GEOTECHNICAL DEC 0 6 2001

PRELIMINARY SITE ASSESSMENT APPROXIMATELY 4.29 ACRES ALONG NORFOLK SOUTHERN RAILROAD MECKLENBURG COUNTY, NORTH CAROLINA STATE PROJECT NO. 9.9081000 (P-3800)

> Prepared for: NCDOT Geotechnical Unit 1589 Mail Service Center Raleigh, North Carolina 27699-1589

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1.0 INTRODUCTION

The North Carolina Department of Transportation (NCDOT) is preparing for the construction of the Charlotte Multi-Modal Station in Charlotte, Mecklenburg County, NC. The Multi-Modal Station will integrate the various transportation modes available to downtown Charlotte in the area centered on the Norfolk Southern Railroad corridor. While NCDOT currently owns several adjoining properties, construction of the Multi-Modal Station and the associated track improvements will require the acquisition of property currently owned by the Norfolk Southern (NS) Railroad located between West 1st and West 9th Streets.

Solutions Industrial & Environmental Services, Inc. (Solutions-IES) received a request for proposal (RFP) on October 1, 2001 to conduct a preliminary site assessment (PSA) of four parcels of land comprising approximately 4.29 acres within the NS right-of-way in downtown Charlotte, NC. Solutions-IES submitted proposal NC01901P to the NCDOT on October 12, 2001 describing the planned PSA for the four parcels. The RFP requested that the work be summarized in a single report and that field evaluations be limited to the shallow soils. An evaluation of groundwater conditions was not requested as part of the PSA. The following report discusses data obtained from a previous consultant's review of the public record for a number of adjacent and nearby sites, and our current field activities including the results of laboratory analyses performed on soil samples collected from each of the four parcels.

2.0 BACKGROUND

Norfolk Southern's Washington to Atlanta main line is one of the major freight lines serving the eastern United States. In the project area, the NS right-of-way is oriented in a northeast-southwest direction passing through downtown Charlotte roughly paralleling Graham Street (Figure 1). In the project area, the railroad right-of-way ranges between 125 to 600 feet in width. There are two main tracks (Number 1 and Number 2) along with a rail siding that is used for temporary railcar storage. Both main tracks are switched to allow rail traffic to flow in both directions.

For the purpose of acquiring needed property, NCDOT has divided portions of the right-of-way within the project area into seven parcels. Parcels 1, 3, and 6 occupy the west half of the right-of-way and Parcels 2, 4, 5, and 7 occupy the east half of the right-of-way.

The authorized PSA included the four parcels (2, 4, 5, and 7) located in the eastern half of the right-of-way. The original railroad was constructed at grade with numerous city street crossings. In the early 1960s, the current NS main line was relocated onto an embankment (grade-separated) between West 9th Street and West Morehead Street to mitigate its impact on highway traffic through the city. Bridges were constructed over West 6th Street, West 5th Street, West Trade Street, West 4th Street, and Morehead Street.

Land surrounding the railroad is used for a mixture of uses typical of downtown areas. Adjoining and nearby properties include commercial businesses and offices, parking, a bus station, two city cemeteries, and Ericsson Stadium and practice fields for the Carolina Panthers football team. Some adjoining and nearby areas have been cleared and are undergoing construction of new high-rise buildings. The tracks and embankments for most of the study area are enclosed within perimeter fencing that limits access by pedestrian traffic.

Figure 2 shows the location of the four parcels with respect to nearby city streets. Parcel 2 is the most southwest of the four parcels, extending from West 1st Street to West 4th Street. Parcel 4 extends from West 4th Street to West 7th Street and Parcel 7 extends from West 5th Street to West 9th Street.

3.0 PREVIOUS INVESTIGATIONS

Arcadis Geraghty & Miller (AGM, 2000) prepared a Limited Phase I Environmental Site Assessment Report (PESAR) for many of the properties surrounding the NS right-of-way in the project area. Figure 3 shows the property locations that were investigated during the PESAR. The cross-hatched and numbered properties shown on Figure 3 were highlighted as presenting possible environmental concern and/or posing possible environmental liability. The properties of noted concern that are adjacent to the four parcels being assessed for this PSA report are briefly described below:

PROPERTIES ADJACENT TO OR NEAR PARCEL 2

Parcel 2 is located near a former polychlorinated biphenyl (PCB) disposal facility that was stabilized with cement and redeveloped as practice fields for the Carolina Panthers football team. The former disposal site is not shown in Figure 3. It was located west of (across the right-of-way) Parcel 2 and is not expected to have affected environmental conditions on Parcel 2. A Duke Power substation (not numbered) is

located adjacent to the south half of Parcel 2, but most likely has not affected environmental conditions (AGM, 2000). Image Plus, a custom color printing operation (shown as 38) is located on the city block between 3rd and 4th Streets. The PESAR (AGM, 2000) does not cite instances of chemical releases, but has listed it as a potential environmental liability area because of its historical property use for automobile servicing and painting. The Charlotte Florist (number 37) is also listed as a potential environmental site because of historical property use for automobile servicing and painting.

PROPERTIES ADJACENT TO PARCEL 4

The Greyhound Lines, Inc., bus terminal (number 24) may represent the greatest potential for environmental liability adjacent to the study area. Parcel 4 is located along the northwest side of the terminal building. The Greyhound Lines, Inc. facility has three active diesel pumps fed by a 15,000-gallon UST. According to the PESAR, the facility had a 10,000-gallon diesel leaking UST (LUST) that was removed in 1996. The LUST was located along the northern portion of the property, approximately 25 feet from the terminal building. However, the PESAR did not include a map identifying the exact location of the former LUST.

Approximately 114 tons of soil were excavated during the tank removal. Soil borings were placed in the excavation pit and along the location of piping that supplied the fuel pumps. Total petroleum hydrocarbons (TPH) were recorded as high as 1,100 mg/kg within the excavation pit. Diesel range TPH measurements were higher (2,500 mg/kg) in soil borings emplaced along the fuel pipeline, approximately 100 feet south of the former LUST. A Comprehensive Site Assessment (CSA) has been requested for this site, but had not been completed at the time of the AGM assessment in 2000.

PROPERTIES ADJACENT TO PARCEL 5

Parcel 5 is located adjacent to several businesses. The Witzens Art Gallery (number 18) may represent some environmental risk because of historical property use as a machine shop. The Daily Double Sports Bar and Business Records Storage, Inc. (numbers 20 and 21) were also noted because of their historical use including coal storage, a machine shop and automotive repair shop. Paid Parking owns two gravel/asphalt parking lots (numbers 22 and 23) located adjacent to the southeast half of Parcel 5. They were noted to represent some environmental risk because of their historical use including coal storage, a machine shop, oil house, and gasoline station with three USTs. The PESAR did not list any incidences of

environmental releases for these properties, but listed these areas as potential environmental liability areas with the recommendation for further study.

PROPERTIES ADJACENT TO PARCEL 7

Parcel 7 is located next to an active construction site, Carolina Rim & Wheel, and a cleared gravel parking lot and grassy field. The active construction site is located between 5th and 6th Streets, and was previously described as being occupied in the past by a bakery, a single-story building, and more recently, a gravel parking lot. Carolina Rim & Wheel (number 13) is an automotive parts store and was regarded by AGM as potential environmental liability area because of the possibility of petroleum hydrocarbon releases from current/past automotive servicing. The gravel parking lot between West 6th Street and West 7th Street, and the field between West 7th Street and West 8th Street (Numbers 8 through 12 on Figure 3 were not specifically studied in the PESAR).

4.0 CURRENT CONDITIONS

Based on the scope of services defined by the RFP received from the NCDOT on October 1, 2001, Solutions-IES performed a reconnaissance of each of the parcels. The photographs in Appendix A show current site conditions.

Within Parcel 2, the main line tracks are elevated on embankment fill. The fill slopes are vegetated and the portion of the property located east of the embankment slope is at street grade (10 to 15 feet below the mainline rail elevation (Photograph 1) and covered with gravel. There is an existing spur line, identified in the Feasibility Study as the "Old Team Track", extending through the parcel. Judging from the rusty rails, the spur line appears to be rarely used (Photographs 2 and 3). Parcel 2 is the largest of the four properties evaluated and encompasses approximately 3 acres. Parcel 2 was found to contain several underground utilities, including high voltage electric, cable television, and fiber optic telephone lines.

Parcel 4 encompasses approximately 0.21 acre, extending from West 4th Street and West Trade Street. The area near the perimeter fence is at street grade. The land slopes upward along the embankment slope to the main line tracks and is covered in overgrown scrub vegetation. The Greyhound bus station is located (southeast) of the perimeter fence (Photographs 4 and 5). We noted during our reconnaissance that the existing bus station has three diesel pumps and three vehicle-washing stations located on the

northwest side of the building (closest to Parcel 4). An existing 15,000-gallon underground storage tank (UST) is currently used for fueling busses.

Parcel 5 comprises approximately 0.28 acres and extends along the east side of the main line rails from West Trade Street to West 5th Street. Most of the area east of the embankment fill is paved and is used as an alley way (Photograph 6) for the adjacent properties which include Witzens Art Gallery, Business Records Storage, Inc. warehouses, and two gravel parking lots. A solid waste container (dumpster) was observed in the alley behind the Business Records Storage, Inc. property (Photograph 7). Old, partially buried railroad tracks were observed in the alley.

Parcel 7 (0.8 acres) is located along the southeast side of the main line rails between 5th and 9th Streets. Most of the city block adjacent to this parcel between 5th and 6th Streets has been cleared and is currently undergoing construction. Photograph 8, taken near the south end of Parcel 7 shows some construction material stored in the NS right-of-way. The railroad embankment, visible in the photograph, is partially retained by concrete cribbing. The city block between 6th and 7th street is occupied by Carolina Rim & Wheel, an auto supply store (Photographs 9 and 10). A gravel parking lot is present between 7th and 8th Streets, and a grass field is located between 8th and 9th Streets where the NS main line rail alignment drops downward to street level (Photograph 11).

5.0 FIELD ACTIVITIES

Solutions-IES opened borings at 25 locations within Parcels 2, 4, 5 and 7. Soil samples were collected using either a Geoprobe[®], or in cases where vehicle access was impossible, we entered the area on foot and used a hand auger to collect the samples. The SB-1 boring location on Parcel 2 was in a ditch adjacent to the off-site electric power sub-station. Several hand auger borings were attempted at this location but refusal was encountered approximately 1 to 2 feet below ground surface (bgs) because of gravel and cobbles. The other borings opened in Parcel 2 were opened with the Geoprobe[®]. In Parcel 4, all of the borings were performed using a hand auger because of access restrictions. Those in the south end of Parcel 4 (SB-8 and SB-9) and Parcel 5 (SB-14) were terminated at relatively shallow depth on gravel and cobbles. In Parcel 7 all of the borings except SB-19 were opened with the Geoprobe. The boring locations for each of the four parcels are shown in Figures 4 through 7.

Prior to beginning the assessment, Solutions-IES contacted ULOCO to verify the location of utilities located within the areas to be investigated. However, due to the presence of a large number of utilities in

the study area (electric, television, fiber optic, railroad), a private utility locator, Associated Technical Services (ATS) was contracted to verify the absence of any utilities in the immediate area proposed for the soil borings. Representatives from N&S and Qwest Communications were also present on site to locate their utilities.

Since NCDOT was primarily interested in the shallow soils, the Geoprobe® borings were advanced to a total depth of 8 feet below ground surface (bgs) and terminated. Continuous soil cores were collected from each boring using a Macro® Sampler. Upon removal from the ground, the cores were cut into 2-foot lengths. For the borings opened with a hand auger, recovered soils were screened on one—foot intervals. Soil from each interval was further split into two portions. Each portion was placed in a separate resealable plastic bag. One bag was placed on ice for possible laboratory analysis, while the other bag was sealed and placed at ambient temperature for field screening with an organic vapor analyzer (OVA).

The soil samples were examined for soil type and the presence or absence of petroleum staining or odor. After a period of approximately 20 minutes, which allowed for the accumulation of volatile organic compounds (VOCs) in the headspace of the bags, each sealed bag stored at ambient temperature was scanned with the OVA. A background reading was taken with the OVA prior to measuring VOC concentrations in the bags. The readings of the VOC concentrations in the headspace were then entered on the boring log, along with a soil description and any indications of petroleum staining or odor (Appendix B). Following completion of the soil sampling activities, the hand auger and Geoprobe borings were backfilled using soil and/or sand.

At least one sample from each parcel was submitted to Prism Laboratories located in Charlotte, NC for further analysis (two samples were submitted from Parcel 7). Generally, the soil sample exhibiting the highest OVA reading was submitted to the laboratory.

Samples SB-5 (Parcel 2), SB-13 (Parcel 4), SB-15 (Parcel 5), SB-20 and SB-25 (Parcel 7) were analyzed for total petroleum hydrocarbons (TPH) as both gasoline-range organics (GRO) and diesel-range organics (DRO) using EPA SW-846 methods 5030 and 3550, respectively. The sample collected from SB-25 was also analyzed for VOCs and semi-volatile organic compounds (SVOCs) by EPA Methods 8260B and 8270C, respectively.

6.0 ASSESSMENT RESULTS

For a large part, VOC concentrations as measured with the OVA were at background levels of less than 5 parts per million. Table 1 summarizes the OVA readings for all of the samples collected during the PSA. While most of the borings were extended to 8 feet bgs, borings ranged from 1 foot bgs at SB-8 and SB-9 because of shallow refusal on cobbles, to 12 feet bgs at SB-6. Slightly elevated VOC concentrations of 20 and 36 parts per million (ppm) were measured with the OVA for two of the samples from SB-15 (Parcel 5) at depths of 4 to 6 feet and 6 to 8 feet, respectively. At SB-25 (Parcel 7) at 0 to 2 feet and 6 to 8 feet, OVA readings were 7.4 and 5.8 ppm. No obvious staining or noticeable petroleum odor was observed in any of the recovered samples.

The results of TPH analyses performed on the five soil samples submitted to the laboratory are summarized in Table 2. Three of the samples were collected in the top 2 feet of the near-surface soils; the other two samples were collected at a depth of 6 to 8 feet bgs. No gasoline range petroleum hydrocarbons were detected in any of the five samples. Detectable concentrations of diesel range hydrocarbons were reported in the samples collected from Parcels 2 at SB-5 and Parcel 7 at SB-20 and SB-25.

The sample collected from SB-25 (Parcel 7) at a depth of 0.0 to 2.0 feet bgs was also analyzed for VOCs and SVOCs. A single VOC, bromoform, was detected at 33 µg/kg in this soil sample. The detection of a single VOC in a soil sample is unusual. According to Prism Laboratories, its presence is likely a laboratory artifact. No SVOCs were detected above elevated detection limits. The laboratory indicated that they performed a 5x dilution of the sample for the SVOC analysis because "of a thick brown matrix" present in the prepared sample. The complete laboratory reports are included in Appendix C.

7.0 DISCUSSION OF FINDINGS

This PSA was performed on four parcels of the NS property located on the east side of the main line rails between West 1st and West 9th Streets in Charlotte, NC. Most of the adjoining properties were classified by AGM as presenting some environmental risk because of their history of differing uses in the past. Our reconnaissance of the NS property did not indicate any areas of distressed vegetation and/or obvious stained areas that would present environmental concerns.

Twenty-five (25) borings were opened to depths that ranged between 1 and 12 feet, with most borings opened to a depth of 8 feet bgs to examine the shallow soils. As observed during our reconnaissance, the old at grade railroad track or the old railroad ballast present along much of the study area presented extreme difficulties in opening the hand auger samples. In many cases multiple borings were attempted in a proposed boring area before a boring could be successfully opened through the ballast to the underlying soils. The underlying soils consisted primarily of clays and silts typical of soils in the Charlotte area.

