Soil Investigation Report
Proposed NC DOT Right of Way
Parcel #8 to Parcel #11
Winston-Salem, Forsyth County, NC

H&H Job No. ROW-204
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Parcel #8 to Parcel #11
Winston-Salem, Forsyth County, North Carolina
H&H Project ROW-204

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1.0 Introduction and Background

Hart & Hickman, PC (H&H) has prepared this Soil Investigation Report documenting assessment activities in the proposed North Carolina Department of Transportation (NC DOT) right of way along US Highway 52 on Parcels 8, 9, 10 and 11 in Winston-Salem, Forsyth County, North Carolina. Parcels 8, 10, and 11 are located to the west of Highway 52 between North Liberty Street and North Glenn Avenue. Parcel 9 is located northwest of North Liberty Street to the east of Highway 52. A site location map is included as Figure 1. This assessment was conducted on behalf of NC DOT in general accordance with the scope of work outlined in our February 9, 2009 Technical and Cost Proposal, March 2, 2009 Soil Investigation Work Plan, and April 28, 2009 Supplemental Soil Investigation Work Plan and Project Update.

NC DOT is planning road improvements along US Highway 52 near the above-referenced parcels. Environmental Investigations, Inc. (EI) completed Preliminary Site Assessments (PSAs) dated October 19, 2005 on Parcels 8, 9, 10 and 11. Copies of the PSAs were previously provided to the North Carolina Department of Environment and Natural Resources (DENR) by NC DOT.

Impacted soils from historical site uses were identified in proposed NC DOT work areas on these properties during prior PSA activities. Proposed NC DOT work areas include portions of the two former fertilizer manufacturers (Virginia Carolina Chemical and Royster Clark) and a former metal ore processing facility (Carolina Ore). Such sites can cause contamination, particularly heavy metal contamination. The DOT work area also includes the active Waste Management property. The approximate locations of the former Virginia Carolina Chemical (VCC), Royster Clark, Carolina Ore and Waste Management properties are shown on Figure 2.

During previous PSA work, samples were analyzed for a number of constituents. Based on these results, the primary contaminants of concern in proposed NC DOT work areas are arsenic and

lead. During prior PSA activities, arsenic was detected in soil samples collected from the NC DOT target area in Parcels 8 through 11 above the default DENR - Inactive Hazardous Sites Branch (IHSB) residential health-based Soil Remedial Goal (SRG) of 4.4 mg/kg. Lead was detected in excess of the SRG in soil samples collected from Parcel 9. Petroleum impacted soils in excess of DENR action levels were also identified on Parcel 11; however, these petroleum impacts are outside of proposed NC DOT work areas.

Although some prior assessment data existed, there was little shallow soil metals data, and metals tend to impact shallow soils (typically between 0 and 5 ft or less). Therefore, H&H completed additional assessment of shallow soils on Parcels 8, 9, 10 and 11 in March and May 2009. H&H also collected samples from proposed NC DOT work areas on Parcel 11 that are at a suspected petroleum surface spill that was identified by H&H and where a petroleum surface release occurred in August 2006 that is near proposed drainage piping.

The NC DOT project will require soil (including metal impacted soil) to be removed from certain areas in the right of way and placed in others (cut and fill areas, respectively). Therefore, impacted soil that will be cut can potentially be beneficially used in fill areas. The proposed cut areas are located near the proposed Waste Management driveway and the proposed Southbound Detour Lane located near the former Royster Clark site on Parcel 10. In addition, soil will be cut from the location of a proposed bridge foundation wall. NC DOT is proposing to place soil (including impacted soil) in the road bed and road banks (fill areas) of the proposed Southbound Detour Lane, and the proposed northbound and southbound travel lanes.

Because the former VCC area is under the United States Environmental Protection Agency (EPA) jurisdiction, NC DOT is seeking EPA approval allowing metal impacted soil from surface grubbing and cut areas from the VCC area and non-VCC areas to be utilized as beneficial fill soil in proposed Southbound Detour Lane and the proposed northbound and southbound travel lanes within the former VCC property boundary. Additionally, NC DOT is also seeking DENR approval allowing metal impacted cut soil from non-VCC areas to be utilized as beneficial fill soil for the proposed Southbound Detour Lane and the proposed northbound and southbound travel lanes within both the VCC and non-VCC areas. Based on DENR's IHSB letter dated June

9, 2009, the VCC site will ultimately fall under DENR - IHSB jurisdiction; therefore, analytical data herein has been compared to both the EPA and DENR IHSB screening levels to satisfy both EPA and DENR IHSB guidelines. DENR's June 9, 2009 letter indicates that the health-based SRG for arsenic at this site is 22 mg/kg because arsenic is the only suspected carcinogenic compound present. NC DOT is requesting that EPA and DENR approve these actions based on the results of assessment activities described below. DENR's recent IHSB letter approves NC DOT's plans if certain conditions are met.

2.0 Soil Assessment - VCC and non-VCC Areas

2.1 Arsenic, Lead, and pH Data

Sample Collection

H&H mobilized to the subject site on March 23, March 24 and May 5, 2009 to collect soil samples at various locations in the VCC area and non-VCC areas within the proposed NC DOT right of way work areas. Soil samples were collected using a stainless steel hand auger or by direct push technology (DPT). H&H contracted Subsurface Environmental Investigations (SEI) to advance soil borings using DPT. No samples were collected by H&H outside of proposed NC DOT work areas.

Soil sample locations are depicted on Figures 3 through 11. Data summary tables are provided as Tables 1 though 6. Soil boring logs are included in Appendix A. Additional soil sampling was conducted by Arcadis in the VCC area in May 2009 as noted on select figures. The draft Arcadis data summary tables and figure are provided in Appendix C.

Soil samples were collected from VCC area and non-VCC areas within the proposed NC DOT right of way as follows:

Parcel 8

Soil borings 8-1 through 8-8, and 8-10 through 8-13 spaced approximately 100 ft apart were advanced in the proposed NC DOT work areas. Soil borings 8-1 through 8-7 were collected on the VCC area. Because the NC DOT work area on Parcel 8 is a proposed fill area, soil samples were collected from a depth of 0 ft to 0.5 ft due to the likelihood for surface grubbing prior to the filling work.

Bridge Foundation Wall

Soil borings BFW-1 through BFW-6 were advanced along the proposed bridge foundation wall within the VCC boundary located beneath the existing bridge along Highway 52 between the southern portions of Parcel 8 and Parcel 9. Because soils will be disturbed at a depth of

approximately 2 ft to 3 ft below existing grade during installation of the wall, soil samples were collected at 0.5 ft and 2 ft in borings BFW-1 through BFW-6.

Parcel 8 and Parcel 9 Proposed Piping Area

Soil borings 8-9 and 8-14 through 8-16 were advanced on Parcel 8 along the proposed drainage pipe and existing drainage pipe located on the west side of Highway 52 on Parcel 8. Soils will be disturbed near the surface at the inlet of the proposed piping; therefore, a soil sample was collected from 0 ft to 0.5 ft in boring 8-9. Because proposed piping will be installed just below existing grade, soil samples were collected from 1 ft and 3 ft in borings 8-14 and 8-15. Additionally, because soils will be disturbed up to a depth of approximately 7 ft below existing grade during removal of the existing piping closer to Highway 52, soil samples were collected at 2 ft and 7 ft in boring 8-16.

Soil borings 9-1 and 9-2 were advanced on Parcel 9 along the proposed drainage area that is located on the east side of Highway 52 in the vicinity of the former locations of VCC and Carolina Ore. Because proposed piping will be installed near and just below existing grade, soil samples were collected from 1 ft and 5 ft in borings 9-1 and 9-2.

Parcel 10

Soil borings 10-1 through 10-17 were advanced in the NC DOT target area on and near Parcel 10 located east of the former Royster Clark facility. Soil borings were spaced approximately 50 ft apart and staggered along the property line in the NC DOT target area. Borings 10-1 through 10-9 were advanced to the west of the Parcel 10 property line and borings 10-10 through 10-17 were advanced on the Waste Management property to the east of the Parcel 10 property line, all within the proposed DOT work area. Because this is a proposed cut area, soil samples were collected from 1 ft and 5 ft below ground surface from each boring. Boring 10-18 was advanced adjacent to the former Royster Clark industrial ponds. Soil samples were collected from a depth of 1ft and 8 ft in this boring.

Background Metals (Parcel 11)

To compare with other soil metal concentration data, five background soil borings, BGM-1 through BGM-5 were collected from Parcel 11 to evaluate the presence of naturally occurring arsenic and lead in the area. Soil samples were collected from 2 ft and 5 ft below ground surface from each boring.

Soil pH

Because low soil pH values (between 3 and 4) have been detected by others near the former VCC site, select soil samples from the proposed DOT work areas were analyzed for pH.

The soil pH was tested at the following locations:

- four of the soil samples from background locations,
- four soil samples on Parcel 8 near the proposed location of the metal drainage pipe,
- four soil samples on Parcel 9 near the proposed location of the metal drainage pipe,
- four shallow samples from Parcel 8 in the potential fill area,
- four shallow samples from the location of the proposed bridge foundation wall, and
- four shallow samples from Parcel 10.

Arcadis Soil Sampling

On behalf of Exxon Mobil, Arcadis completed additional soil sampling in the VCC area in May 2009. Arcadis collected soil samples at depths ranging from 0 ft to 0.5 ft, 0.5 ft to 2 ft and 2 ft to 4 ft from soil borings WS-SB-1 through WS-SB-24. Because the proposed NC DOT work area is located near the northern portion of the VCC boundary, only data from soil samples WS-SB-1, WS-SB-2, WS-SB-10, WS-SB-11, WS-SB-12, WS-SB-20, and WS-SB-21 collected in this area are discussed in this report. Additionally, because the VCC boundary is a proposed fill area and only surface soils will be disturbed during NC DOT work, only analytical data from the 0 ft to 0.5 ft interval from Arcadis soil borings are discussed in this report.

Soil Sample Handling Procedures

H&H soil samples were placed into laboratory supplied bottles upon collection, properly labeled, placed in a cooler with ice, and sent to Prism Laboratories (Prism), a North Carolina certified

laboratory located in Charlotte, North Carolina under standard chain-of-custody protocol for laboratory analysis. Soil samples from each parcel, including background samples, were analyzed for total arsenic and lead by EPA Method 6010B. Laboratory analytical data sheets for soil and ground water samples and chain-of-custody documentation for this site are provided in Appendix B.

H&H Analytical Results - VCC Area

Low concentrations of arsenic were detected in the VCC area ranging from 4.5 mg/kg to 9.5 mg/kg on Parcel 8 and from 5.6 mg/kg to 29 mg/kg at the proposed Bridge Foundation Wall. Site-specific background arsenic levels ranged from 0.92 mg/kg to 3.3 mg/kg in the 10 background samples collected. The detected target area arsenic concentrations are above the health-based SRG and background levels. The concentration of arsenic detected in soil sample BFW-5-2 (27 mg/kg) is slightly above the DENR IHSB POGSRG (26.2 mg/kg) and the IHSB health-based SRG of 22 mg/kg. The concentration of arsenic detected in soil sample BFW-5-0.5 (29 mg/kg) is slightly above the POGSRG, health-based SRG, and the EPA screening level for industrial site use (27 mg/kg). No other concentrations of arsenic were detected above screening levels in the VCC area.

Low concentrations of lead were detected in the VCC area ranging from 16 mg/kg to 310 mg/kg on Parcel 8 and from 40 mg/kg to 250 mg/kg at the proposed Bridge Foundation Wall. Site-specific background lead levels ranged from 9.3 mg/kg to 30 mg/kg in the 10 background samples. Although certain lead concentrations exceed background levels, no concentrations of lead are above the SRG (400 mg/kg) in the VCC area. Only the concentration of lead detected sample 8-3-0.5 (310 mg/kg) is above the default IHSB POGSRG (270 mg/kg). No other concentrations of lead were detected above the POGSRG. In addition, no concentrations of lead were detected above the EPA screening level for industrial site use (895 mg/kg).

The pH values in the VCC area ranged from 4.72 to 5.53 on Parcel 8 and from 7.13 to 7.85 at the proposed Bridge Foundation Wall. These pH values are similar to or higher than site-specific background levels and do not appear to be of significant environmental concern.

Arcadis Analytical Results - VCC Area

In recent Arcadis soil samples, concentrations of arsenic were detected in the VCC area ranging from 6.5 mg/kg to 9.22 mg/kg on Parcel 8 and a concentration of arsenic (6.18 mg/kg) was detected on Parcel 9. These concentrations are above site-specific background levels. No concentrations of arsenic were detected above the POGSRG, health-based SRG, or the EPA screening levels in surface soil samples collected within the NC DOT right of way in the VCC area.

Within proposed NC DOT right of way work areas, lead was not detected in Arcadis surface soil samples above the health-based SRG, POGSRG, or EPA screening level.

The pH values detected in Arcadis surface soil samples collected in the VCC area ranged from 4.4 to 7.0. These pH values are similar to those detected in soil samples collected by H&H as described above.

Analytical Results non-VCC Area

Low level concentrations of arsenic were detected in the non-VCC areas as follows:

4.7 mg/kg to 5 mg/kg – Parcel 8,
4.5 mg/kg to 47 mg/kg – Parcel 8 Proposed Drainage Piping Area,
4.5 mg/kg to 67 mg/kg – Parcel 9 Proposed Drainage Piping Area, and
4.7 mg/kg to 27 mg/kg - Parcel 10.

A few of these concentrations are above the health-based SRG. Concentrations of arsenic above the health-based SRG and published POGSRG were detected in soil samples 8-15-3 (47 mg/kg), 9-1-5 (67 mg/kg), and 10-15-5 (27 mg/kg), which were collected from Parcel 8 piping area, Parcel 9 piping area, and Parcel 10, respectively. The concentrations of arsenic detected in samples 8-15-3 and 9-1-5 are also above the EPA screening level. As mentioned above, background arsenic concentrations ranged from 0.92 mg/kg to 3.3 mg/kg.

Concentrations of lead were detected above the health-based SRG and the POGSRG in non-VCC area soil samples 8-15-3 (970 mg/kg), 8-16-2 (1,500 mg/kg), 8-16-7 (1,100 mg/kg) and 9-1-5

(860 mg/kg), which were collected from the Parcel 8 and Parcel 9 proposed drainage piping area. The concentrations of lead detected in soil samples 8-15-3, 8-16-2, and 8-16-7 are also above the EPA screening level. Otherwise, lead concentrations (up to 140 mg/kg) did not exceed target levels in the non-VCC areas, although certain concentrations were elevated above background levels. As mentioned above, site-specific background lead concentrations ranged from 9.3 mg/kg to 30 mg/kg.

The pH values ranged from 4.03 to 7.43 in non-VCC areas, with most pH levels between 4 and 6. These pH values are similar to or higher than the pH values detected in the background samples and do not appear to be of significant environmental concern.

Arsenic and Lead Summary

Based on soil analytical results, there are scattered low level arsenic impacts above screening levels in both the VCC and the non-VCC areas. Lead impacted areas above screening levels are limited to the proposed drainage piping areas on Parcels 8 and 9 (which is the southside of the former Carolina Ore site) and a single location to the west of the proposed Southbound Detour Lane on Parcel 8. Ten site-specific background samples were collected on Parcel 11 at a location away from the former fertilizer plants and Carolina Ore. When the target data are compared to background metals concentrations, the arsenic and lead concentrations detected above screening levels (and other lead and arsenic concentrations below screening levels) exceed background levels. Based on these data, the arsenic and lead detections do not appear to be naturally occurring.

2.2 TCLP RCRA Metals

Although certain arsenic impacted soil concentrations are above the health-based SRG, the soils will not be hazardous waste if generated by applying the 20:1 rule, using total arsenic concentrations and the Toxicity Characteristic Leaching Procedure (TCLP) regulatory level for arsenic. H&H compared the highest detection of arsenic (67 mg/kg) to the TCLP regulatory level (5.0 mg/L). Based on the 20:1 rule, the detected total concentration of arsenic is less than 100 mg/kg (20*5.0), and the soil is non-hazardous. To confirm that arsenic impacted soils are

non-hazardous, eight of H&H collected soil samples with highest arsenic detections were analyzed for TCLP RCRA metals.

Because concentrations of lead detected in soil samples from the non-VCC area samples 8-15-3 (970 mg/kg), 8-16-2 (1,500 mg/kg), 8-16-7 (1,100 mg/kg), and 9-1-5 (860 mg/kg) are above DENR and/or EPA screening levels for lead and exceed the 20:1 rule concentration for lead of 100 mg/kg (20*5.0), H&H collected soil samples to confirm that lead impacted soils are not hazardous using TCLP analysis based on composite samples. H&H collected one composite soil sample on the west side of Highway 52 near soil borings 8-15 and 8-16 and one composite soil sample on the east side of Highway 52 near soil boring 9-1. The composite sample on the west side of Highway 52 consisted of aliquots collected from the three soil borings at depths 1 ft and 3 ft near boring 8-15, 2 ft and 7 ft near boring 8-16, and 2 ft and 7 ft from a soil boring advanced closer to Highway 52. The composite sample on the east side of Highway 52 consisted of aliquots collected at depths of 1 ft and 5 ft near boring 9-1 and 1 ft and 5 ft from a soil boring advanced closer to Highway 52. Composite sample locations are shown on Figures 3 and 6.

At each of the composite sample locations, aliquots of soil were collected utilizing a stainless steel hand auger. The hand auger was decontaminated between each sampling point. Equal amounts of each of the aliquots were placed in a Pyrex bowl and mixed with a nitrile gloved hand until homogenized. The Pyrex bowl was decontaminated between each composite sample.

After the samples were homogenized at each composite sample location, a composite sample was placed in laboratory supplied containers and transferred to Prism using standard chain-of-custody procedures. The two composite soil samples were analyzed for TCLP RCRA metals.

No Arcadis soil samples collected within the NC DOT right of way in the VCC area were analyzed for TCLP RCRA metals.

TCLP Analytical Results

TCLP RCRA metals were not detected above RCRA characteristic levels in VCC and non-VCC areas based on the eight grab sample and two composite samples (Table 6). Arsenic was not

detected in the leachate of any of the samples with a reporting limit of 50 µg/l. Lead was detected at low levels in five of the samples analyzed for TCLP metals as described below.

Concentrations of TCLP lead were detected in soil samples 8-3-0.5 (0.11 mg/L), 8-15-3 (0.26 mg/L), 9-1-5 (0.16 mg/L) which were collected from Parcel 8, Parcel 8 piping area, and Parcel 9 piping area, respectively. Concentrations of TCLP lead were also detected in composite sample Comp-1 (0.027J mg/L) collected near the proposed piping area on Parcel 8 and composite sample Comp-2 (0.0071J mg/L) collected near the proposed piping on Parcel 9.

POGSRG Discussion

As noted above, arsenic was not detected in TCLP leachate in the ten samples analyzed. These ten samples contained the highest total arsenic concentrations. Therefore, arsenic in proposed DOT work areas does not appear to be a threat to ground water.

Lead concentrations were detected above the POGSRG in five samples, and there are low level TCLP lead detections. H&H evaluated the potential for the detected lead leachate concentrations to impact ground water. The highest detected TCLP lead concentration (0.26 mg/l) exceeds the 2L ground water standard of 0.015 mg/l. If the low lead leachate concentrations were to reach the water table, it would be further diluted in ground water. This effect is described in EPA's 1996 Soil Screening Guidance and is the basis for using the dilution-attenuation factor. After applying a default ground water dilution-attenuation factor of 20, the resulting potential lead concentration in ground water (0.013 mg/l) is lower than the ground water standard. Based on these considerations, the lead impacts in proposed DOT work areas do not appear to be a threat to ground water. In addition, with the exception of the soil detected at 8-3-0.5 which only contained 310 mg/kg lead and for which lead was not detected in the TCLP leachate, DOT is planning to remove excavated soil where lead is present above the POGSRG and dispose of these soils off-site at a permitted facility. The impacted soils to be disposed off-site are located along proposed drainage piping on the south side of the former Carolina Ore site.

2.3 Evaluation of Results and DOT Road Plans

DOT is planning cut and fill operations and drainage piping work for proposed road improvements on Highway 52. Based on soil analytical results, there are scattered concentrations of arsenic above the health-based SRG present in proposed DOT work areas. Data indicate that the soils to be disturbed in proposed NC DOT work areas are not characteristically hazardous waste and do not pose a significant threat to ground water. Concentrations of arsenic above the health-based SRG and EPA industrial screening level are limited to a small area near the bridge foundation wall, a sample on Parcel 10, and along the proposed drainage piping on the south side of the former Carolina Ore site. Lead impacts above the IHSB health-based SRG and EPA's industrial screening level are limited to the area along the proposed drainage piping on the south side of the former Carolina Ore site. As mentioned above, soils excavated by DOT work for this proposed drainage piping will be disposed off-site at a permitted facility.

With the exception of the above-mentioned soil along the proposed drainage piping which will be disposed off-site, NC DOT is seeking approval from both EPA and DENR IHSB to allow impacted soil that is disturbed for road work to be utilized as beneficial fill soil in the nearby proposed Southbound Detour Lane and the proposed northbound and southbound travel lanes, which are within the proposed NC DOT right of way. NC DOT would like to place impacted soil under the Southbound Detour Lane and the proposed northbound and southbound travel lanes road beds and road banks. Although these soils will not be placed under asphalt in perpetuity because the detour lane is temporary, NC DOT is proposing to place at least 2 ft of clean fill on the impacted soil road fill areas. In the event that DOT removes the asphalt from the detour lane, the road bed will still be left in place. In addition, the proposed soil placement areas will be located in a controlled access area (fenced area), which will prevent public access to the impacted soils.

If impacted soils above the IHSB health-based SRG or EPA industrial screening levels will be re-used as fill for this project, NC DOT will place a land use restriction on the DOT right of way in this area to allow the beneficial reuse of the impacted soil. Alternatively, DOT reserves the right to remove soil impacted above the health-based SRG or EPA industrial screening levels from the site for disposal at an off-site permitted facility to avoid the land use restriction.

