/25/95
 Report Date: 01/19/90
 Rank: Not reported

UST:
 Facility ID: 9894
 Owner: BURG
 Owner Contact: L BLOCKER
 Owner Address: PO BOX 996
 Owner City,St,Zip: COLUMBIA, SC 29202-0996
 Owner Phone: 803-799-7000
 Contact: L BLOCKER
 Contact Tel: Not reported

Tank ID: 1
 Capacity: 10000
 Product: Diesel
 Calcage: Not reported
Status: Abandoned

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COLUMBIA DISTRIBUTING CORP (Continued)

U003520379

Tank ID: 2
Capacity: 8000
Product: Gasoline
Calclage: Not reported
Status: Abandoned

19
WNW
1/4-1/2
0.254 mi.
1340 ft.

WILEY ST. PROPERTY
1917 WILEY ST.
COLUMBIA, SC 29205

US BROWNFIELDS **1014350738**
N/A

Relative:
Higher

US BROWNFIELDS:

Actual:
218 ft.

Recipient name: Columbia, City of
Grant type: Assessment
Property name: Wiley St. Property
Property #: Not reported
Parcel size: .5
Latitude: 33.9807429
Longitude: -81.01062
HCM label: Not reported
Map scale: Not reported
Point of reference: Not reported
Datum: World Geodetic System of 1984
ACRES property ID: 111154
Start date: Not reported
Completed date: Not reported
Acres cleaned up: Not reported
Cleanup funding: Not reported
Cleanup funding source: Not reported
Assessment funding: 1300
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: Not reported
Cleanup funding entity: Not reported
Grant type: H
Accomplishment type: Phase I Environmental Assessment
Ownership entity: Not reported
Current owner: Not reported
Did owner change: Not reported
Cleanup required: Unknown
Video available: Not reported
Photo available: Not reported
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

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WILEY ST. PROPERTY (Continued)

1014350738

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: Y
 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: 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
 Unknown found: 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

D20
ESE
1/4-1/2
0.255 mi.
1345 ft.

COLUMBIA OWENS DOWNTOWN AIRPORT
1400 JIM HAMILTON BLVD
COLUMBIA, SC 29201
Site 2 of 3 in cluster D

GWCI U003619177
LUST N/A
UST

Relative:
Higher

SC GWIC:
 Bureau: BLWM
 EAP ID: Not reported
 Solid Waste Permit #: Not reported
 Bureau of Land & Waste Management File #: Not reported
 Permit Number: 11802
 WPC Permit: Not reported
 Program: DUST

Actual:
199 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COLUMBIA OWENS DOWNTOWN AIRPORT (Continued)

U003619177

Contamination:	PETRO
Petroleum Products:	True
Volatile Organic Compounds:	False
Metals:	False
Nitrates or Potential to Nitrate:	False
Pesticides & Herbicides:	False
Polychlorinated Biphenyls:	False
Base, Neutral, & Acid Extractables:	False
Phenols:	False
Radionuclides Over Max Contaminant Levels:	False
Sources Not In Other Categories:	False
Source:	UST
Underground Storage Tanks:	True
Pits, Ponds, & Lagoons:	False
Spills & Leaks:	False
Landfills:	False
Aboveground Storage Tank:	False
Spray Irrigation:	False
Single-Event Spill:	False
Unpermitted Disposal:	False
Septic Tank/Tile Field:	False
Substances Not In Other Categories:	False
Sources of Contamination Undetermined:	False
Assessment:	No
Monitoring:	No
Remediation:	Yes
Surface Impact:	No
Drinking Water Well Impact:	No
Remarks:	Site ID # 11802. RBCA Classification 3BD9. CNFA.

LUST:

Facility ID:	11802
Release Number:	1
Facility Status:	closed > RBSLs
Substance:	PETRO
Owner:	RICHLAND COUNTY FINANCE
NFA Date:	09/19/00
Date Confirmed:	05/08/98
Report Date:	12/22/97
Rank:	3BD

LUST DETAIL:

Release Date:	12/22/1997
Cleanup Complete Date:	Not reported
RP Name:	RICHLAND COUNTY FACILITIES
RP Address:	PO BOX 192
RP City:	COLUMBIA
RP State:	SC
RP Zip:	29202-0192
SCRBCA Class Code:	CLASS3BD
Depth to Ground Water:	Not reported
Ground Water Flow Direction:	Not reported
Project Manager:	MAY, JULIE M
Release Fin Type Code:	With SUPERB

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COLUMBIA OWENS DOWNTOWN AIRPORT (Continued)

U003619177

UST:

Facility ID: 11802
Owner: RICHLAND COUNTY FINANCE
Owner Contact: BILL PETERS
Owner Address: 400 POWELL RD
Owner City,St,Zip: COLUMBIA, SC 29203-9668
Owner Phone: 803-576-2457
Contact: BILL PETERS
Contact Tel: 803-771-7915

Tank ID: 1
Capacity: 10000
Product: Aviation Fuels
Calcage: 10
Status: Currently in use

Tank ID: 2
Capacity: 10000
Product: AVGAS
Calcage: 10
Status: Currently in use

D21
ESE
1/4-1/2
0.255 mi.
1345 ft.

COLUMBIA OWENS DOWNTOWN AIRPORT
1400 JIM HAMILTON BLVD
COLUMBIA, SC 29205
Site 3 of 3 in cluster D

FINDS 1007239427
RCR N/A

Relative:
Higher

FINDS:

Registry ID: 110017110008

Actual:
199 ft.

Environmental Interest/Information System

SC-EFIS (South Carolina - Environmental Facility Information System) integrates information on environmental facilities, permits, violations, enforcement actions, and compliance activities needed to support regulatory requirements and target environmental quality improvements for the water, air, solid waste, and hazardous waste program areas. The EFIS was developed by the state of South Carolina and Maine joined their system in 2004.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

RCR:

Entity Responsibility: Richland County Facilities
Region: 3
Tax Id: 137-02-09-01
Latitude: 33.97199
Longitude: -80.99365
Tracking Number: 11802
Regulatory Program: UST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COLUMBIA OWENS DOWNTOWN AIRPORT (Continued)

1007239427

Unit Type: UST
Unit Number/Letter: 1
Area/Acres: Not reported
Affected Media: Groundwater
Site/Unit: Regulated Petroleum Underground Storage Tank Location
Conditions: Public Noticed Corrective Action Plan
Associated Response/Corrective Action: Not reported
Associated Chemicals Requiring: Benzene Naphthalene

E22
SW
1/4-1/2
0.270 mi.
1423 ft.

ESTECH GENERAL CHEMICALS CORP
1150 SHOP RD
COLUMBIA, SC 29205
Site 1 of 2 in cluster E

CERCLIS 1000200806
FINDS SCD980491369

Relative:
Higher

CERCLIS:
Site ID: 0403354
EPA ID: SCD980491369
Facility County: RICHLAND
Short Name: ESTECH GENERAL CHEMICALS
Congressional District: 02
IFMS ID: Not reported
SMSA Number: 1760
USGC Hydro Unit: 03050110
Federal Facility: Not a Federal Facility
DMNSN Number: 2.00000
Site Orphan Flag: N
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: Not reported
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 04
Classification: Not reported
Site Settings Code: Not reported
NPL Status: Not on the NPL
DMNSN Unit Code: ACRE
RBRAC Code: Not reported
RResp Fed Agency Code: Not reported
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information
Non NPL Status Date: 19931025
Site Fips Code: 45079
CC Concurrence Date: Not reported
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

Actual:
199 ft.

CERCLIS Site Contact Name(s):

Contact ID: 4000583.00000
Contact Name: Craig Zeller
Contact Tel: (404) 562-8827
Contact Title: Remedial Project Manager (RPM)
Contact Email: zeller.craig@epa.gov

Contact ID: 4000234.00000
Contact Name: Ralph Howard

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ESTECH GENERAL CHEMICALS CORP (Continued)

1000200806

Contact Tel: (404) 562-8829
Contact Title: Remedial Project Manager (RPM)
Contact Email: howard.ralph@epa.gov

Contact ID: 4270070.00000
Contact Name: Craig Zeller
Contact Tel: (404) 562-8827
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 4000271.00000
Contact Name: Yvonne Jones
Contact Tel: (404) 562-8793
Contact Title: Remedial Project Manager (RPM)
Contact Email: Not reported

Contact ID: 4000376.00000
Contact Name: Mike Norman
Contact Tel: (404) 562-8792
Contact Title: Remedial Project Manager (RPM)
Contact Email: norman.mike@epa.gov

Contact ID: 4000275.00000
Contact Name: William Joyner
Contact Tel: (404) 562-8795
Contact Title: Site Assessment Manager (SAM)
Contact Email: joyner.william@epa.gov

Contact ID: 4270495.00000
Contact Name: Paul Wagner
Contact Tel: (404) 562-8792
Contact Title: Remedial Project Manager (RPM)
Contact Email: wagner.paul@epa.gov

Contact ID: 13002428.00000
Contact Name: Donna Seadler
Contact Tel: (404) 562-8870
Contact Title: Site Assessment Manager (SAM)
Contact Email: seadler.donna@epa.gov

Contact ID: 13002538.00000
Contact Name: Corey Hendrix
Contact Tel: (404) 562-8738
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

CERCLIS Site Alias Name(s):

Alias ID: 101
Alias Name: ESTECH GENERAL CHEMICALS CORP
Alias Address: Not reported
 RICHLAND, SC
Alias Comments: Not reported
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ESTECH GENERAL CHEMICALS CORP (Continued)

1000200806

Action: DISCOVERY
Date Started: Not reported
Date Completed: 06/01/1981
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 04/01/1984
Priority Level: Low priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: SITE INSPECTION
Date Started: Not reported
Date Completed: 04/18/1985
Priority Level: Low priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: INTEGRATED ASSESSMENT
Date Started: 10/25/1993
Date Completed: 10/25/1993
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

FINDS:

Registry ID: 110009311048

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ESTECH GENERAL CHEMICALS CORP (Continued)

1000200806

Environmental Interest/Information System
 CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

**E23
 SW
 1/4-1/2
 0.274 mi.
 1447 ft.**

**US RECYCLING
 1118 SHOP ROAD
 COLUMBIA, SC 29201
 Site 2 of 2 in cluster E**

**SWRCY S110091512
 N/A**

**Relative:
 Higher**

SWRCY:
 Facility Id: 9872
 Product/Services: Electronic Equipment

**Actual:
 201 ft.**

Facility Id: 9872
 Product/Services: Inkjet Cartridges

 Facility Id: 9872
 Product/Services: Toner Cartridges

**24
 ENE
 1/4-1/2
 0.363 mi.
 1915 ft.**

**ARAMARK UNIFORM SERVICES
 919 AIRPORT BLVD
 COLUMBIA, SC 29205**

**RCRA-SQG 1007114961
 SHWS SCD065052052
 UIC**

**Relative:
 Higher**

RCRA-SQG:
 Date form received by agency: 12/06/2007
 Facility name: ARAMARK UNIFORM SERVICES
 Facility address: 919 AIRPORT BLVD
 WEST COLUMBIA, SC 29169
 EPA ID: SCD065052052
 Mailing address: WILKINSON BLVD
 CHARLOTTE, NC 28208
 Contact: SAM NIEMANN
 Contact address: WILKINSON BLVD
 CHARLOTTE, NC 28208
 Contact country: US
 Contact telephone: (708) 397-9500
 Contact email: Not reported
 EPA Region: 04
 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: ARAMARK UNIFORM SERVICES INC
 Owner/operator address: 115 N FIRST ST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARAMARK UNIFORM SERVICES (Continued)

1007114961

BURBANK, CA 91510
Owner/operator country: Not reported
Owner/operator telephone: (818) 973-3700
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
Owner/Op end date: Not reported

Owner/operator name: ARAMARK UNIFORM & CAREER APPAREL INC
Owner/operator address: N FIRST ST
BURBANK, CA 91502

Owner/operator country: US
Owner/operator telephone: (818) 973-3700
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/31/2003
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
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: 01/31/2003
Facility name: ARAMARK UNIFORM SERVICES
Classification: Small Quantity Generator

Date form received by agency: 01/30/2001
Facility name: ARAMARK UNIFORM SERVICES
Classification: Small Quantity Generator

Date form received by agency: 01/14/2000
Facility name: ARAMARK UNIFORM SERVICES
Classification: Large Quantity Generator

Date form received by agency: 01/03/2000
Facility name: ARAMARK UNIFORM SERVICES
Site name: ARAMARK UNIFORM SERVICES INC
Classification: Large Quantity Generator

Date form received by agency: 03/01/1998
Facility name: ARAMARK UNIFORM SERVICES
Site name: ARAMARK UNIFORM SERVICES INC DEACTIVATE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARAMARK UNIFORM SERVICES (Continued)

1007114961

Classification: Large Quantity Generator
Violation Status: No violations found
SHWS:
EPA ID: SCS123457355

UIC:
Facility Status: Permanently Abandoned
Permit Number: 624
Number Of Wells: 1

Facility Status: Active
Permit Number: 624M1
Number Of Wells: 1

Facility Status: Permanently Abandoned
Permit Number: 624M2
Number Of Wells: 14

Facility Status: Permanently Abandoned
Permit Number: 624M3
Number Of Wells: 6

F25
WNW
1/4-1/2
0.372 mi.
1963 ft.

ROSEWOOD HILLS
720 SUPERIOR ST
COLUMBIA, SC 29205

SHWS S110824217
N/A

Site 1 of 2 in cluster F

Relative:
Lower

SHWS:
EPA ID: SCS123457332

Actual:
196 ft.

26
South
1/4-1/2
0.392 mi.
2070 ft.

CENTRAL EQUIPMENT SUPPLY DEPOT
1500 SHOP RD
COLUMBIA, SC 29201

LUST U003970315
UST N/A

Relative:
Lower

LUST:
Facility ID: 07378
Release Number: 1
Facility Status: conduct invest/risk assessment
Substance: PETRO
Owner: SC DEPARTMENT OF TRANSPORTATION
NFA Date: 10/04/02
Date Confirmed: 06/28/93
Report Date: 12/31/91
Rank: 5A

Actual:
192 ft.

LUST DETAIL:
Release Date: 12/31/1991
Cleanup Complete Date: 07/15/2002
RP Name: SC DEPARTMENT OF TRANSPORTATION
RP Address: PO BOX 191
RP City: COLUMBIA
RP State: SC

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CENTRAL EQUIPMENT SUPPLY DEPOT (Continued)

U003970315

RP Zip: 29202-0191
SCRBCA Class Code: CLASS5A
Depth to Ground Water: 14
Ground Water Flow Direction: Not reported
Project Manager: PADGETT, JOEL P
Release Fin Type Code: DHEC SUPERB with State Lead

Release Date: 12/31/1991
Cleanup Complete Date: 07/15/2002
RP Name: SCDOT
RP Address: PO BOX 191
RP City: COLUMBIA
RP State: SC
RP Zip: 29202-0191
SCRBCA Class Code: CLASS5A
Depth to Ground Water: 14
Ground Water Flow Direction: Not reported
Project Manager: PADGETT, JOEL P
Release Fin Type Code: DHEC SUPERB with State Lead

UST:

Facility ID: 7378
Owner: SC DEPARTMENT OF TRANSPORTATION
Owner Contact: AARON WILLIAMS
Owner Address: PO BOX 191
Owner City,St,Zip: COLUMBIA, SC 29202-0191
Owner Phone: 803-737-4443
Contact: AARON WILLIAMS
Contact Tel: 803-737-6713

Tank ID: 1
Capacity: 12000
Product: Gasoline
Calcage: 15
Status: Abandoned

Tank ID: 10
Capacity: 12000
Product: Diesel
Calcage: 0
Status: Currently in use

Tank ID: 2
Capacity: 10000
Product: Gasoline
Calcage: 15
Status: Abandoned

Tank ID: 3
Capacity: 10000
Product: Gasoline
Calcage: 10
Status: Abandoned

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CENTRAL EQUIPMENT SUPPLY DEPOT (Continued)

U003970315

Tank ID: 4
 Capacity: 10000
 Product: Gasoline
 Calcage: 10
Status: Abandoned

Tank ID: 5
 Capacity: 10000
 Product: Gasoline
 Calcage: 10
Status: Abandoned

Tank ID: 6
 Capacity: 10000
 Product: Diesel
 Calcage: Not reported
Status: Abandoned

Tank ID: 7
 Capacity: 12000
 Product: RUL
 Calcage: 0
Status: Currently in use

Tank ID: 8
 Capacity: 12000
 Product: RUL
 Calcage: 0
Status: Currently in use

Tank ID: 9
 Capacity: 12000
 Product: RUL
 Calcage: 0
Status: Extended out of use

F27
WNW
1/4-1/2
0.401 mi.
2118 ft.

RUS OF COLUMBIA INC
628 SUPERIOR
COLUMBIA, SC 29169
Site 2 of 2 in cluster F

LUST U003524762
UST N/A

Relative:
Higher

LUST:
 Facility ID: 16123
 Release Number: 1
 Facility Status: Not reported
 Substance: PETRO
 Owner: RUS OF COLUMBIA INC
NFA Date: 05/25/96
 Date Confirmed: 02/07/96
 Report Date: 06/28/93
 Rank: Not reported

Actual:
204 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RUS OF COLUMBIA INC (Continued)

U003524762

UST:

Facility ID: 16123
Owner: RUS OF COLUMBIA INC
Owner Contact: DAVID MAXWELL
Owner Address: 153 LOTT CT
Owner City,St,Zip: W COLUMBIA, SC 29169
Owner Phone: 803-796-8605
Contact: DAVID MAXWELL
Contact Tel: -

Tank ID: 1
Capacity: Not reported
Product: Diesel
Calcage: 5
Status: Abandoned

28
SW
1/4-1/2
0.455 mi.
2402 ft.

ESTES EXPRESS LINES
1112 KEY RD
COLUMBIA, SC 29201

RCRA-CESQG 1000914336
FINDS SC0000193516
LUST
UST

Relative:
Lower

RCRA-CESQG:

Date form received by agency: 04/21/2008
Facility name: ESTES EXPRESS LINES
Facility address: 1112 KEY RD
COLUMBIA, SC 29201
EPA ID: SC0000193516
Mailing address: WEST BROAD STREET
RICHMOND, VA 23230
Contact: MARK KOZAK
Contact address: CHESAPEAKE BLVD
ELKTON, MD 21921
Contact country: US
Contact telephone: (410) 392-0328
Contact email: Not reported
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 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

Actual:
183 ft.

Owner/Operator Summary:

Owner/operator name: ESTES EXPRESS LINES
Owner/operator address: WEST BROAD ST
RICHMOND, VA 23230

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ESTES EXPRESS LINES (Continued)

1000914336

Owner/operator country: US
Owner/operator telephone: (804) 353-1900
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 11/19/2007
Owner/Op end date: Not reported

Owner/operator name: ESTES EXPRESS LINES
Owner/operator address: WEST BROAD ST
RICHMOND, VA 23230

Owner/operator country: US
Owner/operator telephone: (804) 353-1900
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 11/19/2007
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: 11/19/2007
Facility name: ESTES EXPRESS LINES
Classification: Small Quantity Generator

Date form received by agency: 05/16/1996
Facility name: ESTES EXPRESS LINES
Classification: Small 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 PENSKEY-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.

Violation Status: No violations found

FINDS:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ESTES EXPRESS LINES (Continued)

1000914336

Registry ID: 110002244526

Environmental Interest/Information System

SC-EFIS (South Carolina - Environmental Facility Information System) integrates information on environmental facilities, permits, violations, enforcement actions, and compliance activities needed to support regulatory requirements and target environmental quality improvements for the water, air, solid waste, and hazardous waste program areas. The EFIS was developed by the state of South Carolina and Maine joined their system in 2004.

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.