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The detection of diesel-range TPH in shallow soils is presumably the result of an extended history of use of the area by the NS Railroad. A low concentration of diesel-range hydrocarbons was also detected at depth in the boring (SB-20) located next to the Carolina Rim & Wheel parking lot. Bromoform was the only VOC reported in the soil sample collected from SB-25 at 33 µg/kg. However, its detection was suggested to be anomalous, according to the laboratory report.

Figure 8 shows the outline of the proposed Multi-Modal Station that will occupy Parcel 4 and the current Greyhound bus terminal property. The figure also shows portions of the track improvements that will occupy the north half of Parcel 2, Parcels 5, and Parcel 7. According to the Draft Feasibility Study, the existing NS main line tracks will remain aligned horizontally and vertically near their present position(Gannett Fleming, et al. 2001). Additional rails, noted as "Heavy Passenger 1", "Heavy Passenger 2" and "Event Layover No.2" will be constructed along with passenger sidings on the east side of the main line rails. A single rail designated as the "Future O Line Track" will be constructed on the west side of the main line rails. In the Station area, the new rails will be aligned vertically close to the main line rails. This will require the placement of extensive new fill embankments throughout the four parcels studied. The cross streets, West 6th Street through West 9th Street will be closed and a portion of Parcel 7 will be used to construct a natural area (Linear Park). A soil berm with retaining wall extending through the park will be used to create a sound and visual buffer. Because of the extensive new fill that will be required, the project will require additional off-site soil to construct the new embankments.

According to the Volume 1 of the Groundwater Section Guidelines for the Investigation and Remediation of Soil from Sources Other Than Underground Storage Tanks (Guidelines, 2000), any detection of petroleum hydrocarbons exceeding the minimum detection limit (MDL) of the analysis would carry a reporting requirement to the Mooresville Regional Office, which has jurisdiction over the site. Pétroleum releases not impacting the groundwater must be remediated to the Action Level. The TPH Action level for diesel-range hydrocarbons (EPA Method 8015/3550) is 40 mg/kg. Of the three detections noted by the lab during this assessment, only the surface detections at SB-5 and SB-25 slightly exceed the TPH Action Level of 40 mg/kg. The deeper detection from SB-25 does not exceed the Action Level.

8.0 RECOMMENDATIONS

Based on the Guidelines, the detection of the low concentrations of TPH requires reporting of their discovery to the Mooresville Regional Office. As such, additional remediation of the surfical soils may be required especially if these soils are excavated during construction. If these materials are undisturbed and buried within the new fill embankment it may be possible to obtain a permit from DENR to handle these materials within the embankment as is allowed for new highway construction under a provision of the Guidelines.

It has been Solutions-IES' experience with other rail sites that there can be measurable concentrations of polynuclear aromatic hydrocarbons (PAHs) in the ballast, associated with the past use of creosote-treated cross-ties. The PAHs typically have lower Soil to Groundwater MSCCs than the TPH values. Since most of these compounds are not particularly mobile, their presence would be expected to be limited to the railroad ballast and surficial soils beneath the ballast. Where the ballast materials are to be excavated, the best use of these materials may be to recycle them into ballast in areas of new track construction.

There is the possibility that other small areas of petroleum-impacted soil may be encountered during site clearing and grubbing. If areas soil contamination are discovered, Solutions-IES requests that we be notified so that we may evaluate these materials and have the opportunity to revise, modify, and/ or amend these recommendations in light of new discovery.

9.0 REFERENCES

ARCADIS Geraghty & Miller. (2000). Limited Phase I Environmental Site Assessment Report. State Project No. 9.9080178 (AMTRAK). Proposed AMTRAK Rail Station. Downtown Charlotte. Charlotte, North Carolina.

Gannett Fleming Corddry and Carpenter, Inc. and Wagner Murray Architects, 2001 First Draft Feasibility Study for the Charlotte Multi-Modal Station and Area Track Improvements, prepared for the North Carolina Department of transportation, Rail Division Preliminary Study.

NCDENR. (2000). Groundwater Section Guidelines for the Investigation and Remediation of Soil and Groundwater. Division of Water Quality. Groundwater Section.

TABLES

TABLE 1 SUMMARY OF FIELD SCREENING RESULTS FOR SOIL NORFOLK & SOUTHERN RAILROAD MECKLENBURG COUNTY, NC STATE PROJECT NO. 9.9081000 (P-3800)

| | | | | | | | | ` | , | | | | |
|--------|--|--------------|------|-----|--------|-------------|---------|-------|---------|---------|----------------|-----------|-----|
| Boring | Parcel | | | | Sample | e Deptl | in Feet | Below | Ground | Surface | | | |
| Number | | 0 | - 2 | 2 | - 4 | 4 | - 6 | | - 8 | | 10 | 10 - 1 | 12 |
| Texas | Number | - 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 1 | |
| SB-1 | 36" | 11.4 | 1.3 | | | | | 1 - | , 0 | 0-7 | 9-10 | 10-11 1 | 1-1 |
| SB-2 | 70 | | .9 | 2 | 2.4 | | 4.6 | 7 | 3.6 | • | | | |
| SB-3 | | 2 | .2 | 3 | 3.8 | 3 | 3.5 | | 0.0 | | | | |
| . SB-4 | 2 | JI 3. | .0 | 3 | 0.0 | | 2.8 | | .7 | | | | |
| SB-5 | | 7 3.0 | 0* | 2 | .4 | | 2.5 | | .4 | | | | |
| SB-6 | 7 | <u> I</u> ī. | 0 | i | .0 | | .4 | | .3 | 1.3 | , T | 1.0 | |
| 1 | | 1. | 8 | 2 | .2 | | 1 | | .8 | 1 | 2 | 1.8 | - |
| *SB-8- | | 1.2 | | | | | | | .0 | | | | |
| SB-9 | •[| 1.2 | | | | | | | | | | | |
| SB-10 | _ | 1.5 | 1.4 | 1.6 | 1.6 | 1.6 | 1.3 | 1.4 | • | | | | |
| SB-11 | 4, | 1.7 | 1.3 | 1.5 | 1.3 | 1.2 | 1.2 | 1.3 | ! | | | | |
| SB-12 | 4.c. [| 2.0 | 1.5 | 1.9 | 1.7 | 2.0 | 2.0 | 2.0 | | | | | |
| SB-13 | <u>. </u> | 1.3 | 2.0* | 1.5 | 0.8 | 1.4 | 1.5 | 1.8 | | | | | |
| SB-14 | 20- | 1.8 | | | | | 115 | 1.0 | | | | | |
| | 25a | 2.0 |) | 2. | 1 | 20 | 0 | 36. | 0* | | | | |
| SB-16 | 5 | 2.5 | | 3.0 | 6 | 1. | | 2.: | | | | | |
| SB-17 | | 1.5 | | 2.0 | | 1. | | 1.: | | | | | |
| SB-18 | ĺ | 1.4 | | 1.9 | | 2. | | 2.0 | | | | | |
| SB-19 |) [| | 1.6 | 1.1 | 1.0 | 1.1 | 1.2 | 2.(| <u></u> | | | | |
| | كانتر إ | 1.2 | | 1.9 | , | 2.0 | | 1.9 | * | | | | |
| SB-21 | 1 | 2.5 | | 1.9 | , | 2.2 | | 3.0 | | | | | |
| SB-22 | 7 | 2.6 | | 3.0 | | 3.0 | | 5.0 | | | | | |
| B-23 | 1 | 2.5 | | 2.3 | | 3.8 | | 2.5 | | | | | |
| B-24 | 1 | 2.7 | | 2.4 | | 2.2 | | 2.8 | | | | | |
| B-25 | | 7.4* | | 4.0 | | 4.8 | | 5.8 | | | | | |
| | | | | | | | | | | | | | |

Notes:

All values are in parts per million (ppm)

3c = 2borings 22c = 6 borings, 25a = 17 borings

^{*} Asterisk indicates sample was submitted to the laboratory for analysis.

TABLE 2 SUMMARY OF LABORATORY TPH RESULTS FOR SOIL NORFOLK & SOUTHERN RAILROAD MECKLENBURG COUNTY, NC STATE PROJECT NO. 9.9081000 (P-3800)

| | SAMPLE INFORMA | ATION | TOTAL PETROLEUM HYDROCARBONS | | | |
|------------------|--------------------|---------------------|-------------------------------------|-----------------------------------|--|--|
| PARCEL NUMBER | SAMPLE LOCATION | DEPTH (Feet BGS) | GASOLINE RANGE ¹ (mg/kg) | DIESEL RANGE ² (mg/kg) | | |
| 2 | CSB-5 | 0.0 - 2.0 | BDL ³ | 45 | | |
| 4 | ₹ SB-13 | 1.0 - 2.0 | BDL | BDL | | |
| 5 | SB-15) | 6.0 - 8.0 | BDL | BDL | | |
| 7 | SB-20) | 6.0 - 8.0 | BDL | 26 | | |
| 7 | SB-25 | 0.0 - 2.0 | BDL | 67 | | |

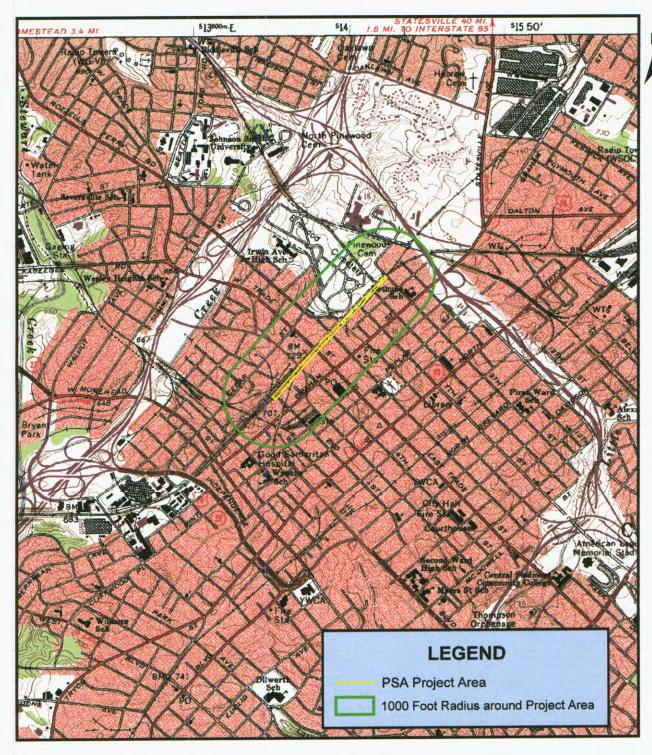
Notes:

BDL - Below Detection Limits of 10 mg/kg for Diesel Range and 1.0 mg/kg for Gasoline Range

¹⁻ Total Petroleum Hydrocarbons (TPH) Method 5030 - Gasoline Range Hydrocarbons

² Total Petroleum Hydrocarbons (TPH) Method 3550 - Diesel Range Hydrocarbons

FIGURES



REFERENCE:

1,000 2,000

4,000

6,000 Feet

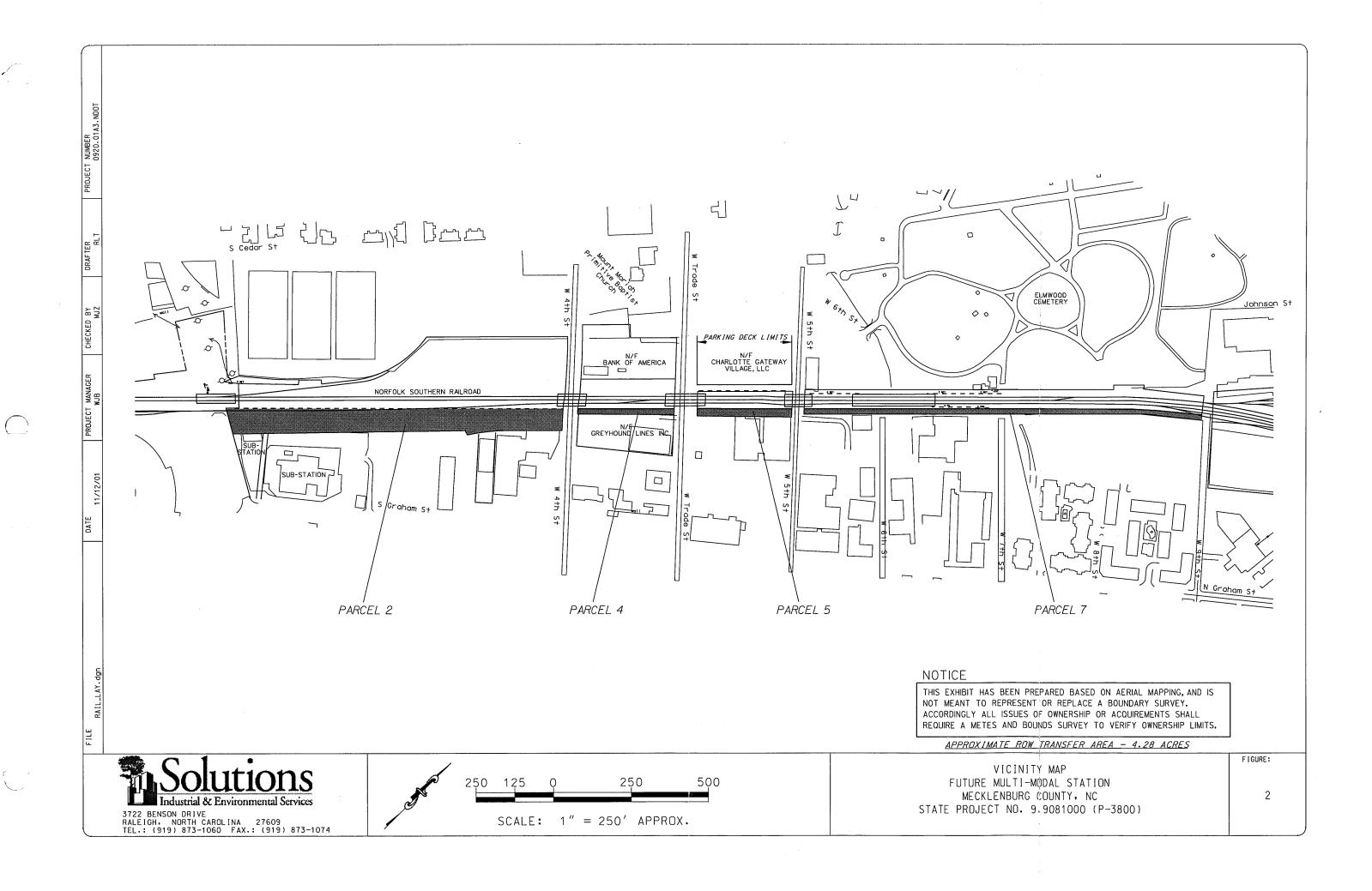
Charlotte East (NC) 7.5 Minute Topographic Quadrangle, Digital Raster Graphic File, U.S. Geological Survey, 1997 Contour Interval = 10 Feet