Most of the impacted soil to be cut during proposed DOT road work will be removed from the area of Parcel 10 (former Royster Clark), although surface grubbing may also generate impacted soil. A sketch showing the overall cut and fill placement areas is provided as Figure 12.

NC DOT understands that deeper soils that may be impacted by arsenic and/or lead may be close to the surface following soil cuts near Parcel 10. DOT will sample the soil surface near Parcel 10 after the cut is made to determine if arsenic or lead impacts remain above IHSB health-based SRGs. If soil impacts are found on the new soil surface above these SRGs, DOT will cut an additional 2 ft of impacted soil for placement under at least 2 ft of clean fill in road beds or road banks.

2.4 Other Considerations

Health and Safety

NC DOT is aware of arsenic and lead impacted soils in the proposed work areas which could pose a health and safety concern to construction workers. NC DOT will require that their contractors prepare a site-specific health and safety plan to use during road improvement activities in this area.

Slag and Magenta Colored Soil

NC DOT will make their contractors aware of the potential presence of metal slag and magenta colored soil. If suspected metal slag or magenta colored soils are encountered during grading or other construction activities, NC DOT will notified by the contractor and these materials will be properly managed and disposed at a permitted off-site facility, as approriate.

Monitoring Wells

Seven monitoring wells were identified within the DOT work areas during H&H field activities. Because cut and fill activities will be conducted in these areas, the wells should be properly abandoned prior to DOT road improvements. These wells will be abandoned by NCDOT and any well that was present in newly acquired right of way will be reinstalled by NCDOT at a later

date. Monitoring well locations are shown on Figure 2. H&H also located the monitoring wells using GPS. The GPS coordinates are as follows:

	Latitude	Longitude
MW-23	36.12878083330	80.23508361110
MW-31	36.12870083330	80.23502277780
MW-4	36.13070683330	80.23720383330
MW-5	36.13028933330	80.23661283330
MW-9	36.12993733330	80.23624466670
MW-8	36.13167333330	80.23754383330
MW-A	36.12965766670	80.23469566670

Carolina Ore Ruins

H&H observed metal slag near the Carolina Ore ruins. The metal slag was observed near concrete foundations. In addition, it was reported that magenta-colored impacted may be present near the ruins. NC DOT plans include a right of way fence line which crosses these ruins. DOT may remove portions of the concrete foundations to install the fence. However, DOT will direct its contractors to avoid disturbing surface soil and slag in this area.

3.0 Petroleum Impacted Soil Assessment - Parcel 11

Parcel 11

Soil borings 11-1 through 11-3 and 11-9 were advanced in the DOT target area on Parcel 11 near a suspected surface release area from diesel above-ground tanks that was identified by H&H during our site visit. Soil borings 11-4 through 11-7 (advanced on Parcel 11) and 11-8 (advanced on Parcel 9) were advanced near the DOT proposed piping area where a surface release of diesel fuel occurred in August 2006. Because soil samples were collected to investigate surface releases and the DOT work area on Parcel 11 is a proposed cut area near the suspected surface release identified by H&H transitioning to a fill area near the proposed piping area, soil samples were collected from a depth of 0 ft to 4 ft. Soil sample locations are shown on Figure 13. Soil boring logs are included in Appendix A.

To facilitate the selection of soil samples for laboratory analysis from these borings, soil was screened continuously for the presence of volatile organic compounds (VOCs) with a photo ionization detector (PID). Additionally, H&H observed the soil for visual and olfactory indications of petroleum impacts. In general, a soil sample from each boring that exhibited the highest reading on the PID was selected for laboratory analysis.

Soil samples were placed into laboratory supplied bottles upon collection, properly labeled, placed in a cooler with ice, and sent to Prism under standard chain-of-custody protocol for laboratory analysis. Soil samples were analyzed for total petroleum hydrocarbons (TPH) using EPA Method 8015B for gasoline range organics (GRO) and diesel range organics (DRO). Laboratory analytical data sheets for soil samples and chain-of-custody documentation for this site are provided in Appendix B.

Analytical Results

A concentration of TPH GRO (11 mg/kg) detected in soil sample 11-3-3 exceeds the NC DENR Action Level of 10 mg/kg. No other concentrations TPH DRO of TPH GRO were detected in soil samples collected from Parcel 11 above the NC DENR Action Level of 10 mg/kg. TPH DRO and GRO analytical results are presented in Table 7.

Based on laboratory analytical results, TPH-GRO concentrations are present on Parcel 11 near the suspected surface release identified by H&H (near boring 11-3-3). Based on PID readings and analytical results, H&H estimates that there are up to a total of 150 cubic yards (225 tons) of petroleum impacted soil between the surface and 4 ft near boring 11-3-3. DOT plans indicate a proposed cut transitioning to fill in the area of impacted soil; therefore, it is likely the impacted soils will be disturbed. Petroleum impacted soil that is removed will be properly managed and disposed at a permitted facility, unless written permission is obtained from the DENR UST Section to re-use this soil on-site.

4.0 Conclusions

H&H has completed additional assessment activities in proposed NC DOT right of ways on Parcel 8 to Parcel 11. Soil analytical results indicate there are scattered concentrations of arsenic above EPA and DENR screening levels and concentrations of lead above screening levels along proposed drainage piping on the south side of the former Carolina Ore site within proposed DOT work areas. TCLP analytical results confirm that these soils are not characteristically hazardous wastes and are not a significant threat to ground water. Impacted soil generated by excavation activities for the proposed drainage piping on the south side of the former Carolina Ore site will be removed and disposed off-site at a permitted facility.

With the exception of the above-mentioned soil along the proposed drainage piping which will be disposed off-site, NC DOT is seeking approval from both EPA and DENR to allow impacted soil that is disturbed for road work to be utilized as beneficial fill soil in the nearby proposed Southbound Detour Lane and the proposed northbound and southbound travel lanes, which are within the proposed NC DOT right of way. DENR's recent IHSB letter approves NC DOT's plans if certain conditions are met. NC DOT would like to place impacted soil under the Southbound Detour Lane and the proposed northbound and southbound travel lanes road beds and road banks. Although these soils will not be placed under asphalt in perpetuity because the detour lane is temporary, NC DOT is proposing to place at least 2 ft of clean fill on the impacted soil road fill areas. In the event that DOT removes the asphalt from the detour lane, the road bed will still be left in place. In addition, the proposed fill areas will be located in a controlled access area (fenced area), which will prevent public access to the impacted soils.

If impacted soils above the IHSB health-based SRG or EPA industrial screening levels will be re-used as fill for this project, NC DOT will place a land use restriction on the DOT right of way in this area to allow the beneficial reuse of the impacted soil. Alternatively, DOT reserves the right to remove soil impacted above the health-based SRG or EPA industrial screening levels from the site for disposal at an off-site permitted facility to avoid the land use restriction.

Analytical results of soil samples collected by H&H indicate TPH-GRO concentrations are present on Parcel 11 near the suspected surface release identified by H&H. H&H estimates that there are up

to a total of 150 cubic yards (225 tons) of petroleum impacted soil between the surface and 4 ft near boring 11-3-3. DOT plans indicate a proposed cut transitioning to fill in the area of impacted soil; therefore, it is likely the impacted soils will be disturbed. Petroleum impacted soil that is removed will be properly managed and disposed at a permitted facility, unless written permission is obtained from the DENR UST Section to re-use this soil on-site.

5.0 Signature Page

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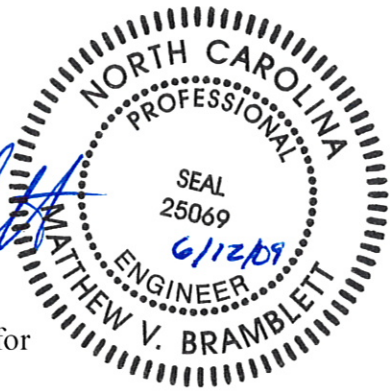

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Table 1
Soil Analytical Detections
WBS Element 34871.1.1 (Parcel # 8)
Winston-Salem, North Carolina
H&H Job No.ROW-204

	VCC Area							Non-VCC Area							
Sample ID	8-1-0.5	8-2-0.5	8-3-0.5	8-4-0.5	8-5-0.5	8-6-0.5	8-7-0.5	8-8-0.5	8-10-0.5	8-11-0.5	8-12-0.5	8-13-0.5	Inactive Hazardous Sites SRG [1]	Inactive Hazardous Sites POG [2]	EPA Screening Level [3]
Depth (feet)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
Date	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009			
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Metals (6010B)															
Arsenic	4.5	9.5	8.8	8.3	4.8	5.2	4.3	4.7	5.0	3.0	1.2	<0.69	22	26.2	27
Lead	23	120	310	52	16	20	37	33	61	53	29	20	400	270	895
pH Value (9045C)															
pH	NA	NA	5.53	NA	4.72	NA	4.81	NA	NA	6.57	NA	NA	NS	NS	NS

Notes:
1. NC DENR Inactive Hazardous Sites Branch Soil Remediation Goals (SRGs) - October 2008; except higher arsenic level provided by DENR toxicologist because only one carcinogenic compound suspected at this site.
2. NC DENR Inactive Hazardous Sites Branch Protection of Groundwater (POG) Soil Remediation Goals - October 2008
3. EPA Screening Level for Industrial Site Use Developed for VCC Program
EPA Method number follows parameter in parenthesis
Bold indicates concentration exceeds SRG
NA = Not Analyzed; NS = Not Specified
VCC = Former Virginia Carolina Chemical Company Boundary

Table 2
Soil Analytical Detections
WBS Element 34871.1.1 (Bridge Foundation Wall)
Winston-Salem, North Carolina
H&H Job No.ROW-204

	VCC Area														
Sample ID	BFW-1-0.5	BFW-1-2	BFW-2-0.5	BFW-2-2	BFW-3-0.5	BFW-3-2	BFW-4-0.5	BFW-4-2	BFW-5-0.5	BFW-5-2	BFW-6-0.5	BFW-6-2	Inactive Hazardous Sites SRG [1]	Inactive Hazardous Sites POG [2]	EPA Screening Level [3]
Depth (feet)	0.5	2	0.5	2	0.5	2	0.5	2	0.5	2	0.5	2			
Date	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009			
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Metals (6010B)															
Arsenic	7.4	6.6	11	6.2	6.1	7.9	5.6	12	**29**	**27**	8.1	6.8	22	26.2	27
Lead	87	170	70	45	74	40	120	76	250	170	89	160	400	270	895
pH Value (9045C)															
pH	7.60	NA	NA	NA	7.13	NA	7.78	NA	NA	NA	7.85	NA	NS	NS	NS

Notes:
1. NC DENR Inactive Hazardous Sites Branch Soil Remediation Goals (SRGs) - October 2008; except higher arsenic level provided by DENR toxicologist because only one carcinogenic compound suspected at this site.
2. NC DENR Inactive Hazardous Sites Branch Protection of Groundwater (POG) Soil Remediation Goals - October 2008
3. EPA Screening Level for Industrial Site Use Developed for VCC Program
EPA Method number follows parameter in parenthesis
Bold indicates concentration exceeds SRG
NS = Not Specified; NA = Not Analyzed
VCC = Former Virginia Carolina Chemical Company Boundary

Table 3
Soil Analytical Detections
WBS Element 34871.1.1 (Parcel # 8 and 9 - Proposed Piping Area)
Winston-Salem, North Carolina
H&H Job No.ROW-204

	Non-VCC Area													
Sample ID	8-9-0.5	8-14-1	8-14-3	8-15-1	8-15-3	8-16-2	8-16-7	9-1-1	9-1-5	9-2-1	9-2-5	Inactive Hazardous Sites SRG [1]	Inactive Hazardous Sites POG [2]	EPA Screening Level [3]
Depth (feet)	0.5	1	3	1	3	2	7	1	5	1	5			
Date	3/23/2009	3/23/2009	3/23/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009			
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Metals (6010B)														
Arsenic	1.5	1.2	4.5	<0.61	**47**	7.6	8.6	6.5	**67**	4.6	4.5	22	26.2	27
Lead	50	23	62	13	**970**	**1,500**	**1,100**	100	**860**	30	86	400	270	895
pH Value (9045C)														
pH	NA	5.27	4.82	5.67	6.82	NA	NA	4.77	7.43	4.92	4.58	NS	NS	NS

Notes:
1. NC DENR Inactive Hazardous Sites Branch Soil Remediation Goals (SRGs) - October 2008; except higher arsenic level provided by DENR toxicologist because only one carcinogenic compound suspected at this site.
2. NC DENR Inactive Hazardous Sites Branch Protection of Groundwater (POG) Soil Remediation Goals - October 2008
3. EPA Screening Level for Industrial Site Use Developed for VCC Program
EPA Method number follows parameter in parenthesis
Bold indicates concentration exceeds SRG
NS = Not Specified; NA = Not Analyzed;
VCC = Former Virginia Carolina Chemical Company Boundary

Table 4 (Page 1 of 2)
Soil Analytical Detections
WBS Element 34871.1.1.1 (Parcel #10)
Winston-Salem, North Carolina
H&H Job No.ROW-204

	Non-VCC Area																			
Sample ID	10-1-1	10-1-5	10-2-1	10-2-5	10-3-1	10-3-5	10-4-1	10-4-5	10-5-1	10-5-5	10-6-1	10-6-5	10-7-1	10-7-5	10-8-1	10-8-5	10-9-1	10-9-5	Inactive Hazardous Sites SRG [1]	Inactive Hazardous Sites POG [2]	EPA Screening Level [3]
Depth (feet)	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5			
Date	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009			
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Metals (6010B)																					
Arsenic	5.4	4.9	7.7	5.6	12	9.6	16	4.9	11	5.9	11	18	<0.57	<0.56	0.70	<0.60	12	9.2	22	26.2	27
Lead	53	23	87	17	140	9.2	33	26	78	35	63	26	7.5	6.7	8.1	12	48	43	400	270	895
pH Value (9045C)																					
pH	NA	NA	4.39	NA	NA	NA	NA	NA	NA	NA	4.81	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS

Notes:
1. NC DENR Inactive Hazardous Sites Branch Soil Remediation Goals (SRGs) - October 2008; except higher arsenic level provided by DENR toxicologist because only one carcinogenic compound suspected at this site.
2. NC DENR Inactive Hazardous Sites Branch Protection of Groundwater (POG) Soil Remediation Goals - October 2008
3. EPA Screening Level for Industrial Site Use Developed for VCC Program
EPA Method number follows parameter in parenthesis
Bold indicates concentration exceeds SRG
NS = Not Specified; NA = Not Analyzed;
VCC = Former Virginia Carolina Chemical Company Boundary

Table 4 (Page 2 of 2)
Soil Analytical Detections
WBS Element 34871.1.1 (Parcel #10)
Winston-Salem, North Carolina
H&H Job No.ROW-204

	Non VCC Area																			
Sample ID	10-10-1	10-10-5	10-11-1	10-11-5	10-12-1	10-12-5	10-13-1	10-13-5	10-14-1	10-14-5	10-15-1	10-15-5	10-16-1	10-16-5	10-17-1	10-17-5	10-18-1	10-18-8	Inactive Hazardous Sites SRG [1]	Inactive Hazardous Sites POG [2]	EPA Screening Level [3]
Depth (feet)	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	8			
Date	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/24/2009	3/24/2009			
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Metals (6010B)																					
Arsenic	4.7	6.5	11	13	9.7	1.0	5.4	9.8	13	19	16	**27**	4.7	6.5	2.1	5.0	2.4	<0.55	22	26.2	27
Lead	57	19	24	62	46	27	18	15	66	67	26	57	22	28	9.3	15	17	6.7	400	270	895
pH Value (9045C)																					
pH	NA	NA	NA	NA	NA	NA	4.59	NA	NA	NA	NA	NA	4.03	NA	NA	NA	NA	NA	NS	NS	NS

Notes:
1. NC DENR Inactive Hazardous Sites Branch Soil Remediation Goals (SRGs) - October 2008; except higher arsenic level provided by DENR toxicologist because only one carcinogenic compound suspected at this site.
2. NC DENR Inactive Hazardous Sites Branch Protection of Groundwater (POG) Soil Remediation Goals - October 2008
3. EPA Screening Level for Industrial Site Use Developed for VCC Program
EPA Method number follows parameter in parenthesis
Bold indicates concentration exceeds SRG
NS = Not Specified; NA = Not Analyzed;
VCC = Former Virginia Carolina Chemical Boundary

Table 5
Soil Analytical Detections
WBS Element 34871.1.1 (Background Metals)
Winston-Salem, North Carolina
H&H Job No.ROW-204

	Non-VCC Area										
Sample ID	BGM-1-2	BGM-1-5	BGM-2-2	BGM-2-5	BGM-3-2	BGM-3-5	BGM-4-2	BGM-4-5	BGM-5-2	BGM-5-5	Range
Depth (feet)	2	5	2	5	2	5	2	5	2	5	
Date	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Metals (6010B)											
Arsenic	1.8	0.92	1.8	1.6	3.3	1.7	1.8	1.7	2.2	1.5	0.92 to 3.3
Lead	9.3	18	15	27	21	25	16	18	19	30	9.3 to 30
pH Value (9045C)											
pH	4.30	NA	4.48	NA	NA	NA	4.57	NA	4.51	NA	4.3 to 4.57

Notes:
EPA Method number follows parameter in parenthesis
NA = Not Analyzed
VCC = Former Virginia Carolina Chemical Company Boundary

Table 6
Soil TCLP Analytical Detections
WBS Element 34871.1.1
Winston-Salem, North Carolina
H&H Job No.ROW-204

	VCC Area					Non-VCC Area					
Sample ID	BFW-5-0.5	BFW-5-2	8-2-0.5	8-3-0.5	8-4-0.5	8-15-3	9-1-5	10-15-5	Comp-1	Comp-2	RCRA Characteristic Level
Depth (feet)	0.5	2	0.5	0.5	0.5	3	5	5	(1)	(2)	
Date	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009	3/23/2009	5/5/2009	5/5/2009	
Units	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
TCLP Metals (6010B)											
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	5
Barium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.51 J	0.83 J	100
Cadmium	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.002 J	0.0035 J	1
Chromium	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.0008 J	0.0046 J	5
Lead	<0.05	<0.05	<0.05	0.11	<0.05	0.26	0.16	<0.05	0.027 J	0.0071 J	5
TCLP Mercury (7470A)											
Mercury	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00003 J	0.00002 J	0.2

Notes:
(1) Comp-1 - includes aliquot soil samples collected near sample locations 8-15 and 8-16.
(2) Comp-2 - includes aliquot soil samples collected near sample locations 9-1 and 9-2.
EPA Method number follows parameter in parenthesis
NA = Not Analyzed
VCC = Former Virginia Carolina Chemical Company Boundary
J = estimated value

Table 7
Soil Analytical Detections
WBS Element 34871.1.1 (Parcel #11)
Winston-Salem, North Carolina
H&H Job No.ROW-204

	Non-VCC Area									
Sample ID	11-1-3	11-2-3	11-3-3	11-4-3	11-5-3	11-6-1	11-7-1	11-8-1	11-9-1	NCDENR Action Level
Depth (feet)	3	3	3	3	3	1	1	1	1	
Date	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/23/2009	3/24/2009	3/24/2009	3/24/2009	3/23/2009	
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
TPH (G8015B)										
DRO	<8.5	<8.5	<8.8	<8.8	<8.5	<8.7	<8.2	<9.0	<8.3	40
GRO	<6.1	<6.1	**11**	<6.3	<6.1	<6.2	<5.8	<6.5	<5.9	10

Notes:
EPA Method number follows parameter in parenthesis
Bold indicates concentration exceeds NCDENR Action Level
TPH = Total Petroleum Hydrocarbons; DRO = Diesel Range Organics; GRO = Gasoline Range Organics
GRO was prepared using EPA Method 5035
VCC = Former Virginia Carolina Chemical Company Boundary

N

APPROXIMATE

0 2000 4000

SCALE IN FEET

U.S.G.S. QUADRANGLE MAP

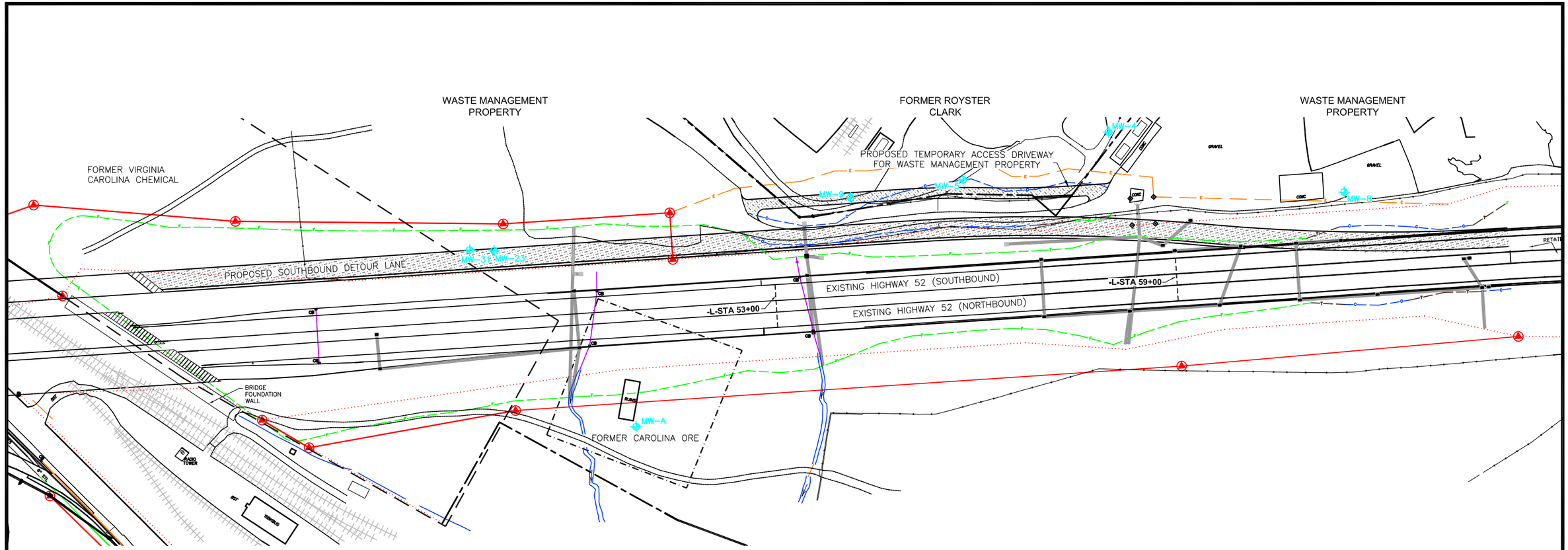
WALKERTOWN, NC 1951

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE	SITE LOCATION MAP
PROJECT	NC DOT RIGHT OF WAY WINSTON-SALEM, FORSYTH COUNTY, NC