LUST:

Facility ID: 12188
Release Number: 1
Facility Status: contacted
Substance: PETRO
Owner: ESTES EXPRESS LINES
NFA Date: 12/11/98
Date Confirmed: 08/05/93
Report Date: 06/30/93
Rank: 5A

LUST DETAIL:

Release Date: 06/30/1993
Cleanup Complete Date: 12/11/1998
RP Name: ESTES EXPRESS LINES
RP Address: PO BOX 25612
RP City: RICHMOND
RP State: VA
RP Zip: 23260
SCRBCA Class Code: CLASS5A
Depth to Ground Water: Not reported
Ground Water Flow Direction: Not reported
Project Manager: CORLEY, H REED
Release Fin Type Code: With SUPERB

UST:

Facility ID: 12188
Owner: ESTES EXPRESS LINES
Owner Contact: LEGREE OSWALD
Owner Address: PO BOX 25612
Owner City,St,Zip: RICHMOND, VA 23260
Owner Phone: 704-597-9130
Contact: LEGREE OSWALD
Contact Tel: 803-779-2747

Tank ID: 1
Capacity: 8000

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ESTES EXPRESS LINES (Continued)

1000914336

Product: Diesel
 Calcage: 20
Status: Abandoned

Tank ID: 2
 Capacity: 8000
 Product: Diesel
 Calcage: 20
Status: Abandoned

Tank ID: 3
 Capacity: 1000
 Product: Gasoline
 Calcage: 20
Status: Abandoned

Tank ID: 4
 Capacity: 1000
 Product: Waste Oil
 Calcage: 20
Status: Abandoned

Tank ID: 5
 Capacity: 10000
 Product: Diesel
 Calcage: 0
Status: Currently in use

29
 North
 1/2-1
 0.523 mi.
 2762 ft.

ARNOLDS PROFESSIONAL GARMENT CARE INC
 2601 ROSEWOOD DR
 COLUMBIA, SC 29205

SHWS S105621446
DRYCLEANERS N/A

Relative:
Higher

SHWS:
 EPA ID: SCDRY0056073

Actual:
274 ft.

Drycleaners:
 BLWM Number: 56073
 Rank: 115

30
 NNE
 1/2-1
 0.755 mi.
 3985 ft.

SCHOONYS CLEANERS
 3010 ROSEWOOD DR
 COLUMBIA, SC 29205

RCRA-CESQG 1000339999
FINDS SCD055069389
SHWS
DRYCLEANERS

Relative:
Higher

RCRA-CESQG:
 Date form received by agency: 07/13/2004
 Facility name: EAGLE CLEANERS
 Facility address: 3010 ROSEWOOD DRIVE
 COLUMBIA, SC 29205

Actual:
258 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SCHOONYS CLEANERS (Continued)

1000339999

EPA ID: SCD055069389
Mailing address: ROSEWOOD DRIVE
COLUMBIA, SC 29205
Contact: ALEX GONZALEZ
Contact address: 3010 ROSEWOOD DRIVE
COLUMBIA, SC 29205
Contact country: US
Contact telephone: (803) 799-0718
Contact email: Not reported
EPA Region: 04
Land type: Private
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 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: OPERNAME
Owner/operator address: OPERSTREET
OPERCITY, WY 99999
Owner/operator country: Not reported
Owner/operator telephone: (404) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/0001
Owner/Op end date: Not reported
Owner/operator name: ROBERT SCHOONOVER SR
Owner/operator address: OWNERSTREET
OWNERCITY, WY 99999
Owner/operator country: Not reported
Owner/operator telephone: (404) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SCHOONYS CLEANERS (Continued)

1000339999

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: 08/13/1986
Facility name: EAGLE CLEANERS
Site name: SCHOONYS CLEANERS
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 PENSKEY-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: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 07/13/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110002243359

Environmental Interest/Information System

SC-EFIS (South Carolina - Environmental Facility Information System) integrates information on environmental facilities, permits, violations, enforcement actions, and compliance activities needed to support regulatory requirements and target environmental quality improvements for the water, air, solid waste, and hazardous waste program areas. The EFIS was developed by the state of South Carolina

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SCHOONYS CLEANERS (Continued)

1000339999

and Maine joined their system in 2004.

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.

SHWS:
EPA ID: SCD055069389

Drycleaners:
BLWM Number: 51479
Rank: 36

31
SSE
1/2-1
0.953 mi.
5030 ft.

PALMETTO ANTIQUE FLOORING AND SALVAGE
1125 JOE LOUIS DR
COLUMBIA, SC 29201

SHWS 1010383221
N/A

Relative:
Lower

SHWS:
EPA ID: SC0000280038

Actual:
170 ft.

Count: 38 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
AWENDAW	U004017661	USDA FOREST SERVICE	US HWY 17	29201	UST
BATESBURG	U003520568	CRAPPS GROCERY	RT 2	29201	LUST, UST
BRADLEY	U003526278	USDA FOREST SERVICE	US HWY 221	29201	LUST, UST
CATAWBA	U003523088	LANDSFORD CANAL STATE PARK	RT 1	29201	UST
COLUMBIA	S105527995	CAROLINA EASTMAN CO	1 MI & DR	29201	SHWS
COLUMBIA	U003522673	JACKSONS	RT 1		UST
COLUMBIA	S105860839	HIGHMARKET EXXON	HWY 17 & HIGHMARKET ST	29201	LUST
COLUMBIA	S105528198	POLYMER EQUIPMENT SITE	S 1790	29201	SHWS
COLUMBIA	1003868405	RICHLAND COUNTY LANDFILL	60 MI 215N	29201	CERC-NFRAP, RCRA-NonGen, FINDS, SHWS
COLUMBIA	1014350733	RANDOLPH TRUCKING (COMMERCE DR.) P	2208TH & 2218 COMMERCE DR	29205	US BROWNFIELDS
COLUMBIA	U003525028	SC SCHOOL BUS DEPOT	RT 5 N		UST
COLUMBIA	1003869792	COLUMBIA SUPPLY COMPANY FABRICATIO	HIGHWAY 555	29201	CERC-NFRAP
COLUMBIA	S105528021	COLUMBIA LANDFILL	SC 768TH & 4 MILE FROM INT S	29201	SHWS
COLUMBIA	S105899966	AIRLINE DRIVE ASPHALT SPILL	AIRLINE DR NEXT TO RAILROAD TR	29205	SHWS
COLUMBIA	U003930491	SC DEPT OF MENTAL HEALTH	ALLAN BLDG	29201	GWCI, LUST, UST
COLUMBIA	S107599665	FMR ED ROBINSON LAUNDRY & DRY CLEA	1000 BLOCK GERVAIS ST W	29201	SHWS, DRYCLEANERS
COLUMBIA	S105528044	DIVEX/BOOKMAN LOOP	BOOKMAN LOOP RD	29201	SHWS
COLUMBIA	1006426222	PONTIAC PRECISION BOMBING RANGE (A	COLUMBIA ARMY AIR BASE		CERCLIS, FINDS
COLUMBIA	1011961451	VCC-GLOBE	NE CORNER OF CATAWBA & GADSDEN		CERCLIS
COLUMBIA	1011845393	VCC COLUMBIA	NW CORNER OF GADSDEN	29201	CERCLIS
COLUMBIA	U001539668	GASLO 745	2500 4 DECKER RD		GWCI, LUST, UST
COLUMBIA	1000156169	NEWELL RUBBERMAID	10700 FARROW RD		CERC-NFRAP, RCRA-NonGen, FINDS, SHWS
COLUMBIA	S109362349	USC COLISEUM PARKING LOTS	GREENE ST	29201	SHWS
COLUMBIA	S108953962	ALLIED CHEMICAL FIBER DIV	INT PINEY GROVE RD & SAINT AN	29201	SHWS
COLUMBIA	1003868504	COLUMBIA LANDFILL	JCT SC HWY 768 & S. BELTLINE	29201	CERC-NFRAP
COLUMBIA	1003869739	DIVEX/LITTLETON	LITTLETON RD	29201	CERC-NFRAP, SHWS
COLUMBIA	S106234011	COLUMBIA PINTSCH GAS PLANT	OFF OF RICE ST	29205	SHWS
COLUMBIA	U000483446	YOUNGS 24	PINESTRAW LN		GWCI, LUST, UST
COLUMBIA	U003970326	GULF SERVICE STATION 24225	PINEY GROVE RD & I 26		GWCI, LUST, UST
COLUMBIA	U003524881	SC DEPT OF MENTAL HEALTH	PRESTON BLDG	29201	GWCI, LUST, UST
COLUMBIA	U004017557	NEW CHINA RESTAURANT	3530 RIVER DR AT SUNSET BLVD		GWCI, LUST, UST
COLUMBIA	S106630551	RUSHMORE SITE	RUSHMORE DR	29201	SHWS
COLUMBIA	U003524893	SC DHEC MAINTENANCE	STATE PARK		UST
COLUMBIA	S105528032	COOPER TOOLS	USHY 1 NEARINTERSECTIONOF & S		VCP
EDGEFIELD	U003526277	USDA FOREST SERVICE	SC HWY 283 11 MI W OF	29201	LUST, UST
NEWBERRY	1007449377	SCDOT HWY 395	502 HWY 395	29201	RCRA-NonGen
WALHALLA	U003526281	USDA FOREST SERVICE	STUMPHOUSE RANGER STA STAR RT	29201	UST
WHITMIRE	U003975479	USDA FOREST SERVICE	RT 1 BOX 179	29201	UST

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 (EPIC) and regional EPA offices.

Date of Government Version: 06/30/2011	Source: EPA
Date Data Arrived at EDR: 07/12/2011	Telephone: N/A
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 01/11/2012
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/23/2012
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
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: 06/30/2011	Source: EPA
Date Data Arrived at EDR: 07/12/2011	Telephone: N/A
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 01/11/2012
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/23/2012
	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 compiles 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: 06/30/2011	Source: EPA
Date Data Arrived at EDR: 07/12/2011	Telephone: N/A
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 01/10/2012
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/23/2012
	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: 02/25/2011	Source: EPA
Date Data Arrived at EDR: 03/01/2011	Telephone: 703-412-9810
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 11/29/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 03/12/2012
	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: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 01/13/2012
Number of Days to Update: 36	Next Scheduled EDR Contact: 04/23/2012
	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: 02/25/2011	Source: EPA
Date Data Arrived at EDR: 03/01/2011	Telephone: 703-412-9810
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 11/29/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 03/12/2012
	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: 08/19/2011
Date Data Arrived at EDR: 08/31/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 132

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/14/2011
Next Scheduled EDR Contact: 02/27/2012
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 offsite 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: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 01/05/2012
Next Scheduled EDR Contact: 04/16/2012
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: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 01/05/2012
Next Scheduled EDR Contact: 04/16/2012
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: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 01/05/2012
Next Scheduled EDR Contact: 04/16/2012
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: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 01/05/2012
Next Scheduled EDR Contact: 04/16/2012
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: 12/30/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/30/2011	Telephone: 703-603-0695
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 12/09/2011
Number of Days to Update: 11	Next Scheduled EDR Contact: 03/26/2012
	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: 12/30/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/30/2011	Telephone: 703-603-0695
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 12/09/2011
Number of Days to Update: 11	Next Scheduled EDR Contact: 03/26/2012
	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: 10/03/2011	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 10/04/2011	Telephone: 202-267-2180
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 01/06/2012
Number of Days to Update: 38	Next Scheduled EDR Contact: 04/16/2012
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Site Assessment Section Project List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 10/06/2011	Source: Department of Health and Environmental Control
Date Data Arrived at EDR: 10/11/2011	Telephone: 803-734-5376
Date Made Active in Reports: 10/31/2011	Last EDR Contact: 12/19/2011
Number of Days to Update: 20	Next Scheduled EDR Contact: 04/02/2012
	Data Release Frequency: Annually

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

SWF/LF: Permitted Landfills List

Solid Waste Facilities/Landfill Sites. SWF/LF 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/06/2011
Date Data Arrived at EDR: 10/06/2011
Date Made Active in Reports: 10/31/2011
Number of Days to Update: 25

Source: Department of Health and Environmental Control
Telephone: 803-734-5165
Source: Department of Health and Environmental Control, GIS Section
Telephone: 803-896-4084
Last EDR Contact: 12/19/2011
Next Scheduled EDR Contact: 04/02/2012
Data Release Frequency: Varies

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 08/31/2011
Date Data Arrived at EDR: 08/31/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 37

Source: Department of Health and Environmental Control
Telephone: 803-898-4350
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Quarterly

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: 08/18/2011
Date Data Arrived at EDR: 08/19/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 25

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/01/2011
Date Data Arrived at EDR: 11/21/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 50

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
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: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Varies

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: 10/01/2011
Date Data Arrived at EDR: 11/01/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 10

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/02/2011
Date Data Arrived at EDR: 11/04/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 7

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Semi-Annually

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: 12/05/2011
Date Data Arrived at EDR: 12/07/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Comprehensive Underground Storage Tanks
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: 08/31/2011
Date Data Arrived at EDR: 08/31/2011
Date Made Active in Reports: 10/06/2011
Number of Days to Update: 36

Source: Department of Health and Environmental Control
Telephone: 803-896-7957
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Quarterly

AST: Aboveground Storage Tank List
Registered Aboveground Storage Tanks.

Date of Government Version: 03/25/2004
Date Data Arrived at EDR: 08/04/2004
Date Made Active in Reports: 09/23/2004
Number of Days to Update: 50

Source: Department of Health and Environmental Control
Telephone: 803-898-4350
Last EDR Contact: 12/05/2011
Next Scheduled EDR Contact: 03/19/2012
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: 08/18/2011
Date Data Arrived at EDR: 08/19/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 25

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Quarterly

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).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/01/2011
Date Data Arrived at EDR: 11/21/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 50

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Varies

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: 07/01/2011
Date Data Arrived at EDR: 08/26/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 18

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Varies

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: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Semi-Annually

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: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Semi-Annually

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: 11/02/2011
Date Data Arrived at EDR: 11/04/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 7

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
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: 11/28/2011
Date Data Arrived at EDR: 11/29/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 42

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Quarterly

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).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/01/2011	Source: EPA, Region 1
Date Data Arrived at EDR: 11/01/2011	Telephone: 617-918-1313
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 10/31/2011
Number of Days to Update: 10	Next Scheduled EDR Contact: 02/13/2012
	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	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 01/16/2012
Number of Days to Update: 55	Next Scheduled EDR Contact: 04/30/2012
	Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

RCR: Registry of Conditional Remedies

The Bureau of Land and Waste Management established this Registry to help monitor and maintain sites that have conditional remedies. A Conditional Remedy is an environmental remedy that includes certain qualifications. These qualifications are divided into two major categories: Remedies requiring Land Use Controls and Conditional No Further Actions.

Date of Government Version: 09/20/2011	Source: Department of Health & Environmental Control
Date Data Arrived at EDR: 09/22/2011	Telephone: 803-896-4000
Date Made Active in Reports: 10/07/2011	Last EDR Contact: 12/21/2011
Number of Days to Update: 15	Next Scheduled EDR Contact: 04/02/2012
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Sites

Sites participating in the Voluntary Cleanup Program. Once staff and a non-responsible party have agreed upon an approved scope of work for a site investigation and/or remediation, the party enters into a voluntary cleanup contract. Staff oversees the cleanup efforts to ensure that activities are performed to our satisfaction. Upon completion of the negotiated work in the voluntary cleanup contract, the non-responsible party receives State Superfund liability protection.

Date of Government Version: 09/20/2011	Source: Department of Health and Environmental Control
Date Data Arrived at EDR: 09/22/2011	Telephone: 803-896-4049
Date Made Active in Reports: 10/07/2011	Last EDR Contact: 12/21/2011
Number of Days to Update: 15	Next Scheduled EDR Contact: 04/02/2012
	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	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	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: 08/04/2011	Source: EPA, Region 1
Date Data Arrived at EDR: 10/04/2011	Telephone: 617-918-1102
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 01/06/2012
Number of Days to Update: 38	Next Scheduled EDR Contact: 04/16/2012
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Sites Listing

The Brownfields component of the Voluntary Cleanup Program allows a non-responsible party to acquire a contaminated property with State Superfund liability protection for existing contamination by agreeing to perform an environmental assessment and/or remediation.

Date of Government Version: 10/24/2011
Date Data Arrived at EDR: 10/26/2011
Date Made Active in Reports: 10/31/2011
Number of Days to Update: 5

Source: Department of Health & Environmental Control
Telephone: 803-896-4069
Last EDR Contact: 01/03/2012
Next Scheduled EDR Contact: 04/16/2012
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 06/27/2011
Date Data Arrived at EDR: 06/27/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/27/2011
Next Scheduled EDR Contact: 04/09/2012
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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

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: 12/21/2011
Next Scheduled EDR Contact: 04/09/2012
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWRCY: Solid Waste Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 11/16/2009
Date Data Arrived at EDR: 12/23/2009
Date Made Active in Reports: 01/27/2010
Number of Days to Update: 35

Source: Department of Health & Environmental Control
Telephone: 803-896-8985
Last EDR Contact: 12/07/2011
Next Scheduled EDR Contact: 03/19/2012
Data Release Frequency: Varies

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: 11/07/2011
Next Scheduled EDR Contact: 02/20/2012
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: 10/07/2011
Date Data Arrived at EDR: 12/09/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 32

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 12/05/2011
Next Scheduled EDR Contact: 03/19/2012
Data Release Frequency: Quarterly

ALLSITES: Site Assessment & Remediation Public Record Database

The South Carolina Department of Health and Environmental Control is pleased to have the Public Record for your review. The purpose of this database is two-fold. First, it will provide to communities another form of notice of cleanup activity, allowing them to have more information about assessment and cleanup activities in their area and in the State. Second, it can assist those seeking to redevelop brownfield properties within South Carolina.

Date of Government Version: 11/16/2011
Date Data Arrived at EDR: 11/17/2011
Date Made Active in Reports: 12/21/2011
Number of Days to Update: 34

Source: Department of Health & Environmental Control
Telephone: 803-896-4000
Last EDR Contact: 12/27/2011
Next Scheduled EDR Contact: 04/16/2012
Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Sites

A listing of clandestine drug lab site locations.

Date of Government Version: 11/21/2011
Date Data Arrived at EDR: 01/03/2012
Date Made Active in Reports: 01/09/2012
Number of Days to Update: 6

Source: Department of Health & Environmental Control
Telephone: 803-896-4288
Last EDR Contact: 11/07/2011
Next Scheduled EDR Contact: 02/06/2012
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
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: 09/09/2011
Date Data Arrived at EDR: 09/16/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
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: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/22/2011
Next Scheduled EDR Contact: 03/05/2012
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: 10/04/2011
Date Data Arrived at EDR: 10/04/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 38

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/03/2012
Next Scheduled EDR Contact: 04/16/2012
Data Release Frequency: Annually

SPILLS: Spill List

Spills and releases of petroleum and hazardous chemicals reported to the Oil & Chemical Emergency Response division.