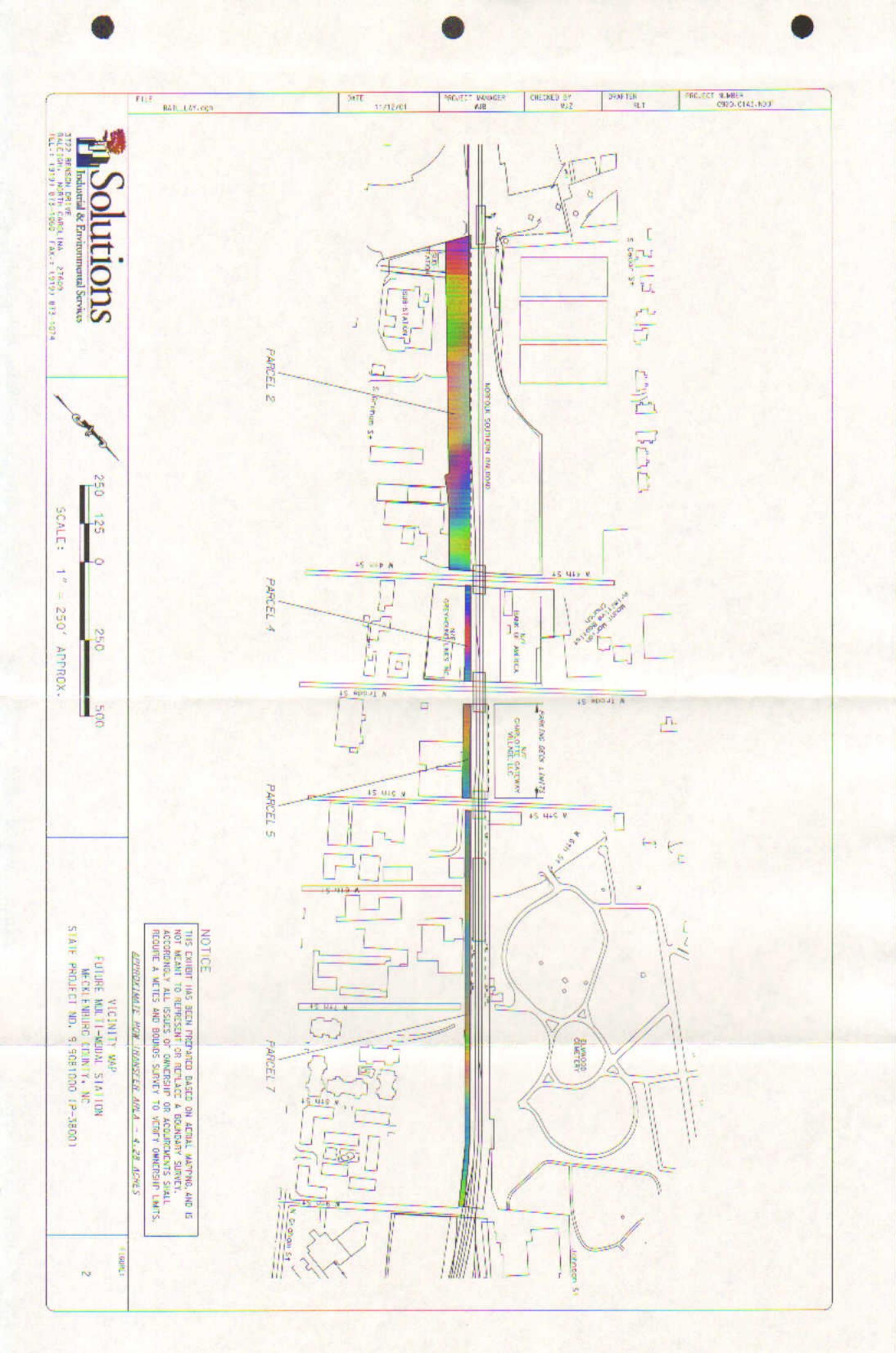
> PROJECT LOCATION MAP & VICINITY **FUTURE MULTI-MODAL STATION** CHARLOTTE, NORTH CAROLINA STATE PROJECT NO. 9.9081000 (P-3800)

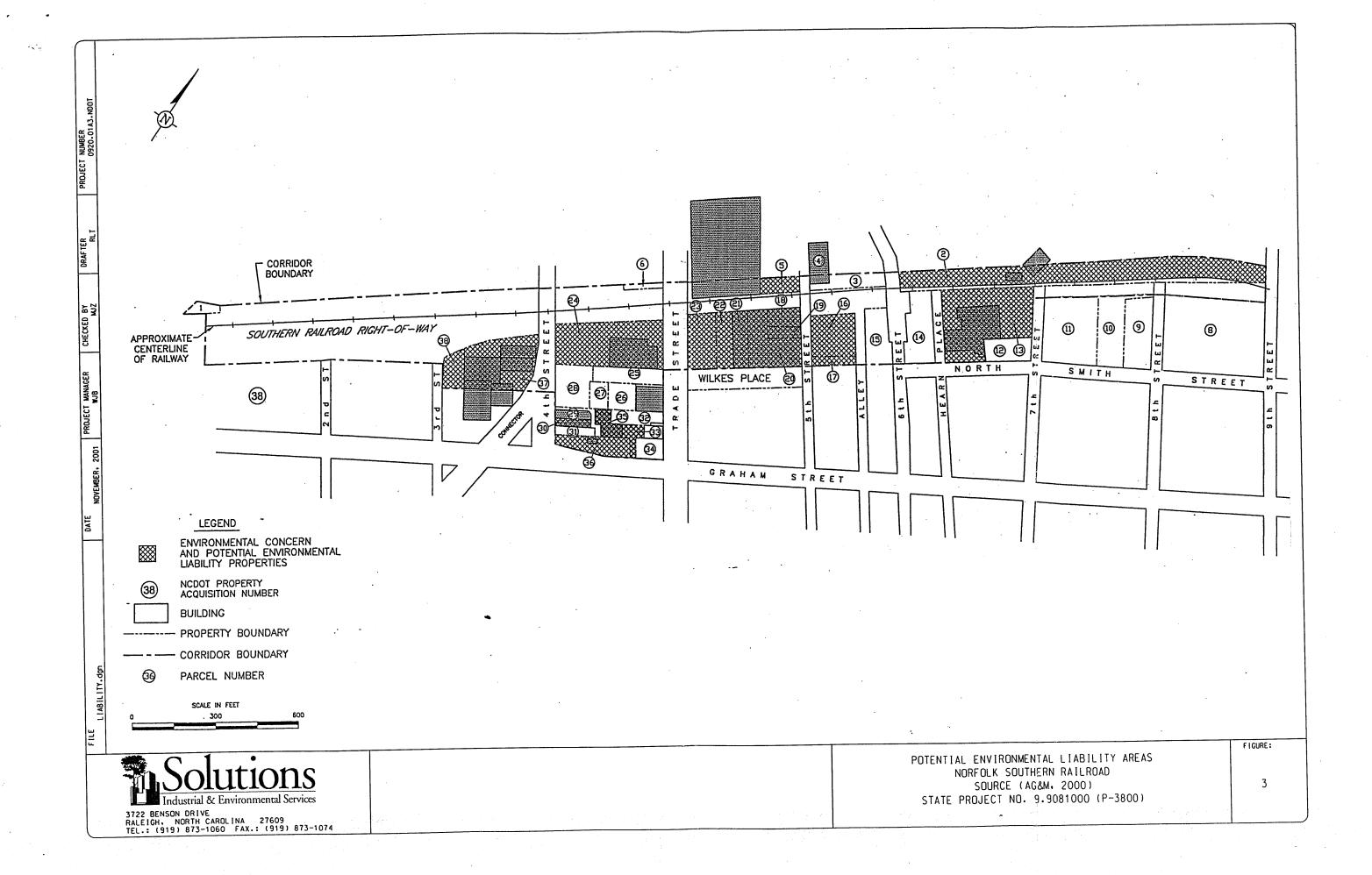


3722 BENSON DRIVE, RALEIGH, NC 27609 PHONE (919) 873-1060, FAX (919) 874-1074

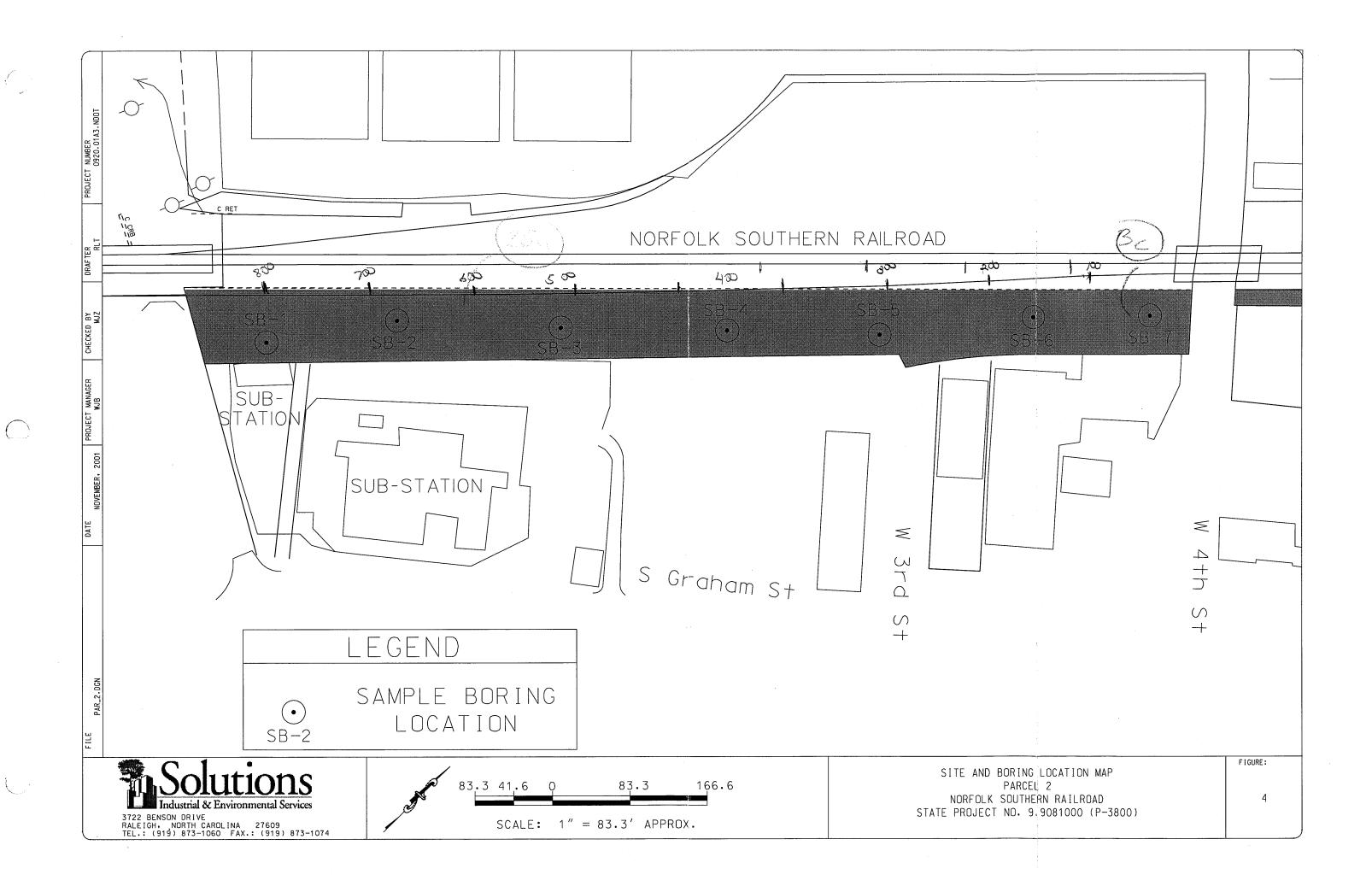
| CHECKED BY: | NCDOT/0920/ | | ESRI ArcView 8.1 |
|-------------|------------------|--------|------------------|
| | RevFig1RRStation | FIGURE | 1 |