Hart & Hickman
A Professional Corporation
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007 (p) 704-586-0373 (f)

DATE:	2-25-09	REVISION NO:	0
JOB NO:	ROW-204	FIGURE:	1



APPROXIMATE
0 150 300
SCALE IN FEET

LEGEND

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- C — PROPOSED CUT LINE
- F — PROPOSED FILL LINE
- T — PROPOSED TRANSITION LINE
- E — PROPOSED CONSTRUCTION EASEMENT
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- FENCE
- RAILROAD TRACKS
- MONITORING WELL LOCATION
- CB — PROPOSED CATCH BASIN
- CB — EXISTING CATCH BASIN
- SOIL BORING LOCATION
- 8 — PARCEL NUMBER
- APPROXIMATE BOUNDARY OF FORMER VIRGINIA CAROLINA CHEMICAL
- APPROXIMATE BOUNDARY OF FORMER CAROLINA ORE

TITLE
SITE MAP
(PROJECT AREA)

PROJECT
NC DOT RIGHT OF WAY
WINSTON SALEM, FORSYTH COUNTY, NC

Hart & Hickman
A PROFESSIONAL CORPORATION
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

DATE: 6-4-09	REVISION NO. 0
CREATED BY: NF	REVISED BY: NF
JOB NO: ROW-204	FIGURE NO. 2

S:\AAA-Master Projects\NC DOT Right-of-Way -ROW\ROW-204 Winston-Salem VCC\Figures\ROW-204.dwg, 6/12/2009 11:32:42 AM

FORMER VIRGINIA CAROLINA CHEMICAL

8

SB12 0.5'(8.83)
SB11 0.5'(7.91)
SB2 0.5'(4.34)
8-1 0.5'(4.5)
8-2 0.5'(9.5) [<0.05]
8-3 0.5'(8.8) [<0.05]
8-4 0.5'(8.3) [<0.05]
8-5 0.5'(4.8)
8-6 0.5'(5.2)
8-7 0.5'(4.3)
8-8 0.5'(4.7)
8-9 0.5'(1.5)
8-10 0.5'(5.0)
8-11 0.5'(3.0)
8-12 0.5'(1.2)
8-13 0.5'(<0.69)
SB21 0.5'(9.22)
SB1 0.5'(6.50)
MW-31
MW-23
MW-9
8-14 1'(1.2) 3'(4.5)
8-15 1'(<0.61) 3'(47)[<0.05]
8-16 2'(7.6) 7'(8.6)
COMPOSITE 1 [<0.05]
COMPOSITE 2 [<0.05]
PROPOSED SOUTHBOUND DETOUR LANE
EXISTING HIGHWAY 52 (SOUTHBOUND)
EXISTING HIGHWAY 52 (NORTHBOUND)
-L-STA 53+00
CB
BFW-1 0.5'(7.4) 2'(6.6)
BFW-2 0.5'(11) 2'(6.2)
BFW-3 0.5'(6.1) 2'(7.9)
BFW-4 0.5'(5.6) 2'(12)
BFW-5 0.5'(29) [<0.05] 2'(27) [<0.05]
BFW-6 0.5'(8.1) 2'(6.8)
BRIDGE FOUNDATION WALL
SB10 0.5'(6.18)
SB20 0.5'(0.924)
9-1 1'(6.5) 5'(67) [<0.05]
9-2 1'(4.6) 5'(4.5)
RUINS
MW-A
FORMER CAROLINA ORE
9
RADIO TOWER
BST
6" STL
1SBKBUS

APPROXIMATE
0 80 160
SCALE IN FEET

NOTES:

1. SOIL SAMPLES BY ARCADIS ARE ONLY SHOWN IF COLLECTED IN THE DOT RIGHT-OF-WAY AREA.
2. BECAUSE THE VCC AREA IS A PROPOSED DOT FILL AREA, ONLY SOIL SAMPLES FROM 0-0.5 ft ARE SHOWN.
3. ARCADIS DATA IS DRAFT DATA PENDING VALIDATION

LEGEND

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- C — PROPOSED CUT LINE
- F — PROPOSED FILL LINE
- T — PROPOSED TRANSITION LINE
- E — PROPOSED CONSTRUCTION EASEMENT
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- FENCE
- (8.1) TOTAL ARSENIC CONCENTRATION (mg/kg)
- [<0.05] TCLP ARSENIC (mg/L)

BOLD DENOTES EXCEEDANCE OF NC DENR-IHSB SRG

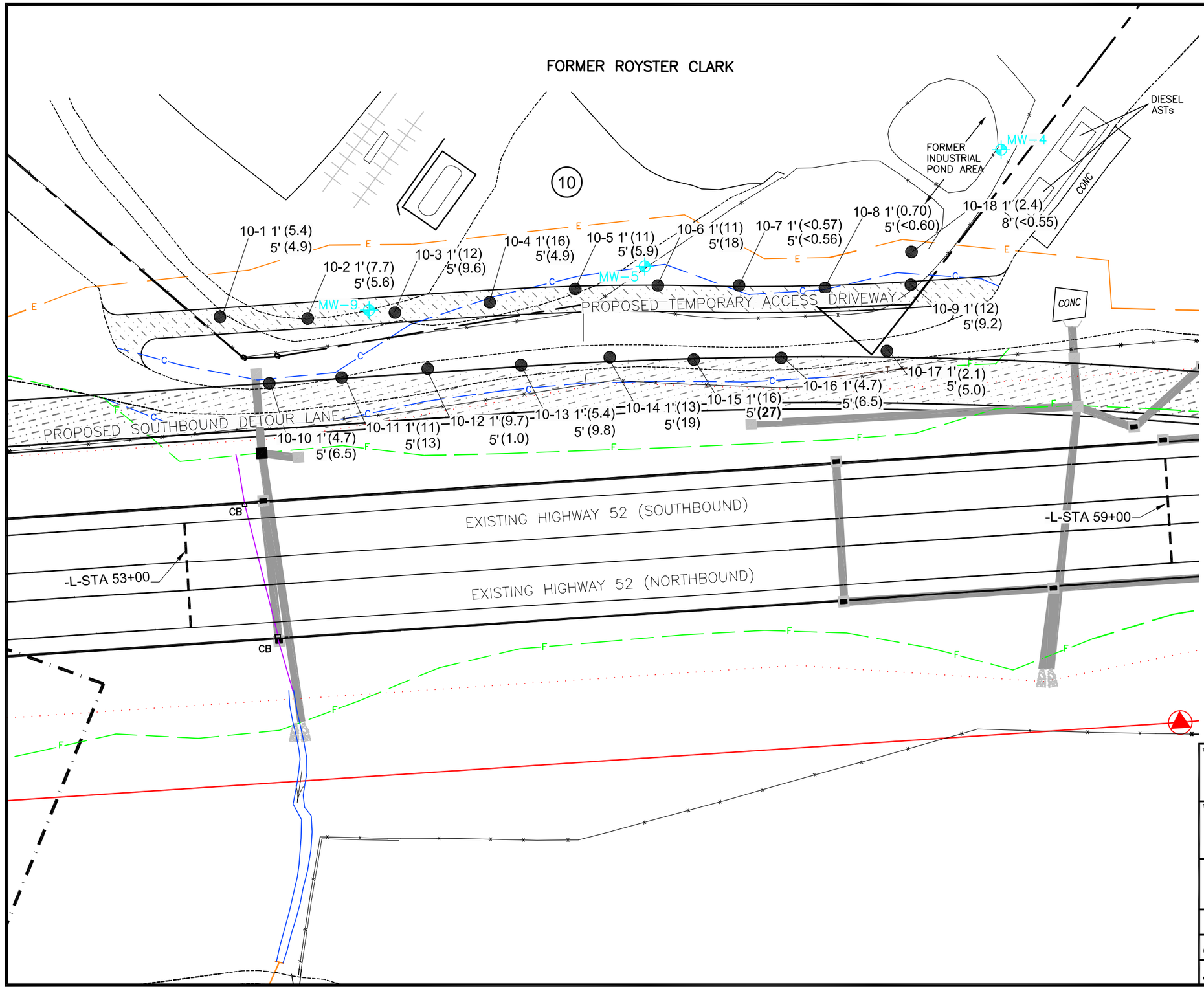
- CB PROPOSED CATCH BASIN
- CB EXISTING CATCH BASIN
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- ARCADIS SOIL SAMPLE LOCATION
- 8 PARCEL NUMBER
- APPROXIMATE BOUNDARY OF FORMER VIRGINIA CAROLINA CHEMICAL
- APPROXIMATE BOUNDARY OF FORMER CAROLINA ORE

TITLE
ARSENIC DETECTION MAP
PARCEL 8, PARCEL 9 AND
BRIDGE FOUNDATION WALL

PROJECT
NC DOT RIGHT OF WAY
WINSTON SALEM, FORSYTH COUNTY, NC

Hart & Hickman
A PROFESSIONAL CORPORATION
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

DATE: 6-4-09	REVISION NO. 0
CREATED BY: NF	REVISED BY: NF
JOB NO: ROW-204	FIGURE NO. 3



LEGEND

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- C — PROPOSED CUT LINE
- F — PROPOSED FILL LINE
- T — PROPOSED TRANSITION LINE
- E — PROPOSED CONSTRUCTION EASEMENT
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- FENCE
- (9.2) TOTAL ARSENIC DETECTION (mg/kg)
- [<0.05] TCLP ARSENIC (mg/L)
- CB PROPOSED CATCH BASIN
- CB EXISTING CATCH BASIN
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- (10) PARCEL NUMBER

BOLD DENOTES EXCEEDANCE OF NC DENR-IHSB SRG

APPROXIMATE
0 60 120
SCALE IN FEET

TITLE

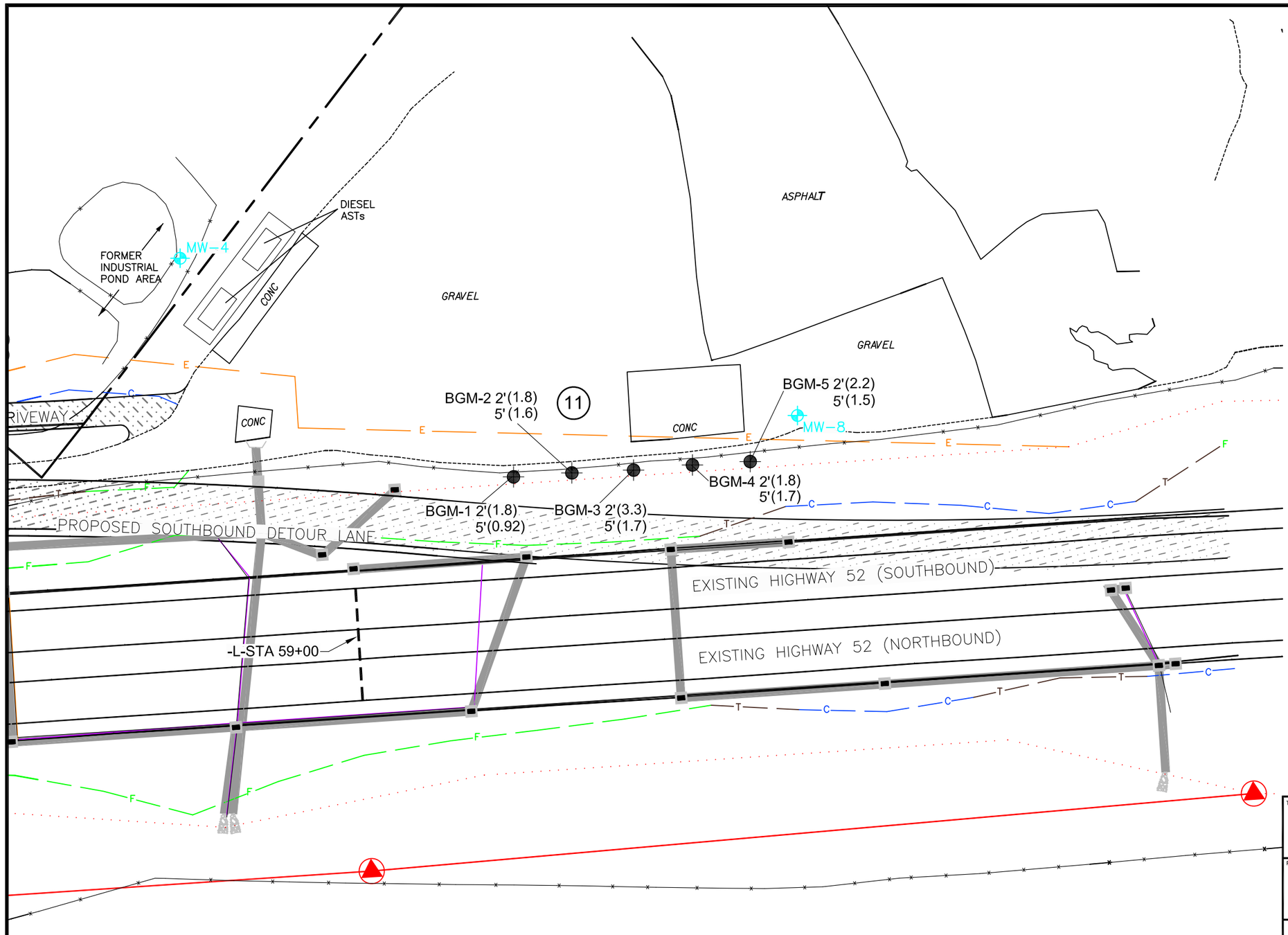
ARSENIC DETECTION MAP
PARCEL 10

PROJECT

NC DOT RIGHT OF WAY
WINSTON-SALEM, FORSYTH COUNTY, NC

Hart & Hickman
A PROFESSIONAL CORPORATION
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

DATE: 6-4-09	REVISION NO. 0
CREATED BY: NF	REVISED BY: NF
JOB NO: ROW-204	FIGURE NO. 4



LEGEND

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- C — PROPOSED CUT LINE
- F — PROPOSED FILL LINE
- T — PROPOSED TRANSITION LINE
- E — PROPOSED CONSTRUCTION EASEMENT
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- FENCE
- CB — PROPOSED CATCH BASIN
- CB — EXISTING CATCH BASIN
- SOIL BORING LOCATION (BACKGROUND SAMPLES)
- MONITORING WELL LOCATION
- (2.2) — TOTAL ARSENIC CONCENTRATION (mg/kg)
- 11 — PARCEL NUMBER

N

APPROXIMATE
0 60 120
SCALE IN FEET

TITLE
BACKGROUND ARSENIC DETECTION MAP PARCEL 11

PROJECT
NC DOT RIGHT OF WAY
WINSTON-SALEM, FORSYTH COUNTY, NC

Hart & Hickman
A PROFESSIONAL CORPORATION
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

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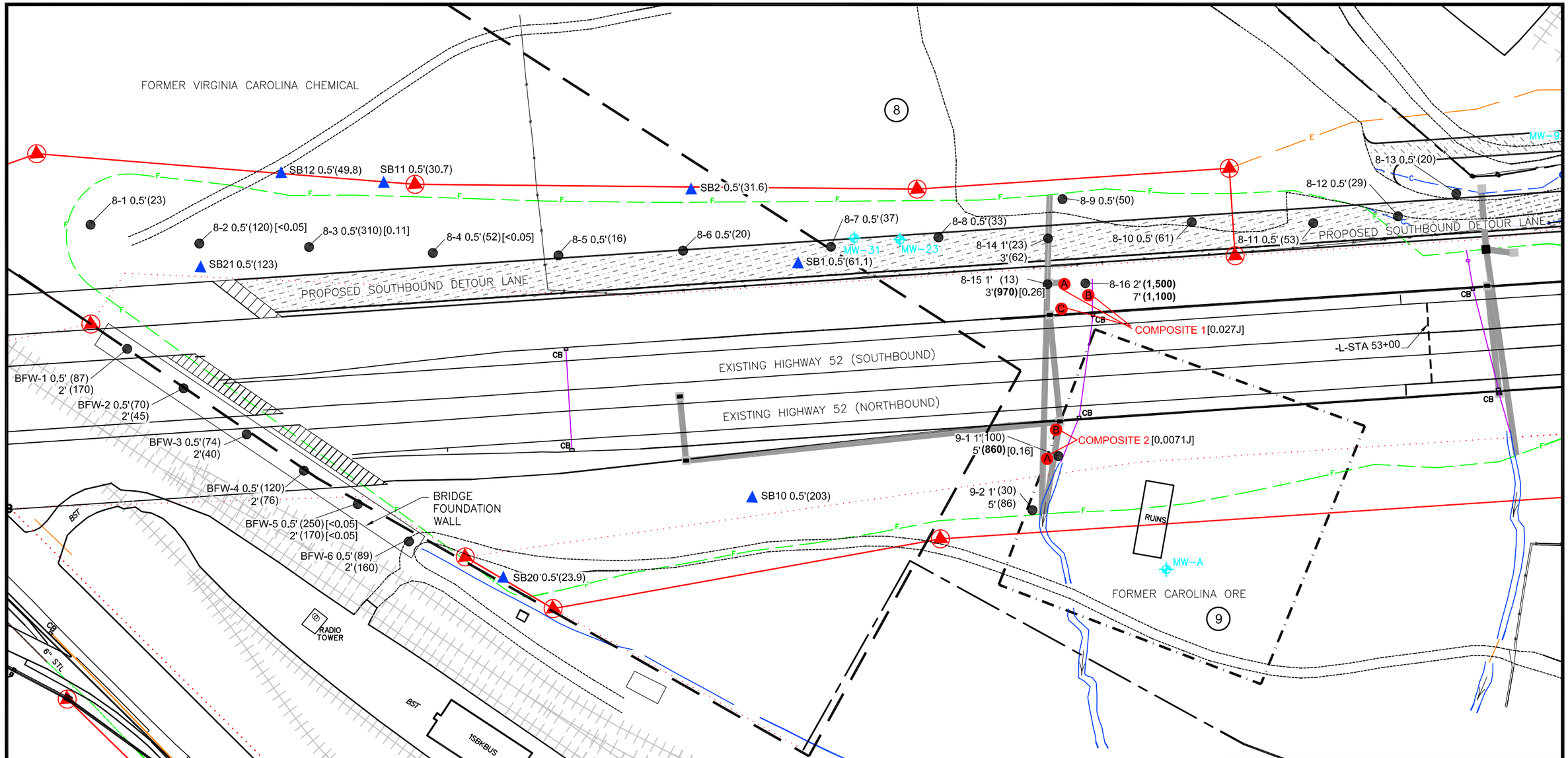
JOB NO: ROW-204	FIGURE NO. 5

S:\AAA-Master Projects\NC DOT Right-of-Way -ROW\ROW-204 Winston-Salem VCC\Figures\ROW-204.dwg, 6/12/2009 11:34:51 AM



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APPROXIMATE
0 80 160
SCALE IN FEET

NOTES:

1. SOIL SAMPLES BY ARCADIS ARE ONLY SHOWN IF COLLECTED IN THE DOT RIGHT-OF-WAY AREA.
2. BECAUSE THE VCC AREA IS A PROPOSED DOT FILL AREA, ONLY SOIL SAMPLES FROM 0-0.5 ft ARE SHOWN.
3. ARCADIS DATA IS DRAFT DATA PENDING VALIDATION

LEGEND

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- C — PROPOSED CUT LINE
- F — PROPOSED FILL LINE
- T — PROPOSED TRANSITION LINE
- E — PROPOSED CONSTRUCTION EASEMENT
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- FENCE
- (170) TOTAL LEAD CONCENTRATION (mg/kg)
- [<0.05] TCLP LEAD (mg/L)

BOLD DENOTES EXCEEDANCE OF NC DENR-IHSB SRG

- CB PROPOSED CATCH BASIN
- CB EXISTING CATCH BASIN
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- ARCADIS SOIL SAMPLE LOCATION
- (8) PARCEL NUMBER
- APPROXIMATE BOUNDARY OF FORMER VIRGINIA CAROLINA CHEMICAL
- APPROXIMATE BOUNDARY OF FORMER CAROLINA ORE