Date of Government Version: 09/27/2011
Date Data Arrived at EDR: 09/28/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 9

Source: Department of Health and Environmental Control
Telephone: 803-898-4111
Last EDR Contact: 12/05/2011
Next Scheduled EDR Contact: 03/19/2012
Data Release Frequency: Varies

Other Ascertainable Records

RCRA-NonGen: 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: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 01/05/2012
Next Scheduled EDR Contact: 04/16/2012
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/29/2011
Date Data Arrived at EDR: 08/09/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 94

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/08/2011
Next Scheduled EDR Contact: 02/20/2012
Data Release Frequency: Varies

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: 10/20/2011
Next Scheduled EDR Contact: 01/30/2012
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: 12/31/2009
Date Data Arrived at EDR: 08/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/09/2011
Next Scheduled EDR Contact: 03/26/2012
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: 09/01/2011
Date Data Arrived at EDR: 11/18/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 53

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/27/2011
Next Scheduled EDR Contact: 04/16/2012
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: 09/28/2011
Date Data Arrived at EDR: 12/14/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 27

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/14/2011
Next Scheduled EDR Contact: 03/26/2012
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 mills 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: 10/21/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 99

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/29/2011
Next Scheduled EDR Contact: 03/12/2012
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 08/18/2011
Date Data Arrived at EDR: 09/08/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/07/2011
Next Scheduled EDR Contact: 03/19/2012
Data Release Frequency: Semi-Annually

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: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 12/02/2011
Next Scheduled EDR Contact: 03/12/2012
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: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/27/2011
Next Scheduled EDR Contact: 04/09/2012
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: 11/28/2011
Next Scheduled EDR Contact: 03/12/2012
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) inspections 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: 11/28/2011
Next Scheduled EDR Contact: 03/12/2012
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.

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: 12/17/2007
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.

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: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
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: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 12/21/2011
Next Scheduled EDR Contact: 04/09/2012
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/19/2011
Next Scheduled EDR Contact: 01/30/2012
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: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/12/2011
Next Scheduled EDR Contact: 03/26/2012
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/11/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/13/2011	Telephone: 202-343-9775
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 01/12/2012
Number of Days to Update: 34	Next Scheduled EDR Contact: 04/23/2012
	Data Release Frequency: Quarterly

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: 08/02/2011	Source: EPA
Date Data Arrived at EDR: 09/13/2011	Telephone: (404) 562-9900
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 12/13/2011
Number of Days to Update: 119	Next Scheduled EDR Contact: 03/26/2012
	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	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

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: 12/31/2009	Source: EPA/NTIS
Date Data Arrived at EDR: 03/01/2011	Telephone: 800-424-9346
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 11/30/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 03/12/2012
	Data Release Frequency: Biennially

GWCI: Groundwater Contamination Inventory

An inventory of all groundwater contamination cases in the state.

Date of Government Version: 07/01/2008	Source: Department of Health and Environmental Control
Date Data Arrived at EDR: 11/06/2008	Telephone: 803-898-3798
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 01/03/2012
Number of Days to Update: 13	Next Scheduled EDR Contact: 04/16/2012
	Data Release Frequency: Annually

UIC: Underground Injection Wells Listing

A listing of underground injection wells locations.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/29/2011
Date Data Arrived at EDR: 11/30/2011
Date Made Active in Reports: 12/21/2011
Number of Days to Update: 21

Source: Department of Health & Environmental Control
Telephone: 803-898-3799
Last EDR Contact: 11/28/2011
Next Scheduled EDR Contact: 02/27/2012
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Database

The Drycleaning Facility Restoration Trust Fund database is used to access, prioritize and cleanup contaminated registered drycleaning sites.

Date of Government Version: 12/01/2010
Date Data Arrived at EDR: 02/11/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 32

Source: Department of Health & Environmental Control
Telephone: 803-898-3882
Last EDR Contact: 11/11/2011
Next Scheduled EDR Contact: 02/20/2012
Data Release Frequency: Varies

NPDES: Waste Water Treatment Facilities Listing

A listing of waste water treatment facility locations.

Date of Government Version: 09/26/2011
Date Data Arrived at EDR: 09/26/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 11

Source: Department of Health & Environmental Control
Telephone: 803-898-4300
Last EDR Contact: 12/23/2011
Next Scheduled EDR Contact: 04/09/2012
Data Release Frequency: Varies

AIRS: Permitted Airs Facility Listing

A listing of permitted air facilities.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 04/15/2011
Date Made Active in Reports: 05/26/2011
Number of Days to Update: 41

Source: Department of Health & Environmental Control
Telephone: 803-898-4279
Last EDR Contact: 12/05/2011
Next Scheduled EDR Contact: 03/19/2012
Data Release Frequency: Varies

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: 10/20/2011
Next Scheduled EDR Contact: 01/30/2012
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: 10/24/2011
Next Scheduled EDR Contact: 02/06/2012
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

A listing of sites with coal ash ponds.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/31/2009
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 08/17/2009
Number of Days to Update: 10

Source: Department of Health & Environmental Control
Telephone: 803-898-3964
Last EDR Contact: 12/23/2011
Next Scheduled EDR Contact: 04/09/2012
Data Release Frequency: Varies

FINANCIAL ASSURANCE 3: Financial Assurance Information Listing

UST financial assurance information.

Date of Government Version: 05/25/2011
Date Data Arrived at EDR: 05/27/2011
Date Made Active in Reports: 06/30/2011
Number of Days to Update: 34

Source: Department of Health & Environmental Control
Telephone: 803-898-3880
Last EDR Contact: 12/05/2011
Next Scheduled EDR Contact: 03/19/2012
Data Release Frequency: Varies

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing

Hazardous waste financial assurance information.

Date of Government Version: 09/01/2011
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 36

Source: Department of Health & Environmental Control
Telephone: 803-898-3880
Last EDR Contact: 12/19/2011
Next Scheduled EDR Contact: 04/02/2012
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated 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: 10/20/2011
Next Scheduled EDR Contact: 01/30/2012
Data Release Frequency: N/A

COAL ASH DOE: Sleam-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: 202-586-8719
Last EDR Contact: 12/08/2011
Next Scheduled EDR Contact: 01/30/2012
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

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: 11/04/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Varies

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: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/08/2011
Next Scheduled EDR Contact: 03/26/2012
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINANCIAL ASSURANCE: Financial Assurance Information Listing

Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 09/21/2011
Date Data Arrived at EDR: 09/22/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 15

Source: Department of Health & Environmental Control
Telephone: 803-896-4067
Last EDR Contact: 12/19/2011
Next Scheduled EDR Contact: 04/02/2012
Data Release Frequency: Quarterly

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: 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 whale 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 (oily 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

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: 11/21/2011
Date Data Arrived at EDR: 11/22/2011
Date Made Active in Reports: 12/22/2011
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/22/2011
Next Scheduled EDR Contact: 03/05/2012
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 07/20/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 22

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/18/2011
Next Scheduled EDR Contact: 01/30/2012
Data Release Frequency: Annually

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/01/2011
Date Data Arrived at EDR: 11/08/2011
Date Made Active in Reports: 12/22/2011
Number of Days to Update: 44

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/08/2011
Next Scheduled EDR Contact: 02/20/2012
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 06/24/2011
Date Made Active in Reports: 06/30/2011
Number of Days to Update: 6

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/28/2011
Next Scheduled EDR Contact: 03/12/2012
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 08/19/2011
Date Made Active in Reports: 09/15/2011
Number of Days to Update: 27

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/19/2011
Next Scheduled EDR Contact: 04/02/2012
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.

Electric Power Transmission Line Data

Source: Rextag Strategies Corp.

Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

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.

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Day Care List

Source: Department of Social Services

Telephone: 803-898-7345

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 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 803-734-9494

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

SEACO, INC
2700 WILLIAM TULLER DR
COLUMBIA, SC 29205

TARGET PROPERTY COORDINATES

Latitude (North):	33.9769 - 33° 58' 36.83"
Longitude (West):	81.0081 - 81° 0' 29.17"
Universal Transverse Mercator:	Zone 17
UTM X (Meters):	499251.8
UTM Y (Meters):	3759400.2
Elevation:	199 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	33081-H1 SOUTHWEST COLUMBIA, SC
Most Recent Revision:	1994
East Map:	33080-H8 FORT JACKSON SOUTH, SC
Most Recent Revision:	1987

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).

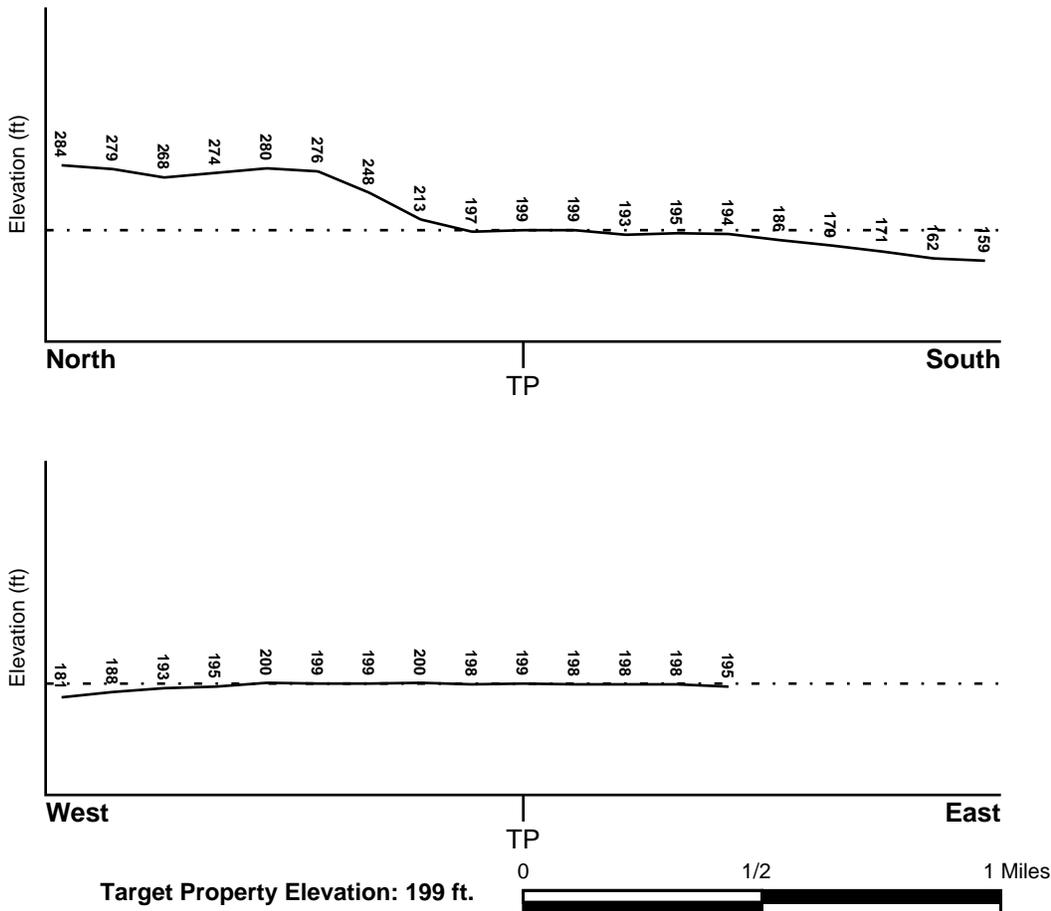
TOPOGRAPHIC INFORMATION

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 South

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

<u>Target Property County</u> RICHLAND, SC	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
---	--

Flood Plain Panel at Target Property: 45079C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> SOUTHWEST COLUMBIA	NWI Electronic <u>Data Coverage</u> 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.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
1	1/8 - 1/4 Mile ESE	Not Reported
6	1/2 - 1 Mile SW	Not Reported
8	1/2 - 1 Mile South	W
A10	1/2 - 1 Mile NNE	Not Reported
A11	1/2 - 1 Mile NNE	ESE

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

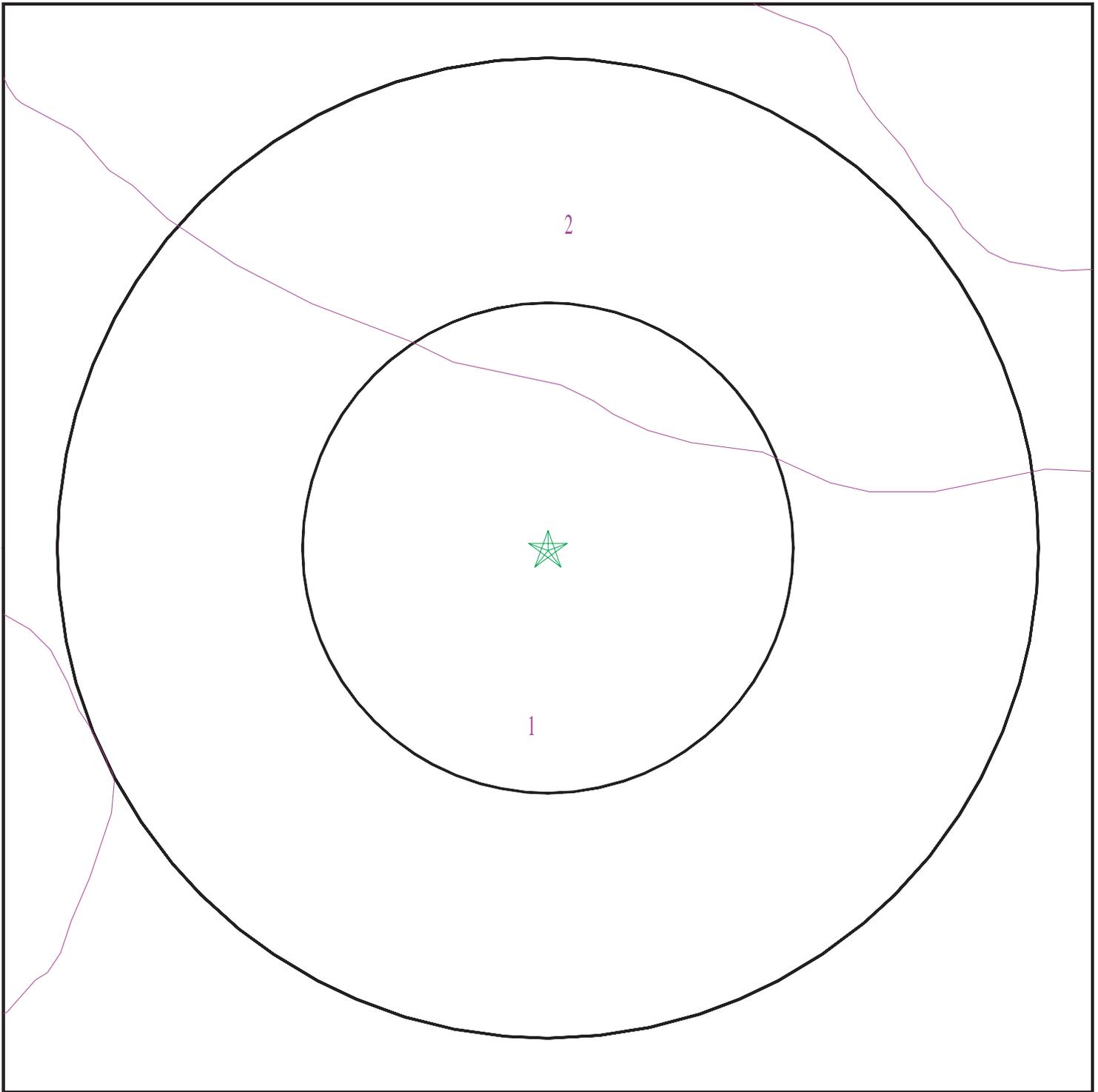
Era: Mesozoic
System: Cretaceous
Series: Woodbine and Tuscaloosa Groups
Code: uK1 (*decoded above as Era, System & Series*)

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 - 03237245.1r



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: SEACO, Inc
ADDRESS: 2700 William Tuller Dr
Columbia SC 29205
LAT/LONG: 33.9769 / -81.0081

CLIENT: Environ Corporation
CONTACT: Jon Bradshaw
INQUIRY #: 03237245.1r
DATE: January 17, 2012 4:52 pm

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: Lakeland

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Unknown

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	29 inches	sand	Not reported	Not reported	Max: 141 Min: 42	Max: 6 Min: 4.5
2	29 inches	98 inches	sand	Not reported	Not reported	Max: 141 Min: 42	Max: 6 Min: 4.5

Soil Map ID: 2

Soil Component Name: Dothan

Soil Surface Texture:

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 91 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	7 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 6 Min: 4.5
2	7 inches	16 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 6 Min: 4.5
3	16 inches	37 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 6 Min: 4.5
4	37 inches	77 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 6 Min: 4.5

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

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	SCWC30000010155	1/4 - 1/2 Mile SSE
3	SCWC30000010189	1/4 - 1/2 Mile East
4	SCWC30000010174	1/2 - 1 Mile WSW
5	SCWC30000010135	1/2 - 1 Mile SSE
7	SCWC30000010299	1/2 - 1 Mile NNE
9	SCWC30000010327	1/2 - 1 Mile NNW
12	SCWC30000010114	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 03237245.1r



- 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
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location



SITE NAME: SEACO, Inc
ADDRESS: 2700 William Tuller Dr
 Columbia SC 29205
LAT/LONG: 33.9769 / -81.0081

CLIENT: Environ Corporation
CONTACT: Jon Bradshaw
INQUIRY #: 03237245.1r
DATE: January 17, 2012 4:52 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
ESE
1/8 - 1/4 Mile
Lower

Site ID: N-40-NN-12852
 Groundwater Flow: Not Reported
 Shallowest Water Table Depth: Not Reported
 Deepest Water Table Depth: Not Reported
 Average Water Table Depth: 9
 Date: 05/26/1993

AQUIFLOW 41416

2
SSE
1/4 - 1/2 Mile
Lower

Conum: RIC-204
 Latn: 335820
 Longn: 810025
 Utm e: 499358
 Utm n: 3758882
 Topo: Southwest Columbia
 Elev: 0
 Owner: Columbia Wood Preserving Co.
 Location: Shop Road
 Depth d: 0
 Depth c: 90
 Diam 1: 4
 Diam 2: Not Reported
 Screen t: 0
 Screen b: 90
 Drill yr: 1962
 Yield: 5
 Yield yr: Not Reported
 D logs: 0
 P test: 0
 Chem: Not Reported
 Wl yr: Not Reported
 Site id: SCWC30000010155

Scgrid: 31P-j1
 Owner well: Not Reported
 Use: Abandoned
 Oh cas: Not Reported
 Drill mo: Not Reported
 G logs: Not Reported
 WI: 45
 Driller: Heater Well Co.