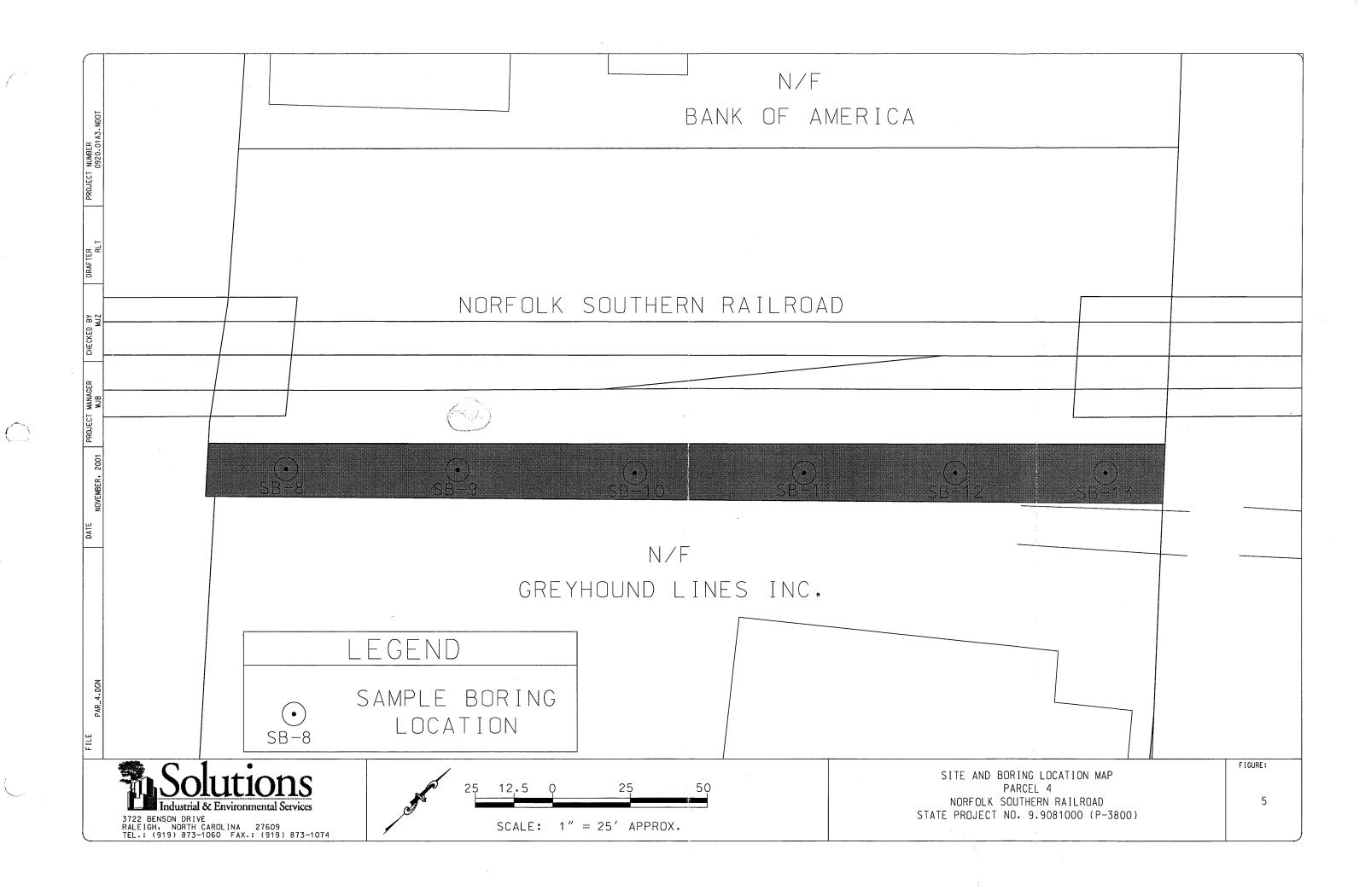


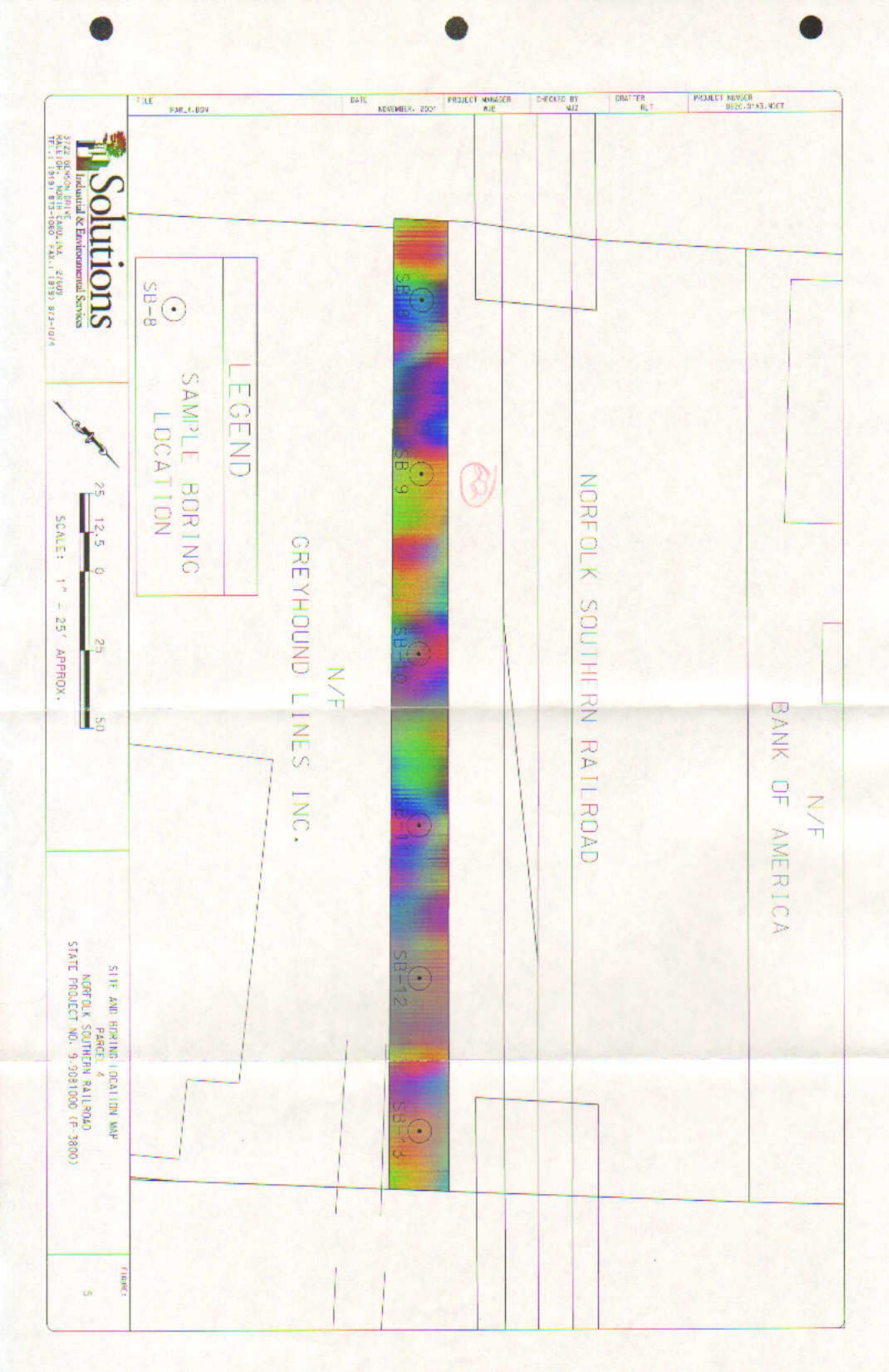


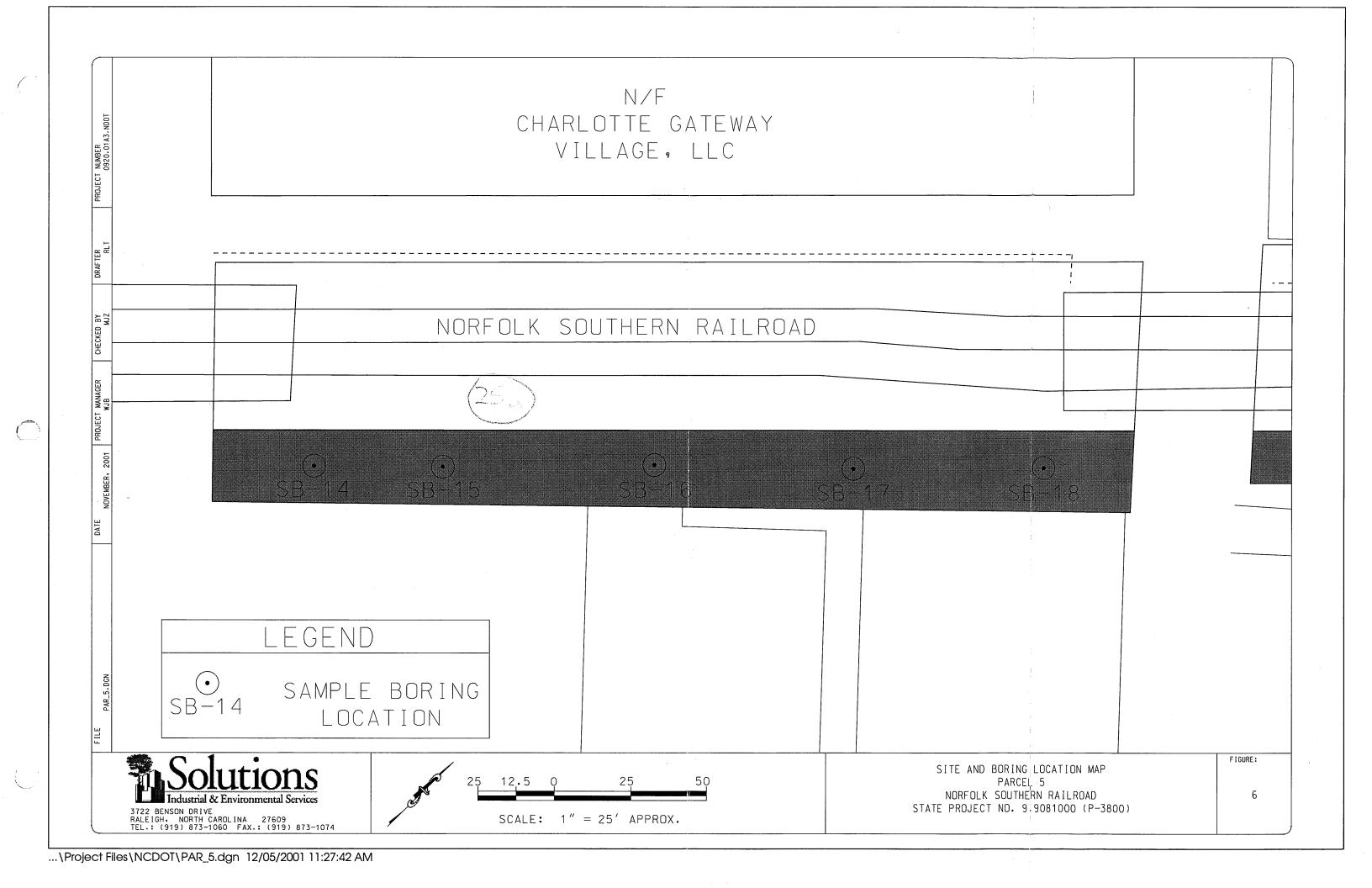
DRAFTES PLT PROJECT NUMBER 0928-01A3,HDDF DECKED BY PROJECT MANAGER FILE NOVEMBER: 2001 LIABILITY. ogn NSON DRIVE 1. NORTH CAROLINA 27609 319) 873-1060 FAX.: 19591 873-1074 BUILDING PARCEL NUMBER PROPERTY BOUNDARY CORRIDOR BOUNDARY ENVIRONMENTAL CONCERN
AND POTENTIAL ENVIRONMENTAL
LIABILITY PROPERTIES ACQUISITION NUMBER LEGEND SOUTHERN RALROAD RIGHT-OF-BOUNDARY 2 n d BSTREET TRADE STREET K 0 RAHAN ES PLACE 50 STREET RE -ALLEY 0 STREET 6 th (3) POTENTIAL ENVIRONMENTAL LIABILITY AREAS NORFOLK SOUTHERN RAILHOAD SOURCE (AGGM, 2000) STATE PROJECT NO. PLACE HEARN (6) 7 t.n STREET 9.9081000 (P-3800) (3) Em. 6 9 STREET Bth TREET (0) STREET 317