TITLE
LEAD DETECTION MAP
PARCEL 8, PARCEL 9 AND
BRIDGE FOUNDATION WALL

PROJECT
NC DOT RIGHT OF WAY
WINSTON SALEM, FORSYTH COUNTY, NC

Hart & Hickman
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DATE: 6-4-09	REVISION NO. 0
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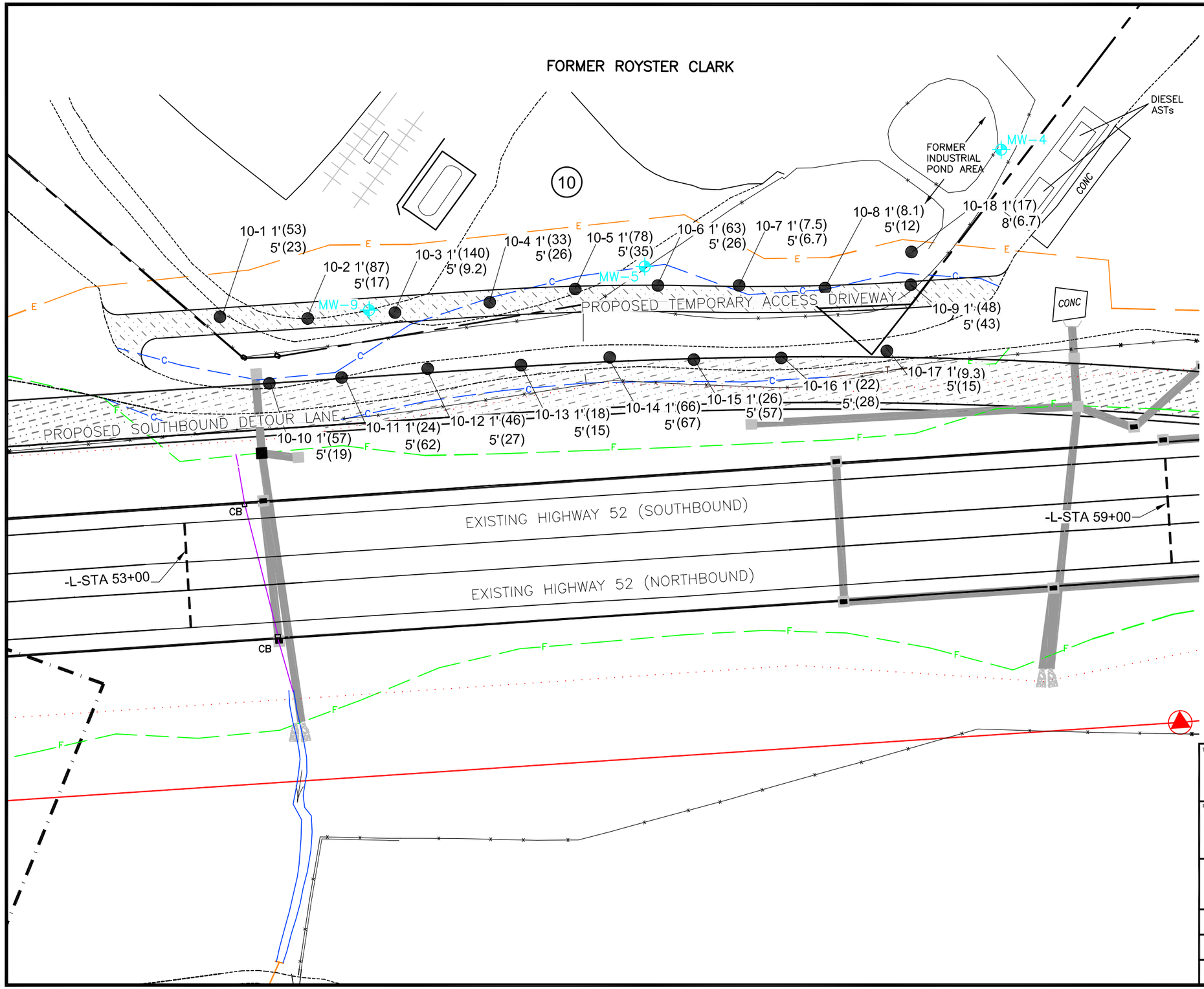
JOB NO: ROW-204	FIGURE NO. 6



LEGEND

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- C — PROPOSED CUT LINE
- F — PROPOSED FILL LINE
- T — PROPOSED TRANSITION LINE
- E — PROPOSED CONSTRUCTION EASEMENT
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- FENCE
- CB — PROPOSED CATCH BASIN
- CB — EXISTING CATCH BASIN
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- (17) — TOTAL LEAD CONCENTRATION (mg/kg)
- [<0.05] — TCLP LEAD (mg/L)
- (10) — PARCEL NUMBER

APPROXIMATE
0 60 120
SCALE IN FEET

TITLE

LEAD DETECTION MAP PARCEL 10

PROJECT

NC DOT RIGHT OF WAY
WINSTON-SALEM, FORSYTH COUNTY, NC

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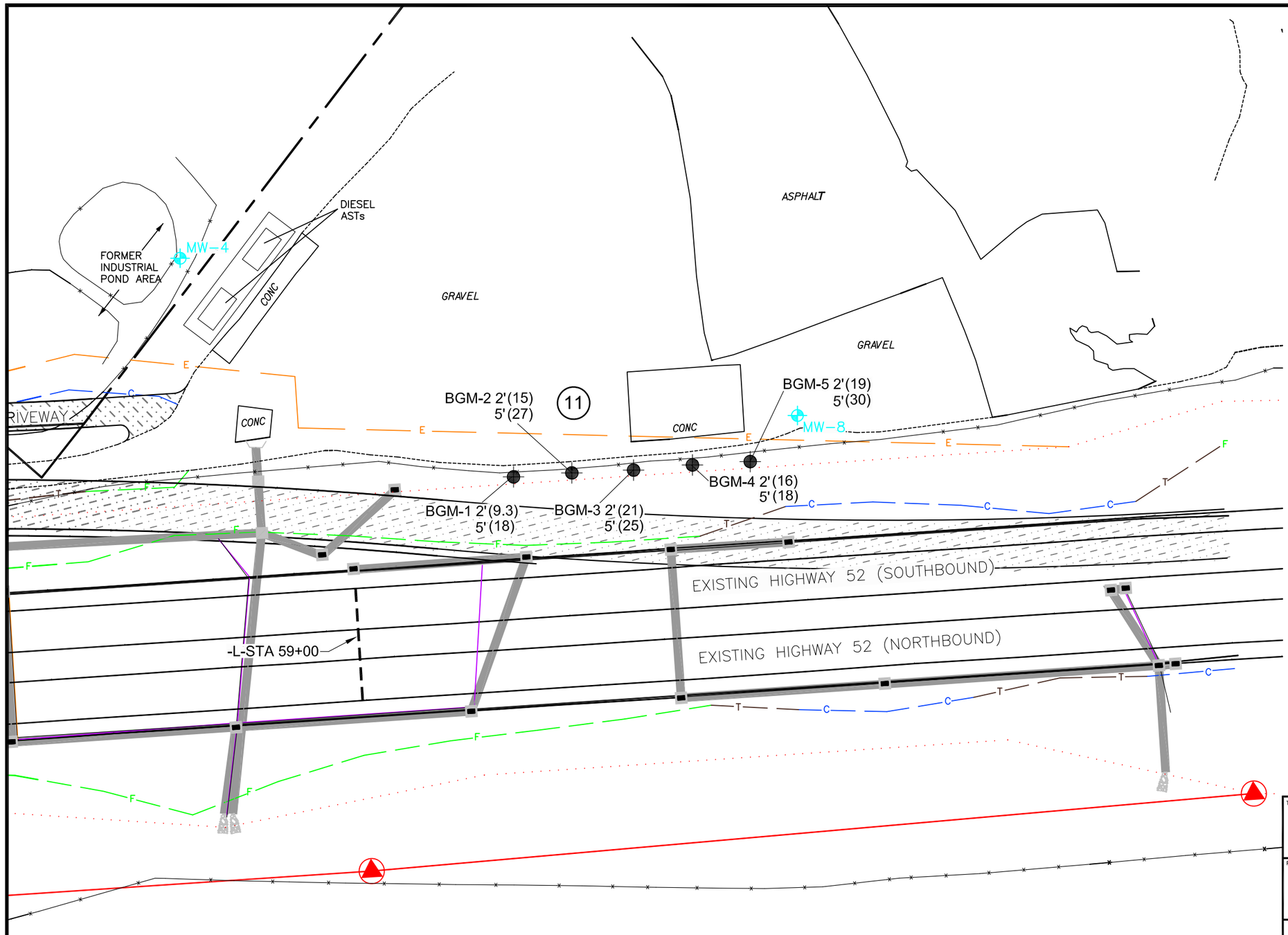
JOB NO: ROW-204	FIGURE NO. 7

S:\AAA-Master Projects\NC DOT Right-of-Way -ROW\ROW-204 Winston-Salem VCC\Figures\ROW-204.dwg, 6/12/2009 11:35:38 AM



LEGEND

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- C — PROPOSED CUT LINE
- F — PROPOSED FILL LINE
- T — PROPOSED TRANSITION LINE
- E — PROPOSED CONSTRUCTION EASEMENT
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- FENCE
- CB — PROPOSED CATCH BASIN
- CB — EXISTING CATCH BASIN
- SOIL BORING LOCATION (BACKGROUND SAMPLES)
- MONITORING WELL LOCATION
- (19) — TOTAL LEAD CONCENTRATION (mg/kg)
- 11 — PARCEL NUMBER

APPROXIMATE
0 60 120
SCALE IN FEET

TITLE
BACKGROUND LEAD DETECTION MAP PARCEL 11

PROJECT
NC DOT RIGHT OF WAY
WINSTON-SALEM, FORSYTH COUNTY, NC

Hart & Hickman
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JOB NO: ROW-204	FIGURE NO. 8

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FORMER VIRGINIA CAROLINA CHEMICAL

8

SB12 0.5'(5.1)

SB11 0.5'(4.4)

SB2 0.5'(5.2)

8-1 0.5' (NA)

8-2 0.5' (NA)

8-3 0.5'(5.53)

8-4 0.5' (NA)

8-5 0.5'(4.72)

8-6 0.5'(NA)

8-7 0.5'(4.81)

8-8 0.5'(NA)

8-9 0.5' (NA)

8-10 0.5' (NA)

8-11 0.5' (6.57)

8-12 0.5'(NA)

8-13 0.5'(NA)

MW-9

SB21 0.5'(5.5)

SB1 0.5'(5.6)

MW-31

MW-23

8-14 1'(5.27)
3'(4.82)

8-15 1' (5.67)
3' (6.82)

8-16 2' (NA)
7' (NA)

PROPOSED SOUTHBOUND DETOUR LANE

PROPOSED SOUTHBOUND DETOUR LANE

EXISTING HIGHWAY 52 (SOUTHBOUND)

EXISTING HIGHWAY 52 (NORTHBOUND)

-L-STA 53+00

CB

BFW-1 0.5'(7.60)
2' (NA)

BFW-2 0.5'(NA)
2'(NA)

BFW-3 0.5'(7.13)
2'(NA)

BFW-4 0.5'(7.78)
2' (NA)

BFW-5 0.5'(NA)
2'(NA)

BFW-6 0.5'(7.85)
2'(NA)

BRIDGE
FOUNDATION
WALL

SB10 0.5'(6.0)

9-1 1'(4.77)
5'(7.43)

9-2 1'(4.92)
5'(4.58)

RUINS

MW-A

SB20 0.5'(7.0)

FORMER CAROLINA ORE

9

RADIO
TOWER

BST

6" STL

1SBKBUS

APPROXIMATE
0 80 160
SCALE IN FEET

NOTES:

1. SOIL SAMPLES BY ARCADIS ARE ONLY SHOWN IF COLLECTED IN THE DOT RIGHT-OF-WAY AREA.
2. BECAUSE THE VCC AREA IS A PROPOSED DOT FILL AREA, ONLY SOIL SAMPLES FROM 0-0.5 ft ARE SHOWN.
3. ARCADIS DATA IS DRAFT DATA PENDING VALIDATION

LEGEND

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- C — PROPOSED CUT LINE
- F — PROPOSED FILL LINE
- T — PROPOSED TRANSITION LINE
- E — PROPOSED CONSTRUCTION EASEMENT
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- FENCE
- (5.53) pH VALUE
- (NA) NOT ANALYZED

- CB PROPOSED CATCH BASIN
- CB EXISTING CATCH BASIN
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- ARCADIS SOIL SAMPLE LOCATION
- (8) PARCEL NUMBER
- APPROXIMATE BOUNDARY OF FORMER VIRGINIA CAROLINA CHEMICAL
- APPROXIMATE BOUNDARY OF FORMER CAROLINA ORE

TITLE
pH DETECTION MAP
PARCEL 8, PARCEL 9 AND
BRIDGE FOUNDATION WALL

PROJECT
NC DOT RIGHT OF WAY
WINSTON SALEM, FORSYTH COUNTY, NC

Hart & Hickman
A PROFESSIONAL CORPORATION
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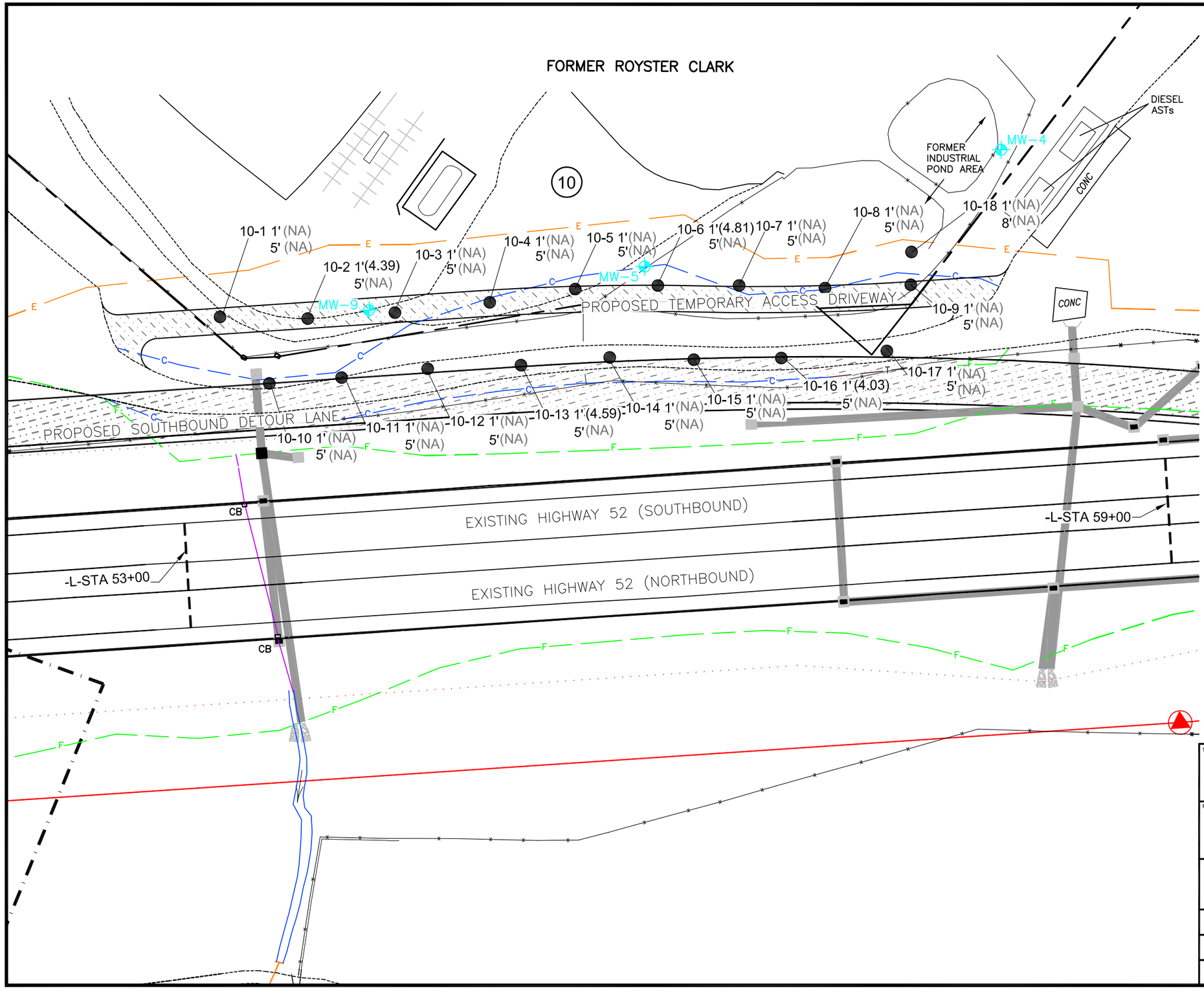
CREATED BY: NF	REVISED BY: NF
JOB NO: ROW-204	FIGURE NO. 9



LEGEND

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- C — PROPOSED CUT LINE
- F — PROPOSED FILL LINE
- T — PROPOSED TRANSITION LINE
- E — PROPOSED CONSTRUCTION EASEMENT
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- FENCE
- CB — PROPOSED CATCH BASIN
- CB — EXISTING CATCH BASIN
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- (4.03) — pH LEVEL
- (NA) — NOT ANALYZED
- (10) — PARCEL NUMBER

APPROXIMATE
0 60 120
SCALE IN FEET

TITLE
pH DETECTION MAP
PARCEL 10

PROJECT
NC DOT RIGHT OF WAY
WINSTON-SALEM, FORSYTH COUNTY, NC

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JOB NO: ROW-204	FIGURE NO. 10

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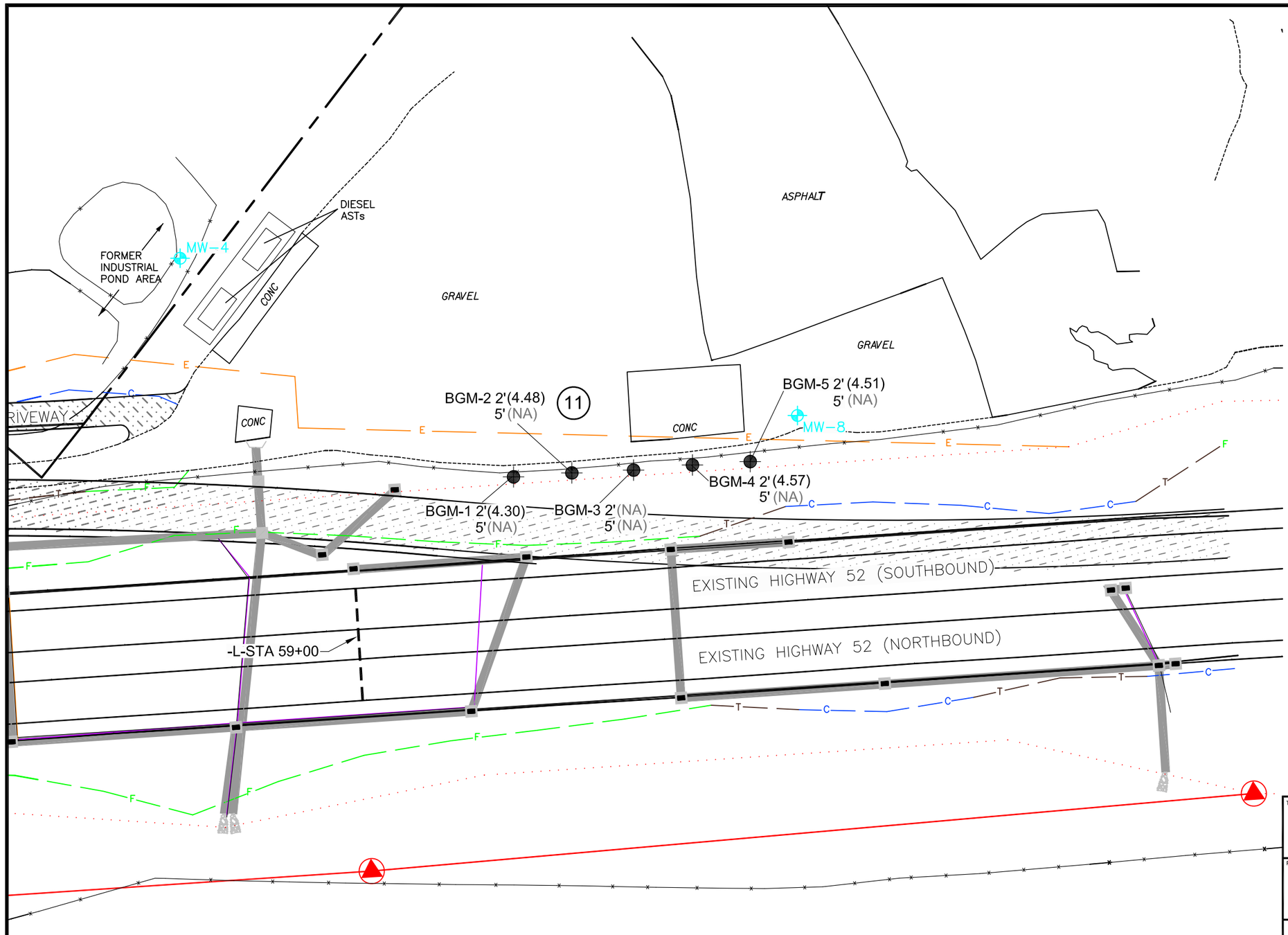

LEGEND

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- C — PROPOSED CUT LINE
- F — PROPOSED FILL LINE
- T — PROPOSED TRANSITION LINE
- E — PROPOSED CONSTRUCTION EASEMENT
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- FENCE
- CB — PROPOSED CATCH BASIN
- CB — EXISTING CATCH BASIN
- SOIL BORING LOCATION (BACKGROUND SAMPLES)
- MONITORING WELL LOCATION
- (4.51) — pH VALUE
- (NA) — NOT ANALYZED
- 11 — PARCEL NUMBER

APPROXIMATE
0 60 120
SCALE IN FEET

TITLE
BACKGROUND pH DETECTION MAP
PARCEL 11

PROJECT
NC DOT RIGHT OF WAY
WINSTON-SALEM, FORSYTH COUNTY, NC

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JOB NO: ROW-204	FIGURE NO. 11