SC WELLS SCWC30000010155

3
East
1/4 - 1/2 Mile
Lower

Conum: RIC-281
 Latn: 335835
 Longn: 810002
 Utm e: 499949
 Utm n: 3759344
 Topo: Southwest Columbia
 Elev: 0
 Owner: Colprovia Asphalt Inc.
 Location: near Owens Field
 Depth d: 0

Scgrid: 31P-j3
 Owner well: Not Reported
 Use: Not Reported

SC WELLS SCWC30000010189

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Depth c:	58		
Diam 1:	4		
Diam 2:	Not Reported	Oh cas:	Not Reported
Screen t:	0		
Screen b:	58		
Drill yr:	1966	Drill mo:	Not Reported
Yield:	0		
Yield yr:	Not Reported	G logs:	Not Reported
D logs:	0		
P test:	0		
Chem:	Not Reported	WI:	Not Reported
Wl yr:	Not Reported	Driller:	Heater Well Co.
Remarks:	Fe = 32 ppm. pH = 4.4		
Site id:	SCWC30000010189		

4
WSW
1/2 - 1 Mile
Higher

SC WELLS SCWC30000010174

Conum:	RIC-132	Scgrid:	31P-i1
Latn:	335830		
Longn:	810105		
Utm e:	498332		
Utm n:	3759190		
Topo:	Southwest Columbia		
Elev:	200		
Owner:	The State Newspaper	Owner well:	Not Reported
Location:	Columbia	Use:	Industrial
Depth d:	88		
Depth c:	76		
Diam 1:	6		
Diam 2:	Not Reported	Oh cas:	Not Reported
Screen t:	26		
Screen b:	66		
Drill yr:	1954	Drill mo:	10
Yield:	40		
Yield yr:	1954	G logs:	Not Reported
D logs:	1		
P test:	0		
Chem:	Not Reported	WI:	Not Reported
Wl yr:	Not Reported	Driller:	Heater Well Co.
Site id:	SCWC30000010174		

5
SSE
1/2 - 1 Mile
Lower

SC WELLS SCWC30000010135

Conum:	RIC-205	Scgrid:	31P-j2
Latn:	335810		
Longn:	810010		
Utm e:	499743		
Utm n:	3758574		
Topo:	Southwest Columbia		
Elev:	0		
Owner:	Columbia Wood Preserving Co.	Owner well:	Not Reported
Location:	Shop Road	Use:	Not Reported
Depth d:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Depth c:	50		
Diam 1:	4		
Diam 2:	Not Reported	Oh cas:	Not Reported
Screen t:	0		
Screen b:	50		
Drill yr:	1962	Drill mo:	Not Reported
Yield:	15		
Yield yr:	Not Reported	G logs:	Not Reported
D logs:	0		
P test:	0		
Chem:	C	WI:	18
Wl yr:	Not Reported	Driller:	Getzen
Site id:	SCWC30000010135		

**6
SW
1/2 - 1 Mile
Lower**

Site ID:	N-40-NN-14172		
Groundwater Flow:	Not Reported	AQUIFLOW	41408
Shallowest Water Table Depth:	Not Reported		
Deepest Water Table Depth:	Not Reported		
Average Water Table Depth:	15.77		
Date:	11/1996		

**7
NNE
1/2 - 1 Mile
Higher**

SC WELLS SCWC30000010299

Conum:	RIC-139	Scgrid:	31P-a5
Latn:	335908		
Longn:	810005		
Utm e:	499872		
Utm n:	3760360		
Topo:	Southwest Columbia		
Elev:	310		
Owner:	Epworth Children's Home	Owner well:	Well 2
Location:	Millwood Ave., Columbia	Use:	Irrigation
Depth d:	0		
Depth c:	130		
Diam 1:	5		
Diam 2:	Not Reported	Oh cas:	Not Reported
Screen t:	125		
Screen b:	130		
Drill yr:	1956	Drill mo:	5
Yield:	15		
Yield yr:	1956	G logs:	Not Reported
D logs:	0		
P test:	0		
Chem:	Not Reported	WI:	90
Wl yr:	1956	Driller:	Rabon
Site id:	SCWC30000010299		

**8
South
1/2 - 1 Mile
Lower**

Site ID:	N-40-NN-07448		
Groundwater Flow:	W	AQUIFLOW	32456
Shallowest Water Table Depth:	Not Reported		
Deepest Water Table Depth:	Not Reported		
Average Water Table Depth:	Not Reported		
Date:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

9		SC WELLS	SCWC30000010327
NNW			
1/2 - 1 Mile			
Higher			
Conum:	RIC-221	Scgrid:	31P-a2
Latn:	335915		
Longn:	810045		
Utm e:	498845		
Utm n:	3760576		
Topo:	Southwest Columbia		
Elev:	0		
Owner:	W. W. Coughman	Owner well:	Not Reported
Location:	Columbia	Use:	Domestic
Depth d:	0		
Depth c:	130		
Diam 1:	0		
Diam 2:	Not Reported	Oh cas:	Not Reported
Screen t:	0		
Screen b:	0		
Drill yr:	1956	Drill mo:	8
Yield:	7		
Yield yr:	Not Reported	G logs:	Not Reported
D logs:	0		
P test:	0		
Chem:	Not Reported	WI:	30
Wl yr:	1956	Driller:	Heater Well Co.
Remarks:	Open-hole rock well. Location estimated.		
Site id:	SCWC30000010327		

A10	Site ID:	N-40-NO-07696	
NNE	Groundwater Flow:	Not Reported	AQUIFLOW 37224
1/2 - 1 Mile	Shallowest Water Table Depth:	Not Reported	
Higher	Deepest Water Table Depth:	Not Reported	
	Average Water Table Depth:	19.40	
	Date:	01/07/1999	

A11	Site ID:	P-40-NM-07634	
NNE	Groundwater Flow:	ESE	AQUIFLOW 32358
1/2 - 1 Mile	Shallowest Water Table Depth:	19.40	
Higher	Deepest Water Table Depth:	34.54	
	Average Water Table Depth:	Not Reported	
	Date:	09/28/1994	

12		SC WELLS	SCWC30000010114
SW			
1/2 - 1 Mile			
Lower			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Conum:	RIC-134	Scgrid:	31P-i2
Latn:	335800		
Longn:	810100		
Utm e:	498460		
Utm n:	3758266		
Topo:	Southwest Columbia		
Elev:	0		
Owner:	Pet Dairy	Owner well:	Not Reported
Location:	Near USC Stadium	Use:	Industrial
Depth d:	0		
Depth c:	85		
Diam 1:	6		
Diam 2:	Not Reported	Oh cas:	Not Reported
Screen t:	43		
Screen b:	85		
Drill yr:	1954	Drill mo:	12
Yield:	40		
Yield yr:	Not Reported	G logs:	Not Reported
D logs:	0		
P test:	0		
Chem:	C	WI:	Not Reported
Wl yr:	Not Reported	Driller:	Connolly
Remarks:	Location approximated.		
Site id:	SCWC30000010114		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: SC Radon

Radon Test Results

Zipcode	Average	Num Tests	Minimum	Maximum	% > 4 pCi/L
29205	1.1	79	0.3	5.7	2.5

Federal EPA Radon Zone for RICHLAND 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 Zip Code: 29205

Number of sites tested: 5

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.620 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.100 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 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 803-734-9494

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R 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 (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. 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.

STATE RECORDS

Water Well Database

Source: Department of Natural Resources

Telephone: 803-734-6440

Water wells in the Coastal Plain counties of South Carolina

Water Well Database

Source: Department of Natural Resources

Telephone: 864-654-1671

A listing of water wells in the Piedmont (upstate) counties.

OTHER STATE DATABASE INFORMATION

RADON

State Database: SC Radon

Source: Department of Health & Environmental Control

Telephone: 864-241-1090

Radon Test Results by Zip Code

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Appendix C

Historical Reference Sources

Appendix C.1

Topographic Maps



SEACO, Inc

2700 William Tuller Dr
Columbia, SC 29205

Inquiry Number: 3230541.4

December 27, 2011

EDR Historical Topographic Map Report

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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

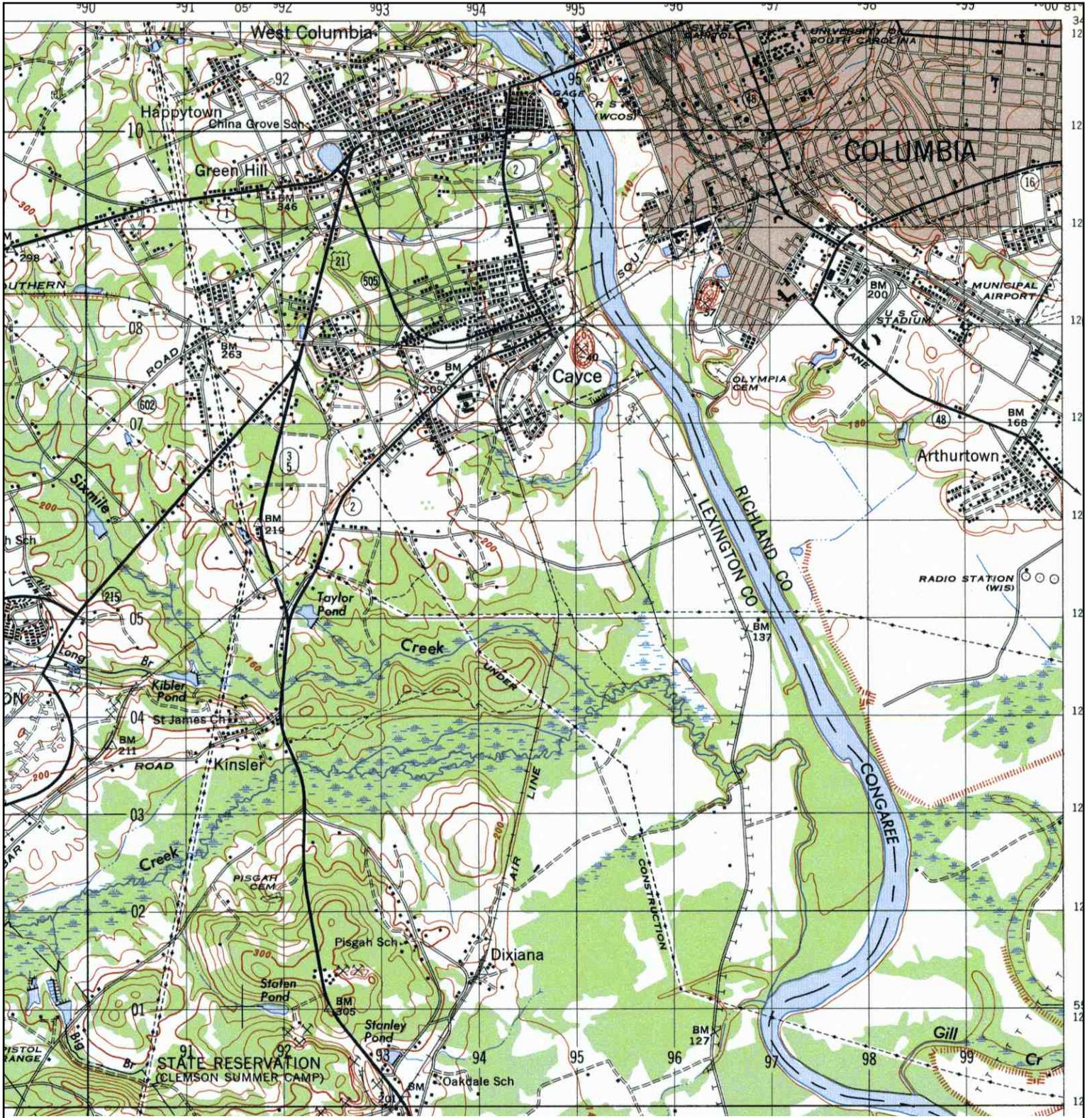
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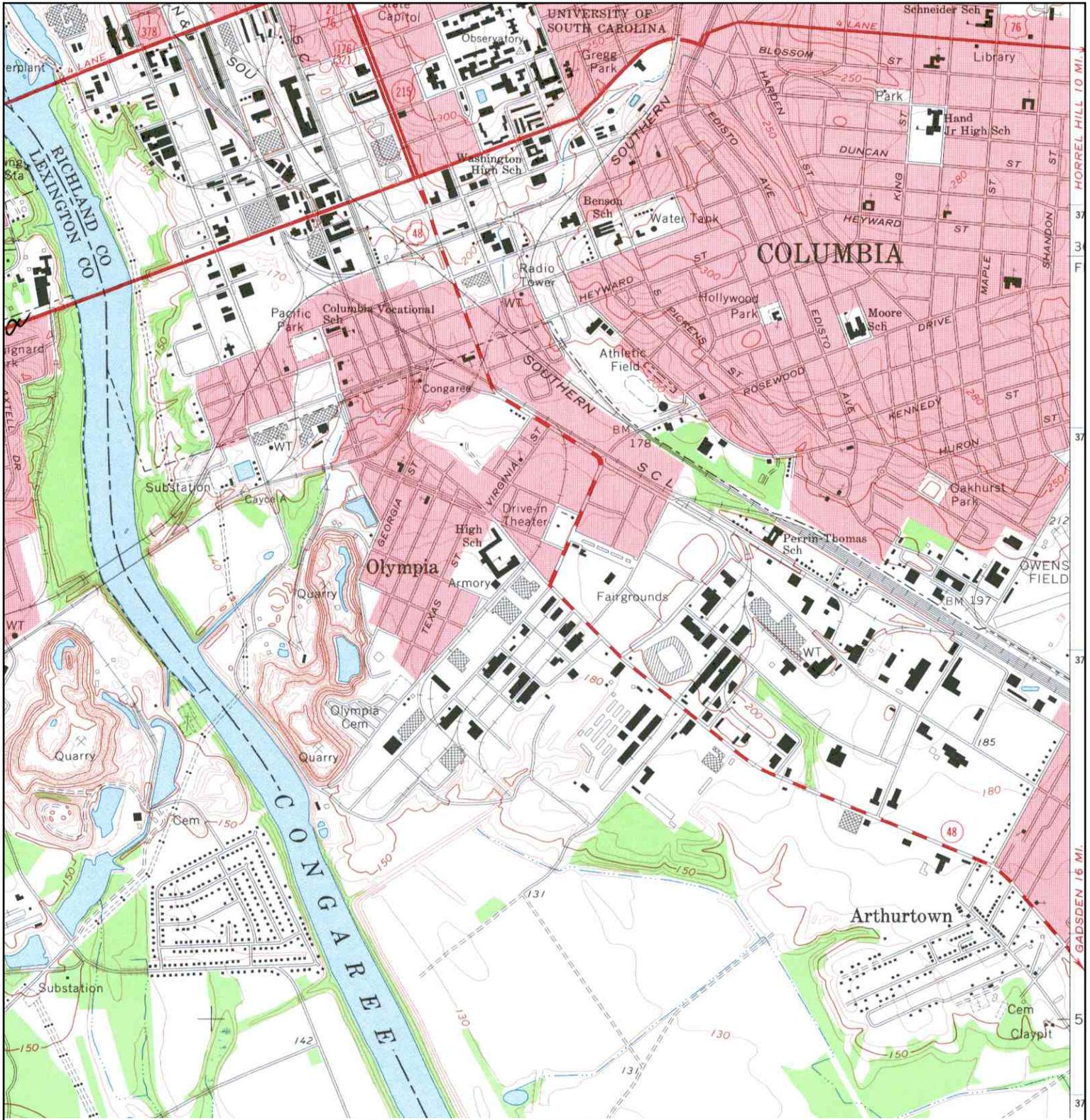
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Historical Topographic Map



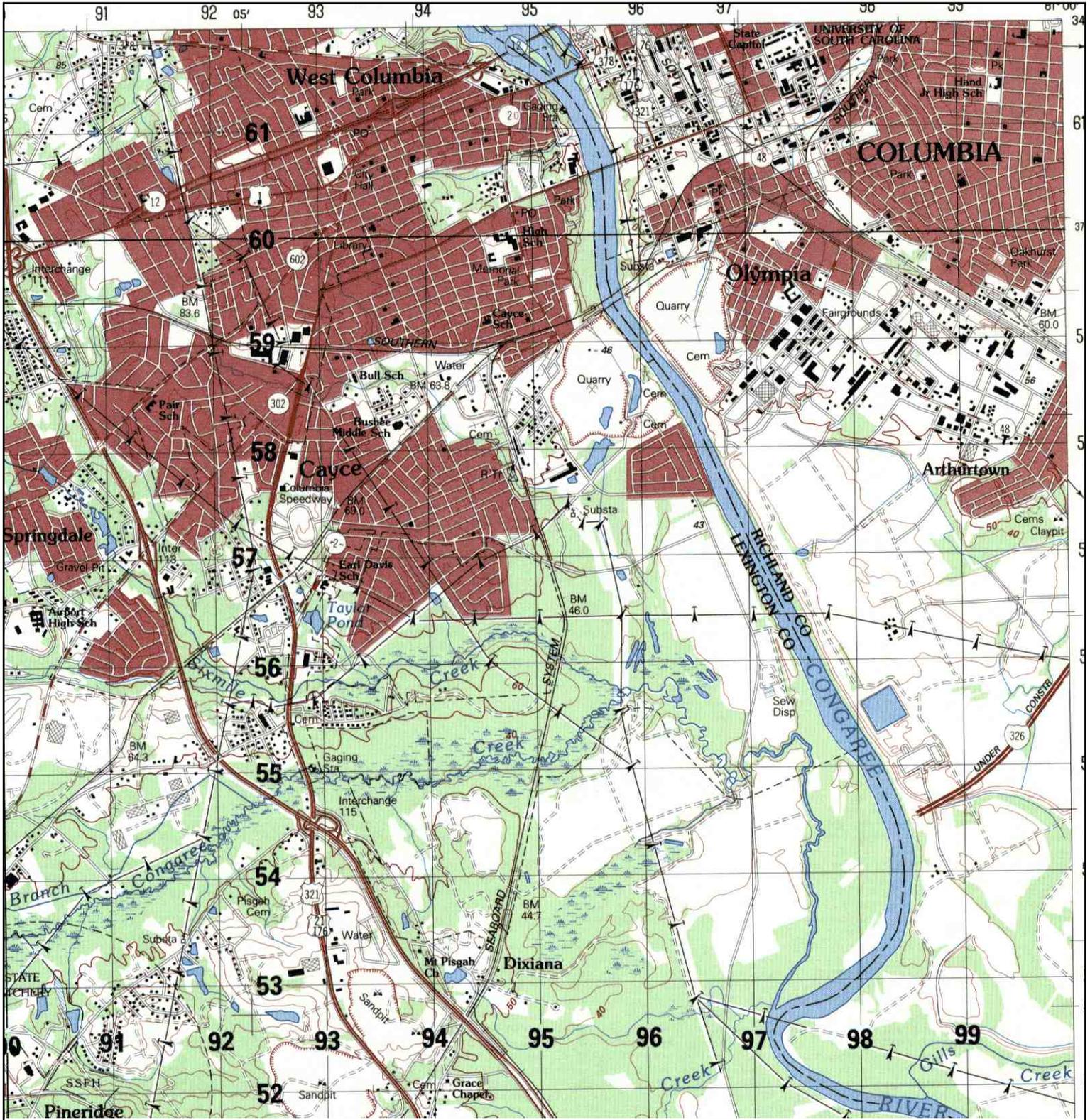
<p>N ↑</p>	<p>TARGET QUAD NAME: EDMUND MAP YEAR: 1944</p>	<p>SITE NAME: SEACO, Inc ADDRESS: 2700 William Tuller Dr Columbia, SC 29205 LAT/LONG: 33.9769 / -81.0081</p>	<p>CLIENT: Environ Corporation CONTACT: Jon Bradshaw INQUIRY#: 3230541.4 RESEARCH DATE: 12/27/2011</p>
	<p>SERIES: 15 SCALE: 1:50000</p>		