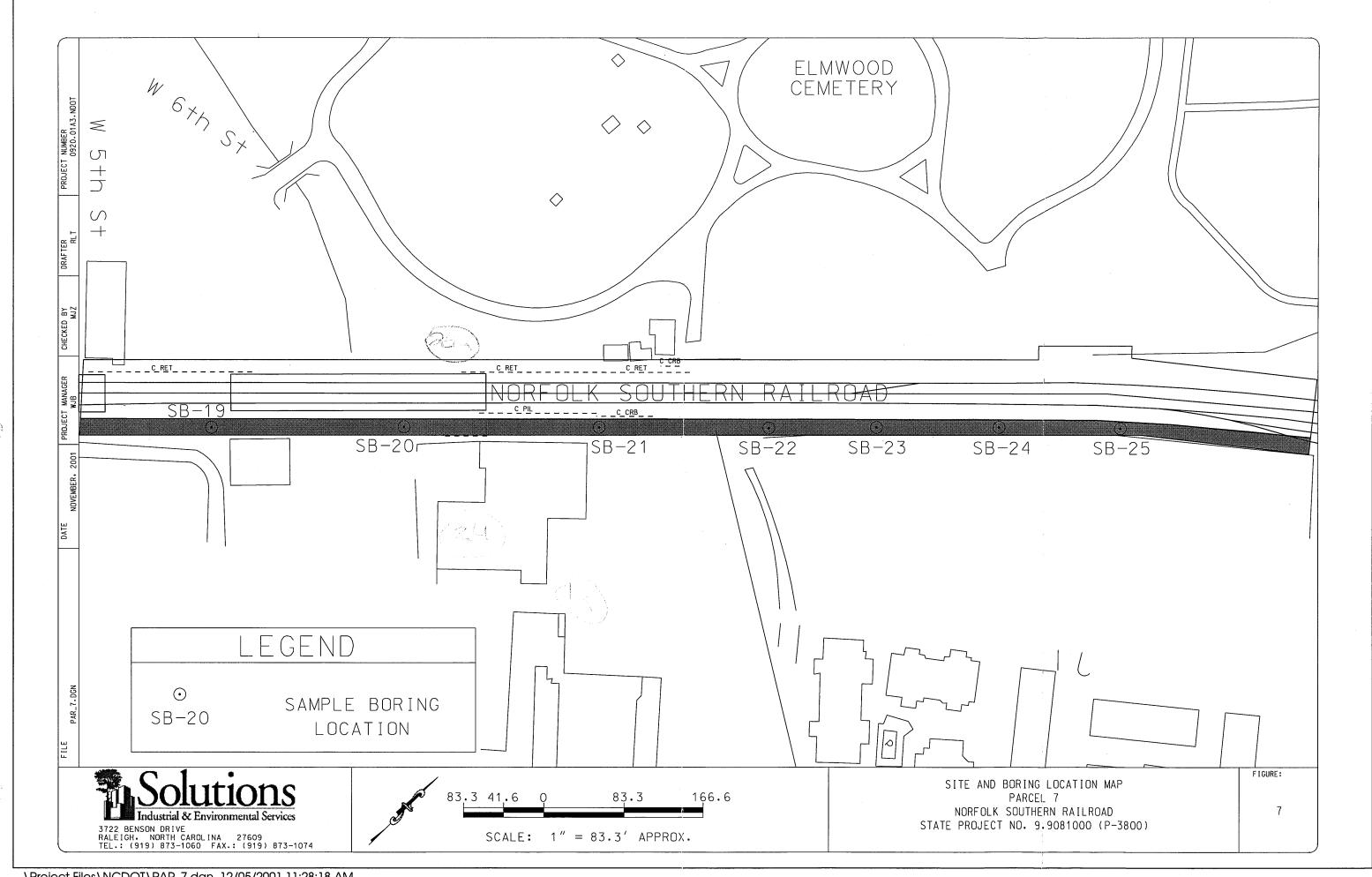


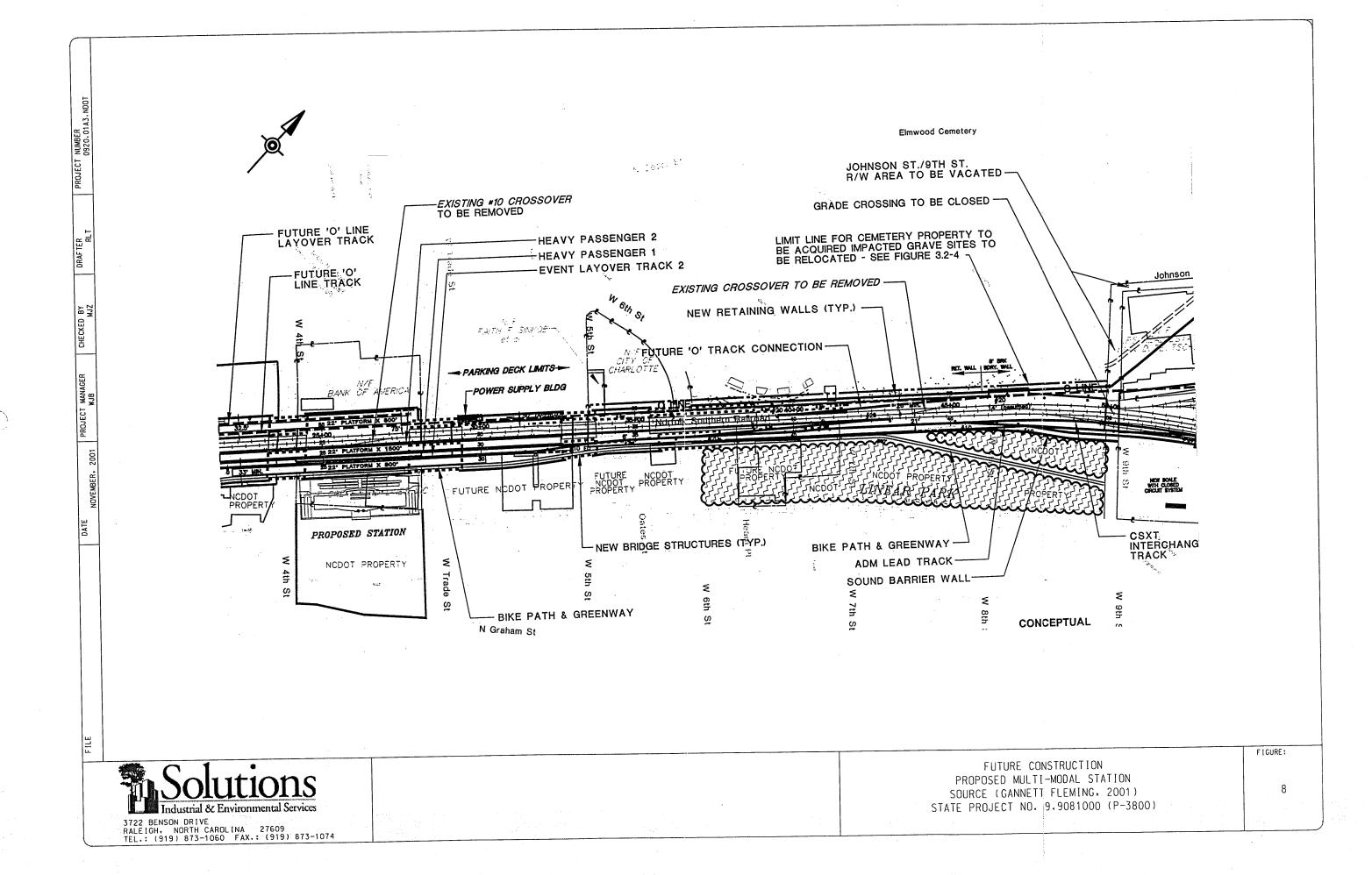


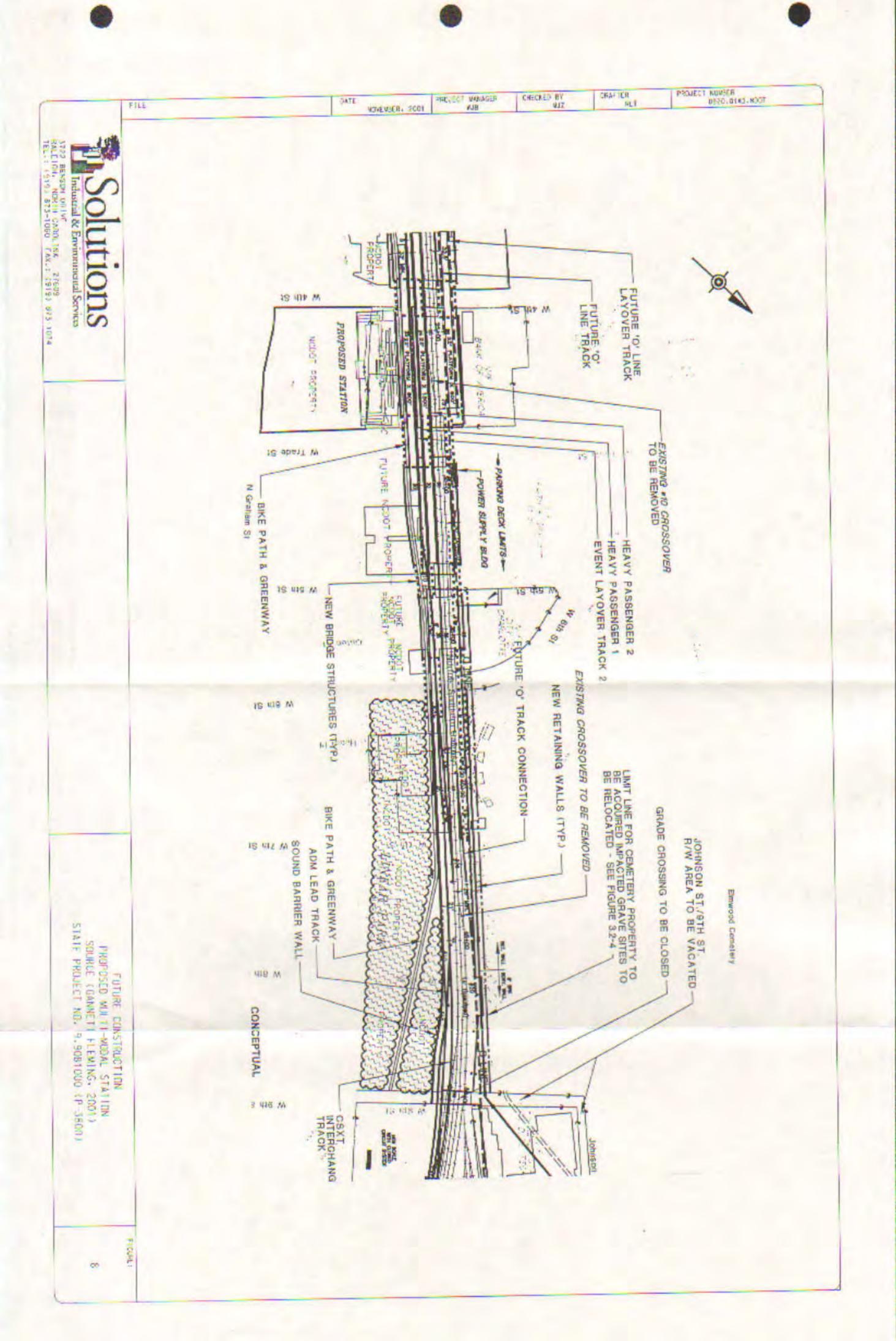




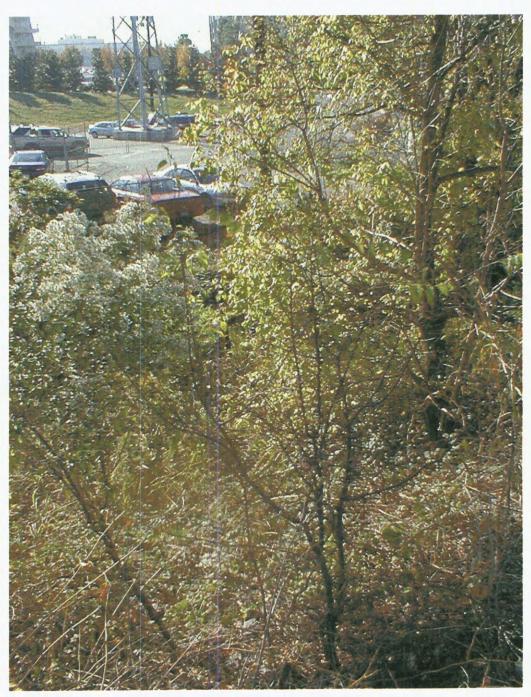




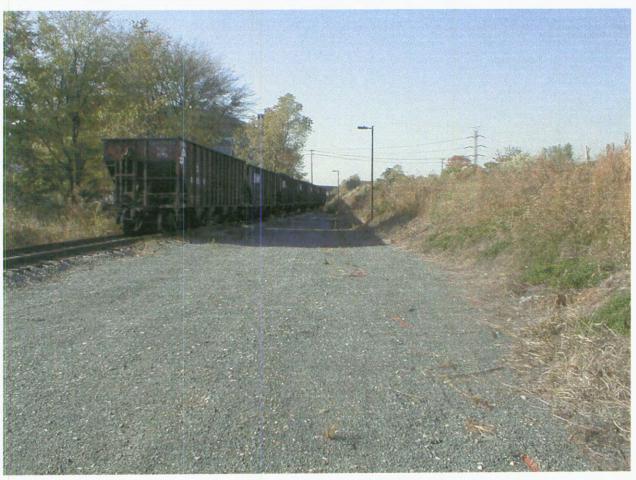




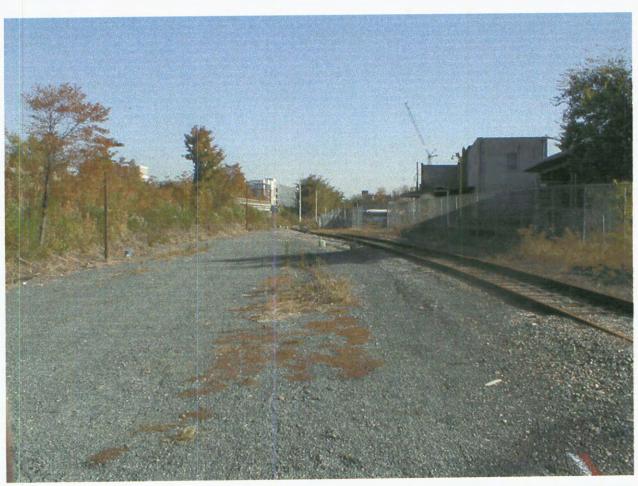
APPENDIX A PHOTOGRAPHS



Photograph 1 Approximate location of SB-1



Photograph 2 Parcel #2 facing southwest. Active railroad lines are on right.



Photograph 3 Parcel #2 facing northeast.



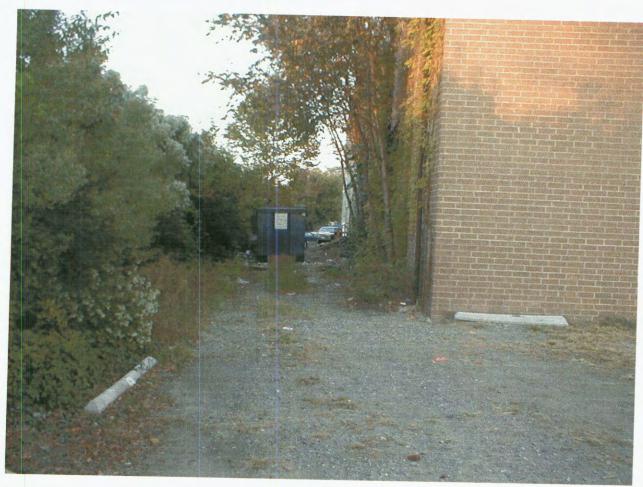
Photograph 4 Parcel #4 facing northeast. Bus station is visible to the right.



Photograph 5 Greyhound bus station viewed from Parcel #4. Diesel pumps are visible in background.



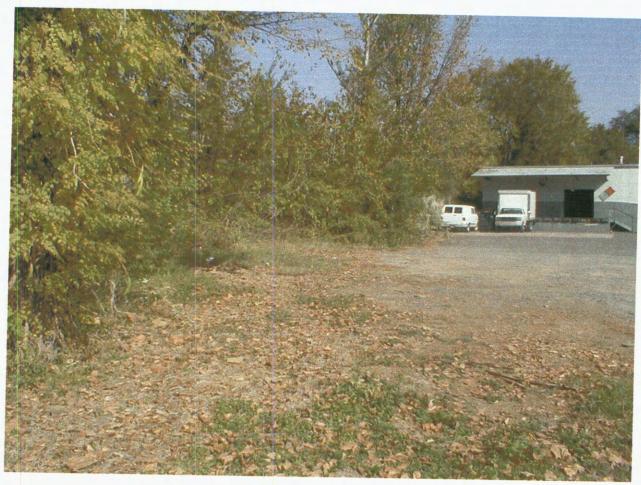
Photograph 6 Gravel parking lots adjacent to Parcel #5. Business Storage Inc. warehouse is visible in background.



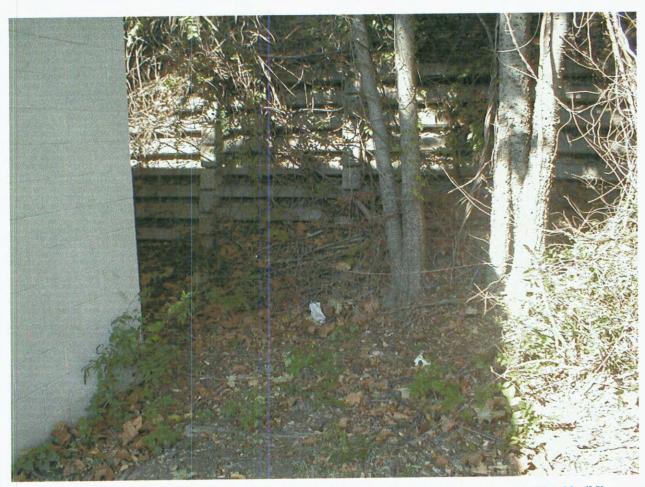
Photograph 7 Parcel #5.



Photograph 8 Location of SB-19.



Photograph 9 Parcel #7, Carolina Rim and Wheel property.



Photograph 10 Location of SB-21, located on northeastern corner of Carolina Rim and Wheel building.



Photograph 11 Parcel #7, along railroad tracks.

APPENDIX B
BORING LOGS



Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 2

Logged by: Matthew Zenker

1

Boring No.

SB-1

Date Started:

10/31/2001

Date Completed:

10/31/2001

Depth to Water:

Page:

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of 1

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with hand auger

| From To | Still Description | OVA Screening |
|----------|---|----------------------|
| 0' to 2' | Orangish/black clayey silt | OVA Screening |
| | | 0-1' 1.4 ppm |
| 2' to 3' | Orange silty clay with gravel | |
| | BORING TERMINATED UPON HAND AUGER REFUSAL | 1'-2' 1.3 ppm |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 2

Logged by: Matthew Zenker

Boring No.

SB-2

Date Started:

10/30/2001

Date Completed:

10/30/2001

Depth to Water:

Page:

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NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with Geoprobe

| From | To | Soil Description | OVA Screening |
|--------------|-------|--|----------------------|
| 0 | to 2' | Orangish/black silty, sandy clay with gravel | |
| 2' | | | 0-2' 3.9 ppm |
| | to 3' | Black sandy silt | 2'-4' 2.4 ppm |
| 3' | to 4' | | 4'-6' 4.6 ppm |
| <u> </u> | to 4' | Greenish brown silty clay | 6'-8' 3.6 ppm |
| 4' | to 6' | Greenish orange silty clay | |
| 6' 1 | to 8' | Orange, hard silty clay BORING TERMINATED | |
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Norfolk Southern Railroad

Solutions' Project Number:

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0920.01A3.NCDOT

Location:

Parcel 2

Logged by: Matthew Zenker

SB-3

Boring No.

Date Started:

10/30/2001

Date Completed:

10/30/2001

1

Depth to Water:

Page:

of

State Project Number:

9.9081000 (P-3800)

Project Name:

Boring Location and Offset:

NCDOT Project Information

Mecklenburg County, Charlotte, NC

PSAs for 4.29 Acres along Norfolk Southern Railroad

See site map.

Remarks:

Boring advanced with Geoprobe

| From To | DOLI DESCRIPTION | OVA Screening |
|---------------------------------------|--------------------------------------|----------------------|
| 0 to 2 | Black silty, sandy gravel | · |
| | | 0-2' 2.2 ppm |
| 2' to 4 | Black silty sand with clay seams | 2'-4' 3.8 ppm |
| 4' to 5' | | 4'-6' 3.5 ppm |
| 4' to 5' | Black sandy silt | 6'-8' 3.0 ppm |
| 5' to 6' | Orange clayey silt | |
| 6' to 7' | White clayey silt | |
| 7' to 8' | Orange clayey silt BORING TERMINATED | |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location:

Parcel 2

Logged by: Matthew Zenker

SB-4

Boring No.

Date Started:

10/30/2001 10/30/2001

Date Completed: Depth to Water:

Page:

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with Geoprobe

Boring backfilled upon cor

| From | | To | Soil Description | OVA Screening |
|------|--------------------|----|--|----------------------|
| 0 | to | 1' | Brown gravelly silt | |
| 1' | | 3' | The state of the s | 0-2' 3.0 ppm |
| 1 | to | _3 | Black sandy silt | 2'-4' 3.0 ppm |
| 3' | to | 4' | Orange, hard silty clay | 4'-6' 2.8 ppm |
| | | | orange, nad six, etay | 6'-8' 2.7 ppm |
| 4' | to | 5' | Greyish black gravelly, sandy silt | |
| 5' | to | 6' | Orange, hard silty clay | |
| 6' | to | 8' | Orange, silty, sandy clay BORING TERMINATED | |
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| | | | | Background = 1.0 ppm |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location:

Parcel 2

Logged by: Matthew Zenker

SB-5

Boring No. Date Started:

Date Completed:

10/30/2001 10/30/2001

1

Depth to Water:

Page:

1

of

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with Geoprobe

| From To | | OVA Screening |
|-------------|--|----------------------|
| 0 to 2' | Black gravelly, sandy silt | |
| | | 0-2' 3.0 ppm' |
| 2' to 3' | Black sandy silt | 2'-4' 2.4 ppm |
| 3' to 4' | | 4'-6' 2.5 ppm |
| 3' to 4' | Orange silty clay | 6'-8' 2.4 ppm |
| 4' to 6' | Orange silty clay with sandy gravel seam | |
| 6' to 8' | Brownish orange silty clay BORING TERMINATED | |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 2

Logged by: Matthew Zenker

Boring No.