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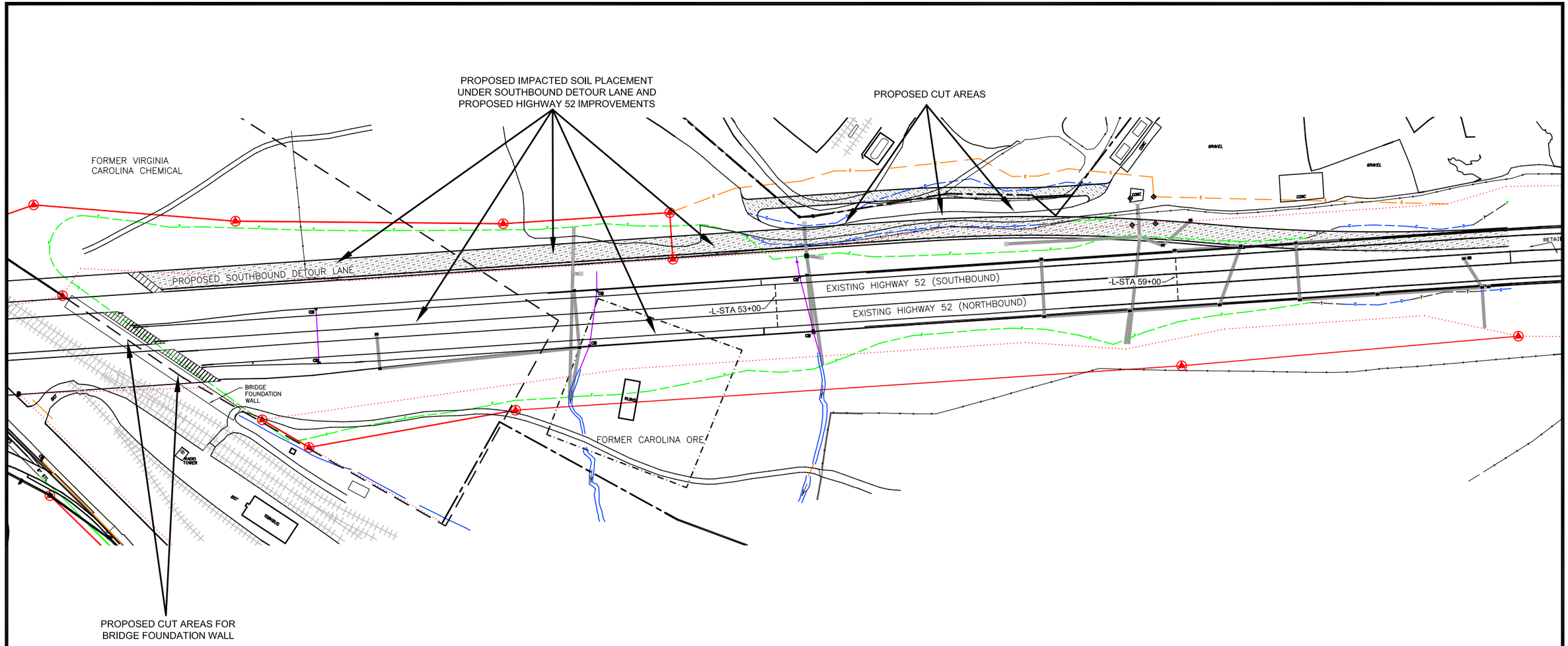

APPROXIMATE
0 150 300
SCALE IN FEET

LEGEND

- PROPERTY LINE
- EXISTING RIGHT–OF–WAY
- PROPOSED RIGHT–OF–WAY
- C — PROPOSED CUT LINE
- F — PROPOSED FILL LINE
- T — PROPOSED TRANSITION LINE
- E — PROPOSED CONSTRUCTION EASEMENT
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- FENCE

- CB — PROPOSED CATCH BASIN
- CB — EXISTING CATCH BASIN
- SOIL BORING LOCATION
- 8 — PARCEL NUMBER
- APPROXIMATE BOUNDARY OF FORMER VIRGINIA CAROLINA CHEMICAL
- APPROXIMATE BOUNDARY OF FORMER CAROLINA ORE

TITLE

CUT AREAS AND FILL PLACEMENT AREAS

PROJECT

NC DOT RIGHT OF WAY
WINSTON SALEM, FORSYTH COUNTY, NC

Hart & Hickman
A PROFESSIONAL CORPORATION
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
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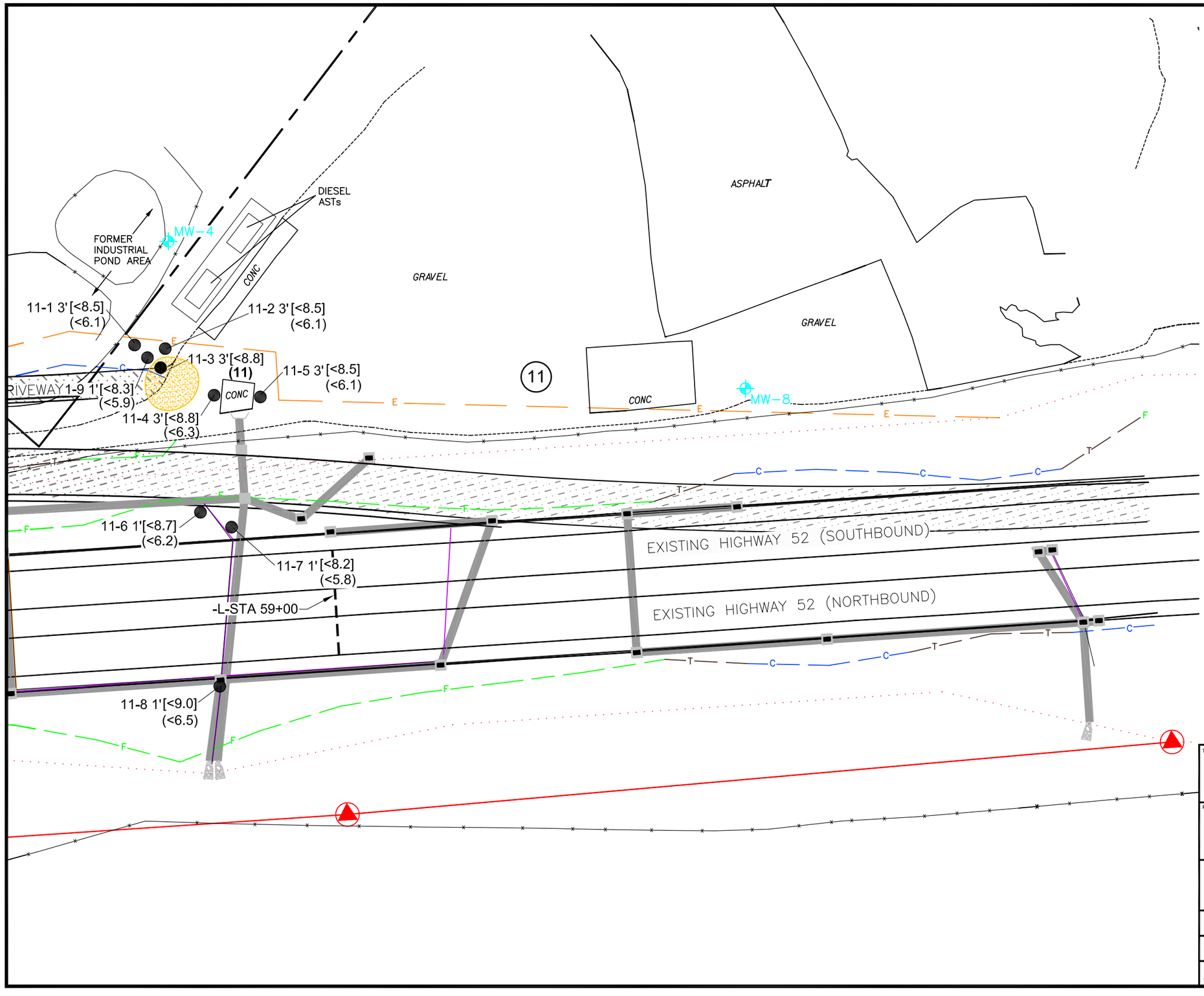
DATE: 6–4–09	REVISION NO. 0
CREATED BY: NF	REVISED BY: NF
JOB NO: ROW–204	FIGURE NO. 12



LEGEND

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- C — PROPOSED CUT LINE
- F — PROPOSED FILL LINE
- T — PROPOSED TRANSITION LINE
- E — PROPOSED CONSTRUCTION EASEMENT
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- FENCE
- CB — PROPOSED CATCH BASIN
- CB — EXISTING CATCH BASIN
- SOIL BORING LOCATION (BACKGROUND SAMPLES)
- MONITORING WELL LOCATION
- 11 — PARCEL NUMBER
- [<8.5] — TPH DRO (mg/kg)
- (<6.1) — TPH GRO (mg/kg)
- BOLD DENOTES EXCEEDANCE OF NC DENR ACTION LEVEL
- IMPACTED SOIL AREA

APPROXIMATE
0 60 120
SCALE IN FEET

TITLE

DRO & GRO DETECTION MAP PARCEL 11

PROJECT

NC DOT RIGHT OF WAY
WINSTON-SALEM, FORSYTH COUNTY, NC

Hart & Hickman
A PROFESSIONAL CORPORATION
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JOB NO: ROW-204	FIGURE NO. 13

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Appendix A

Soil Boring Logs

Hart & Hickman
ENVIRONMENTAL CONSULTANTS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER 8-1

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Slightly moist, brown-orange, clayey SAND		0
1						Bottom of borehole at 0.5 feet.		1

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 0.5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil sample collected between 0 ft and 0.5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:32 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 8.GPJ

Hart & Hickman
ENVIRONMENTAL CONSULTANTS

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER 8-2

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Slightly moist, brown-orange, clayey SAND		0
						Bottom of borehole at 0.5 feet.		
1								1

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 0.5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected between 0 ft and 0.5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:32 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 8.GPJ

Hart & Hickman
ENVIRONMENTAL CONSULTANTS

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Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER 8-3

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Slightly moist, brown-orange, clayey SAND		0
1						Bottom of borehole at 0.5 feet.		1

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 0.5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil sample collected between 0 ft and 0.5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:32 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 8.GPJ

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Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER 8-4

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Slightly moist, brown-orange, clayey SAND		0
1						Bottom of borehole at 0.5 feet.		1

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 0.5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil sample collected between 0 ft and 0.5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:32 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 8.GPJ

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ENVIRONMENTAL CONSULTANTS

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3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER 8-5

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Slightly moist, orange-brown, clayey SAND		0
						Bottom of borehole at 0.5 feet.		
1								1

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 0.5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected between 0 ft and 0.5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:32 - S:\AAA-MASTER.GINT PROJECTS\ROW-204\PARCEL 8.GPJ

Hart & Hickman
ENVIRONMENTAL CONSULTANTS

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3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER 8-6

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Slightly moist, brown-orange, clayey SAND		0
1						Bottom of borehole at 0.5 feet.		1

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 0.5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil sample collected between 0 ft and 0.5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:32 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 8.GPJ

Hart & Hickman
ENVIRONMENTAL CONSULTANTS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER 8-7

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Slightly moist, orange-brown, sandy CLAY		0
1						Bottom of borehole at 0.5 feet.		1

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 0.5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected between 0 ft and 0.5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:32 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 8.GPJ

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BORING NUMBER 8-8

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Slightly moist, brown-orange, clayey SAND		0
1						Bottom of borehole at 0.5 feet.		1

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 0.5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil sample collected between 0 ft and 0.5 ft for laboratory analysis.

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BORING NUMBER 8-9

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Slightly moist, brown-orange, clayey SAND		0
1						Bottom of borehole at 0.5 feet.		1

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 0.5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil sample collected between 0 ft and 0.5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:32 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 8.GPJ

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BORING NUMBER 8-10

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Slightly moist, brown-orange, clayey SAND		0
						Bottom of borehole at 0.5 feet.		
1								1

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 0.5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected between 0 ft and 0.5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:32 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 8.GPJ

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BORING NUMBER 8-11

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Slighly moist, gray-brown, sandy SILT		0
1						Bottom of borehole at 0.5 feet.		1

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 0.5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected between 0 ft and 0.5 ft for laboratory analysis.

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BORING NUMBER 8-12

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Slightly moist, brown-gray, SAND		0
1						Bottom of borehole at 0.5 feet.		1

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 0.5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected between 0 ft and 0.5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:32 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 8.GPJ

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BORING NUMBER 8-13

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Slightly moist, brown-gray SAND		0
1						Bottom of borehole at 0.5 feet.		1

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 0.5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected between 0 ft and 0.5 ft for laboratory analysis.

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BORING NUMBER 8-14

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Slightly moist, orange-brown, clayey SAND		0
1								1
2								2
3						Bottom of borehole at 3.0 feet.		3
4								4

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 3
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil samples collected at 1 ft and 3 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:32 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 8.GPJ

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BORING NUMBER 8-15

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Red-brown, silty CLAY		0
1								1
2						Dark brown, silty CLAY		2
3						Bottom of borehole at 3.0 feet.		3
4								4

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 3
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 3 ft for laboratory analysis.

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BORING NUMBER 8-16

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0.0						Dry, red, silty CLAY		0.0
2.5						Dry, light red, sandy, silty CLAY		2.5
5.0								5.0
7.5						Bottom of borehole at 7.0 feet.		7.5

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 7
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil samples collected at 2 ft and 7 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 11:49 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 8.GPJ

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BORING NUMBER 9-1

PROJECT: NC DOT State Project U-2826A - Parcel 9
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Moist, red, silty CLAY		0
1								1
2								2
3						Brown-black, clayey SILT		3
4								4
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:33 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 9.GPJ

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BORING NUMBER 9-2

PROJECT: NC DOT State Project U-2826A - Parcel 9
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Moist, brown-black, sandy SILT		0
3						Moist, red-brown, sandy, silty CLAY with PWR		3
5						Bottom of borehole at 5.0 feet.		5

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:33 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 9.GPJ

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BORING NUMBER BFW-1

PROJECT: NC DOT State Project U-2826A - Bridge Foundation Wall
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Grass and topsoil		0
						Dry, black, sandy SILT		
1								1
2						Bottom of borehole at 2.0 feet.		2
3								3

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 2
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 0.5 and 2 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:32 - S:\AAA-MASTER GINT PROJECTS\ROW-204\BRIDGE FOUNDATION WALL.GPJ

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BORING NUMBER BFW-2

PROJECT: NC DOT State Project U-2826A - Bridge Foundation Wall
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Gravel		0
						Dry, firm, red, silty CLAY		
1						Dry, firm, black, silty CLAY		1
2						Bottom of borehole at 2.0 feet.		2
3								3

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 2
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil samples collected at 0.5 and 2 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:32 - S:\AAA-MASTER GINT PROJECTS\ROW-204\BRIDGE FOUNDATION WALL.GPJ

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BORING NUMBER BFW-3

PROJECT: NC DOT State Project U-2826A - Bridge Foundation Wall
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Gravel		0
						Dry, firm, black, sandy SILT		
1								1
2						Bottom of borehole at 2.0 feet.		2
3								3

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 2
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 0.5 and 2 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:32 - S:\AAA-MASTER GINT PROJECTS\ROW-204\BRIDGE FOUNDATION WALL.GPJ

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BORING NUMBER BFW-4

PROJECT: NC DOT State Project U-2826A - Bridge Foundation Wall
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Gravel		0
						Moist, firm, red-black, silty CLAY		
1								1
2						Bottom of borehole at 2.0 feet.		2
3								3

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 2
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 0.5 and 2 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:32 - S:\AAA-MASTER GINT PROJECTS\ROW-204\BRIDGE FOUNDATION WALL.GPJ

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BORING NUMBER BFW-5

PROJECT: NC DOT State Project U-2826A - Bridge Foundation Wall
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Dry, firm, black, sandy CLAY		0
1								1
2						Bottom of borehole at 2.0 feet.		2
3								3

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 2
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 0.5 and 2 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:32 - S:\AAA-MASTER.GINT PROJECTS\ROW-204\BRIDGE FOUNDATION WALL.GPJ

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BORING NUMBER BFW-6

PROJECT: NC DOT State Project U-2826A - Bridge Foundation Wall
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Dry, firm, black, silty, sandy CLAY		0
1								1
2						Bottom of borehole at 2.0 feet.		2
3								3

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 2
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil samples collected at 0.5 and 2 ft for laboratory analysis.

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BORING NUMBER 10-1

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PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Grass and topsoil		0
						Moist, firm, brown, silty CLAY		
1						Moist, light brown, sandy SILT		1
2								2
3						Dry, firm, red, silty CLAY		3
4								4
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil samples collected at 1 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:33 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 10.GPJ

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BORING NUMBER 10-2

PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Grass and topsoil	
						Moist, firm, dark to light brown, silty CLAY	
4						Dry, firm, red silty CLAY	
5						Bottom of borehole at 5.0 feet.	

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:33 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 10.GPJ

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BORING NUMBER 10-3

PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Grass and topsoil		0
						Dry, firm, red to brown, silty CLAY		
1								1
2								2
3								3
4						Dry, firm, light red, silty CLAY with PWR		4
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 5 ft for laboratory analysis.

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BORING NUMBER 10-4

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PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Grass and topsoil		0
						Dry, firm, brown to red, silty CLAY		
5						Bottom of borehole at 5.0 feet.		5

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil samples collected at 1 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:33 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 10.GPJ

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BORING NUMBER 10-5

PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Grass and topsoil		0
						Dry, firm, brown to red, silty CLAY		
5						Bottom of borehole at 5.0 feet.		5

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 5 ft for laboratory analysis.

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BORING NUMBER 10-6

PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Grass and topsoil		0
						Dry, firm, light brown, sandy, silty CLAY		
1						Dry, firm, light brown, sandy, silty CLAY with PWR		1
2						Dry, firm, red, sandy, silty CLAY		2
3								3
4								4
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:33 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 10.GPJ

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BORING NUMBER 10-7

PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Grass and topsoil		0
						Dry, firm, brown, silty CLAY		
1								1
2								2
3								3
4								4
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 5 ft for laboratory analysis.

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BORING NUMBER 10-8

PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Grass and topsoil		0
						Dry, firm, brown, silty CLAY		
1								1
2								2
3								3
4								4
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 5 ft for laboratory analysis.

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BORING NUMBER 10-9

PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Dry, firm, light brown, silty CLAY with PWR		0
5						Bottom of borehole at 5.0 feet.		5

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil samples collected at 1 ft and 5 ft for laboratory analysis.

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BORING NUMBER 10-10

PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Gravel		0
						Dry, firm, red, silty CLAY		
1								1
2								2
3								3
4						Dry, firm, light brown, silty CLAY		4
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 5 ft for laboratory analysis.

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BORING NUMBER 10-11

PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Gravel		0
						Dry, firm, red, silty CLAY		
1								1
2								2
3								3
4								4
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:33 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 10.GPJ

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BORING NUMBER 10-12

PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Gravel		0
						Dry, firm, red, silty CLAY		
1								1
2								2
3								3
4						Dry, firm, red, sandy, silty CLAY		4
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:33 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 10.GPJ

BORING NUMBER 10-13

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PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Gravel		0
						Dry, light brown, silty SAND with PWR		
1								1
2								2
3								3
4								4
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 5 ft for laboratory analysis.

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BORING NUMBER 10-14

PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Gravel		0
						Dry, light brown, sandy SILT with PWR		
1								1
2								2
3								3
4								4
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil samples collected at 1 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:33 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 10.GPJ

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BORING NUMBER 10-15

PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Gravel	
						Dry, light brown, sandy SILT with PWR	
5						Bottom of borehole at 5.0 feet.	

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:33 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 10.GPJ

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BORING NUMBER 10-16

PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Gravel	
						Dry, firm, red, sandy, silty CLAY	
1							
2							
3						Dry, firm, red, silty CLAY	
4							
5						Bottom of borehole at 5.0 feet.	
6							

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:33 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 10.GPJ

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BORING NUMBER 10-17

PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Gravel	
						Dry, firm, red, silty CLAY	
5						Bottom of borehole at 5.0 feet.	

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:33 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 10.GPJ

BORING NUMBER 10-18

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PROJECT: NC DOT State Project U-2826A - Parcel 10
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0.0						Grass and topsoil		0.0
						Dry, firm brown, silty CLAY with gravel		
2.5								2.5
5.0								5.0
						Dry, firm, light brown, silty CLAY		
7.5								7.5
						Bottom of borehole at 8.0 feet.		

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 8
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 8 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:33 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 10.GPJ

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BORING NUMBER BGM-1

PROJECT: NC DOT State Project U-2826A - Parcel 11
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Gravel		0
						Dry, firm, red, silty CLAY		
1								1
2								2
3								3
4								4
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 2 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:34 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 11.GPJ

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BORING NUMBER BGM-2

PROJECT: NC DOT State Project U-2826A - Parcel 11
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Dry, firm, brown to red, silty CLAY		0
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 2 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:34 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 11.GPJ

Hart & Hickman
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704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER BGM-3

PROJECT: NC DOT State Project U-2826A - Parcel 11
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Gravel		0
						Dry, firm, red, silty CLAY		
1								1
2								2
3								3
4								4
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 2 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:34 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 11.GPJ

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BORING NUMBER BGM-4

PROJECT: NC DOT State Project U-2826A - Parcel 11
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Gravel		0
						Dry, firm, red, silty CLAY		
1								1
2								2
3								3
4								4
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 2 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:34 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 11.GPJ

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BORING NUMBER BGM-5

PROJECT: NC DOT State Project U-2826A - Parcel 11
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Gravel	
						Dry, firm, red, silty CLAY	
5						Bottom of borehole at 5.0 feet.	