Historical Topographic Map



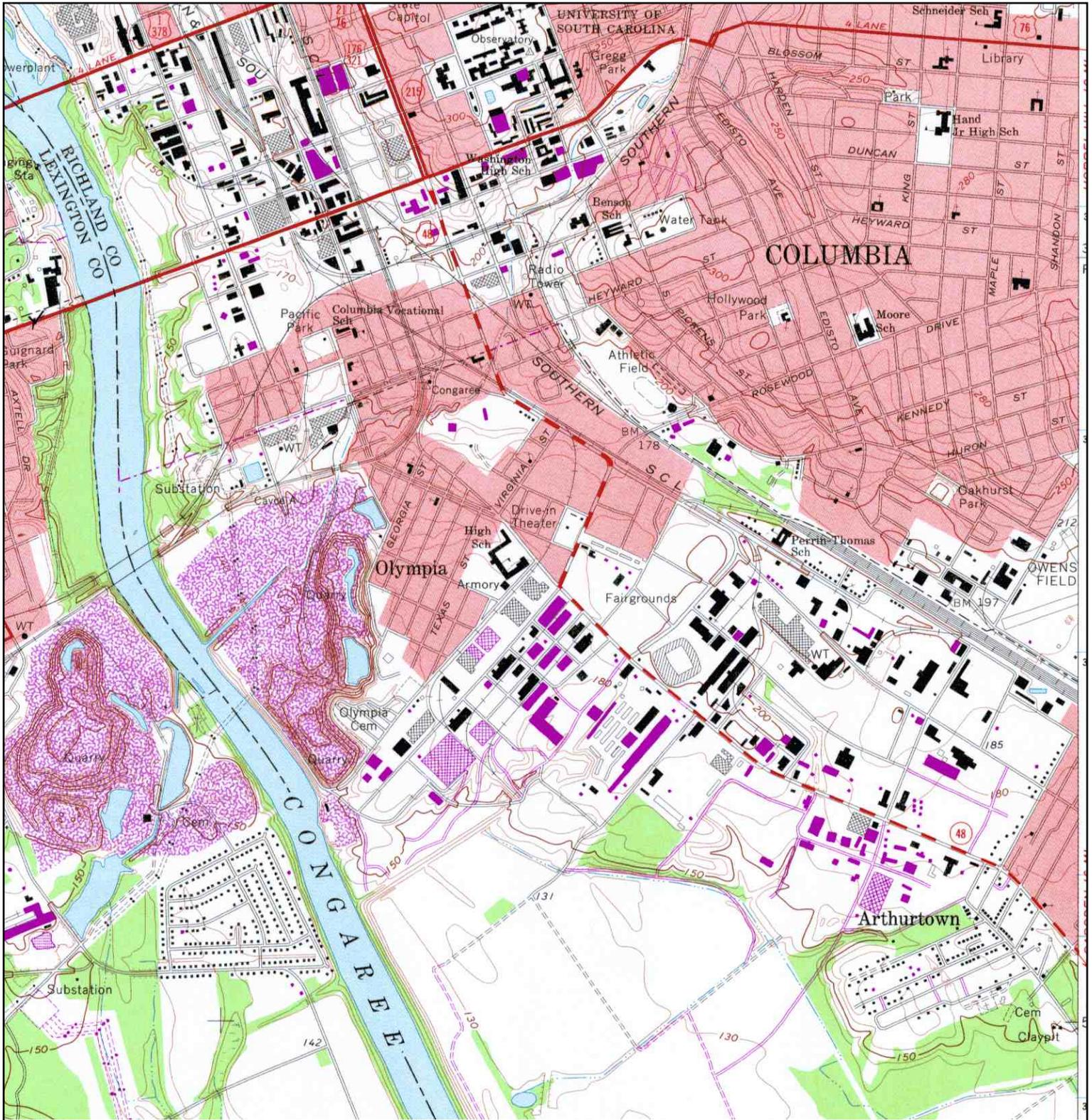
<p>N ↑</p>	TARGET QUAD	SITE NAME: SEACO, Inc	CLIENT: Environ Corporation
	NAME: SOUTHWEST COLUMBIA	ADDRESS: 2700 William Tuller Dr	CONTACT: Jon Bradshaw
	MAP YEAR: 1972	Columbia, SC 29205	INQUIRY#: 3230541.4
	SERIES: 7.5	LAT/LONG: 33.9769 / -81.0081	RESEARCH DATE: 12/27/2011
	SCALE: 1:24000		

Historical Topographic Map



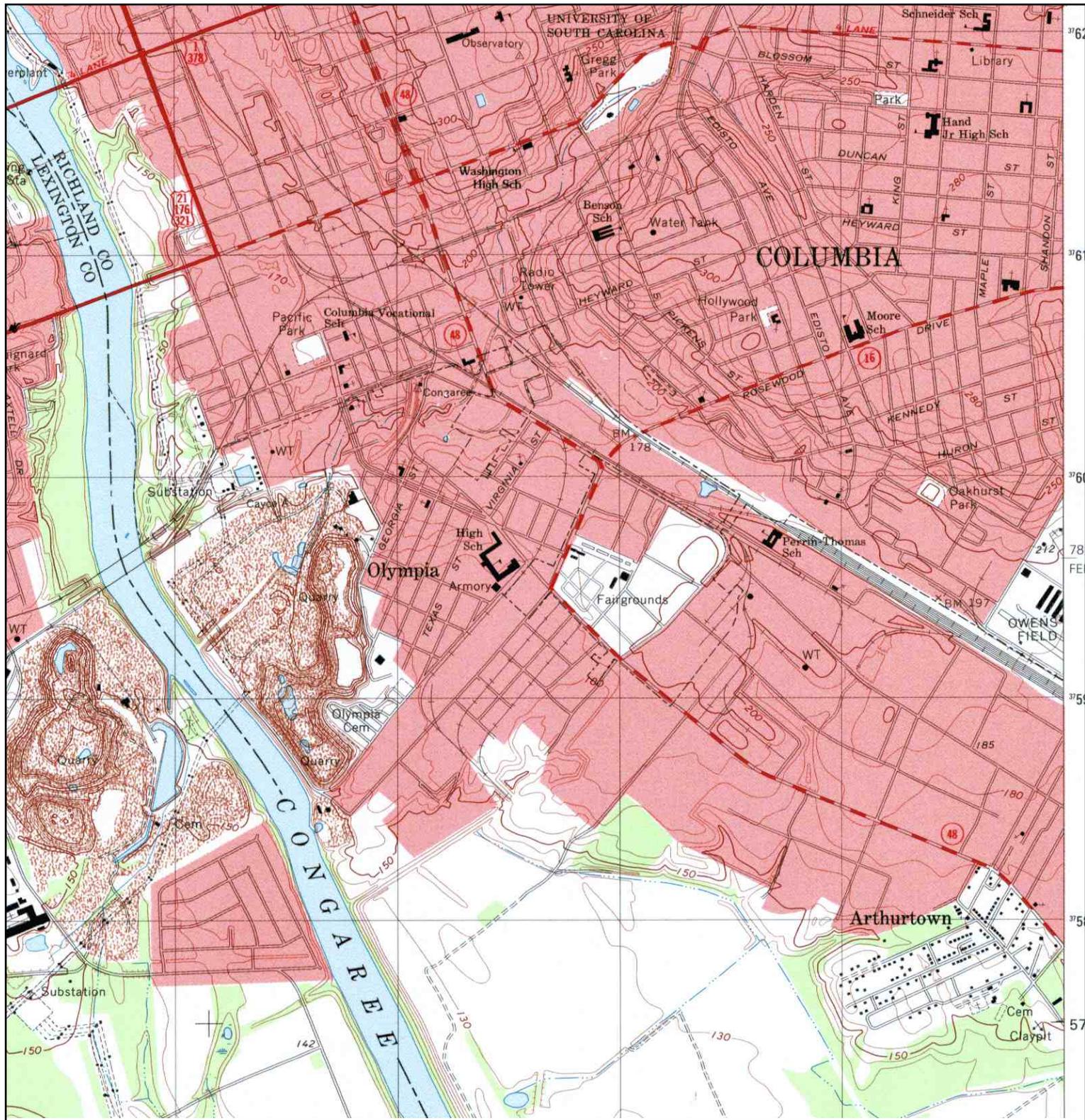
<p>N</p> 	TARGET QUAD	SITE NAME: SEACO, Inc	CLIENT: Environ Corporation
	NAME: EDMUND	ADDRESS: 2700 William Tuller Dr	CONTACT: Jon Bradshaw
	MAP YEAR: 1981	Columbia, SC 29205	INQUIRY#: 3230541.4
	SERIES: 15	LAT/LONG: 33.9769 / -81.0081	RESEARCH DATE: 12/27/2011
	SCALE: 1:50000		

Historical Topographic Map



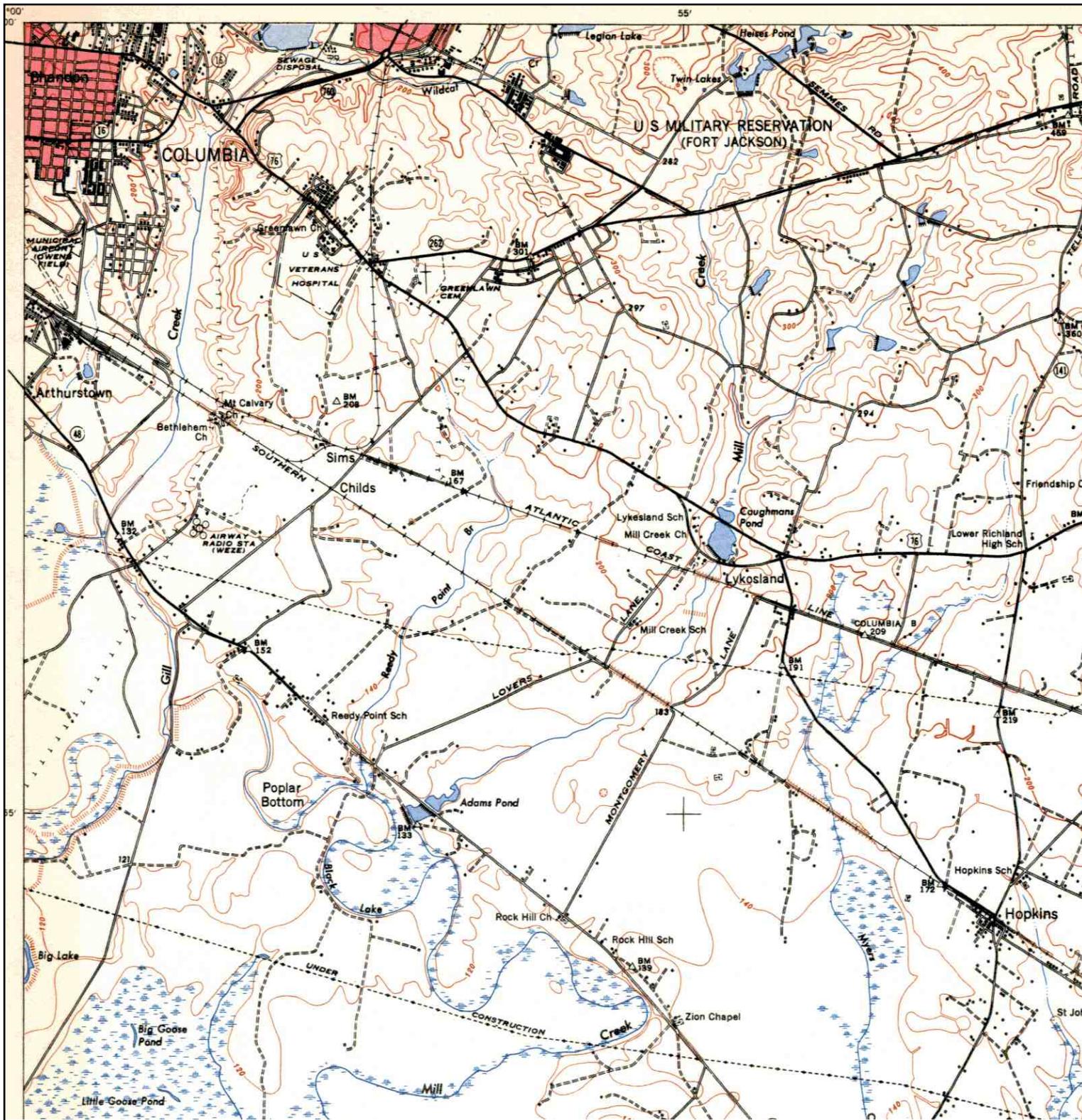
<p>N ↑</p>	TARGET QUAD	SITE NAME: SEACO, Inc	CLIENT: Environ Corporation
	NAME: SOUTHWEST COLUMBIA	ADDRESS: 2700 William Tuller Dr	CONTACT: Jon Bradshaw
	MAP YEAR: 1982	Columbia, SC 29205	INQUIRY#: 3230541.4
	PHOTOREVISED FROM :1972	LAT/LONG: 33.9769 / -81.0081	RESEARCH DATE: 12/27/2011
	SERIES: 7.5		
	SCALE: 1:24000		

Historical Topographic Map



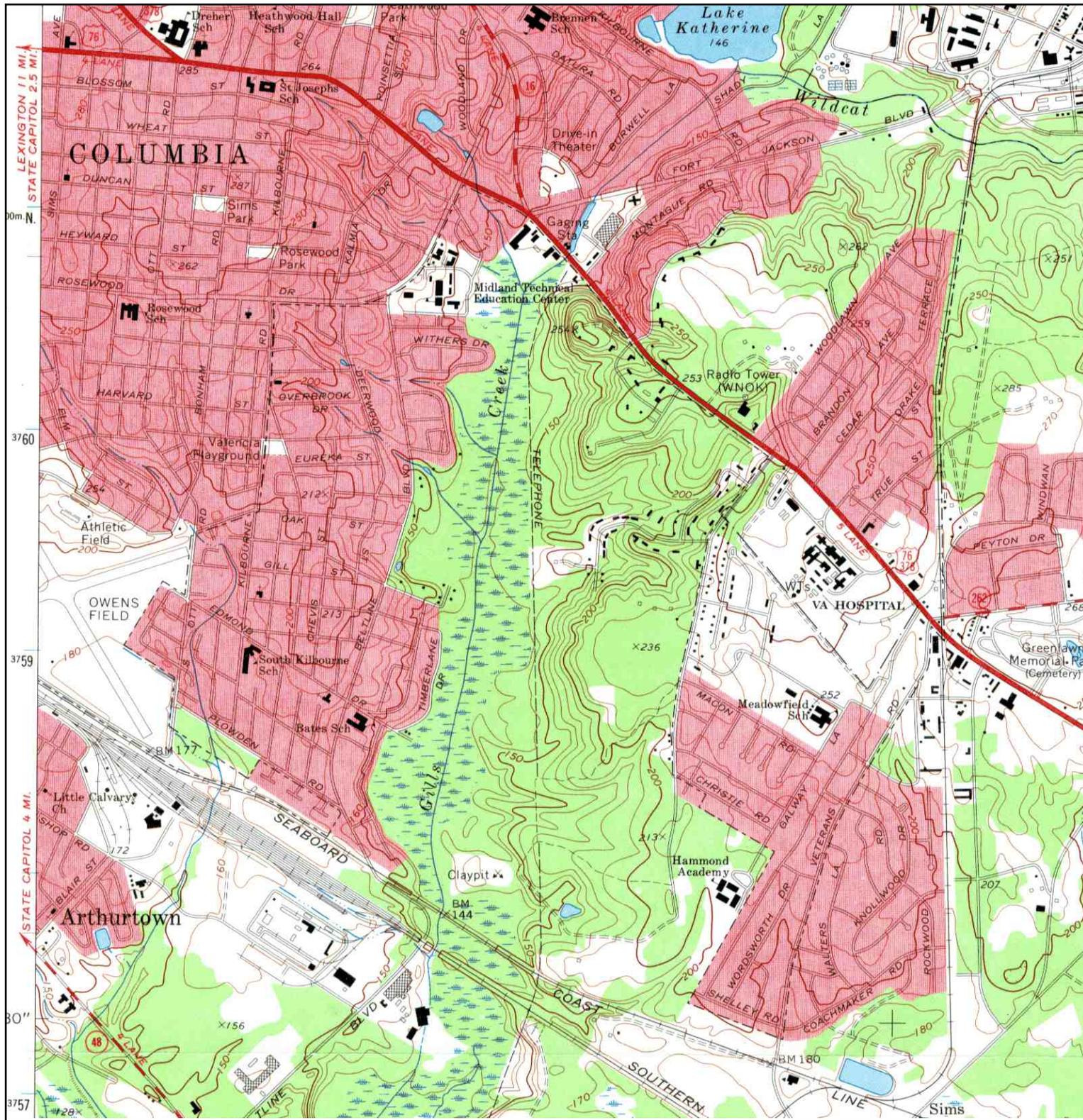
 <p>N</p>	TARGET QUAD	SITE NAME: SEACO, Inc	CLIENT: Environ Corporation
	NAME: SOUTHWEST COLUMBIA	ADDRESS: 2700 William Tuller Dr	CONTACT: Jon Bradshaw
	MAP YEAR: 1994	Columbia, SC 29205	INQUIRY#: 3230541.4
	SERIES: 7.5	LAT/LONG: 33.9769 / -81.0081	RESEARCH DATE: 12/27/2011
	SCALE: 1:24000		

Historical Topographic Map



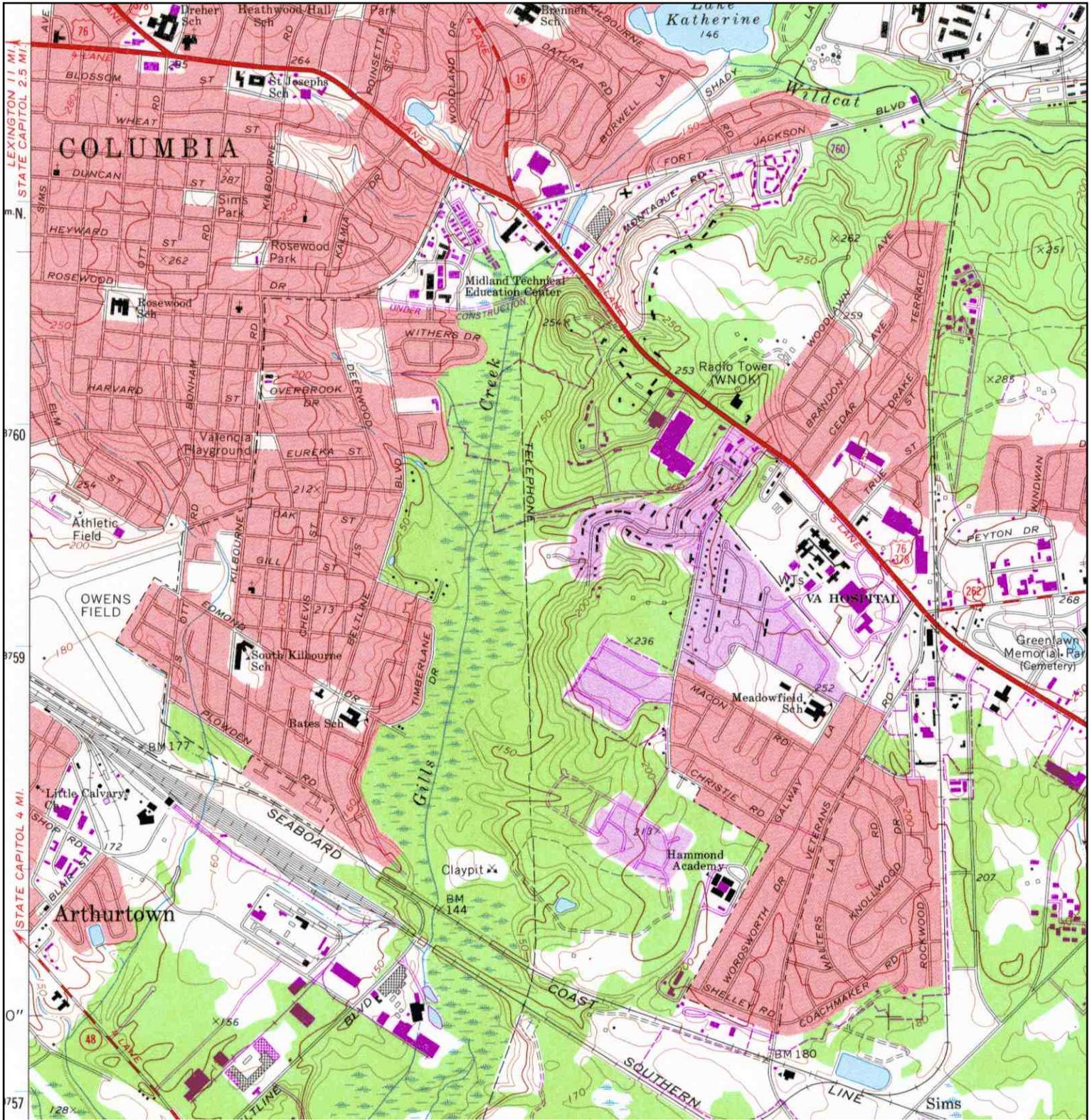
	ADJOINING QUAD		
	NAME:	HOPKINS	SITE NAME: SEACO, Inc
	MAP YEAR:	1943	ADDRESS: 2700 William Tuller Dr Columbia, SC 29205
	SERIES:	15	LAT/LONG: 33.9769 / -81.0081
	SCALE:	1:62500	CLIENT: Environ Corporation CONTACT: Jon Bradshaw INQUIRY#: 3230541.4 RESEARCH DATE: 12/27/2011