SB-6

Date Started:

10/30/2001

Date Completed:

10/30/2001

Depth to Water:

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of 1

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with Geoprobe

| From | To | Soil Description | OVA Screening |
|---------------|--------|--------------------------------------|----------------------|
| 0 | to 3' | Brownish green gravelly sandy silt | |
| <u></u> | | | 0-2' 1.0 ppm |
| 3' | to 4' | Hard, orange silty clay | 2'-4' 1.0 ppm |
| | | | 4'-6' 1.4 ppm |
| 4' | to 12' | Orange clayey silt BORING TERMINATED | 6'-8' 1.3 ppm |
| | | | 8'-10' 1.2 ppm |
| | | | 10'-12' 1.8 ppm |
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Norfolk Southern Railroad

Solutions' Project Number:

0920,01A3.NCDOT

Location: Parcel 2

Logged by: Matthew Zenker

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Boring No.

SB-7

Date Started:

10/30/2001

Date Completed:

10/30/2001

1

Depth to Water:

Page:

of

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with Geoprobe

| From | <u>To</u> | Soil Description | OVA Screening |
|---------------------------------------|---------------------------------------|--------------------------------------|----------------------|
| 0 | to 3' | Brownish green gravelly sandy silt | |
| | · · · · · · · · · · · · · · · · · · · | | 0-2' 1.8 ppm |
| 3' | to 4' | Hard, orange silty clay | 2'-4' 2.2 ppm |
| 4' | to 8' | | 4'-6' 2.1 ppm |
| 4 | to 8' | Orange clayey silt BORING TERMINATED | 6'-8' 1.8 ppm |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 4

Logged by: Matthew Zenker

1

Boring No.

SB-8

Date Started: Date Completed: 10/31/2001

10/31/2001

1

Depth to Water:

Page:

of

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with hand auger

| From | To | Soil Description | OVA Screening |
|--------------|---------------|--|----------------------|
| 0 to | 1' | Orange clayey silt BORING TERMINATED UPON HAND AUGER REFUSAL | OVA Screening |
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| | | | 0-1' 1.2 ppm |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 4

Logged by: Brian Rebar

Boring No.

SB-9

Date Started:

10/31/2001 10/31/2001

1

Date Completed: Depth to Water:

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NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with hand auger

| From | To | Soil Description | OVA Screening |
|-------------|----|--|----------------------|
| 0 to | 1' | Brownish orange sandy silt BORING TERMINATED UPON HAND AUGER R | REFUSAL |
| | | | 0-1' 1.2 ppm |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location:

Parcel 4

Logged by: Brian Rebar

SB-10

Boring No.

10/31/2001

Date Started:
Date Completed:

10/31/2001

Depth to Water:

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NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with hand auger

| From | To | Soil Description | OVA Screening |
|-------------------------------------|------|--------------------------------------|----------------------|
| 0 t | 0 2' | Brown clayey silt | |
| | | | 0-1' 1.5 ppm |
| 2' t | 0 7' | Orange clayey silt BORING TERMINATED | 1'-2' 1.4 ppm |
| | | | 2'-3' 1.6 ppm |
| - : | | | 3'-4' 1.6 ppm |
| · | | | 4'-5' 1.6 ppm |
| | | | 5'-6' 1.3 ppm |
| | | | 6'-7' 1.4 ppm |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location:

Parcel 4

Logged by: Brian Rebar

Boring No.

SB-11

Date Started:

10/31/2001

Date Completed:

10/31/2001

Depth to Water:

Page:

of

1

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with hand auger Boring backfilled upon completion

| From | | To | Soil Description | OVA | 0 . |
|-------------|----|---------------|--|-------------|--------------------|
| 0 | to | .3' | Brown sandy silt | UVA | Screening |
| | | | | 0-1' | 1.7 ppm |
| .3' | to | 4' | Orangish brown silty clay | 1'-2' | 1.7 ppm 1.3 ppm |
| 4' | | + | | 2'-3' | 1.5 ppm |
| 4 | to | 7' | Orangish brown silty clay with tan streaks BORING TERMINATED | 3'-4' | 1.3 ppm |
| | _ | | | 4'-5' | 1.2 ppm |
| | | | | 5'-6' | 1.2 ppm |
| | | | | 6'-7' | 1.3 ppm |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 4

Logged by: Matthew Zenker

Boring No.

SB-12

Date Started:

10/31/2001 10/31/2001

1

Date Completed:

Depth to Water:

Page:

of

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with hand auger

| From 0 to | To 7' | Soil Description | OVA Screening |
|-------------|--------------|-------------------------------------|----------------------|
| 0 to | , / | Orange silty clay BORING TERMINATED | |
| | | | 0-1' 2.0 ррп |
| | | | 1'-2' 1.5 ppm |
| | | | 2'-3' 1.9 ppm |
| | | | 3'-4' 1.7 ppm |
| | | | 4'-5' 2.0 ppm |
| | | | 5'-6' 2.0 ppm |
| | | | 6'-7' 2.0 ppm |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 4

Logged by: Matthew Zenker

Boring No.

SB-13

Date Started: Date Completed:

10/31/2001 10/31/2001

1

Depth to Water:

Page:

of

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with hand auger

| From To | | Coll December 4 | |
|---------|--|------------------|----------------------|
| 0 to 7' | Orange silty clay DODDAY | Soil Description | OVA Screening |
| | Orange silty clay BORING | J TERMINATED | |
| | | | 0-1' 1.3 ppn |
| | | | 1'-2' 2.0 ppm |
| | | | 2'-3' 1.5 ppm |
| | | | 3'-4' 0.8 ppm |
| | | | 4'-5' 1.4 ppm |
| | | | 5'-6' 1.5 ppm |
| | | | 6'-7' 1.8 ppm |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 5

Logged by: Matthew Zenker

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Boring No.

SB-14

Date Started:

10/31/2001

Date Completed:

10/31/2001

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Depth to Water:

Page:

of

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with hand auger

| From To | Soil Description | OVA G |
|---------|---|----------------------|
| 0 to 1' | Orange gravelly clayey silt BORING TERMINATED UPON HAND AUGER REF | OVA Screening |
| | OT OTT THE TO MODER REP | |
| | | 0-1' 1.8 ppn |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 5

Logged by: Matthew Zenker

1

Boring No.

SB-15

Date Started:

10/31/2001

1

Date Completed:

10/31/2001

Depth to Water:

Page:

of

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with Geoprobe

| From | | To | Soil Description | OVAS |
|------|----|----------------|--|----------------------|
| 0 | to | 2' | Brown gravelly silt | OVA Screening |
| 2' | to | 5' | Greyish black sandy silt | 0-2' 2.0 ppm |
| | | - + | Greyish black salidy still | 2'-4' 2.1 ppm |
| 5' | to | 8' | Brownish orange silty clay BORING TERMINATED | 4'-6' 20 ppm |
| | | | one ge siny clay - BORING TERMINA (ED | 6'-8' 36 ppm* |
| | | | | with methane filter |
| | | -+ | | 4'-6' 5.6 ppm |
| | | | | 6'-8' 11 ppm |
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| | | | | Background = 1.0 ppm |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 5

Logged by: Matthew Zenker

1

Boring No.

SB-16

Date Started: Date Completed:

10/31/2001

10/31/2001

1

Depth to Water:

Page:

of

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with Geoprobe

| From | To | Soil Description | OVA Screening |
|-------------|-----|---|--------------------------------|
| 0 to | 3' | Black gravelly, clayey silt | OVA Screening |
| | | | 0-2' 2.5 ppm |
| 3' to | 4' | Greenish orange clay | |
| | | | 2'-4' 3.6 ppm 4'-6' 1.7 ppm |
| 4' to | 8, | Orange sandy, clayey silt BORING TERMINATED | 6'-8' 2.5 ppm |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 5

Logged by: Matthew Zenker

1

Boring No.

SB-17

Date Started:

10/31/2001

10/31/2001

Date Completed: Depth to Water:

Page:

of

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with Geoprobe

| From | To | Soil Description | OVA S |
|-------|----|---|----------------------|
| 0 to | 2' | Brownish grey gravelly, sandy silt | OVA Screening |
| | | | 0.01 |
| 2' to | 6' | Orange clayey silt | 0-2' 1.5 ppn |
| | | | 2'-4' 2.0 ppn |
| 6' to | 8' | Greenish orange clayey silt BORING TERMINATED | 4'-6' 1.9 ppn |
| | | | 6'-8' 1.5 ppm |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 5

Logged by: Matthew Zenker

1

Boring No.

SB-18

Date Started: Date Completed:

10/31/2001 10/31/2001

1

Depth to Water:

Page:

of

of

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with Geoprobe

| From | | To | Soil Description | OVAG |
|----------|----------------|---------------|--------------------------------------|----------------------|
| 0 | to | 2' | Silty gravel | OVA Screening |
| | | | | 0-2' 1.4 ppn |
| 2' | to | 3' | Orange clayey silt | 2'-4' 1.9 ppn |
| 3' | to | 4' | 0 | 4'-6' 2.4 ppn |
| <u>_</u> | - | | Orange silty clay | 6'-8' 2.0 ppm |
| 4' | to | 8' | Orange clayey silt BORING TERMINATED | |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 7

Logged by: Matthew Zenker

Boring No.

SB-19

Date Started:

10/31/2001

Date Completed:

10/31/2001

Depth to Water:

Page:

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of 1

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with hand auger

| From 0 t | To | Soil Description | OVA Screening |
|-------------|------|---|----------------------|
| t | o 1' | Brown clayey silt | OVAStreening |
| 1' t | D 2' | Occupation in | 1'-2' 1.6 ppm |
| | | Orange clayey silt | 2'-3' 1.1 ppm |
| 2' t | 3' | Brown, gravelly clayey silt | 3'-4' 1.0 ppm |
| | | blown, graveny chayey shi | 4'-5' 1.1 ppm |
| 3' to | 4' | Brown clayey silt | 5'-6' 1.2 ppm |
| 4' to | 5' | Orange silty clay | |
| 5' to | 6' | Orange silty, clayey sand BORING TERMINATED | |
| | | E 9,, y tails BORING TERMINATED | |
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| | | | Background = 1.0 ppn |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 7

Logged by: Brian Rebar

SB-20

Boring No. Date Started:

11/1/2001

Date Completed:

11/1/2001

Depth to Water:

Page:

1

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with Geoprobe

| From | To | Soil Description | OVAS |
|-------------|--|---|----------------------|
| 0 to | 2' | Concrete stone mix | OVA Screening |
| | | | 0.22 |
| 2' to | 3' | Black silty sand (asphalt appearance) | 0-2' 1.2 ppm |
| | | | 2'-4' 1.9 ppm |
| 3' to | 6' | Light brown silty clay | 4'-6' 2.0 ppm |
| | | | 6'-8' 1.9 ppm' |
| 6' to | 8' | Dark brown silty clay BORING TERMINATED | |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 7

Logged by: Matthew Zenker

Boring No.

SB-21

Date Started:

11/1/2001 11/1/2001

Date Completed: Depth to Water:

Page:

1

of 1

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with Geoprobe

| From | | | or 1 Boring backfilled upon completion | |
|-------------|----|----------------|---|----------------------|
| 0 | to | | Soil Description Brown silt | OVA Screening |
| | | | DIOWII SIII | |
| 1' | to | 2' | Orange, hard clayey silt | 0-2' 2.5 ppm |
| | | | 7-7-5-6 | 2'-4' 1.9 ppm |
| 2' | to | 3' | Tan clayey silt | 4'-6' 2.2 ppm |
| | | | | 6'-8' 3.0 ppm |
| 3, | to | _4' | Orange, hard silty clay | |
| 4' | to | 6' | Brownish orange silty clay | |
| | | | | |
| 6' | to | 7.5' | Orangish white sandy silt | |
| 7.5' | to | 8' | Greenish orange hard silty clay BORING TERMINATED | |
| | | | 5 BOKING TERMINATED | |
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| | | | | Background = 1.0 ppm |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 7

Logged by: Matthew Zenker

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Boring No.

SB-22

Date Started:

11/1/2001 11/1/2001

Date Completed: Depth to Water:

Page:

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of 1

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with Geoprobe

| From T | SVII DESCRIBLIOR | OVAC | |
|----------|-------------------------------------|----------------------|--|
| 0 to 2 | Gravel | OVA Screening | |
| 2' to 4 | Organic city of | 0-2' 2.6 ppr | |
| | Orange silty clay | 2'-4' 3.0 ppn | |
| 4' to 6' | Orange sandy silty clay | 4'-6' 3.0 ppn | |
| | | 6'-8' 5.0 ppn | |
| 6' to 8' | Orange silty clay BORING TERMINATED | | |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 7

Logged by: Matthew Zenker

Boring No.

SB-23

Date Started:

11/1/2001

Date Completed:

11/1/2001

Depth to Water:

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with Geoprobe

| | | | of 1 Boring backfilled upon completion | |
|------|----|--------------|--|----------------------|
| From | | <u>To</u> | Soil Description | OVA Screening |
| 0 | to | 3' | Gravel | |
| | | | | 0-2' 2.5 ppm |
| 3' | to | 4.5' | Orange silty clay | 2'-4' 2.3 ppm |
| | | | | 4'-6' 3.8 ppm |
| 4.5' | to | 6, | Orange silty clay with some gravel | 6'-8' 2.5 ppm |
| 6' | •• | 7' | 0 " | |
| | to | | Orange silty clay | |
| 7' | to | 8, | Grey gravelly silt BORING TERMINATED | |
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| | | | | Background = 1.0 ppm |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 7

Logged by: Matthew Zenker

Boring No.

SB-24

Date Started:

11/1/2001 11/1/2001

1

Date Completed:

Depth to Water:

Page:

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with Geoprobe

| From | | To | Soil Description | OVA | Screening |
|----------|----|------|-------------------------------------|----------|---------------|
| 0 | to | 2' | Dark brown silty gravel | | |
| 2' | | + | | 0-2' | 2.7 ppm |
| <u>Z</u> | to | 2.5' | White silty gravel | 2'-4' | 2.4 ppm |
| 2.5' | to | 3, | P | 4'-6' | 2.2 ppm |
| | 10 | 3 | Brown silty clay | 6'-8' | 2.8 ppm |
| 3, | to | 5' | Brownish orange silty clay | | |
| 5' | to | 6' | Silty gravel | | |
| 6' | to | 8' | Orange sandy clay BORING TERMINATED | | |
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| | | | | Backgrou | ınd = 1.0 ppn |
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Norfolk Southern Railroad

Solutions' Project Number:

0920.01A3.NCDOT

Location: Parcel 7

Logged by: Matthew Zenker

Boring No.

SB-25

Date Started:

11/1/2001 11/1/2001

Date Completed:

Depth to Water:

NCDOT Project Information

Project Name:

PSAs for 4.29 Acres along Norfolk Southern Railroad

Mecklenburg County, Charlotte, NC

State Project Number:

9.9081000 (P-3800)

Boring Location and Offset:

See site map.