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil samples collected at 2 ft and 5 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:34 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 11.GPJ

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BORING NUMBER Comp-1 (A)

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Red-brown, silty CLAY		0
1								1
2						Dark brown, silty CLAY		2
3						Bottom of borehole at 3.0 feet.		3
4								4

DRILLING CONTRACTOR:
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 5/5/09
BORING COMPLETED: 5/5/09
TOTAL DEPTH: 3
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected from 1 ft and 3 ft for composite sample Comp-1.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 11:37 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 8.GPJ

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BORING NUMBER Comp-1 (B)

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0.0						Dry, red, silty CLAY		0.0
2.5						Dry, light red, sandy, silty CLAY		2.5
5.0								5.0
7.5						Bottom of borehole at 7.0 feet.		7.5

DRILLING CONTRACTOR:
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 5/5/09
BORING COMPLETED: 5/5/09
TOTAL DEPTH: 7
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil sample collected from 2 ft and 7 ft for composite sample Comp-1.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 11:49 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 8.GPJ

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BORING NUMBER Comp-1 (C)

PROJECT: NC DOT State Project U-2826A - Parcel #8
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0.0						Dry, red, silty CLAY		0.0
2.5						Dry, red, sandy, silty CLAY		2.5
5.0								5.0
7.5						Bottom of borehole at 7.0 feet.		7.5

DRILLING CONTRACTOR:
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 5/5/09
BORING COMPLETED: 5/5/09
TOTAL DEPTH: 7
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil sample collected from 2 ft and 7 ft for composite sample Comp-1.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 11:37 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 8.GPJ

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BORING NUMBER Comp-2 (A)

PROJECT: NC DOT State Project U-2826A - Parcel 9
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Moist, red, silty CLAY		0
1								1
2								2
3						Brown-black, clayey SILT		3
4								4
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR:
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 5/5/09
BORING COMPLETED: 5/5/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil samples collected at 1 ft and 5 ft for composite sample Comp-2.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 11:42 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 9.GPJ

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Raleigh, North Carolina 27607
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BORING NUMBER Comp-2 (B)

PROJECT: NC DOT State Project U-2826A - Parcel 9
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Slightly moist, red, silty CLAY		0
5						Bottom of borehole at 5.0 feet.		5
6								6

DRILLING CONTRACTOR:
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 5/5/09
BORING COMPLETED: 5/5/09
TOTAL DEPTH: 5
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil samples collected at 1 ft and 5 ft for composite sample Comp-2.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 11:42 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 9.GPJ

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919-847-4241(p) 919-847-4281(f)

BORING NUMBER 11-1

PROJECT: NC DOT State Project U-2826A - Parcel 11
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Grass and topsoil		0
						Dry, firm, light red, sandy, silty CLAY		
1			0	3.2				1
2			0.1	11.1				2
3						Dry, firm, red, silty CLAY		3
			0	5.9				
4						Bottom of borehole at 4.0 feet.		4
5								5

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 4
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil sample collected at 3 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:34 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 11.GPJ

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BORING NUMBER 11-2

PROJECT: NC DOT State Project U-2826A - Parcel 11
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Grass and gravel	
						Dry, firm, light red, silty CLAY	
1			0	0.6			
2			0	0.9			
3			0	0.8			
4						Bottom of borehole at 4.0 feet.	
5							

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 4
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil sample collected at 3 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:34 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 11.GPJ

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BORING NUMBER 11-3

PROJECT: NC DOT State Project U-2826A - Parcel 11
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Grass and topsoil		0
1			0	0.5		Dry, firm, red, silty CLAY		1
2			0	16				2
3			0	2.3				3
4						Bottom of borehole at 4.0 feet.		4
5								5

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 4
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil sample collected at 3 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:34 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 11.GPJ

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BORING NUMBER 11-4

PROJECT: NC DOT State Project U-2826A - Parcel 11
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Gravel		0
						Moist, firm, red, silty CLAY		
1			0	0.2				1
2			0	2.3				2
3								3
4						Bottom of borehole at 4.0 feet.		4
5								5

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 4
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil sample collected at 3 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/5/09 11:02 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 11.GPJ

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BORING NUMBER 11-5

PROJECT: NC DOT State Project U-2826A - Parcel 11
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Gravel		0
						Moist, firm, red, silty CLAY		
1			0	1.4				1
2			0	3.8				2
3								3
4						Bottom of borehole at 4.0 feet.		4
5								5

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 4
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil sample collected at 3 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/5/09 11:02 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 11.GPJ

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BORING NUMBER 11-6

PROJECT: NC DOT State Project U-2826A - Parcel 11
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Slightly moist, brown-orange, clayey SAND	
1			0	1.6			
			0	0.9			
2							
			0	0.9			
3						Slightly moist, brown-orange, clayey SAND with gravel	
			0	1.3			
4						Bottom of borehole at 4.0 feet.	
5							

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 4
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil sample collected at 1 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:34 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 11.GPJ

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BORING NUMBER 11-7

PROJECT: NC DOT State Project U-2826A - Parcel 11
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Slightly moist, brown-orange, clayey SAND		0
			0	2.5				
1								1
			0	1.3				
2								2
			0	1				
3								3
			0	1.1				
4						Bottom of borehole at 4.0 feet.		4
5								5

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 4
SURFACE ELEV:
DEPTH TO WATER:

Remarks:

Soil sample collected at 1 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:34 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 11.GPJ

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BORING NUMBER 11-8

PROJECT: NC DOT State Project U-2826A - Parcel 11
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0						Moist, brown-orange, sandy CLAY		0
			0	1.5				
1								1
			0	0.8				
2								2
			0	0.5				
3						Moist, brown-gray, sandy CLAY		3
			0	0.9				
4						Bottom of borehole at 4.0 feet.		4
5								5

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Hand Auger
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/24/09
BORING COMPLETED: 3/24/09
TOTAL DEPTH: 4
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 1 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/4/09 10:34 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 11.GPJ

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BORING NUMBER 11-9

PROJECT: NC DOT State Project U-2826A - Parcel 11
JOB NUMBER: ROW-204
LOCATION: Winston-Salem, NC

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Gravel	
			0	1.7		Dry, firm, red to light red, silty CLAY	
1			0	0.8			
2			0	1.5			
3							
4						Bottom of borehole at 4.0 feet.	
5							

DRILLING CONTRACTOR: SEI
DRILL RIG/ METHOD: Geoprobe 6620DT
SAMPLING METHOD:
LOGGED BY BMB
DRAWN BY:

BORING STARTED 3/23/09
BORING COMPLETED: 3/23/09
TOTAL DEPTH: 4
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 1 ft for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 6/5/09 11:02 - S:\AAA-MASTER GINT PROJECTS\ROW-204\PARCEL 11.GPJ

Appendix B

Laboratory Analytical Reports - Soil

PRISM LABORATORIES, INC.

Case Narrative (Revised)

Date:	05/26/09	**Client Project ID:**	ROW-204
Company:	North Carolina Department of Transportation	**Prism COC Group No:**	G0309633
Contact:	David Graham	**Collection Date(s):**	03/23/09
Address:	c/o Hart and Hickman	**Lab Submittal Date(s):**	03/23/09
	2923 South Tryon St. Ste 100		
	Charlotte, NC 28203	**Client Project Name Or No:**	Winston Salem WBS# 34871.1.1

This is a revised report and supersedes our original laboratory report dated 4/2/09. Client added TCLP Metals to Sample ID 10-15-5.

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 50 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

N/A

Volatile Analysis

N/A

Metals Analysis

Analysis Note for Q40186 MS Arsenic: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (77%) is outside the acceptance limits (80-120%).

Analysis Note for Q40186 MS Lead: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (64%) is outside the acceptance limits (80-120%).

Analysis Note for Q40186 MSD Arsenic: MSD recovery outside the control limits.

Analysis Note for Q40186 MSD Lead: MSD recovery outside the control limits.

Analysis Note for Q40216 MS Lead: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (75%) is outside the acceptance limits (80-120%).

Analysis Note for Q40216 MSD Lead: MSD recovery outside the control limits.

Wet Lab and Micro Analysis

No Anomalies Reported

Please call if you have any questions relating to this analytical report.

Data Reviewed by:	Robbi A. Jones	**Project Manager:**	Angela D. Overcash
Signature:	Robbi A. Jones	**Signature:**	
Review Date:	05/26/09	**Approval Date:**	05/26/09

Data Qualifiers Key Reference:

B: Compound also detected in the method blank.
#: Result outside of the QC limits.
DO: Compound diluted out.
E: Estimated concentration, calibration range exceeded.
J: The analyte was positively identified but the value is estimated below the reporting limit.
H: Estimated concentration with a high bias.
L: Estimated concentration with a low bias.
M: A matrix effect is present.

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BGM-1-2
Prism Sample ID: 241338
COC Group: G0309633
Time Collected: 03/23/09 10:06
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	82.9	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	1.8	mg/kg	0.59	0.058	1	6010B	03/25/09 22:24	heasler	Q40185
Lead	9.3	mg/kg	0.29	0.023	1	6010B	03/25/09 22:24	heasler	Q40185
Sample Preparation:				2.05 g /	50 mL	3050B	03/25/09 9:15	mbarber	P24088
pH Value, Electrometric Method									
pH	4.30	pH units			1	9045C	03/24/09 15:25	kpowers	Q40150

Sample Comment(s):

BRL = Below Reporting Limit

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All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BGM-1-5
Prism Sample ID: 241339
COC Group: G0309633
Time Collected: 03/23/09 10:07
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**80.2**	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	**0.92**	mg/kg	0.62	0.061	1	6010B	03/25/09 22:44	heasler	Q40185
Lead	**18**	mg/kg	0.31	0.024	1	6010B	03/25/09 22:44	heasler	Q40185
Sample Preparation:				2.01 g /	50 mL	3050B	03/25/09 9:15	mbarber	P24088

Sample Comment(s):

BRL = Below Reporting Limit

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Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BGM-2-2
Prism Sample ID: 241340
COC Group: G0309633
Time Collected: 03/23/09 9:45
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	81.5	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	1.8	mg/kg	0.62	0.061	1	6010B	03/25/09 22:50	heasler	Q40185
Lead	15	mg/kg	0.31	0.024	1	6010B	03/25/09 22:50	heasler	Q40185
Sample Preparation:			1.99 g	/	50 mL	3050B	03/25/09 9:15	mbarber	P24088
pH Value, Electrometric Method									
pH	4.48	pH units			1	9045C	03/24/09 15:26	kpowers	Q40150

Sample Comment(s):

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05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BGM-2-5
Prism Sample ID: 241341
COC Group: G0309633
Time Collected: 03/23/09 9:50
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	79.7	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	1.6	mg/kg	0.62	0.061	1	6010B	03/25/09 22:56	heasler	Q40185
Lead	27	mg/kg	0.31	0.024	1	6010B	03/25/09 22:56	heasler	Q40185
Sample Preparation:				2.02 g /	50 mL	3050B	03/25/09 9:15	mbarber	P24088

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BGM-3-2
Prism Sample ID: 241342
COC Group: G0309633
Time Collected: 03/23/09 9:55
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	76.0	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	3.3	mg/kg	0.65	0.064	1	6010B	03/25/09 23:02	heasler	Q40185
Lead	21	mg/kg	0.33	0.025	1	6010B	03/25/09 23:02	heasler	Q40185
Sample Preparation:				2.02 g /	50 mL	3050B	03/25/09 9:15	mbarber	P24088

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BGM-3-5
Prism Sample ID: 241343
COC Group: G0309633
Time Collected: 03/23/09 10:00
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	77.4	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	1.7	mg/kg	0.63	0.062	1	6010B	03/25/09 23:09	heasler	Q40185
Lead	25	mg/kg	0.32	0.024	1	6010B	03/25/09 23:09	heasler	Q40185
Sample Preparation:				2.05 g /	50 mL	3050B	03/25/09 9:15	mbarber	P24088

Sample Comment(s):

BRL = Below Reporting Limit

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North Carolina Department of Transportation
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c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BGM-4-2
Prism Sample ID: 241344
COC Group: G0309633
Time Collected: 03/23/09 10:02
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	78.5	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	1.8	mg/kg	0.64	0.063	1	6010B	03/25/09 23:26	heasler	Q40185
Lead	16	mg/kg	0.32	0.025	1	6010B	03/25/09 23:26	heasler	Q40185
Sample Preparation:				2 g /	50 mL	3050B	03/25/09 9:15	mbarber	P24088
pH Value, Electrometric Method									
pH	4.57	pH units			1	9045C	03/24/09 15:27	kpowers	Q40150

Sample Comment(s):

BRL = Below Reporting Limit

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BGM-4-5
Prism Sample ID: 241345
COC Group: G0309633
Time Collected: 03/23/09 10:03
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	81.8	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	1.7	mg/kg	0.60	0.059	1	6010B	03/25/09 23:32	heasler	Q40185
Lead	18	mg/kg	0.30	0.023	1	6010B	03/25/09 23:32	heasler	Q40185
Sample Preparation:				2.04 g /	50 mL	3050B	03/25/09 9:15	mbarber	P24088

Sample Comment(s):

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05/26/09

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BGM-5-5
Prism Sample ID: 241346
COC Group: G0309633
Time Collected: 03/23/09 10:05
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	81.6	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	1.5	mg/kg	0.61	0.060	1	6010B	03/25/09 23:39	heasler	Q40185
Lead	30	mg/kg	0.30	0.024	1	6010B	03/25/09 23:39	heasler	Q40185
Sample Preparation:				2.01 g /	50 mL	3050B	03/25/09 9:15	mbarber	P24088

Sample Comment(s):

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BGM-5-2
Prism Sample ID: 241347
COC Group: G0309633
Time Collected: 03/23/09 10:04
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	79.3	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	2.2	mg/kg	0.62	0.062	1	6010B	03/25/09 23:46	heasler	Q40185
Lead	19	mg/kg	0.31	0.024	1	6010B	03/25/09 23:46	heasler	Q40185
Sample Preparation:				2.02 g /	50 mL	3050B	03/25/09 9:15	mbarber	P24088
pH Value, Electrometric Method									
pH	4.51	pH units			1	9045C	03/24/09 15:28	kpowers	Q40150

Sample Comment(s):

BRL = Below Reporting Limit

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Attn: David Graham
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 11-1-3
Prism Sample ID: 241348
COC Group: G0309633
Time Collected: 03/23/09 10:45
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	82.4	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.5	1.4	1	8015B	03/25/09 15:49	jvogel	Q40188
Sample Preparation:			25.02 g	/	1 mL	3545	03/25/09 10:00	pbarr	P24094

Surrogate	% Recovery	Control Limits
o-Terphenyl	99	49 - 124

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	6.52	g			1	GRO	03/24/09 0:00	lbrown	
Weight 2	6.53	g			1	GRO	03/24/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.1	3.8	50	8015B	03/25/09 20:48	dlamm	Q40178

Surrogate	% Recovery	Control Limits
aaa-TFT	65	55 - 129

Sample Comment(s):

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Laboratory Report

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North Carolina Department of Transportation
Attn: David Graham
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 11-2-3
Prism Sample ID: 241349
COC Group: G0309633
Time Collected: 03/23/09 10:55
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**82.1**	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**BRL**	mg/kg	8.5	1.4	1	8015B	03/25/09 16:24	jvogel	Q40188
Sample Preparation:			25.03 g	/	1 mL	3545	03/25/09 10:00	pbarr	P24094

Surrogate	% Recovery	Control Limits
o-Terphenyl	87	49 - 124

Sample Weight Determination									
Weight 1	**4.47**	g			1	GRO	03/24/09 0:00	lbrown	
Weight 2	**5.70**	g			1	GRO	03/24/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	6.1	3.8	50	8015B	03/25/09 21:20	dliamm	Q40178

Surrogate	% Recovery	Control Limits
aaa-TFT	126	55 - 129

Sample Comment(s):

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 11-3-3
Prism Sample ID: 241350
COC Group: G0309633
Time Collected: 03/23/09 10:35
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	79.0	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.8	1.4	1	8015B	03/25/09 16:59	jvogel	Q40188
Sample Preparation:			25.04 g	/	1 mL	3545	03/25/09 10:00	pbarr	P24094

Surrogate	% Recovery	Control Limits
o-Terphenyl	79	49 - 124

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	5.95	g			1	GRO	03/24/09 0:00	lbrown	
Weight 2	6.47	g			1	GRO	03/24/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	11	mg/kg	6.3	4.0	50	8015B	03/26/09 9:45	dliamm	Q40178

Surrogate	% Recovery	Control Limits
aaa-TFT	100	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

North Carolina Department of Transportation
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Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 11-4-3
Prism Sample ID: 241351
COC Group: G0309633
Time Collected: 03/23/09 10:30
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**79.5**	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**BRL**	mg/kg	8.8	1.4	1	8015B	03/25/09 18:10	jvogel	Q40188
Sample Preparation:				25 g /	1 mL	3545	03/25/09 10:00	pbarr	P24094

Surrogate	% Recovery	Control Limits
o-Terphenyl	53	49 - 124

Sample Weight Determination									
Weight 1	**6.33**	g			1	GRO	03/24/09 0:00	lbrown	
Weight 2	**6.35**	g			1	GRO	03/24/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	6.3	3.9	50	8015B	03/26/09 10:17	dliamm	Q40178

Surrogate	% Recovery	Control Limits
aaa-TFT	75	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

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All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 11-5-3
Prism Sample ID: 241352
COC Group: G0309633
Time Collected: 03/23/09 10:20
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	82.1	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.5	1.4	1	8015B	03/25/09 17:35	jvogel	Q40188
Sample Preparation:			25.09 g	/	1 mL	3545	03/25/09 10:00	pbarr	P24094

Surrogate	% Recovery	Control Limits
o-Terphenyl	50	49 - 124

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	6.12	g			1	GRO	03/24/09 0:00	lbrown	
Weight 2	6.10	g			1	GRO	03/24/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.1	3.8	50	8015B	03/25/09 22:54	dliamm	Q40178

Surrogate	% Recovery	Control Limits
aaa-TFT	55	55 - 129

Sample Comment(s):

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-10-1
Prism Sample ID: 241353
COC Group: G0309633
Time Collected: 03/23/09 11:48
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**82.1**	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	**4.7**	mg/kg	0.61	0.061	1	6010B	03/25/09 23:53	heasler	Q40185
Lead	**57**	mg/kg	0.31	0.024	1	6010B	03/25/09 23:53	heasler	Q40185
Sample Preparation:				1.99 g /	50 mL	3050B	03/25/09 9:15	mbarber	P24088

Sample Comment(s):

BRL = Below Reporting Limit

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05/26/09

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Attn: David Graham
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-10-5
Prism Sample ID: 241354
COC Group: G0309633
Time Collected: 03/23/09 11:50
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	80.2	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	6.5	mg/kg	0.62	0.061	1	6010B	03/26/09 0:00	heasler	Q40185
Lead	19	mg/kg	0.31	0.024	1	6010B	03/26/09 0:00	heasler	Q40185
Sample Preparation:				2.01 g /	50 mL	3050B	03/25/09 9:15	mbarber	P24088

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-11-1
Prism Sample ID: 241355
COC Group: G0309633
Time Collected: 03/23/09 11:44
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	78.9	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	11	mg/kg	0.63	0.062	1	6010B	03/26/09 0:05	heasler	Q40185
Lead	24	mg/kg	0.31	0.024	1	6010B	03/26/09 0:05	heasler	Q40185
Sample Preparation:				2.02 g /	50 mL	3050B	03/25/09 9:15	mbarber	P24088

Sample Comment(s):

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Laboratory Report

05/26/09

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Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-11-5
Prism Sample ID: 241356
COC Group: G0309633
Time Collected: 03/23/09 11:45
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	77.7	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	13	mg/kg	0.64	0.063	1	6010B	03/26/09 0:11	heasler	Q40185
Lead	62	mg/kg	0.32	0.025	1	6010B	03/26/09 0:11	heasler	Q40185
Sample Preparation:				2.01 g /	50 mL	3050B	03/25/09 9:15	mbarber	P24088

Sample Comment(s):

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Laboratory Report

05/26/09

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Attn: David Graham
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-12-1
Prism Sample ID: 241357
COC Group: G0309633
Time Collected: 03/23/09 11:38
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	87.6	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	9.7	mg/kg	0.57	0.057	1	6010B	03/26/09 0:49	heasler	Q40186
Lead	46	mg/kg	0.29	0.022	1	6010B	03/26/09 0:49	heasler	Q40186
Sample Preparation:				2 g /	50 mL	3050B	03/25/09 10:25	mbarber	P24087

Sample Comment(s):

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Laboratory Report

05/26/09

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Attn: David Graham
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-12-5
Prism Sample ID: 241358
COC Group: G0309633
Time Collected: 03/23/09 11:39
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	86.8	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	1.0	mg/kg	0.58	0.057	1	6010B	03/26/09 1:08	heasler	Q40186
Lead	27	mg/kg	0.29	0.022	1	6010B	03/26/09 1:08	heasler	Q40186
Sample Preparation:				2 g /	50 mL	3050B	03/25/09 10:25	mbarber	P24087

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-13-1[illegible]
Prism Sample ID: 241359
COC Group: G0309633
Time Collected: 03/23/09 11:32
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**88.6**	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	**5.4**	mg/kg	0.55	0.055	1	6010B	03/26/09 1:14	heasler	Q40186
Lead	**18**	mg/kg	0.28	0.021	1	6010B	03/26/09 1:14	heasler	Q40186
Sample Preparation:			2.05 g	/	50 mL	3050B	03/25/09 10:25	mbarber	P24087
pH Value, Electrometric Method									
pH	**4.59**	pH units			1	9045C	03/24/09 15:29	kpowers	Q40150

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-13-5
Prism Sample ID: 241360
COC Group: G0309633
Time Collected: 03/23/09 11:34
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	88.9	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	9.8	mg/kg	0.55	0.054	1	6010B	03/26/09 1:21	heasler	Q40186
Lead	15	mg/kg	0.27	0.021	1	6010B	03/26/09 1:21	heasler	Q40186
Sample Preparation:				2.05 g /	50 mL	3050B	03/25/09 10:25	mbarber	P24087

Sample Comment(s):