Historical Topographic Map



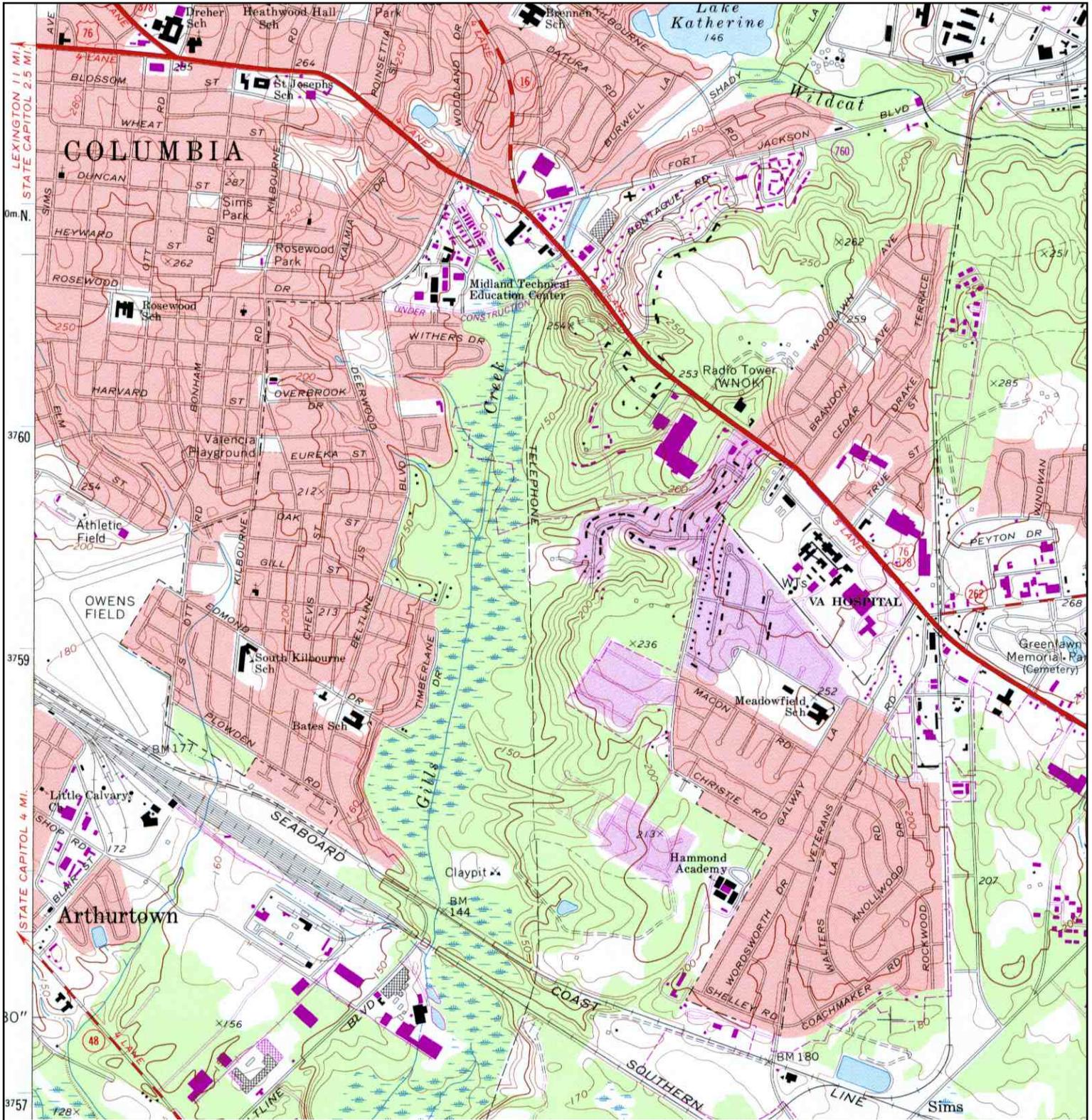
	ADJOINING QUAD	SITE NAME: SEACO, Inc	CLIENT: Environ Corporation
	NAME: FORT JACKSON SOUTH	ADDRESS: 2700 William Tuller Dr	CONTACT: Jon Bradshaw
	MAP YEAR: 1972	Columbia, SC 29205	INQUIRY#: 3230541.4
	SERIES: 7.5	LAT/LONG: 33.9769 / -81.0081	RESEARCH DATE: 12/27/2011
	SCALE: 1:24000		

Historical Topographic Map



 N	ADJOINING QUAD	SITE NAME: SEACO, Inc	CLIENT: Environ Corporation
	NAME: FORT JACKSON SOUTH	ADDRESS: 2700 William Tuller Dr	CONTACT: Jon Bradshaw
	MAP YEAR: 1982	Columbia, SC 29205	INQUIRY#: 3230541.4
	PHOTOREVISED FROM : 1972	LAT/LONG: 33.9769 / -81.0081	RESEARCH DATE: 12/27/2011
	SERIES: 7.5		
	SCALE: 1:24000		

Historical Topographic Map



<p>N</p>	ADJOINING QUAD	SITE NAME: SEACO, Inc	CLIENT: Environ Corporation
	NAME: FORT JACKSON SOUTH	ADDRESS: 2700 William Tuller Dr	CONTACT: Jon Bradshaw
	MAP YEAR: 1987	Columbia, SC 29205	INQUIRY#: 3230541.4
	PHOTOINSPECTED FROM : 1972	LAT/LONG: 33.9769 / -81.0081	RESEARCH DATE: 12/27/2011
	SERIES: 7.5		
	SCALE: 1:24000		

Appendix C.2

Aerial Photographs



SEACO, Inc

2700 William Tuller Dr
Columbia, SC 29205

Inquiry Number: 3230541.5

December 28, 2011

The EDR Aerial Photo Decade Package

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography December 28, 2011

Target Property:

2700 William Tuller Dr

Columbia, SC 29205

<u><i>Year</i></u>	<u><i>Scale</i></u>	<u><i>Details</i></u>	<u><i>Source</i></u>
1955	Aerial Photograph. Scale: 1"=500'	Panel #: 33081-H1, Southwest Columbia, SC;/Flight Date: March 29, 1955	EDR
1961	Aerial Photograph. Scale: 1"=1000'	Panel #: 33081-H1, Southwest Columbia, SC;/Flight Date: June 23, 1961	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 33081-H1, Southwest Columbia, SC;/Flight Date: February 19, 1966	EDR
1970	Aerial Photograph. Scale: 1"=500'	Panel #: 33081-H1, Southwest Columbia, SC;/Flight Date: November 27, 1970	EDR
1981	Aerial Photograph. Scale: 1"=1000'	Panel #: 33081-H1, Southwest Columbia, SC;/Flight Date: February 05, 1981	EDR
1989	Aerial Photograph. Scale: 1"=750'	Panel #: 33081-H1, Southwest Columbia, SC;/Flight Date: March 12, 1989	EDR
1994	Aerial Photograph. Scale: 1"=500'	Panel #: 33081-H1, Southwest Columbia, SC;/Composite DOQQ - acquisition dates: January 21, 1994	EDR
1999	Aerial Photograph. Scale: 1"=750'	Panel #: 33081-H1, Southwest Columbia, SC;/Flight Date: March 01, 1999	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 33081-H1, Southwest Columbia, SC;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 33081-H1, Southwest Columbia, SC;/Flight Year: 2006	EDR



INQUIRY #: 3230541.5

YEAR: 1955

 = 500'



 EDR Environmental Data Resources Inc.

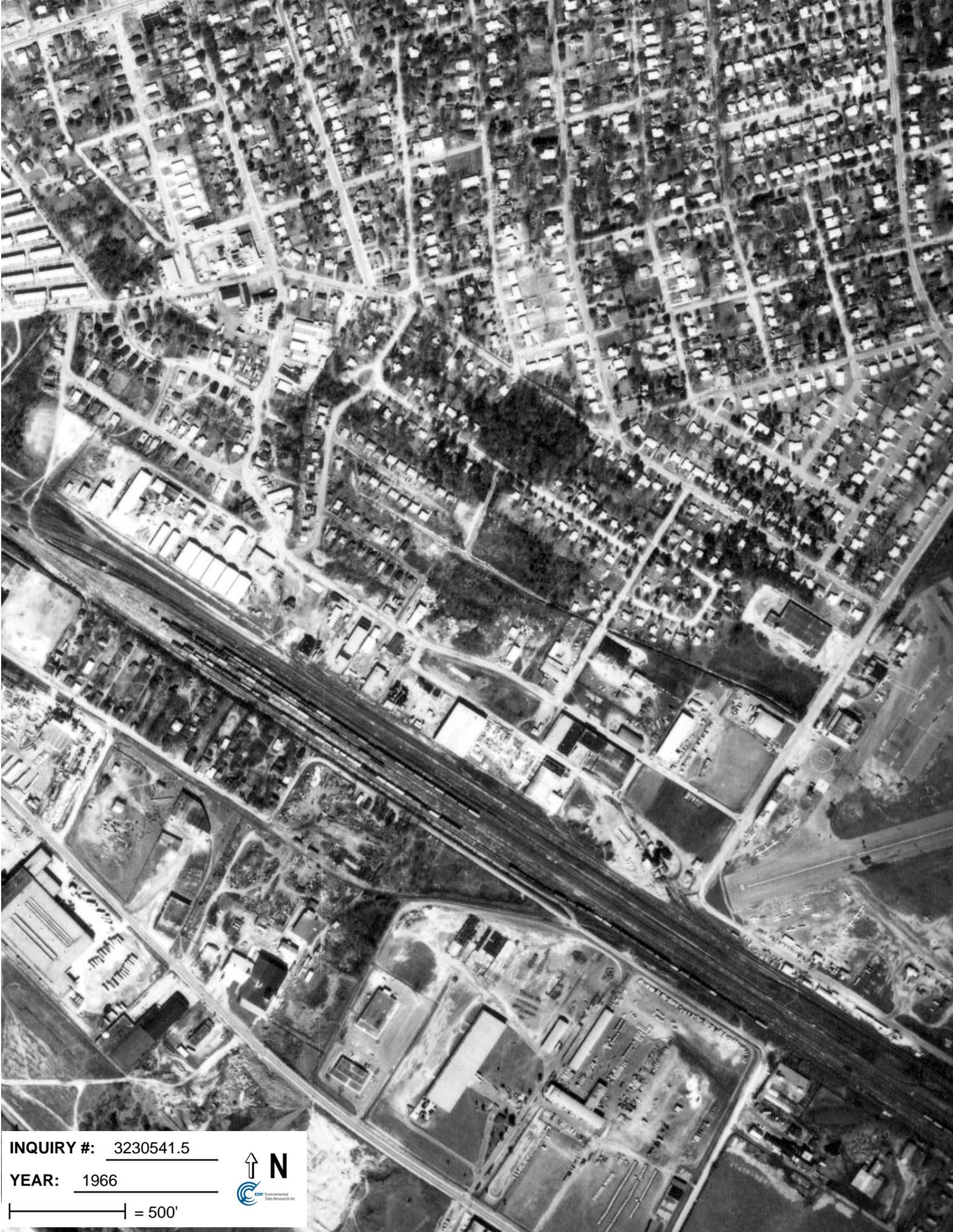


INQUIRY #: 3230541.5

YEAR: 1961

 = 1000'





INQUIRY #: 3230541.5

YEAR: 1966

| = 500'





INQUIRY #: 3230541.5

YEAR: 1970

 = 500'



 Environmental Data Resources Inc.

H A P 8 0 F



INQUIRY #: 3230541.5

YEAR: 1981

 = 1000'



 Environmental Data Resources Inc.



INQUIRY #: 3230541.5

YEAR: 1989

 = 750'



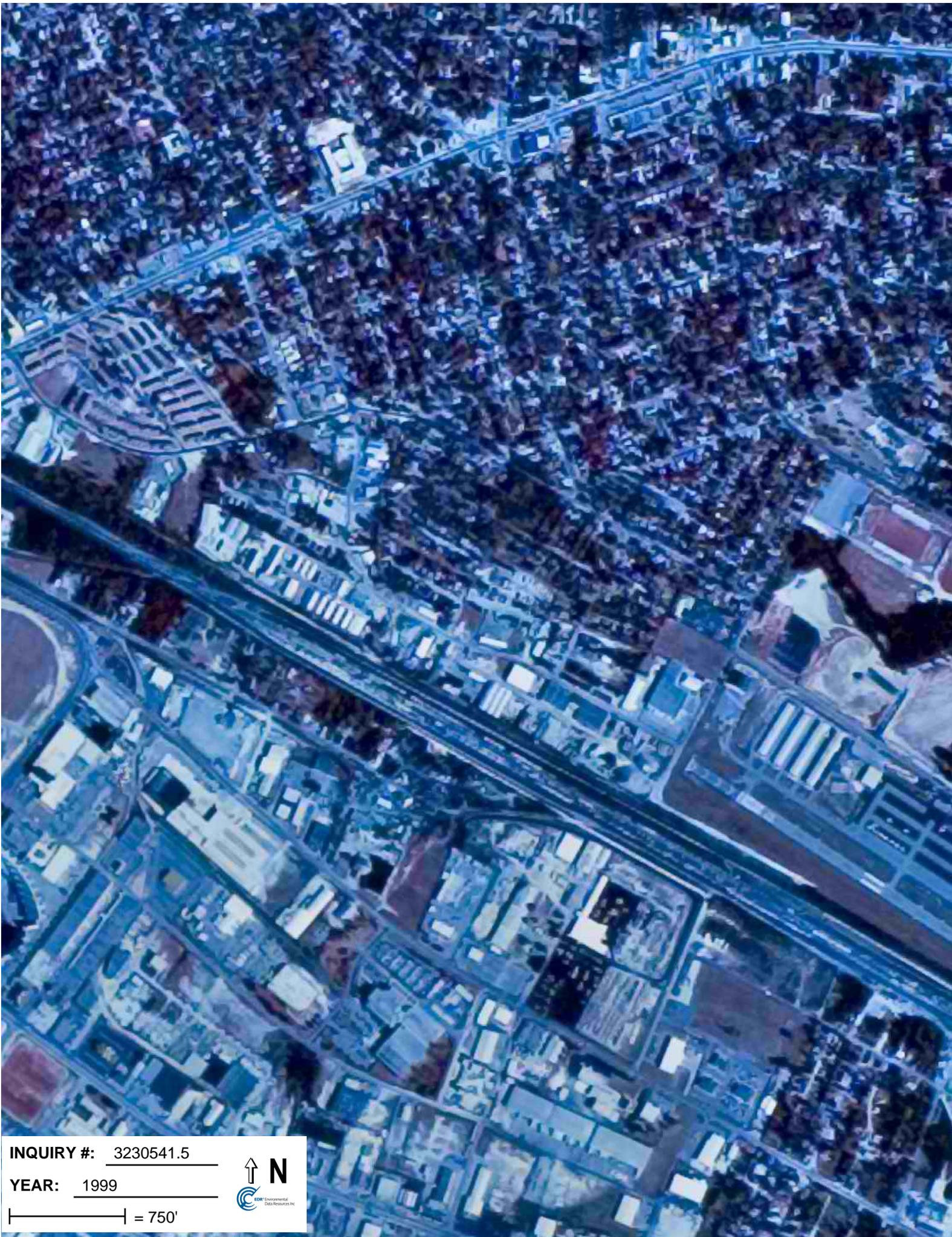


INQUIRY #: 3230541.5

YEAR: 1994

|—————| = 500'





INQUIRY #: 3230541.5

YEAR: 1999

|—————| = 750'





INQUIRY #: 3230541.5

YEAR: 2005

| = 500'





INQUIRY #: 3230541.5

YEAR: 2006

 = 500'



Appendix C.3

Abstract of City Directories

SEACO, Inc

2700 William Tuller Dr
Columbia, SC 29205

Inquiry Number: 3237245.3
January 12, 2012

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2011	Polk City Directories	X	X	X	-
2006	Polk City Directories	X	X	X	-
2001	Polk City Directories	X	X	X	-
1996	Polk City Directories	X	X	X	-
1991	Polk City Directories	X	X	X	-
1986	Polk City Directories	X	X	X	-
1981	Polk City Directories	-	X	X	-
1976	Hill Directory Co., Inc.,	-	X	X	-
1971	Hill Directory Co., Inc.,	-	X	X	-
1964	Hill Directory Co., Inc.,	-	X	X	-
1952	Hill Directory Co., Inc.,	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<u>Address</u>	<u>Type</u>	<u>Findings</u>
1119 Airport Rd.	Client Entered	X
2636 Commerce Dr.	Client Entered	X
2646 Commerce Dr.	Client Entered	
2646R Commerce Dr.	Client Entered	
2701 Commerce Dr.	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

2700 William Tuller Dr
Columbia, SC 29205

FINDINGS DETAIL

Target Property research detail.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2011	Seaco Inc (asphalt prod)	Polk City Directories
2006	Seaco Inc (asphalt prod)	Polk City Directories
2001	Seaco Inc (asphalt prod)	Polk City Directories
1996	Seaco Inc (asphalt prod)	Polk City Directories
1991	Tuller Oil Co (a div of Seaco Inc) - fuel oil	Polk City Directories
1986	Tuller Oil Co (a div of Seaco Inc) - fuel oil	Polk City Directories

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Airport Rd.

Airport Rd.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1952	Colprovia Rd Products Co Inc (plant) (no number)	Hill Directory Co., Inc.,

1119 Airport Rd.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2011	Coprovia Asphalt (asphalt & asphalt products)	Polk City Directories
2006	Coprovia Asphalt (asphalt & asphalt products)	Polk City Directories
2001	Seaco Asphalt (asphalt & asphalt products)	Polk City Directories
1991	Colprovia Asphalt (mfrs)	Polk City Directories
1986	Colprovia Asphalt (mfrs)	Polk City Directories
1981	Colprovia Asphalt (mfrs)	Polk City Directories
1976	Colprovia Asphalt (mfrs)	Hill Directory Co., Inc.,
	Southern Silica Mining & Mfg Co	Hill Directory Co., Inc.,
1971	Colprovia Asphalt (mfrs)	Hill Directory Co., Inc.,
	Southern Silica Mining & Mfg Co	Hill Directory Co., Inc.,
1964	Colprovia Asphalt (mfrs)	Hill Directory Co., Inc.,

Commerce Dr.

Commerce Dr.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	No listings prior to 2701	Polk City Directories

2636 Commerce Dr.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1996	Vacant	Polk City Directories
1991	Vacant	Polk City Directories
1986	Petrolane Gas Service	Polk City Directories
1981	Pyrofax Gas Corp	Polk City Directories
1976	Dulane Gas Service	Hill Directory Co., Inc.,

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1971	Dulane Gas Co	Hill Directory Co., Inc.,
1964	Dulane Gas Co	Hill Directory Co., Inc.,
1952	Dulane Gas Co	Hill Directory Co., Inc.,
	John Smith Oil Co (stge)	Hill Directory Co., Inc.,

2645 Commerce Dr.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2011	Accusweep Services Inc (parking lot mtce)	Polk City Directories
2006	Accusweep Services Inc (parking lot mtce)	Polk City Directories
1976	Dutrow (whse)	Hill Directory Co., Inc.,
1971	Vacant	Hill Directory Co., Inc.,
1964	Commerce Restaurant	Hill Directory Co., Inc.,

2701 Commerce Dr.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1996	Seaco Inc (garage)	Polk City Directories

2719 Commerce Dr.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2011	Fresh Oil Outreach Ministry	Polk City Directories
1991	Vacant	Polk City Directories

FINDINGS

STREET NOT IDENTIFIED IN RESEARCH SOURCE

The following Streets were researched for this report, and the Streets were not identified in the research source.