Remarks:

Boring advanced with Geoprobe

| Page: | | 1 | of 1 Boring backfilled upon completion | |
|-------------|----|----------------|--|--------------------------------|
| From | | To | Soil Description | |
| 0 | to | 1' | Brown silty gravel | OVA Screening |
| 1' | | | | 0-2' 7.4 ppm* |
| | to | | Orange sandy, silty clay with tan streaks | |
| 2' | to | 3' | Pile | |
| | | | Silty gravel | 4'-6' 4.8 ppm 6'-8' 5.8 ppm |
| 3' | to | 4' | Orange silty clay | 3.0 ррш |
| | |] | | |
| 4' | to | 6' | Orange silty clay with some gravel | |
| 6' | | | | |
| - 6' | to | 8, | Orange, hard silty clay with tan streaks BORING TERMINATED | |
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| | | | | Background = 1.0 ppm |
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APPENDIX C LABORATORY ANALYTICAL REPORTS

Lab Report



Full Service Analytical & Environmental Solutions

11/8/01

Page 1 of 10

Solutions - IES Attn: Walt Beckwith Customer Project ID: NSRR
Customer Sample ID: SB-5-0-2

Attn: Walt Beckwith 3722 Benson Dr.

Prism Sample ID: AC24984

Raleigh, NC 27609

Login Group: AON8H5

Sample Collection Date/Time: 10/31/01

14:25

Lab Submittal Date/Time: 11/1/01 12:48

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

| TEST PARAMETER | TEST RESULT | UNITS | REPORTING LIMIT | METHOD REFERENCE | DATE/TIME STARTED | ANALYST |
|---------------------------------|----------------|-----------|--------------------|---------------------|----------------------|---------|
| TPH - DIESEL RANGE | 45 | mg/kg | 10 | 8015MOD/3550 | 11/5/01 22:26 | GRR |
| TPH-GASOLINE RANGE / PREP. 5030 | Less than | mg/kg | 1.0 | 8015MOD/5030 | 11/5/01 14:12 | KC |
| CALCULATIONS BASED ON DRY WT. | 95 | % DRY WT. | 0.01 | SM 2540 G | 11/2/01 18:15 | GRR |
| PREP. METHOD 3550 | Completed | | | SW846-3550 | 11/2/01 20:00 | JLW |

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

Lab Report



Full Service Analytical & Environmental Solutions

11/8/01

Page 2 of 10

Solutions - IES

Customer Project ID: NSRR Customer Sample ID: SB-15-6-8

Attn: Walt Beckwith 3722 Benson Dr.

Raleigh, NC 27609

Prism Sample ID: AC24985 Login Group: AON8H5

Sample Collection Date/Time: 10/31/01

14:30

12:48 Lab Submittal Date/Time: 11/1/01

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

| TEST PARAMETER | TEST RESULT | UNITS | REPORTING LIMIT | METHOD REFERENCE | DATE/TIME STARTED | ANALYST |
|---------------------------------|----------------|-----------|--------------------|---------------------|----------------------|---------|
| TPH - DIESEL RANGE | Less than | mg/kg | 10 | 8015MOD/3550 | 11/5/01 11:37 | GRR |
| TPH-GASOLINE RANGE / PREP. 5030 | Less than | mg/kg | 1.0 | 8015MOD/5030 | 11/5/01 16:49 | KC · |
| CALCULATIONS BASED ON DRY WT. | 84 | % DRY WT. | 0.01 | SM 2540 G | 11/2/01 18:15 | GRR |
| PREP. METHOD 3550 | Completed | | | SW846-3550 | 11/2/01 20:00 | JLW |
| • | | | | | | |

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services



Full Service Analytical & Environmental Solutions

11/8/01

Solutions - IES

Attn: Walt Beckwith

3722 Benson Dr.

Raleigh, NC 27609

Page 3 of 10

Customer Project ID: NSRR

Customer Sample ID: SB-13-1-2

Prism Sample ID: AC24986

Login Group: AON8H5

Sample Collection Date/Time: 10/31/01

Lab Submittal Date/Time: 11/1/01

17:10 12:48

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

| TEST PARAMETER | TEST RESULT | UNITS | REPORTING LIMIT | METHOD REFERENCE | DATE/TIME STARTED | ANALYST |
|---------------------------------|----------------|-----------|--------------------|---------------------|----------------------|---------|
| TPH - DIESEL RANGE | Less than | mg/kg | 10 | 8015MOD/3550 | 11/5/01 12:20 | GRR |
| TPH-GASOLINE RANGE / PREP. 5030 | Less than | mg/kg | 1.0 | 8015MOD/5030 | 11/5/01 17:25 | KC |
| CALCULATIONS BASED ON DRY WT. | 84 | % DRY WT. | 0.01 | SM 2540 G | 11/2/01 18:15 | GRR |
| PREP. METHOD 3550 | Completed | | | SW846-3550 | 11/2/01 20:00 | JLW |
| | | | | | | |

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services



Full Service Analytical & Environmental Solutions

11/8/01

Page 4 of 10

Solutions - IES

Customer Project ID: NSRR

Attn: Walt Beckwith

Customer Sample ID: SB-20-6-8

3722 Benson Dr.

Prism Sample ID: AC24987

Raleigh, NC 27609

Login Group: AON8H5

11:40

Sample Collection Date/Time: 11/1/01

Lab Submittal Date/Time: 11/1/01

12:48

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

| | | | | | MA | |
|---------------------------------|----------------|-----------|--------------------|---------------------|----------------------|---------|
| TEST PARAMETER | TEST RESULT | UNITS | REPORTING LIMIT | METHOD REFERENCE | DATE/TIME STARTED | ANALYST |
| TPH - DIESEL RANGE | 26 | mg/kg | 10 | 8015MOD/3550 | 11/5/01 20:59 | GRR |
| TPH-GASOLINE RANGE / PREP. 5030 | Less than | mg/kg | 1.0 | 8015MOD/5030 | 11/5/01 18:02 | KC |
| CALCULATIONS BASED ON DRY WT. | 76 | % DRY WT. | 0.01 | SM 2540 G | 11/2/01 18:15 | GRR |
| PREP. METHOD 3550 | Completed | | | SW846-3550 | 11/2/01 20:00 | JLW |
| | | | e e | | | |

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services



Full Service Analytical & Environmental Solutions

11/8/01

Solutions - IES Attn: Walt Beckwith

3722 Benson Dr.

Raleigh, NC 27609

Page 5 of 10

Customer Project ID: NSRR

Customer Sample ID: SB-25-0-2

Prism Sample ID: AC24988

Login Group: AON8H5

Sample Collection Date/Time: 11/1/01 11:50

Lab Submittal Date/Time: 11/1/01 12:48

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

| TEST PARAMETER | TEST RESULT | UNITS | REPORTING LIMIT | METHOD REFERENCE | DATE/TIME STARTED | ANALYST |
|---------------------------------|----------------|-------|--------------------|---------------------|----------------------|---------|
| TPH - DIESEL RANGE | 67 | mg/kg | 10 | 8015MOD/3550 | 11/5/01 20:16 | GRR |
| TPH-GASOLINE RANGE / PREP. 5030 | Less than | mg/kg | 1.0 | 8015MOD/5030 | 11/6/01 13:32 | KC |
| BENZENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| BROMOBENZENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| BROMOCHLOROMETHANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| BROMODICHLOROMETHANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| BROMOFORM | 33 | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| BROMOMETHANE | Not detected | ug/kg | 12.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| N-BUTYLBENZENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| SEC-BUTYLBENZENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| TERT-BUTYLBENZENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| CARBON TETRACHLORIDE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| CHLOROBENZENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| CHLORODIBROMOMETHANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| CHLOROETHANE | Not detected | ug/kg | 12.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| CHLOROFORM | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| CHLOROMETHANE | Not detected | ug/kg | 12.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 2-CHLOROTOLUENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 4-CHLOROTOLUENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,2-DIBROMO-3-CHLOROPROPANE | Not detected | ug/kg | 12.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,2-DIBROMOETHANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| DIBROMOMETHANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,2-DICHLOROBENZENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,3-DICHLOROBENZENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,4-DICHLOROBENZENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| DICHLORODIFLUOROMETHANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,1-DICHLOROETHANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,2-DICHLOROETHANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,1-DICHLOROETHENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| CIS-1,2-DICHLOROETHENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519



Full Service Analytical & Environmental Solutions

11/8/01

Solutions - IES Attn: Walt Beckwith 3722 Benson Dr.

Raleigh, NC 27609

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Customer Project ID: NSRR

Customer Sample ID: SB-25-0-2

Prism Sample ID: AC24988

Login Group: AON8H5

Sample Collection Date/Time: 11/1/01 11:50

Lab Submittal Date/Time: 11/1/01 12:48

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

| TEST PARAMETER | TEST RESULT | UNITS | REPORTING LIMIT | METHOD REFERENCE | DATE/TIME STARTED | ANALYST |
|---------------------------|----------------|-------|--------------------|---------------------|----------------------|---------|
| TRANS-1,2-DICHLOROETHENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,2-DICHLOROPROPANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,3-DICHLOROPROPANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 2,2-DICHLOROPROPANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,1-DICHLOROPROPENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| ETHYLBENZENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| HEXACHLOROBUTADIENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| ISOPROPYLBENZENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| P-ISOPROPYLTOLUENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| METHYLENE CHLORIDE | Not detected | ug/kg | 120.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| NAPHTHALENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| N-PROPYLBENZENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| STYRENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,1,1,2-TETRACHLOROETHANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1.1.2.2-TETRACHLOROETHANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| TETRACHLOROETHENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| TOLUENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,2,3-TRICHLOROBENZENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,2,4-TRICHLOROBENZENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,1,1-TRICHLOROETHANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,1,2-TRICHLOROETHANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| TRICHLOROETHENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| TRICHLOROFLUOROMETHANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,2,3-TRICHLOROPROPANE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,2,4-TRIMETHYLBENZENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 1,3,5-TRIMETHYLBENZENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| VINYL CHLORIDE | Not detected | ug/kg | 12.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| TOTAL XYLENES | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 2-BUTANONE (MEK) | Not detected | ug/kg | 60.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 2-CHLOROETHYL VINYL ETHER | Not detected | ug/kg | 12.0 | 8260B/5035 | 11/7/01 16:06 | MP |

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519



Full Service Analytical & Environmental Solutions

11/8/01

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Solutions - IES Attn: Walt Beckwith

Customer Project ID: NSRR Customer Sample ID: SB-25-0-2

3722 Benson Dr.

Prism Sample ID: AC24988

Raleigh, NC 27609

Login Group: AON8H5

Sample Collection Date/Time: 11/1/01

11:50

Lab Submittal Date/Time: 11/1/01 12:48

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

| TEST PARAMETER | TEST RESULT | UNITS | REPORTING LIMIT | METHOD REFERENCE | DATE/TIME STARTED | ANALYST |
|-------------------------------|----------------|-----------|--------------------|---------------------|----------------------|---------|
| 4-METHYL-2-PENTANONE (MIBK) | Not detected | ug/kg | 60.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| ACETONE | Not detected | ug/kg | 120.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| CARBON DISULFIDE | Not detected | ug/kg | 120.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| VINYL ACETATE | Not detected | ug/kg | 60.0 | 82608/5035 | 11/7/01 16:06 | MP |
| CIS-1,3-DICHLOROPROPENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| TRANS-1,3-DICHLOROPROPENE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| 2-HEXANONE | Not detected | ug/kg | 60.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| IPE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| MTBE | Not detected | ug/kg | 6.0 | 8260B/5035 | 11/7/01 16:06 | MP |
| SURR:DIBROMOFLUOROMETHANE | 94 | % | 80-120 | 8260B/5035 | 11/7/01 16:06 | MP |
| SURR:TOLUENE-D8 | 103 | % | 81-117 | 8260B/5035 | 11/7/01 16:06 | MP |
| SURR:BROMOFLUOROBENZENE | 118 | % | 74-121 | 8260B/5035 | 11/7/01 16:06 | MP |
| | | | | | | |
| CALCULATIONS BASED ON DRY WT. | 78 | % DRY WT. | 0.01 | SM 2540 G | 11/2/01 18:15 | GRR |
| PREP. METHOD 3550 | Completed | | | SW846-3550 | 11/2/01 20:00 | JLW |
| PREP. METHOD 3550 | Completed | | | SW846-3550B | 11/6/01 09:00 | JMV |
| ACENAPHTHENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| ACENAPHTHYLENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| ANTHRACENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| BENZO(A)ANTHRACENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| BENZO(B)FLUORANTHENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| BENZO(K)FLUORANTHENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| BENZO(A)PYRENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| BENZO(GHI)PERYLENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| BIS(2-CHLOROETHOXY)METHANE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| BIS(2-CHLOROETHYL)ETHER | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| BIS(2-CHLOROISOPROPYL)ETHER | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| BIS(2-ETHYLHEXYL)PHTHALATE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 4-BROMOPHENYL PHENYL ETHER | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| BUTYL BENZYL PHTHALATE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519



Full Service Analytical & Environmental Solutions

11/8/01

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Solutions - IES

Customer Project ID: NSRR
Customer Sample ID: SB-25-0-2

Attn: Walt Beckwith 3722 Benson Dr.

Prism Sample ID: AC24988

Raleigh, NC 27609

Login Group: AON8H5
Sample Collection Date/Time: 11/1/01 11:50

Lab Submittal Date/Time: 11/1/01 12:48

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

| TEST PARAMETER | TEST RESULT | | EPORTING | METHOD REFERENCE | DATE/TIME STARTED | ANALYST |
|-----------------------------|----------------|-------|----------|---------------------|----------------------|---------|
| 4-CHLORO-3-METHYLPHENOL | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 2-CHLORONAPHTHALENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 2-CHLOROPHENOL | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 4-CHLOROPHENYL PHENYL ETHER | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| CHRYSENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| DIBENZO(A,H)ANTHRACENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| DIBENZOFURAN | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| DI-N-BUTYLPHTHALATE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 1,2-DICHLOROBENZENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 1,3-DICHLOROBENZENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 1,4-DICHLOROBENZENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 2,4-DICHLOROPHENOL | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| DIETHYL PHTHALATE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 2,4-DIMETHYLPHENOL | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| DIMETHYL PHTHALATE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 2,4-DINITROPHENOL | Not detected | ug/kg | 11000 | SW846-8270C | 11/8/01 00:08 | HWC |
| 2,4-DINITROTOLUENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 2,6-DINITROTOLUENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| DI-N-OCTYLPHTHALATE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| FLUORANTHENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| FLUORENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| HEXACHLOROBENZENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| HEXACHLOROBUTADIENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| HEXACHLOROCYCLOPENTADIENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| HEXACHLOROETHANE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| INDENO(1,2,3-CD)PYRENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| ISOPHORONE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 2-METHYL-4,6-DINITROPHENOL | Not detected | ug/kg | 11000 | SW846-8270C | 11/8/01 00:08 | HWC |
| 2-METHYL NAPHTHALENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 2-METHYL-PHENOL | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |



Full Service Analytical & Environmental Solutions

11/8/01

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Solutions - IES Attn: Walt Beckwith 3722 Benson Dr.