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-14-1
Prism Sample ID: 241361
COC Group: G0309633
Time Collected: 03/23/09 11:28
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	83.9	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	13	mg/kg	0.58	0.058	1	6010B	03/26/09 1:28	heasler	Q40186
Lead	66	mg/kg	0.29	0.023	1	6010B	03/26/09 1:28	heasler	Q40186
Sample Preparation:				2.04 g /	50 mL	3050B	03/25/09 10:25	mbarber	P24087

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-14-5-
Prism Sample ID: 241362
COC Group: G0309633
Time Collected: 03/23/09 11:30
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	90.6	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	19	mg/kg	0.54	0.054	1	6010B	03/26/09 1:44	heasler	Q40186
Lead	67	mg/kg	0.27	0.021	1	6010B	03/26/09 1:44	heasler	Q40186
Sample Preparation:				2.04 g /	50 mL	3050B	03/25/09 10:25	mbarber	P24087

Sample Comment(s):

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Laboratory Report

05/26/09

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-15-1
Prism Sample ID: 241363
COC Group: G0309633
Time Collected: 03/23/09 11:26
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	88.2	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	16	mg/kg	0.56	0.056	1	6010B	03/26/09 1:51	heasler	Q40186
Lead	26	mg/kg	0.28	0.022	1	6010B	03/26/09 1:51	heasler	Q40186
Sample Preparation:				2.02 g /	50 mL	3050B	03/25/09 10:25	mbarber	P24087

Sample Comment(s):

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Laboratory Report

05/26/09

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Attn: David Graham
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-15-5
Prism Sample ID: 241364
COC Group: G0309633
Time Collected: 03/23/09 11:27
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	86.0	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	27	mg/kg	0.58	0.058	1	6010B	03/26/09 1:57	heasler	Q40186
Lead	57	mg/kg	0.29	0.023	1	6010B	03/26/09 1:57	heasler	Q40186
Sample Preparation:				1.99 g /	50 mL	3050B	03/25/09 10:25	mbarber	P24087
TCLP Extraction for Metals									
TCLP Extraction	Complete				1	1311	05/14/09 14:40	mbarber	
TCLP Leachable Mercury by CVAA									
Mercury	BRL	mg/L	0.010	0.000014	1	7470A	05/19/09 15:27	dsullivan	Q41592
Sample Preparation:				20 mL /	30 mL	7470A	05/19/09 10:00	dsullivan	P24594
TCLP Leachable Metals by ICP									
Arsenic	BRL	mg/L	0.050	0.0029	1	6010B	05/22/09 4:16	heasler	Q41637
Barium	BRL	mg/L	5.0	0.0019	1	6010B	05/22/09 4:16	heasler	Q41637
Cadmium	BRL	mg/L	0.025	0.00034	1	6010B	05/22/09 4:16	heasler	Q41637
Chromium	BRL	mg/L	0.25	0.0006	1	6010B	05/22/09 4:16	heasler	Q41637
Lead	BRL	mg/L	0.050	0.0021	1	6010B	05/22/09 4:16	heasler	Q41637
Selenium	BRL	mg/L	0.050	0.0035	1	6010B	05/22/09 4:16	heasler	Q41637
Silver	BRL	mg/L	0.25	0.00025	1	6010B	05/22/09 4:16	heasler	Q41637
Sample Preparation:				50 mL /	50 mL	3010A	05/15/09 9:50	mbarber	P24568

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Laboratory Report

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North Carolina Department of Transportation
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-15-5
Prism Sample ID: 241364
COC Group: G0309633
Time Collected: 03/23/09 11:27
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

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Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-16-1
Prism Sample ID: 241365
COC Group: G0309633
Time Collected: 03/23/09 11:20
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	87.2	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	4.7	mg/kg	0.57	0.057	1	6010B	03/26/09 2:03	heasler	Q40186
Lead	22	mg/kg	0.29	0.022	1	6010B	03/26/09 2:03	heasler	Q40186
Sample Preparation:				2 g /	50 mL	3050B	03/25/09 10:25	mbarber	P24087
pH Value, Electrometric Method									
pH	4.03	pH units			1	9045C	03/24/09 15:30	kpowers	Q40150

Sample Comment(s):

BRL = Below Reporting Limit
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Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-16-5
Prism Sample ID: 241366
COC Group: G0309633
Time Collected: 03/23/09 11:25
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	87.2	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	6.5	mg/kg	0.57	0.056	1	6010B	03/26/09 2:10	heasler	Q40186
Lead	28	mg/kg	0.28	0.022	1	6010B	03/26/09 2:10	heasler	Q40186
Sample Preparation:				2.02 g /	50 mL	3050B	03/25/09 10:25	mbarber	P24087

Sample Comment(s):

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-17-1
Prism Sample ID: 241367
COC Group: G0309633
Time Collected: 03/23/09 11:05
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	83.8	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	2.1	mg/kg	0.59	0.058	1	6010B	03/26/09 2:16	heasler	Q40186
Lead	9.3	mg/kg	0.29	0.023	1	6010B	03/26/09 2:16	heasler	Q40186
Sample Preparation:				2.03 g /	50 mL	3050B	03/25/09 10:25	mbarber	P24087

Sample Comment(s):

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05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-17-5
Prism Sample ID: 241368
COC Group: G0309633
Time Collected: 03/23/09 11:10
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	79.7	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	5.0	mg/kg	0.62	0.062	1	6010B	03/26/09 2:22	heasler	Q40186
Lead	15	mg/kg	0.31	0.024	1	6010B	03/26/09 2:22	heasler	Q40186
Sample Preparation:				2.01 g /	50 mL	3050B	03/25/09 10:25	mbarber	P24087

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-5-0.5
Prism Sample ID: 241369
COC Group: G0309633
Time Collected: 03/23/09 13:20
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	80.0	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	4.8	mg/kg	0.61	0.061	1	6010B	03/26/09 2:28	heasler	Q40186
Lead	16	mg/kg	0.31	0.024	1	6010B	03/26/09 2:28	heasler	Q40186
Sample Preparation:				2.04 g /	50 mL	3050B	03/25/09 10:25	mbarber	P24087
pH Value, Electrometric Method									
pH	4.72	pH units			1	9045C	03/24/09 15:31	kpowers	Q40150

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-6-0.5
Prism Sample ID: 241370
COC Group: G0309633
Time Collected: 03/23/09 13:40
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	81.1	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	5.2	mg/kg	0.62	0.061	1	6010B	03/27/09 0:08	heasler	Q40216
Lead	20	mg/kg	0.31	0.024	1	6010B	03/27/09 0:08	heasler	Q40216
Sample Preparation:				2 g /	50 mL	3050B	03/26/09 9:15	mbarber	P24102

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-7-0.5
Prism Sample ID: 241371
COC Group: G0309633
Time Collected: 03/23/09 13:10
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	78.3	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	4.3	mg/kg	0.63	0.062	1	6010B	03/27/09 0:26	heasler	Q40216
Lead	37	mg/kg	0.31	0.024	1	6010B	03/27/09 0:26	heasler	Q40216
Sample Preparation:				2.04 g /	50 mL	3050B	03/26/09 9:15	mbarber	P24102
pH Value, Electrometric Method									
pH	4.81	pH units			1	9045C	03/24/09 15:32	kpowers	Q40150

Sample Comment(s):

BRL = Below Reporting Limit

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-8-0.5
Prism Sample ID: 241372
COC Group: G0309633
Time Collected: 03/23/09 13:41
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	80.3	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	4.7	mg/kg	0.62	0.061	1	6010B	03/27/09 0:33	heasler	Q40216
Lead	33	mg/kg	0.31	0.024	1	6010B	03/27/09 0:33	heasler	Q40216
Sample Preparation:				2.01 g /	50 mL	3050B	03/26/09 9:15	mbarber	P24102

Sample Comment(s):

BRL = Below Reporting Limit

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Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-9-0.5
Prism Sample ID: 241373
COC Group: G0309633
Time Collected: 03/23/09 13:37
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	88.0	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	1.5	mg/kg	0.57	0.057	1	6010B	03/27/09 0:40	heasler	Q40216
Lead	50	mg/kg	0.29	0.022	1	6010B	03/27/09 0:40	heasler	Q40216
Sample Preparation:				1.99 g /	50 mL	3050B	03/26/09 9:15	mbarber	P24102

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-10-0.5
Prism Sample ID: 241374
COC Group: G0309633
Time Collected: 03/23/09 13:44
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	82.3	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	5.0	mg/kg	0.60	0.059	1	6010B	03/27/09 0:46	heasler	Q40216
Lead	61	mg/kg	0.30	0.023	1	6010B	03/27/09 0:46	heasler	Q40216
Sample Preparation:				2.03 g /	50 mL	3050B	03/26/09 9:15	mbarber	P24102

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

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Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-11-0.5
Prism Sample ID: 241375
COC Group: G0309633
Time Collected: 03/23/09 12:55
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	81.8	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	3.0	mg/kg	0.60	0.060	1	6010B	03/27/09 0:53	heasler	Q40216
Lead	53	mg/kg	0.30	0.023	1	6010B	03/27/09 0:53	heasler	Q40216
Sample Preparation:				2.03 g /	50 mL	3050B	03/26/09 9:15	mbarber	P24102
pH Value, Electrometric Method									
pH	6.57	pH units			1	9045C	03/24/09 15:33	kpowers	Q40150

Sample Comment(s):

BRL = Below Reporting Limit
Values are reported down to the reporting limit only. No J-Flags applied.
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05/26/09

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-12-0.5
Prism Sample ID: 241376
COC Group: G0309633
Time Collected: 03/23/09 14:01
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**85.1**	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	**1.2**	mg/kg	0.58	0.058	1	6010B	03/27/09 1:09	heasler	Q40216
Lead	**29**	mg/kg	0.29	0.022	1	6010B	03/27/09 1:09	heasler	Q40216
Sample Preparation:				2.02 g /	50 mL	3050B	03/26/09 9:15	mbarber	P24102

Sample Comment(s):

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-13-0.5
Prism Sample ID: 241377
COC Group: G0309633
Time Collected: 03/23/09 14:03
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	71.4	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	BRL	mg/kg	0.69	0.068	1	6010B	03/27/09 1:14	heasler	Q40216
Lead	20	mg/kg	0.34	0.027	1	6010B	03/27/09 1:14	heasler	Q40216
Sample Preparation:				2.04 g /	50 mL	3050B	03/26/09 9:15	mbarber	P24102

Sample Comment(s):

BRL = Below Reporting Limit

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-14-1
Prism Sample ID: 241378
COC Group: G0309633
Time Collected: 03/23/09 13:30
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**88.4**	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	**1.2**	mg/kg	0.56	0.055	1	6010B	03/27/09 1:20	heasler	Q40216
Lead	**23**	mg/kg	0.28	0.022	1	6010B	03/27/09 1:20	heasler	Q40216
Sample Preparation:				2.03 g /	50 mL	3050B	03/26/09 9:15	mbarber	P24102
pH Value, Electrometric Method									
pH	**5.27**	pH units			1	9045C	03/24/09 15:34	kpowers	Q40150

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-14-3
Prism Sample ID: 241379
COC Group: G0309633
Time Collected: 03/23/09 13:33
Time Submitted: 03/23/09 16:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	83.5	%			1	SM2540 G	03/26/09 10:00	dsullivan	
Metals by ICP									
Arsenic	4.5	mg/kg	0.58	0.058	1	6010B	03/27/09 1:27	heasler	Q40216
Lead	62	mg/kg	0.29	0.023	1	6010B	03/27/09 1:27	heasler	Q40216
Sample Preparation:				2.05 g /	50 mL	3050B	03/26/09 9:15	mbarber	P24102
pH Value, Electrometric Method									
pH	4.82	pH units			1	9045C	03/24/09 15:35	kpowers	Q40150

Sample Comment(s):

BRL = Below Reporting Limit

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Level II QC Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1

COC Group Number: G0309633
Date/Time Submitted: 03/23/09 16:20

pH Value, Electrometric Method, method 9045C

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
pH	6.90	6.86	pH units	101	99.21-100.7	Q40150

Duplicate Sample ID:	Sample Result	Duplicate Result	Units	RPD %	RPD Range %	QC Batch ID
241379 pH	4.82	4.89	pH units	1	0 - 20	Q40150

Gasoline Range Organics (GRO) by GC-FID, method 8015B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg	Q40178

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Gasoline Range Organics (GRO)	43.25	50	mg/kg	87	67-116	Q40178

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
241443 Gasoline Range Organics (GRO)	36.2	50	mg/kg	72	57-113	Q40178

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
241443 Gasoline Range Organics (GRO)	36.75	50	mg/kg	74	57-113	2	0 - 23	Q40178

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1

COC Group Number: G0309633
Date/Time Submitted: 03/23/09 16:20

Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Arsenic	0.0086	0.5	<0.25	mg/kg	Q40185
Lead	-0.0012	0.25	<0.125	mg/kg	Q40185

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Arsenic	23.4914	25	mg/kg	94	80-120	Q40185
Lead	23.3415	25	mg/kg	93	80-120	Q40185

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
241338 Arsenic	22.045	25.125	mg/kg	82	75-125	Q40185
Lead	27.8649	25.125	mg/kg	80	75-125	Q40185

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
241338 Arsenic	22.0315	25	mg/kg	82	75-125	0	0 - 20	Q40185
Lead	27.5252	25	mg/kg	79	75-125	1	0 - 20	Q40185

Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Arsenic	0.0083	0.5	<0.25	mg/kg	Q40186
Lead	0.0199	0.25	<0.125	mg/kg	Q40186

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Arsenic	22.9675	25	mg/kg	92	80-120	Q40186
Lead	23.1747	25	mg/kg	93	80-120	Q40186

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
241357 Arsenic	25.1459	24.875	mg/kg	67 #	75-125	Q40186
Lead	50.9651	24.875	mg/kg	44 #	75-125	Q40186

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
241357 Arsenic	25.3476	24.630	mg/kg	68 #	75-125	1	0 - 20	Q40186
Lead	51.9632	24.630	mg/kg	48 #	75-125	2	0 - 20	Q40186

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PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1

COC Group Number: G0309633
Date/Time Submitted: 03/23/09 16:20

Diesel Range Organics (DRO) by GC-FID, method 8015B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg	Q40188

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Diesel Range Organics (DRO)	64.6	80	mg/kg	81	55-109	Q40188

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
241105 Diesel Range Organics (DRO)	56.6	80	mg/kg	71	50-117	Q40188

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
241105 Diesel Range Organics (DRO)	60.2	80	mg/kg	75	50-117	6	0 - 24	Q40188

Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Arsenic	-0.0247	0.5	<0.25	mg/kg	Q40216
Lead	0.0049	0.25	<0.125	mg/kg	Q40216

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Arsenic	23.2868	25	mg/kg	93	80-120	Q40216
Lead	23.4551	25	mg/kg	94	80-120	Q40216

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
241370 Arsenic	23.8931	24.875	mg/kg	79	75-125	Q40216
Lead	32.8978	24.875	mg/kg	68 #	75-125	Q40216

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
241370 Arsenic	23.4546	24.630	mg/kg	78	75-125	2	0 - 20	Q40216
Lead	33.1293	24.630	mg/kg	69 #	75-125	1	0 - 20	Q40216

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
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Level II QC Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1

COC Group Number: G0309633
Date/Time Submitted: 03/23/09 16:20

TCLP Leachable Mercury by CVAA, method 7470A

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Mercury	-0.00004	0.01	<0.005	mg/L	Q41592

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Mercury	0.00811	0.0093	mg/L	87	80-120	Q41592

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
246271 Mercury	0.00822	0.0093	mg/L	88	80-120	Q41592

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
246271 Mercury	0.00790	0.0093	mg/L	85	80-120	4	0 - 20	Q41592

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1

COC Group Number: G0309633
Date/Time Submitted: 03/23/09 16:20

TCLP Leachable Metals by ICP, method 6010B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Arsenic	0.0003	0.05	<0.025	mg/L	Q41637
Barium	0.0013	5	<2.5	mg/L	Q41637
Cadmium	-0.0001	0.025	<0.0125	mg/L	Q41637
Chromium	0.0003	0.25	<0.125	mg/L	Q41637
Lead	0.0001	0.05	<0.025	mg/L	Q41637
Selenium	0.0006	0.05	<0.025	mg/L	Q41637
Silver	-0.0001	0.25	<0.125	mg/L	Q41637

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Arsenic	0.2472	0.25	mg/L	99	80-120	Q41637
Barium	0.2217	0.25	mg/L	89	80-120	Q41637
Cadmium	0.229	0.25	mg/L	92	80-120	Q41637
Chromium	0.2161	0.25	mg/L	86	80-120	Q41637
Lead	0.2148	0.25	mg/L	86	80-120	Q41637
Selenium	0.2479	0.25	mg/L	99	80-120	Q41637
Silver	0.2368	0.25	mg/L	95	80-120	Q41637

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
241364	Arsenic	0.2269	0.25	mg/L	91	75-125	Q41637
	Barium	0.4344	0.25	mg/L	80	75-125	Q41637
	Cadmium	0.2126	0.25	mg/L	85	75-125	Q41637
	Chromium	0.1907	0.25	mg/L	76	75-125	Q41637
	Lead	0.2061	0.25	mg/L	79	75-125	Q41637
	Selenium	0.2268	0.25	mg/L	91	75-125	Q41637
	Silver	0.2276	0.25	mg/L	91	75-125	Q41637

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
241364	Arsenic	0.2385	0.25	mg/L	95	75-125	5	0 - 20	Q41637
	Barium	0.4552	0.25	mg/L	88	75-125	5	0 - 20	Q41637
	Cadmium	0.2219	0.25	mg/L	89	75-125	4	0 - 20	Q41637
	Chromium	0.2079	0.25	mg/L	83	75-125	9	0 - 20	Q41637
	Lead	0.2147	0.25	mg/L	83	75-125	4	0 - 20	Q41637
	Selenium	0.238	0.25	mg/L	95	75-125	5	0 - 20	Q41637
	Silver	0.2326	0.25	mg/L	93	75-125	2	0 - 20	Q41637

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1

COC Group Number: G0309633

Date/Time Submitted: 03/23/09 16:20

#-See Case Narrative

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CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 5 QUOTE # TO ENSURE PROPER BILLING:

Client Company Name: Hart & Hickman
Report To/Contact Name: Dave Graham
Reporting Address: 2923 S. Tryon St. Ste. 100 Charlotte, NC 28203
Phone: 704-586-0007 Fax (Yes) (No):
Email (Yes) (No) Email Address: dgraham@harthickman.com
EDD Type: PDF___ Excel ✓ Other___
Site Location Name:
Site Location Physical Address: Winston-Salem, NC

Project Name: ROW-204 WBS Element 34871.1.1
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: WBS Element 34871.1.1
Address:

Purchase Order No./Billing Reference
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp. 1.8	✓		
PROPER PRESERVATIVES indicated?			✓
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC___ USACE___ FL___ NC ✓
SC___ OTHER___ N/A___
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES ✓ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED: TOT. Lead & Arsenic 6010B	ANALYSES REQUESTED: pH	REMARKS	PRISM LAB ID NO.
BGM-1-2	3/23/09	1006	SOIL	CG	1		NONE	X	X		241338
BGM-1-5		1007						X			241339
BGM-2-2		0945						X	X		241340
BGM-2-5		0950						X			241341
BGM-3-2		0955						X			241342
BGM-3-5		1000						X			241343
BGM-4-2		1002						X	X		241344
BGM-4-5		1003						X			241345
BGM-5-5		1005						X			241346
BGM-5-2		1004						X	X		241347

Sampler's Signature: Holly Burwinkle Sampled By (Print Name): Holly Burwinkle Affiliation: Hart & Hickman

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature) Holly Burwinkle	Received By: (Signature) Dave Morris	3-23-09	1410
Relinquished By: (Signature) Dave Morris 3-23-09 1620	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 3-23-09	1620

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other

COC Group No. 603093833

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC ☐	☐ NC ☐ SC ☐	☐ NC ☐ SC ☐	☐ NC ☐ SC ☐	☐ NC ☐ SC ☐	☐ NC ☐ SC ☐	☐ NC ☐ SC ☐	☐ NC ☐ SC ☐	☐ NC ☐ SC ☐

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

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CHAIN OF CUSTODY RECORD

PAGE 2 OF 5 QUOTE # TO ENSURE PROPER BILLING:

Project Name: ROW-204 WBS Element 34871.1.1

Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)

*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Invoice To: WBS Element 34871.1.1

Address:

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 1.3	✓		
PROPER PRESERVATIVES indicated?			✓
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

Client Company Name: Hart & Hickman

Report To/Contact Name: Dave Graham

Reporting Address:

Phone: Fax (Yes) (No):

Email (Yes) (No) Email Address

EDD Type: PDF___ Excel___ Other___

Site Location Name:

Site Location Physical Address:

Purchase Order No./Billing Reference

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days

"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved

Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC___ USACE___ FL___ NC ✓

SC___ OTHER ___ N/A ___

Water Chlorinated: YES ___ NO ___

Sample Iced Upon Collection: YES ✓ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	TPH	8015B TPH DRO/GRO (5030/3550)	pH				REMARKS	PRISM LAB ID NO.
11-1-3	3/23/09	1045	SOIL	CG	4			X							241348
11-2-3	↓	1055	↓	↓	↓			X							241349
11-3-3	↓	1035	↓	↓	↓			X							241350
11-4-3	↓	1030	↓	↓	↓			X							241351
11-5-3	↓	1020	↓	↓	↓			X							241352
10-10-1	↓	1148	↓	↓	1		NONE		X						241353
10-10-5	↓	1150	↓	↓	↓		↓		X						241354
10-11-1	↓	1144	↓	↓	↓		↓		X						241355
10-11-5	↓	1145	↓	↓	↓		↓		X						241356
10-12-1	↓	1138	↓	↓	↓		↓		X						241357

Sampler's Signature Holly Burwinkle Sampled By (Print Name) Holly Burwinkle Affiliation Hart & Hickman