Street Researched

William Tuller Dr

Street Not Identified in Research Source

1981, 1976, 1971, 1964, 1952

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched

Airport Rd.

Commerce Dr.

1119 Airport Rd.

2636 Commerce Dr.

2645 Commerce Dr.

2646 Commerce Dr.

2646R Commerce Dr.

2701 Commerce Dr.

2719 Commerce Dr.

Address Not Identified in Research Source

No Years Found

No Years Found

1996, 1952

2011, 2006, 2001

2001, 1996, 1991, 1986, 1981, 1952

2011, 2006, 2001, 1996, 1991, 1986, 1981, 1976, 1971, 1964, 1952

2011, 2006, 2001, 1996, 1991, 1986, 1981, 1976, 1971, 1964, 1952

2011, 2006, 2001, 1991, 1986, 1981, 1976, 1971, 1964, 1952

2006, 2001, 1996, 1986, 1981, 1976, 1971, 1964, 1952

Appendix C.4

Historical Fire Insurance Maps



SEACO, Inc

2700 William Tuller Dr
Columbia, SC 29205

Inquiry Number: 3237245.2

January 10, 2012

Certified Sanborn® Map Report

Certified Sanborn® Map Report

1/10/12

Site Name:

SEACO, Inc
2700 William Tuller Dr
Columbia, SC 29205

Client Name:

Environ Corporation
4350 North Fairfax Drive
Arlington, VA 22203



EDR Inquiry # 3237245.2

Contact: Jon Bradshaw

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Certified Sanborn Results:

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Address: 2700 William Tuller Dr
City, State, Zip: Columbia, SC 29205
Cross Street:
P.O. # NA
Project: Seaco - Columbia, SC
Certification # 1D30-4825-8C61



Sanborn® Library search results
Certification # 1D30-4825-8C61

Maps Provided:

1965
1956
1950

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

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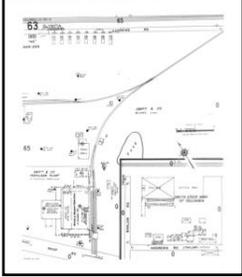
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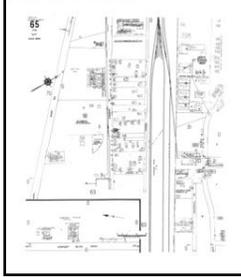
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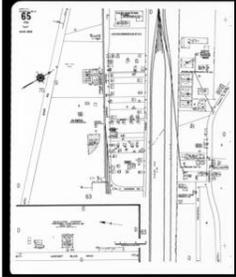


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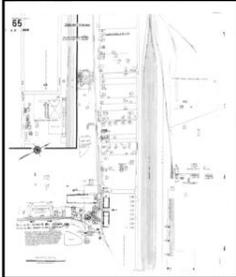
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1956 Source Sheets



Volume 1A, Sheet 65

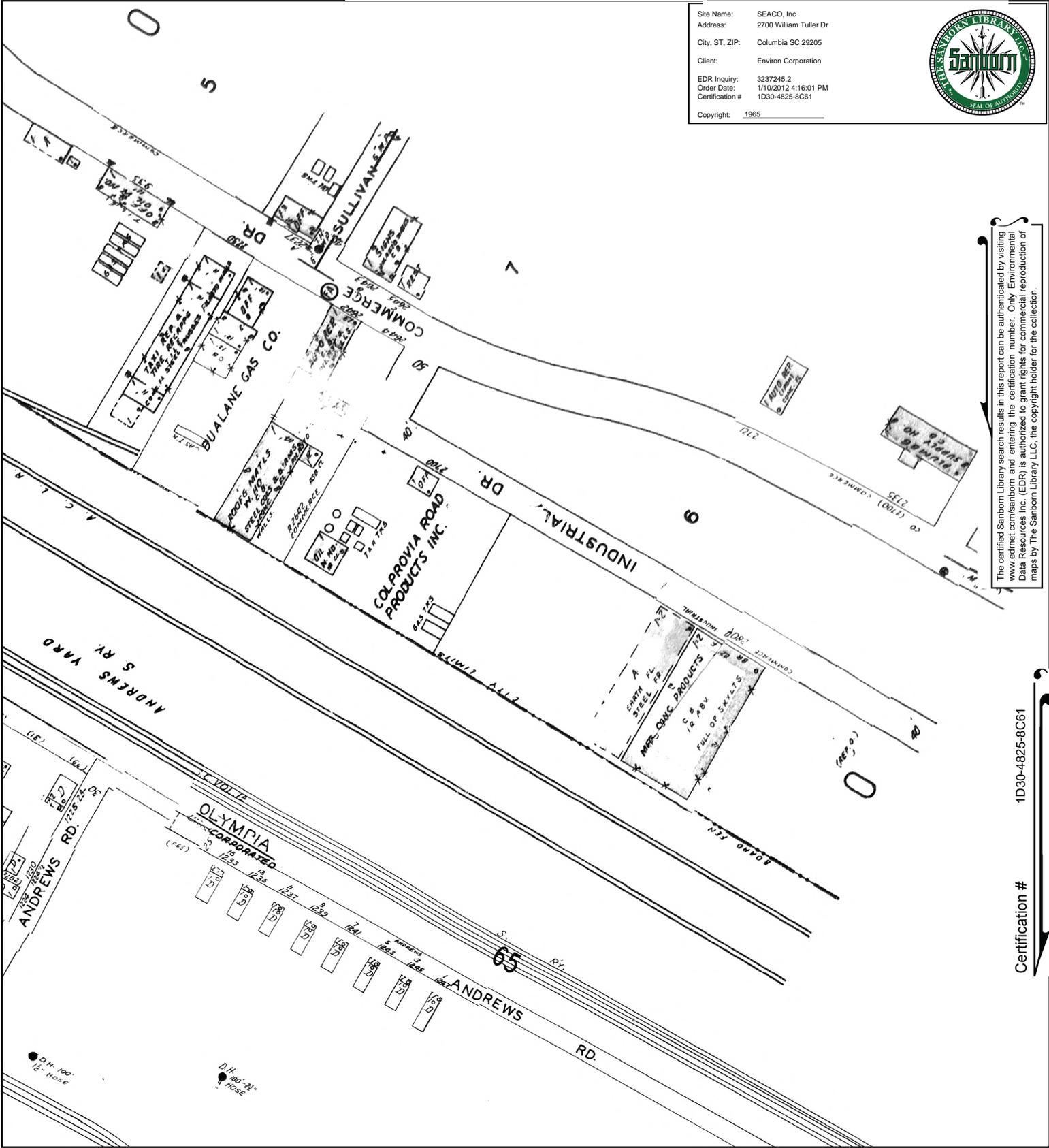
1950 Source Sheets



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1965 Certified Sanborn Map

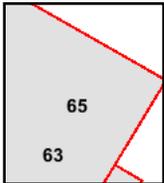
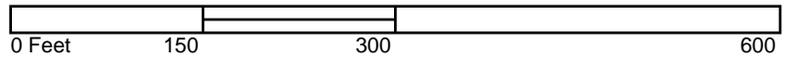
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 Address: 2700 William Tuller Dr
 City, ST, ZIP: Columbia SC 29205
 Client: Environ Corporation
 EDR Inquiry: 3237245.2
 Order Date: 1/10/2012 4:16:01 PM
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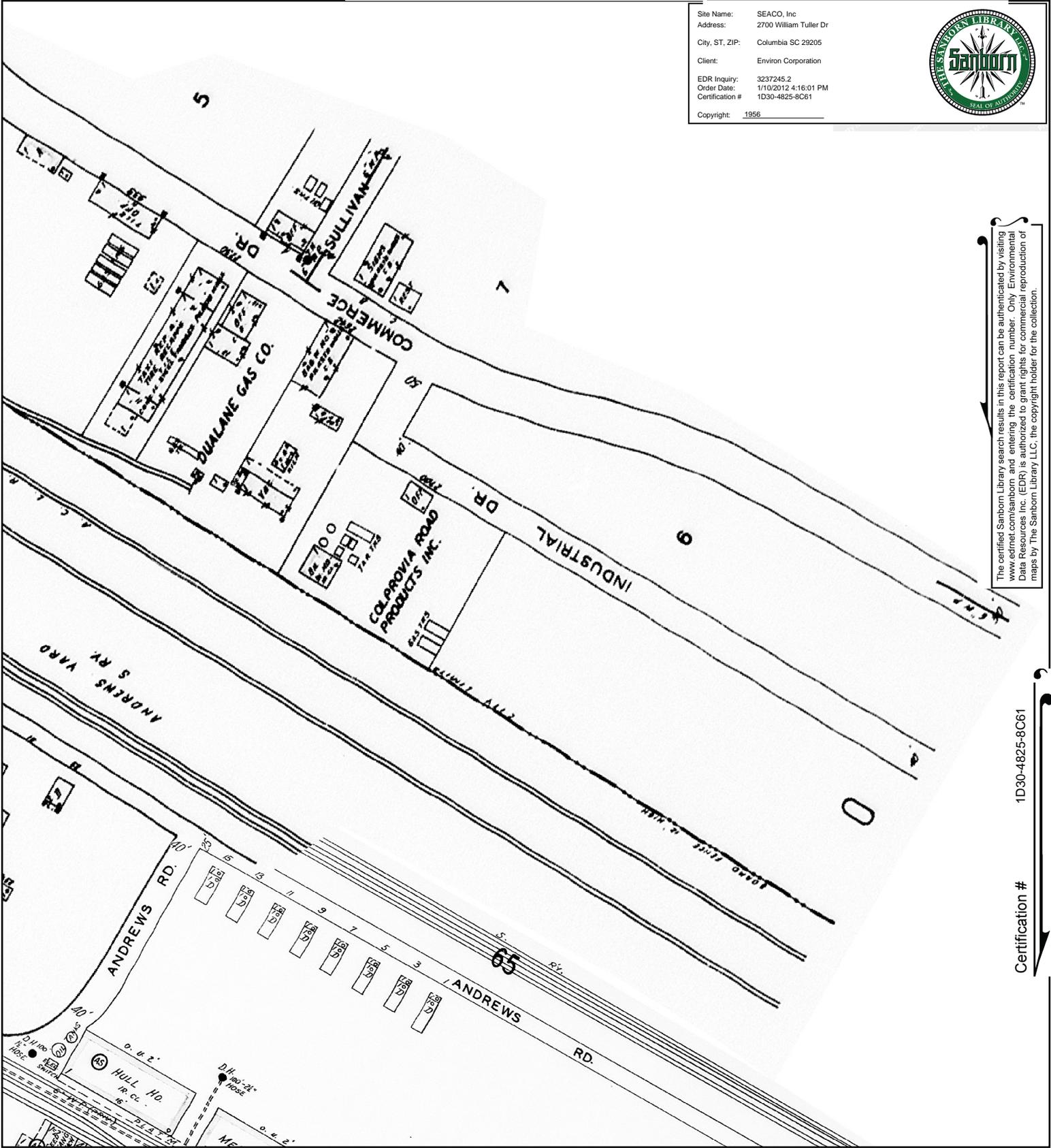


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1956 Certified Sanborn Map

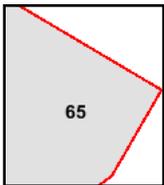
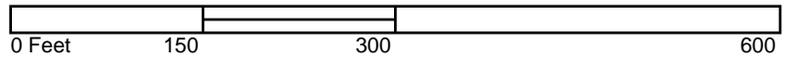
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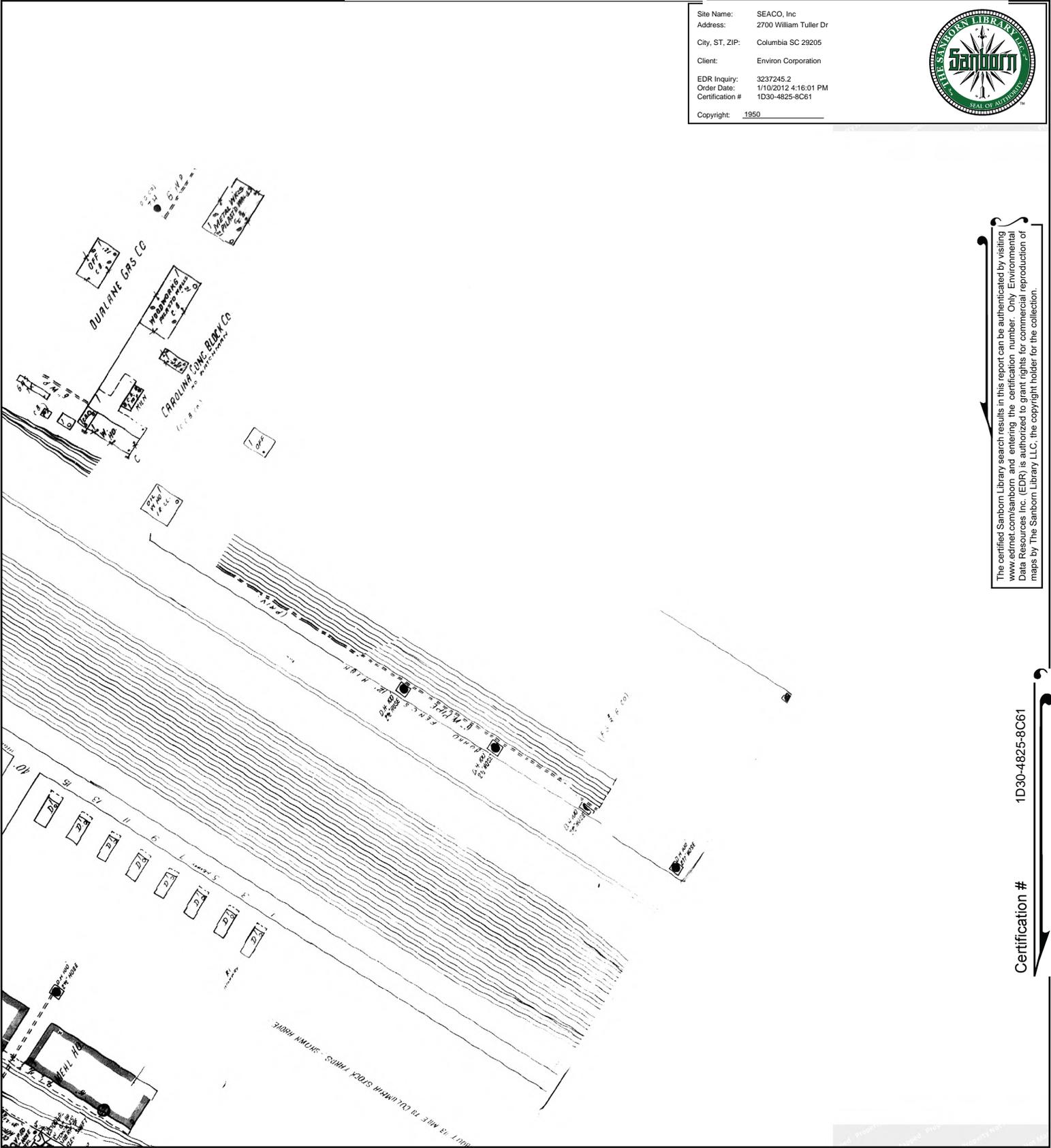


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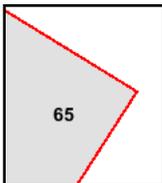
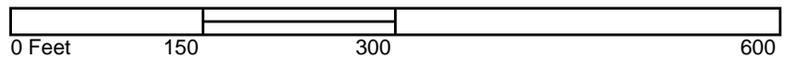
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SEACO, Inc

2700 William Tuller Dr
Columbia, SC 29205

Inquiry Number: 3230541.3

December 27, 2011

Certified Sanborn® Map Report

Certified Sanborn® Map Report

12/27/11

Site Name:

SEACO, Inc
2700 William Tuller Dr
Columbia, SC 29205

Client Name:

Environ Corporation
4350 North Fairfax Drive
Arlington, VA 22203



EDR Inquiry # 3230541.3

Contact: Jon Bradshaw

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Cross Street:
P.O. # NA
Project: Seaco - Columbia, SC
Certification # 2E7D-4437-8360



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Certification # 2E7D-4437-8360

Maps Provided:

1965
1956
1950

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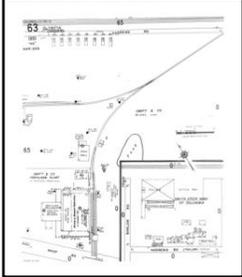
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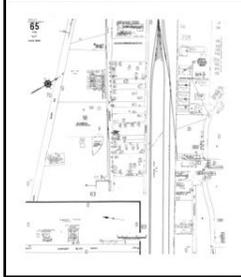
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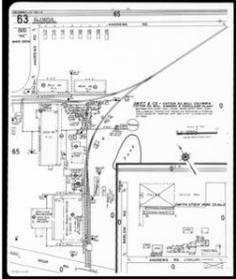


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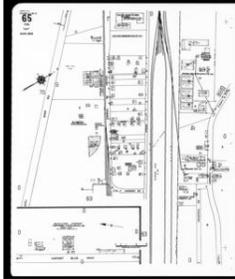


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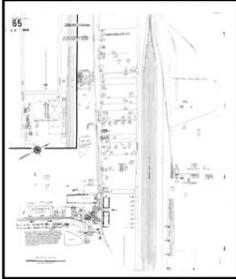