Customer Project ID: NSRR Customer Sample ID: SB-25-0-2 Prism Sample ID: AC24988

Login Group: AON8H5

Sample Collection Date/Time: 11/1/01

11:50

Raleigh, NC 27609

Lab Submittal Date/Time: 11/1/01 12:48

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

| TEST PARAMETER | TEST RESULT | UNITS | REPORTING LIMIT | METHOD REFERENCE | DATE/TIME STARTED | ANALYST |
|---------------------------|----------------|-------|--------------------|---------------------|----------------------|---------|
| 4-METHYL-PHENOL | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | нwс |
| NAPHTHALENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| NITROBENZENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 2-NITROPHENOL | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 4-NITROPHENOL | Not detected | ug/kg | 11000 | SW846-8270C | 11/8/01 00:08 | HWC |
| N-NITROSODIPHENYLAMINE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| N-NITROSODI-N-PROPYLAMINE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| PENTACHLOROPHENOL | Not detected | ug/kg | 11000 | SW846-8270C | 11/8/01 00:08 | HWC |
| FHENANTHRENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| PHENOL | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| FYRENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 1,2,4-TRICHLOROBENZENE | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 2,4,5-TRICHLOROPHENOL | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |
| 2,4,6-TRICHLOROPHENOL | Not detected | ug/kg | 2200 | SW846-8270C | 11/8/01 00:08 | HWC |



Full Service Analytical & Environmental Solutions

11/8/01

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Solutions - IES

Customer Project ID: NSRR

Customer Sample ID: SB-25-0-2

Attn: Walt Beckwith Prism Sample ID: AC24988 3722 Benson Dr.

Raleigh, NC 27609

Login Group: AON8H5

11:50

Sample Collection Date/Time: 11/1/01

Lab Submittal Date/Time: 11/1/01

12:48

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

| and the state of t | | errore a comment of | | | | |
|--|--------|---------------------|-----------|-----------|-----------|---------|
| TEST | TEST | | REPORTING | METHOD | DATE/TIME | |
| PARAMETER | RESULT | UNITS | LIMIT | REFERENCE | STARTED | ANALYST |

Sample Comments:

Note for 8260: Bromoform detected in this sample. Bromoform was not detected in the daily blank or from the medium level soil vials. Low level soil vial contamination is suspected.

Analysis note for sw846/8270: MDLs for this sample were increased due to thick brown matrix. Sample was analyzed at a (1:5) dilution; therefore MDLs were increased by a factor of 5.

Angela D. Overcash, V.P. Laboratory Services



Full Service Analytical & Environmental Solutions

70 Caro organization Client Slotion - TE Client 2722 Physical Address Rate (2) Phone 27 875-108 P.O.#/Billing Reference

CHAIN OF CUST DY RECORD

PAGE

449 Springbrook Road - Charlotte, NC 28217 P.O. Box 240543 ▲ Charlotte, NC 28224-0543

Phone: 704/529-6364 Eax: 704/525-0409
REPORT TO: Name 1722 Frong Property Care 175000
Address Act DOT 9: 908: 000 (17.590)
BILL TO: Name EAST MAIL STONE CARE 17.5900
Address Address

Turnaround time is based on business days, excluding weekends and holidays. (SEE REVERSE SIDE FOR RUSH TURNAROUND FEES) Samples received after 15:00 will be processed the next business day. ☐ 6-9 Days ☐ Standard 10 days

Requested Due Date □1 Day □2 Days □3 Days □4 Days / 15 Days

Ž 9 VOLATILES rec'd W/OUT HEADSPACE? PROPER PRESERVATIVES indicated? Received WITHIN HOLDING TIMES? Samples INTACT upon arrival? | Received ON WET ICE? Temp PROPER CONTAINERS used? CUSTODY SEALS INTACT? 1 - Pro State Certification

2 SC Yes Water Chlorinated Requested FL

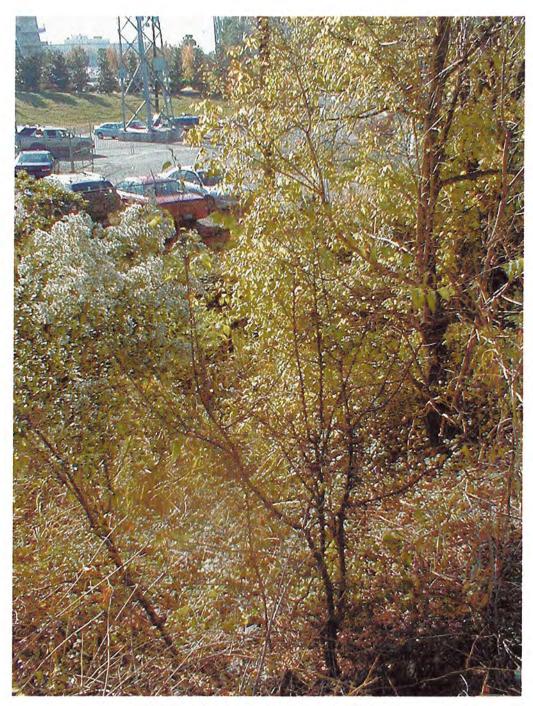
OTHER Sample Iced Upon Collection

PRESS DOWN FIRMLY - 3 COPIES

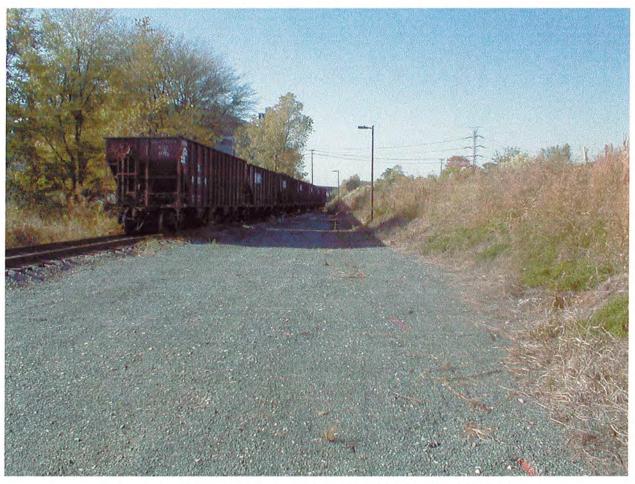
| _ | | | |
|--------------------|---------------------|---|--|
| PRISM | LAB ID NO. | 24.78H | ONLY |
| SUB | CERT. | | PRISM USE ONLY Site Arrival Time Site Departure Time Field Tech Fee: Mileage Mileage SEE REVERSE FO |
| | S) | | Site Arrival T Site Departur Field Tech F Mileage |
| | REMARKS | | Iments: |
| | | | Additional Comments: |
| STED | | | , <u>, , , , , , , , , , , , , , , , , , </u> |
| ANALYSES REQUESTED | | | Affiliation Military/Hours 7 1/ g 7 0 C OTHER: O OTHER: |
| ANALYS | 200 | 7 | Signature No. N.C. N.C. N.C. N.C. N.C. N.C. N.C. |
| ₹3/ | SE SE | | |
| _ | - 12 | X X X X X | CERCLA O NC O SC O OTHER |
| 4/1020 | rheserv TIVES | Traplane of Colored Colored | 1201 |
| | SIZE | | |
| SAMPLE CONTAINER | NO. | | i Name N |
| MPLE CC | | 7777 | d By: (Signature) |
| S | *TYPE SEE BELOW | | |
| MATRIX | WATER OR SLUDGE) | | Recei Recei |
| | - | \$ - 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | DRINKING D NC D SC D SC |
| TIME | MILITARY | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | WATER |
|) A TE | COLLECTED | <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> | Received By: |
| | _ | | deliver |
| IN: | SCRIPTIC | 7-0-7 | By: (Signature) |
| INEL C | SAMPLE DESCRIPTION | S 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 | Sampler's Signature Relinquished By: (Signature) Relinquished By |
| | Ø | - i \[| |

FINAL REPORT COPY

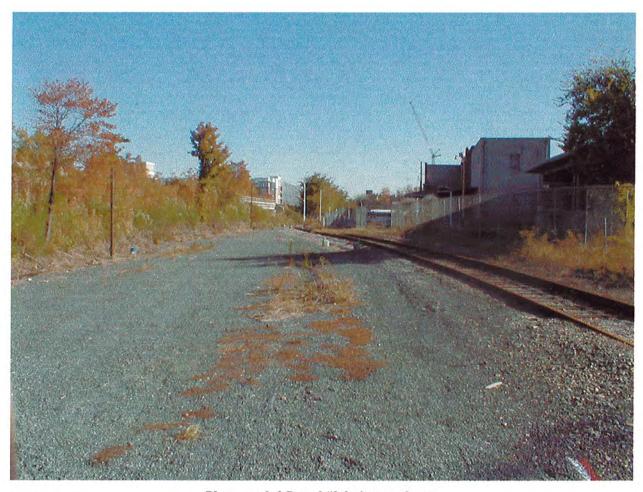
*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)



Photograph 1 Approximate location of SB-1



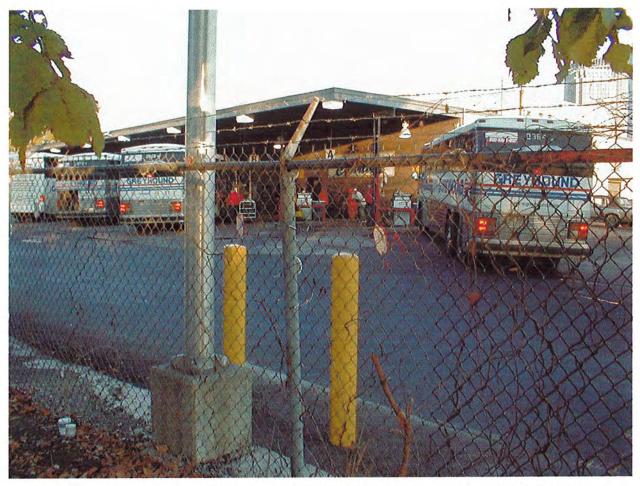
Photograph 2 Parcel #2 facing southwest. Active railroad lines are on right.



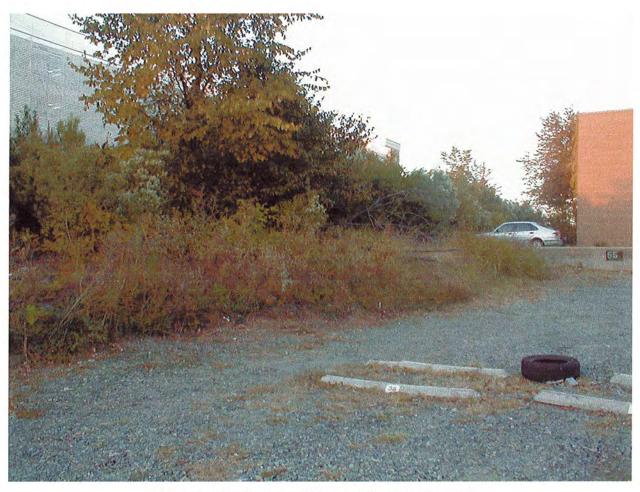
Photograph 3 Parcel #2 facing northeast.



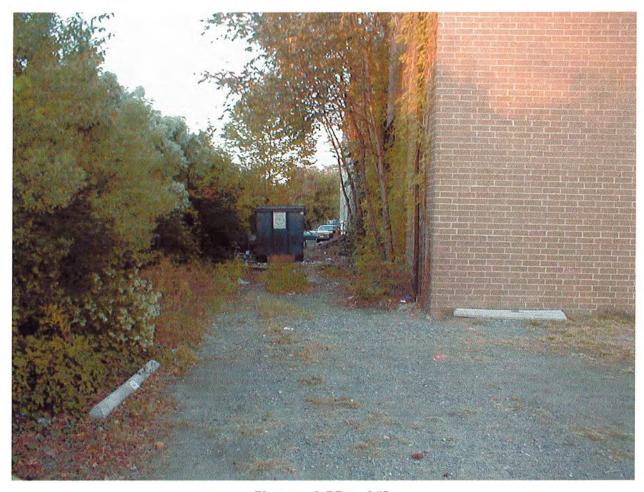
Photograph 4 Parcel #4 facing northeast. Bus station is visible to the right.



Photograph 5 Greyhound bus station viewed from Parcel #4. Diesel pumps are visible in background.



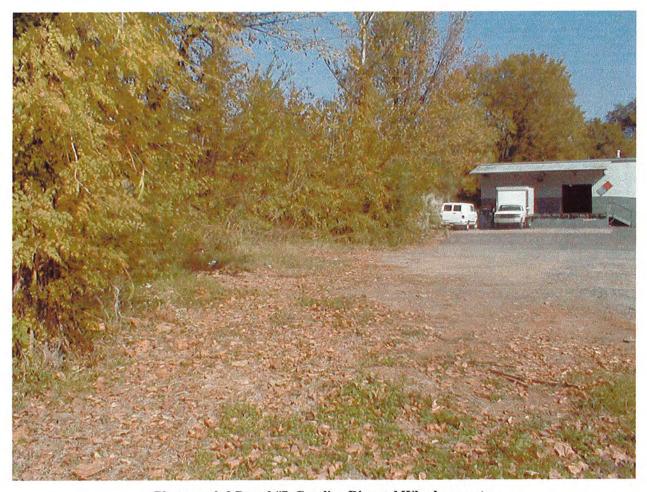
Photograph 6 Gravel parking lots adjacent to Parcel #5. Business Storage Inc. warehouse is visible in background.



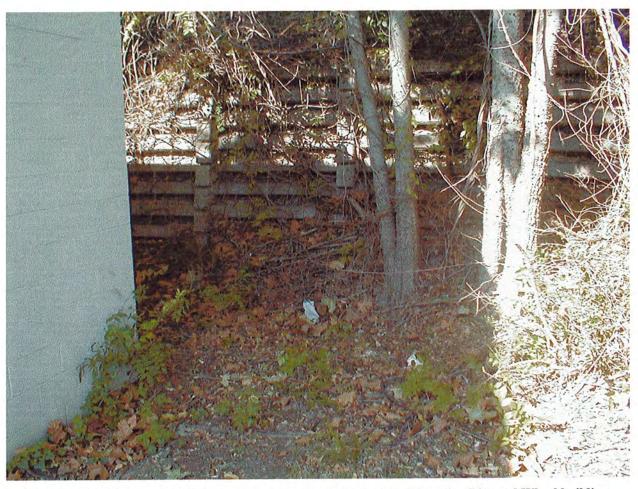
Photograph 7 Parcel #5.



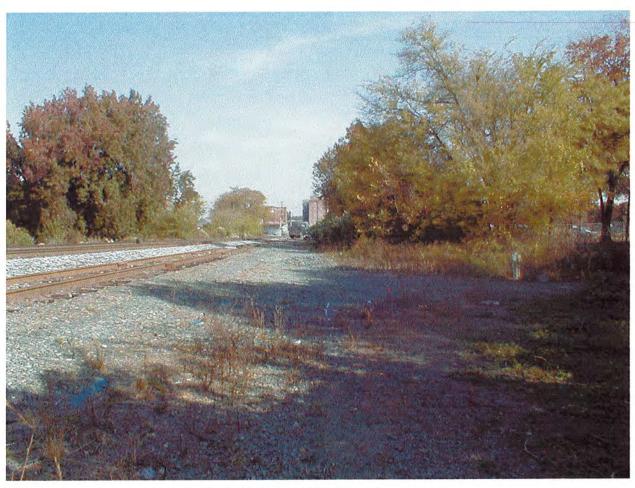
Photograph 8 Location of SB-19.



Photograph 9 Parcel #7, Carolina Rim and Wheel property.



Photograph 10 Location of SB-21, located on northeastern corner of Carolina Rim and Wheel building.



Photograph 11 Parcel #7, along railroad tracks.