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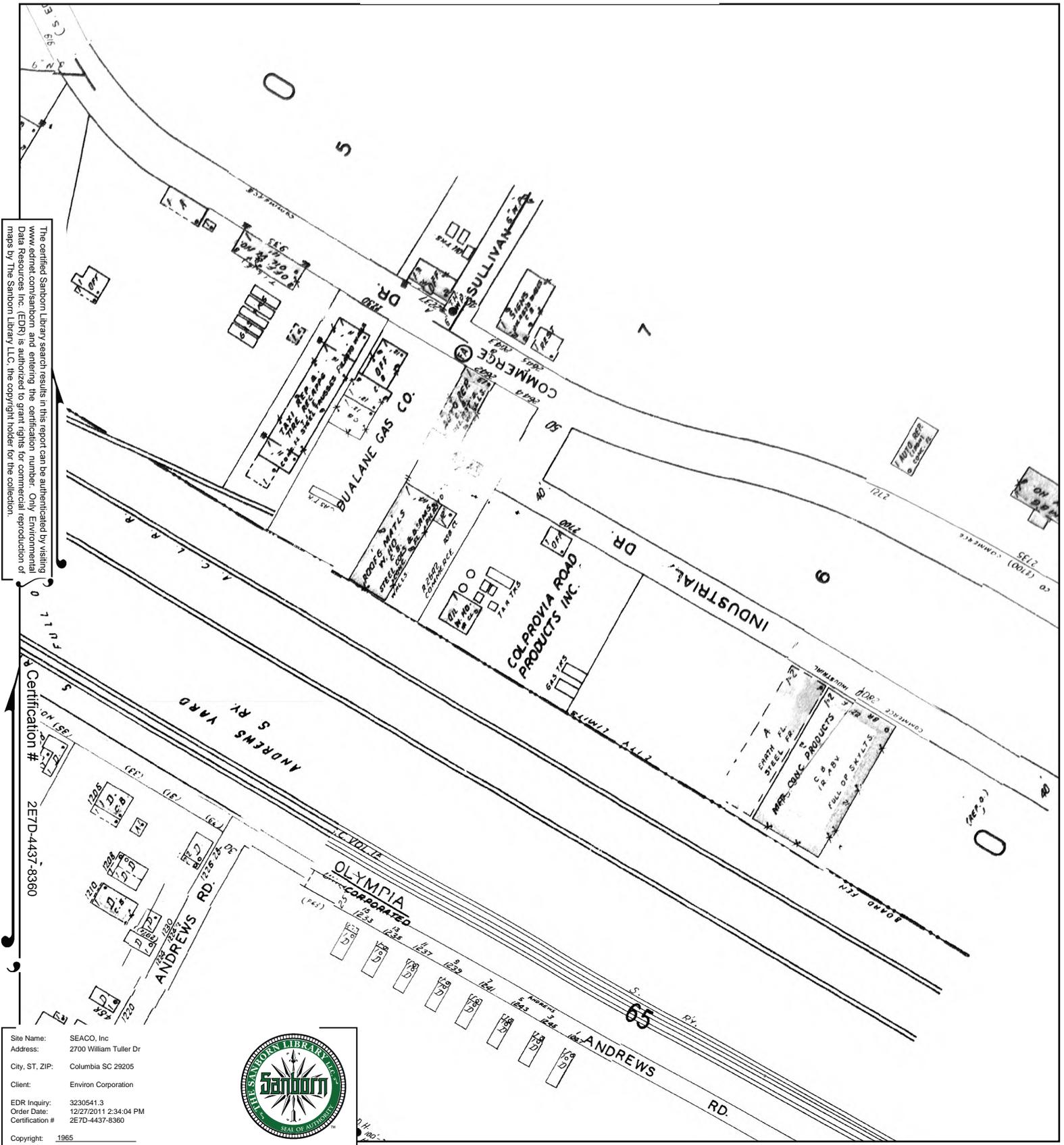
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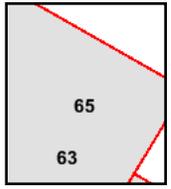
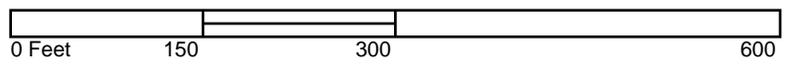
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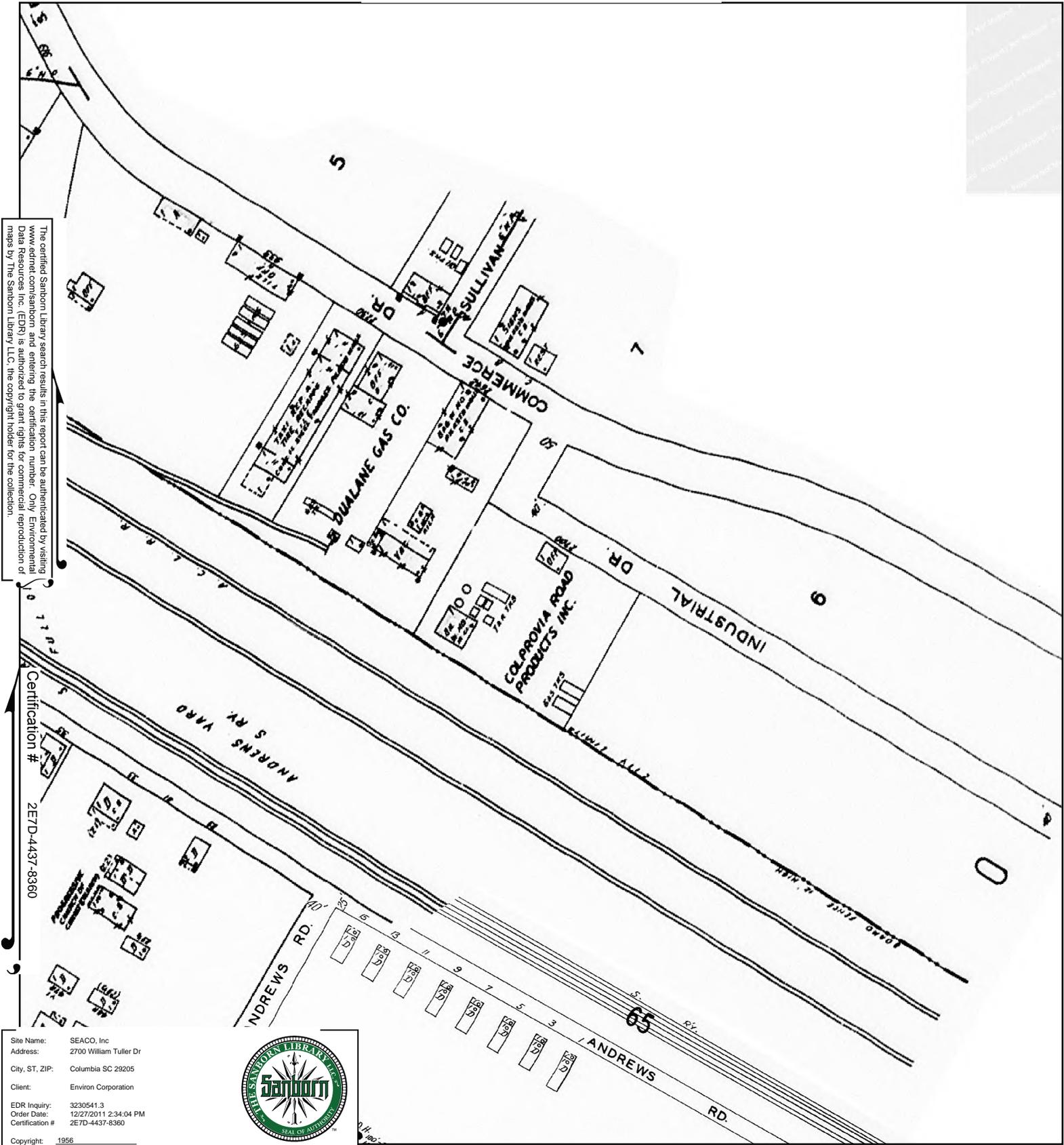
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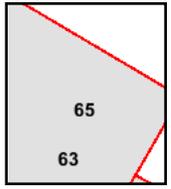
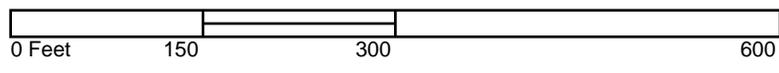


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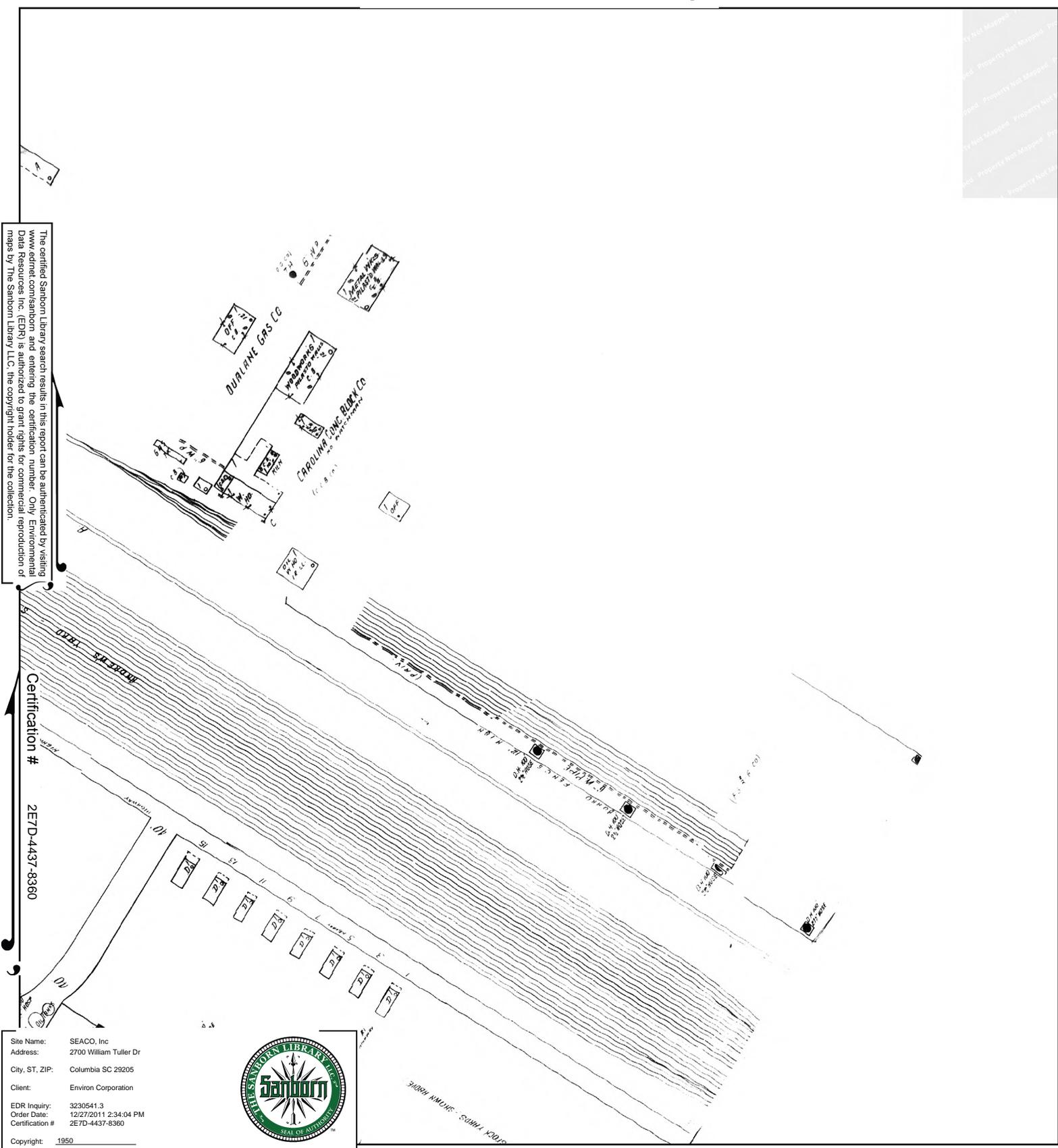
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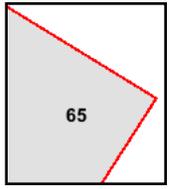
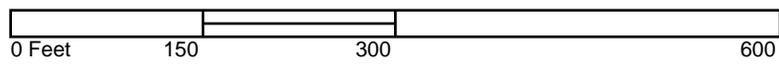


Certification # 2E7D-4437-8360

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Appendix D

Qualifications of Environmental Professional

Angela Menegay, MPH

EDUCATION

- | | |
|------|---|
| 2003 | MPH, Environmental Health Sciences/Industrial Hygiene, University of California at Berkeley |
| 1998 | BA, Environmental Sciences, University of Virginia |

REGISTRATIONS & CERTIFICATIONS

40-hour OSHA Hazardous Waste Operations & Emergency Response

EPA/AHERA Licensed Inspector

EXPERIENCE

Ms. Menegay is a Senior Associate at ENVIRON. She has over seven years of experience in the environmental consulting field, with particular emphasis in environmental due diligence. Ms. Menegay also has experience in environmental and occupational health and safety compliance auditing, mold and water intrusion investigation and remediation, indoor air quality evaluation, and industrial hygiene monitoring. Her experience at ENVIRON has included the following:

Phase I Environmental Assessments and Environmental Due Diligence

- Conducted due diligence environmental assessments of nearly 200 industrial, manufacturing, agricultural, and commercial facilities in the U.S. A typical due diligence assessment involves completion of a Phase I environmental site assessment (ESA) and a limited review of compliance with environmental regulations. Types of facilities Ms. Menegay has visited include chemical production, pulp and paper production, food production, egg farms, pharmaceutical production, tire processors, electronics assembly, metal fabrication and machining, automotive parts manufacturing, and plastic injection molding. Ms. Menegay has experience in evaluating soil and groundwater contamination matters and regulatory compliance with both state and federal environmental program areas, including the Clean Air Act, Clean Water Act, Resource Conservation and Recovery Act, Emergency Planning and Community Right-to-Know Act, National Pollutant Discharge Elimination System, and Spill Prevention, Control, and Countermeasure requirements.

Regulatory Compliance Auditing

- Conducted occupational health and safety audits of several industrial facilities, including a chemical plant, printing facility, greenhouse, grout manufacturer, and automobile manufacturer, to assess compliance with applicable OSHA regulations.
- Conducted environmental audits of pharmaceutical manufacturing plants to assess compliance with applicable state and EPA regulations.

Environmental Permitting

- Assisted industrial facilities with meeting environmental permitting and reporting requirements, including applying for and obtaining environmental permits and registrations, complying with permit requirements, preparing environmental reports and plans to meet regulatory obligations, and terminating and transferring environmental permits and registrations.

Angela Menegay, MPH

Occupational Health and Safety

- Performed industrial hygiene sampling for airborne particulates and associated metals at a large slag processing facility.
- Conducted air monitoring for asbestos, indoor air quality monitoring, mold sampling, and drinking water testing at a lighting products manufacturing facility.
- Conducted an assessment of surface lead contamination using wipe sampling techniques at an electronics manufacturing and assembly facility.
- Conducted indoor environmental quality assessments, including air sampling for potential chemical contamination, in office buildings to address employee complaints regarding odors.
- Performed water intrusion investigations at nine commercial facilities to assess impacts of a variety of water sources, including sanitary sewer backflow, animal cage wash water, roof leaks, and fire riser systems. Depending on the nature of the water intrusion event, the investigations involved a combination of visual observations, moisture meter testing, and surface sampling via swab or tape lift.
- Provided on-site supervision for teams that conducted an extensive hazard communication project at a major theme park. Acted as the liaison between the project teams and theme park staff as well as between the project teams and project managers.
- Developed and reviewed written health and safety protocols, including asbestos operations and maintenance plans, hazard communication plans, emergency action plans, and lockout/tagout procedures, for a warehouse and distribution facility, printing facilities, and a theme park.

Prior to joining ENVIRON, Ms. Menegay served as an industrial hygiene intern at a chemical company in California. Her experience there included the following:

- Performed extensive industrial hygiene monitoring for chemical and noise exposures in a chemical manufacturing plant. Developed recommendations for reducing exposures and identified additional monitoring needs. Compiled the sampling results and recommendations into a comprehensive survey document and presented it to management.
- Conducted local exhaust ventilation system surveys using a manometer, velometer and smoke tubes. Diagramed plant local exhaust ventilation (LEV) system. Presented survey results to management.
- Established industrial hygiene sampling priorities in the production, maintenance, and laboratory departments by developing sampling plans for 2002 and 2003. Developed a Microsoft Access database to streamline the setting of industrial hygiene monitoring priorities, to cross-reference data sets, and to generate reports.

PROFESSIONAL AFFILIATIONS & ACTIVITIES

Member, American Industrial Hygiene Association (AIHA)

Adam C. Johnston

EDUCATION

- 1991 MS, Environmental Science & Engineering, School of Public Health,
University of North Carolina, Chapel Hill
- 1987 BA, Chemistry, Haverford College

EXPERIENCE

Adam Johnston is a Principal at ENVIRON, with over 20 years of professional experience in environmental consulting. His areas of practice include environmental due diligence associated with mergers and acquisitions (M&A) and property transactions, regulatory compliance and permitting, indoor air evaluation, and tenant environmental audits. He also has provided oversight for site investigations (i.e., Phase II assessments), occupational assessments and reviews, exposure and risk assessments, and fate and transport modeling. Mr. Johnston has overseen environmental due diligence and compliance reviews at industrial and commercial sites throughout the United States and in more than 30 countries worldwide. Adam is highly experienced in working with federal environmental regulations and has a working knowledge of many other state and local regulatory requirements throughout the United States.

His experience at ENVIRON has included the following:

- Managed hundreds of environmental due diligence assessments covering a wide variety of commercial and industrial entities in the United States and worldwide. These assessments, which have been performed in support of real estate transactions, financing, insurance evaluations, and other business transactions, have been conducted on behalf of public and private corporations, private equity partnerships, lenders, insurance companies, and other financial institutions. The scope of these projects have ranged from high-level environmental reviews performed as part of multi-billion dollar transactions to standard Phase I Environmental Site Assessments performed to support the purchase or sale of a single site.
- Managed environmental compliance assessments of hundreds of facilities from a wide variety of industrial sectors, including steel, paper, automotive parts, chemical manufacturing, metals manufacturing and fabrication, pharmaceuticals, waste management, paints and coating, mining, and numerous other commercial and industrial operations. These assessments have been performed as part of due diligence activities, internal compliance reviews, ISO-14001 evaluations, and state and federally mandated audits.
- Developed estimates of future costs and liabilities associated with known and potential contamination issues and regulatory compliance matters at commercial and industrial entities, primarily as part of environmental due diligence activities.
- Managed environmental response activities in the Mid-Atlantic and southeastern United States for a major real estate company with an emphasis on biotechnology, research & development, and other tenants with laboratory-based operations. Specific activities include the performance of tenant exit audits, moisture intrusion and mold assessments, spill and emergency release evaluation, Phase I environmental site assessments, and Phase II site investigations.
- Managed a large-scale regulatory compliance review of a company with hundreds of locations across the United States. The review included compiling site-specific information based on questionnaires and web-based responses, prioritization of facilities, performance of site visits for detailed compliance evaluations, analysis of findings, and preparation of a written report submitted to U.S. EPA under its audit policy.

Adam C. Johnston

- Managed and participated in numerous indoor air quality assessments related to mold, chemical intrusion, fine particulate matter, and other contaminants. Specific examples include oversight and performance of water damage/mold assessments at a variety of commercial buildings in the Washington DC area, critical reviews of third-party indoor air quality reports for leased space in the Pentagon, and quantitative assessments of chemical intrusion into buildings from contaminated soil and ground water.
- Conducted an evaluation of historical compliance with NSR/PSD and NSPS provisions of the Clean Air Act for several power generation clients. These projects have involved the preparation of company responses to U.S. EPA Section 114 requests, identification of capital projects potentially at-risk for NSR/PSD violations, analysis of operational data to determine the likelihood that EPA could allege past violations, and preparation of briefing materials for senior-level management.
- Conducted human health risk assessments at a variety of sites, including hazardous waste boilers and incinerators, an electric utility co-generation facility, a petroleum refinery, and several hazardous waste disposal sites. These assessments involved the consideration of both direct (e.g., inhalation) and indirect (e.g., food chain) pathways of exposure and a variety of contaminated media (e.g., soil, sediment, surface water, ground water). In addition, Mr. Johnston has evaluated the risks associated with hazardous waste transport by rail and truck.
- Worked closely with a major PRP at a Superfund site in Pennsylvania to develop a means of comparing remedial alternatives on the basis of human health risk and feasibility of implementation. The analysis involved the development of methods to estimate soil concentrations, volatile compound and dust emission rates, and off-site contaminant air concentrations due to several proposed remedial alternatives. Human health risks associated with each alternative were estimated, and the results were presented to EPA as part of a Focused Feasibility Study for the site.
- Conducted a detailed review of the assumptions and methodologies used by a contractor for the Colorado Department of Health in reconstructing historical human exposures to contaminants emitted from a Colorado nuclear facility. An independent review of the available documents on historical facility practices was performed in order to estimate emissions and assess potential exposures during the period of operation. Potential emissions of ethylene oxide and five chlorinated solvents used in operations at the facility over a 40-year period were evaluated in the assessment.
- Researched the history of hazardous waste regulation during the 1970s and early 1980s, and analyzed the changes in awareness of hazardous waste as a national issue by industry, the public, and the regulatory and scientific community. The resulting affects of these changes on environmental liability associated with property transfer were also assessed

In addition to his experience with ENVIRON, Mr. Johnston has held the following position:

- AAAS/EPA Environmental Science and Engineering Fellow, Office of Air and Radiation, Indoor Environments Division, US Environmental Protection Agency, Washington, DC (Summer 1997).
 - Investigated the factors affecting levels of pollutants in indoor air of office buildings.
 - Developed a model to estimate indoor sources of particulate matter in office buildings.