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Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Holly Burwinkle	Dan Mori	3-23-09	1410
Dan Mori 3-23-09 1620			
	Received For Prism Laboratories By: [signature]	3-23-09	16:20

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Prism Field Service ☐ Other

COC Group No. G0309633

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES: ☐ NC ☐ SC ☐ | UST: ☐ NC ☐ SC ☐ | GROUNDWATER: ☐ NC ☐ SC ☐ | DRINKING WATER: ☐ NC ☐ SC ☐ | SOLID WASTE: ☐ NC ☐ SC ☐ | RCRA: ☐ NC ☐ SC ☐ | CERCLA ☐ NC ☐ SC ☐ | LANDFILL ☐ NC ☐ SC ☐ | OTHER: ☐ NC ☐ SC ☐

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

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CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

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Phone: 704/529-6364 • Fax: 704/525-0409

PAGE 3 OF 6 QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: H&H
Report To/Contact Name: Dave Graham
Reporting Address: _____

Phone: _____ Fax (Yes) (No): _____
Email (Yes) (No) Email Address _____
EDD Type: PDF____ Excel____ Other_____
Site Location Name: _____
Site Location Physical Address: _____

Project Name: ROW-204 WBS Element 34871.1.1
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: WBS Element 34871.1.1
Address: _____

Purchase Order No./Billing Reference _____
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 1.3	✓		
PROPER PRESERVATIVES indicated?			✓
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ USACE____ FL____ NC ✓
SC____ OTHER _____ N/A _____
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES ✓ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED TCLP Lead Arsenic Cadmium	ANALYSES REQUESTED pH	REMARKS	PRISM LAB ID NO.
10-12-5	3/23/09	1139	SOIL	CG	1		NONE	X			241358
10-13-18		1132						X	X		241359
10-13-5		1134						X			241360
10-14-1		1128						X			241361
10-14-5		1130						X			241362
10-15-1		1126						X			241363
10-15-5		1127						X		Added TCLP Metals per Matt Bramblett	241364
10-16-1		1120						X	X		241365
10-16-5		1125						X			241366
10-17-1		1105						X			241367

Sampler's Signature Holly Burwinkle Sampled By (Print Name) Holly Burwinkle Affiliation Hart & Hickman

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Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature) Holly Burwinkle	Received By: (Signature) Dan O'Mara	Date 3-23-09	Military/Hours 1410
Relinquished By: (Signature) Dan O'Mara 3-23-09 1620	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 3-23-09	16:20

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____
COC Group No. G03209637

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

PAGE 4 OF 5 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: ROW-204 WBS Element 34871.1.1
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: WBS Element 34871.1.1
Address: _____

Client Company Name: Hart & Hickman
Report To/Contact Name: Dave Graham
Reporting Address: _____

Phone: _____ Fax (Yes) (No): _____
Email (Yes) (No) Email Address _____
EDD Type: PDF ___ Excel ___ Other ___
Site Location Name: _____
Site Location Physical Address: _____

Purchase Order No./Billing Reference _____
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 1.3	✓		
PROPER PRESERVATIVES indicated?			✓
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ USACE ___ FL ___ NC ✓
SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ✓ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED: TCL VOC + Agency List 8260B	ANALYSES REQUESTED: pH	ANALYSES REQUESTED:	ANALYSES REQUESTED:	ANALYSES REQUESTED:	ANALYSES REQUESTED:	REMARKS	PRISM LAB ID NO.
10-17-5	3/23/09	1110	SOIL	CG	1		NONE	X							241368
8-5-0.5		1320						X	X						241369
8-6-0.5		1340						X							241370
8-7-0.5		1310						X	X						241371
8-8-0.5		1341						X							241372
8-9-0.5		1337						X							241373
8-10-0.5		1344						X							241374
8-11-0.5		1255						X	X						241375
8-12-0.5		1401						X							241376
8-13-0.5		1403						X							241377

Sampler's Signature Holly Burwinkle Sampled By (Print Name) Holly Burwinkle Affiliation Hart & Hickman

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature) Holly Burwinkle	Received By: (Signature) Dave Mans	3-23-09	1410
Relinquished By: (Signature) Dave Mans 3-23-09 1620	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 3-23-09	16:20

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____

COC Group No. G03091633

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

PAGE 5 OF 5 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: ROW-204 WBS Element 34871-1-1

Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)

*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Invoice To: WBS Element 34871-1-1

Address: _____

Client Company Name: Hart & Hickman

Report To/Contact Name: Dave Graham

Reporting Address: _____

Phone: _____ Fax (Yes) (No): _____

Email (Yes) (No) Email Address _____

EDD Type: PDF____ Excel____ Other_____

Site Location Name: _____

Site Location Physical Address: _____

Purchase Order No./Billing Reference _____

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days

"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved

Samples received after 15:00 will be processed next business day.

Turnaround time is based on business days, excluding weekends and holidays.

(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 13	✓		
PROPER PRESERVATIVES indicated?			✓
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC____ USACE____ FL____ NC ✓

SC____ OTHER _____ N/A _____

Water Chlorinated: YES___ NO___

Sample Iced Upon Collection: YES ✓ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED: Torched Arsenic Lead	ANALYSES REQUESTED: PH	ANALYSES REQUESTED:	ANALYSES REQUESTED:	ANALYSES REQUESTED:	ANALYSES REQUESTED:	REMARKS	PRISM LAB ID NO.
8-14-1	3/23	1330	SOIL	CG	1		NONE	X	X						241378
8-14-3	↓	1333	↓	↓	1		NONE	X	X						241379

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature Brett Byrn Sampled By (Print Name) Brett Byrn Affiliation H&H

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature) Brett Byrn	Received By: (Signature) David Mow	Date 3-23-09	Military/Hours 1410
Relinquished By: (Signature) David Mow 3-23-09 1620	Received By: (Signature)	Date	
Relinquished By: (Signature) Brett Byrn 3-23	Received For Prism Laboratories By:	Date 3-23-09	16:20

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☒ Other _____

COC Group No. G03B9633

Additional Comments:

PRISM USE ONLY

Site Arrival Time:

Site Departure Time:

Field Tech Fee:

Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

PRISM
LABORATORIES, INC.

Case Narrative (Revised)

Date:	05/15/09	**Client Project ID:**	ROW-204 Winston-Salem
Company:	North Carolina Department of Transportation	**Prism COC Group No:**	G0509103
Contact:	David Graham	**Collection Date(s):**	05/05/09
Address:	c/o Hart and Hickman	**Lab Submittal Date(s):**	05/06/09
	2923 South Tryon St. Ste 100		
	Charlotte, NC 28203	**Client Project Name Or No:**	Winston-Salem, NC WBS# 34871.1.1

This is a revised report and supersedes our original laboratory report dated 5/14/09. Revised report to include J values.

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 7 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

N/A

Volatile Analysis

N/A

Metals Analysis

No Anomalies Reported

Wet Lab and Micro Analysis

N/A

Please call if you have any questions relating to this analytical report.

Data Reviewed by:	Robbi A. Jones	**Project Manager:**	Angela D. Overcash
Signature:	Robbi A. Jones	**Signature:**	Robbi A. Jones for A. Overcash
Review Date:	05/15/09	**Approval Date:**	05/15/09

Data Qualifiers Key Reference:

B: Compound also detected in the method blank.
#: Result outside of the QC limits.
DO: Compound diluted out.
E: Estimated concentration, calibration range exceeded.
J: The analyte was positively identified but the value is estimated below the reporting limit.
H: Estimated concentration with a high bias.
L: Estimated concentration with a low bias.
M: A matrix effect is present.

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

05/15/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston-Salem, NC
Project ID: ROW-204 Winston-Salem
Project No.: WBS# 34871.1.1
Sample Matrix: Solid

Client Sample ID: Comp-1
Prism Sample ID: 245420
COC Group: G0509103
Time Collected: 05/05/09 11:40
Time Submitted: 05/06/09 8:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
TCLP Extraction for Metals									
TCLP Extraction	Complete				1	1311	05/07/09 14:00	mbarber	
TCLP Leachable Mercury by CVAA									
Mercury	0.00003 J	mg/L	0.010	0.000014	1	7470A	05/12/09 16:50	dsullivan	Q41407
Sample Preparation:				20 mL /	30 mL	7470A	05/12/09 11:45	dsullivan	P24530
TCLP Leachable Metals by ICP									
Arsenic	BRL	mg/L	0.050	0.0029	1	6010B	05/08/09 22:34	heasler	Q41318
Barium	0.51 J	mg/L	5.0	0.0019	1	6010B	05/08/09 22:34	heasler	Q41318
Cadmium	0.0020 J	mg/L	0.025	0.00034	1	6010B	05/08/09 22:34	heasler	Q41318
Chromium	0.0008 J	mg/L	0.25	0.0006	1	6010B	05/08/09 22:34	heasler	Q41318
Lead	0.027 J	mg/L	0.050	0.0021	1	6010B	05/08/09 22:34	heasler	Q41318
Selenium	BRL	mg/L	0.050	0.0035	1	6010B	05/08/09 22:34	heasler	Q41318
Silver	BRL	mg/L	0.25	0.00025	1	6010B	05/08/09 22:34	heasler	Q41318
Sample Preparation:				50 mL /	50 mL	3010A	05/08/09 8:30	mbarber	P24504

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

05/15/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston-Salem, NC
Project ID: ROW-204 Winston-Salem
Project No.: WBS# 34871.1.1
Sample Matrix: Solid

Client Sample ID: Comp-2
Prism Sample ID: 245421
COC Group: G0509103
Time Collected: 05/05/09 15:30
Time Submitted: 05/06/09 8:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
TCLP Extraction for Metals									
TCLP Extraction	**Complete**				1	1311	05/11/09 14:30	mbarber	
TCLP Leachable Mercury by CVAA									
Mercury	**0.00002 J**	mg/L	0.010	0.000014	1	7470A	05/12/09 17:08	dsullivan	Q41407
Sample Preparation:				20 mL /	30 mL	7470A	05/12/09 11:45	dsullivan	P24530
TCLP Leachable Metals by ICP									
Arsenic	**BRL**	mg/L	0.050	0.0029	1	6010B	05/12/09 21:50	heasler	Q41387
Barium	**0.83 J**	mg/L	5.0	0.0019	1	6010B	05/12/09 21:50	heasler	Q41387
Cadmium	**0.0035 J**	mg/L	0.025	0.00034	1	6010B	05/12/09 21:50	heasler	Q41387
Chromium	**0.0046 J**	mg/L	0.25	0.0006	1	6010B	05/12/09 21:50	heasler	Q41387
Lead	**0.0071 J**	mg/L	0.050	0.0021	1	6010B	05/12/09 21:50	heasler	Q41387
Selenium	**BRL**	mg/L	0.050	0.0035	1	6010B	05/12/09 21:50	heasler	Q41387
Silver	**BRL**	mg/L	0.25	0.00025	1	6010B	05/12/09 21:50	heasler	Q41387
Sample Preparation:				50 mL /	50 mL	3010A	05/12/09 8:40	mbarber	P24532

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

05/15/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston-Salem, NC
Project ID: ROW-204 Winston-Salem
Project No.: WBS# 34871.1.1
Sample Matrix: Solid

Client Sample ID: Drum
Prism Sample ID: 245422
COC Group: G0509103
Time Collected: 05/05/09 16:00
Time Submitted: 05/06/09 8:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
TCLP Extraction for Metals									
TCLP Extraction	**Complete**				1	1311	05/11/09 14:30	mbarber	
TCLP Leachable Mercury by CVAA									
Mercury	**0.00002 J**	mg/L	0.010	0.000014	1	7470A	05/12/09 17:12	dsullivan	Q41407
Sample Preparation:				20 mL /	30 mL	7470A	05/12/09 11:45	dsullivan	P24530
TCLP Leachable Metals by ICP									
Arsenic	BRL	mg/L	0.050	0.0029	1	6010B	05/12/09 22:09	heasler	Q41387
Barium	**0.95 J**	mg/L	5.0	0.0019	1	6010B	05/12/09 22:09	heasler	Q41387
Cadmium	**0.0029 J**	mg/L	0.025	0.00034	1	6010B	05/12/09 22:09	heasler	Q41387
Chromium	**0.0022 J**	mg/L	0.25	0.0006	1	6010B	05/12/09 22:09	heasler	Q41387
Lead	**0.0094 J**	mg/L	0.050	0.0021	1	6010B	05/12/09 22:09	heasler	Q41387
Selenium	BRL	mg/L	0.050	0.0035	1	6010B	05/12/09 22:09	heasler	Q41387
Silver	BRL	mg/L	0.25	0.00025	1	6010B	05/12/09 22:09	heasler	Q41387
Sample Preparation:				50 mL /	50 mL	3010A	05/12/09 8:40	mbarber	P24532

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

5/15/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston-Salem, NC
Project ID: ROW-204 Winston-Salem
Project No.: WBS# 34871.1.1

COC Group Number: G0509103
Date/Time Submitted: 5/6/09 8:35

TCLP Leachable Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Arsenic	-0.001	0.05	<0.025	mg/L	Q41318
Barium	0.0017	5	<2.5	mg/L	Q41318
Cadmium	-0.0002	0.025	<0.0125	mg/L	Q41318
Chromium	0.0001	0.25	<0.125	mg/L	Q41318
Lead	0.0001	0.05	<0.025	mg/L	Q41318
Selenium	0.0012	0.05	<0.025	mg/L	Q41318
Silver	ND	0.25	<0.125	mg/L	Q41318

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Arsenic	0.2516	0.25	mg/L	101	80-120	Q41318
Barium	0.2243	0.25	mg/L	90	80-120	Q41318
Cadmium	0.233	0.25	mg/L	93	80-120	Q41318
Chromium	0.2158	0.25	mg/L	86	80-120	Q41318
Lead	0.2197	0.25	mg/L	88	80-120	Q41318
Selenium	0.2548	0.25	mg/L	102	80-120	Q41318
Silver	0.2338	0.25	mg/L	94	80-120	Q41318

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
243989 Arsenic	0.2724	0.25	mg/L	101	75-125	Q41318
Barium	0.683	0.25	mg/L	101	75-125	Q41318
Cadmium	0.2354	0.25	mg/L	94	75-125	Q41318
Chromium	0.2178	0.25	mg/L	87	75-125	Q41318
Lead	0.2402	0.25	mg/L	89	75-125	Q41318
Selenium	0.2459	0.25	mg/L	99	75-125	Q41318
Silver	0.2321	0.25	mg/L	92	75-125	Q41318

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
243989 Arsenic	0.2702	0.25	mg/L	100	75-125	1	0 - 20	Q41318
Barium	0.6854	0.25	mg/L	102	75-125	0	0 - 20	Q41318
Cadmium	0.2346	0.25	mg/L	93	75-125	0	0 - 20	Q41318
Chromium	0.2156	0.25	mg/L	86	75-125	1	0 - 20	Q41318
Lead	0.2384	0.25	mg/L	88	75-125	1	0 - 20	Q41318
Selenium	0.2466	0.25	mg/L	100	75-125	0	0 - 20	Q41318
Silver	0.2308	0.25	mg/L	92	75-125	1	0 - 20	Q41318

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

5/15/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston-Salem, NC
Project ID: ROW-204 Winston-Salem
Project No.: WBS# 34871.1.1

COC Group Number: G0509103
Date/Time Submitted: 5/6/09 8:35

TCLP Leachable Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Arsenic	0.0001	0.05	<0.025	mg/L	Q41387
Barium	0.0006	5	<2.5	mg/L	Q41387
Cadmium	-0.0002	0.025	<0.0125	mg/L	Q41387
Chromium	0.0003	0.25	<0.125	mg/L	Q41387
Lead	-0.0004	0.05	<0.025	mg/L	Q41387
Selenium	-0.0013	0.05	<0.025	mg/L	Q41387
Silver	ND	0.25	<0.125	mg/L	Q41387

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Arsenic	0.2467	0.25	mg/L	99	80-120	Q41387
Barium	0.2162	0.25	mg/L	86	80-120	Q41387
Cadmium	0.2308	0.25	mg/L	92	80-120	Q41387
Chromium	0.2137	0.25	mg/L	85	80-120	Q41387
Lead	0.2194	0.25	mg/L	88	80-120	Q41387
Selenium	0.2484	0.25	mg/L	99	80-120	Q41387
Silver	0.2316	0.25	mg/L	93	80-120	Q41387

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
245421 Arsenic	0.2451	0.25	mg/L	97	75-125	Q41387
Barium	1.0664	0.25	mg/L	93	75-125	Q41387
Cadmium	0.2287	0.25	mg/L	90	75-125	Q41387
Chromium	0.2191	0.25	mg/L	86	75-125	Q41387
Lead	0.2242	0.25	mg/L	87	75-125	Q41387
Selenium	0.2383	0.25	mg/L	98	75-125	Q41387
Silver	0.2389	0.25	mg/L	96	75-125	Q41387

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
245421 Arsenic	0.2492	0.25	mg/L	99	75-125	2	0 - 20	Q41387
Barium	1.0674	0.25	mg/L	94	75-125	0	0 - 20	Q41387
Cadmium	0.2326	0.25	mg/L	92	75-125	2	0 - 20	Q41387
Chromium	0.2221	0.25	mg/L	87	75-125	1	0 - 20	Q41387
Lead	0.2281	0.25	mg/L	88	75-125	2	0 - 20	Q41387
Selenium	0.2438	0.25	mg/L	100	75-125	2	0 - 20	Q41387
Silver	0.2379	0.25	mg/L	95	75-125	0	0 - 20	Q41387

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

5/15/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston-Salem, NC
Project ID: ROW-204 Winston-Salem
Project No.: WBS# 34871.1.1

COC Group Number: G0509103
Date/Time Submitted: 5/6/09 8:35

TCLP Leachable Mercury by CVAA, method 7470A

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Mercury	0.00002	0.01	<0.005	mg/L	Q41407

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Mercury	0.00794	0.0093	mg/L	85	80-120	Q41407

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
245420 Mercury	0.00839	0.0093	mg/L	89	80-120	Q41407

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
245420 Mercury	0.00868	0.0093	mg/L	92	80-120	3	0 - 20	Q41407

#-See Case Narrative

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
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CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.

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Phone: 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: Row - 204

Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)

*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Invoice To: WBS # 34871.1.1

Address: _____

Client Company Name: Hart & Hickman

Report To/Contact Name: Dave Graham

Reporting Address: 2923 S Tryon St
Charlotte N.C. 28203

Phone: 704 376 0007 Fax (Yes) (No): _____

Email (Yes) (No) Email Address: DGraham@HartHickman.com

EDD Type: PDF X Excel ___ Other ___

Site Location Name: Row - 204

Site Location Physical Address: Winston Salem

Purchase Order No./Billing Reference _____

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days

"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved

Samples received after 15:00 will be processed next business day.

Turnaround time is based on business days, excluding weekends and holidays.

(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 0.9°	✓		
PROPER PRESERVATIVES indicated?	✓		✓
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ USACE ___ FL ___ NC X

SC ___ OTHER ___ N/A ___

Water Chlorinated: YES ___ NO ___

Sample Iced Upon Collection: YES X NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED TCLP RCRA (Metals)	REMARKS	PRISM LAB ID NO.
Comp-1	5/5/09	1140	Soil					X		245420
Comp-2	"	1530	"					X		245421
Drum	"	1600	"					X		245422

Sampler's Signature: Brent Byrn Sampled By (Print Name): Brent Byrn Affiliation: H & H

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature)	Date	
Brent Byrn			
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	
Brent Byrn		5/6/09	08:35

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____

COC Group No. G05091@3

Additional Comments:

PRISM USE ONLY

Site Arrival Time:

Site Departure Time:

Field Tech Fee:

Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

PRISM
LABORATORIES,INC.

Case Narrative (Revised)

Date:	05/26/09	**Client Project ID:**	ROW-204
Company:	North Carolina Department of Transportation	**Prism COC Group No:**	G0309661
Contact:	David Graham	**Collection Date(s):**	3/23/09 thru 3/24/09
Address:	c/o Hart and Hickman	**Lab Submittal Date(s):**	03/25/09
	2923 South Tryon St. Ste 100		
	Charlotte, NC 28203	**Client Project Name Or No:**	Winston Salem WBS# 34871.1.1

This is a revised report and supersedes our original laboratory report dated 4/7/09. Client revised client sample IDs on the COC from BFW-5-5 to BFW-5-2 and BFW-6-5 to BFW-6-2 and added TCLP Metals analyses to BFW-5-0.5, BFW-5-2,8-2-0.5, 8-3-0.5, 8-4-0.5, 9-1-5 and 8-15-3.

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 58 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

N/A

Volatile Analysis

N/A

Metals Analysis

Analysis Note for Q40320 MS Arsenic: MS recovery outside of the control limits.

Analysis Note for Q40320 MS Lead: MS recovery outside of the control limits.

Analysis Note for Q40320 MSD Arsenic: MSD recovery outside the control limits.

Analysis Note for Q40320 MSD Lead: MSD recovery outside the control limits.

Analysis Note for Q40406 MS Lead: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (71%) is outside the acceptance limits (80-120%).

Analysis Note for Q40406 MSD Lead: MSD recovery outside the control limits.

Wet Lab and Micro Analysis

No Anomalies Reported

Please call if you have any questions relating to this analytical report.

Data Reviewed by:	Robbi A. Jones	**Project Manager:**	Angela D. Overcash
Signature:	Robbi A. Jones	**Signature:**	
Review Date:	05/26/09	**Approval Date:**	05/26/09

Data Qualifiers Key Reference:

B: Compound also detected in the method blank.
#: Result outside of the QC limits.
DO: Compound diluted out.
E: Estimated concentration, calibration range exceeded.
J: The analyte was positively identified but the value is estimated below the reporting limit.
H: Estimated concentration with a high bias.
L: Estimated concentration with a low bias.
M: A matrix effect is present.

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-1-0.5
Prism Sample ID: 241470
COC Group: G0309661
Time Collected: 03/24/09 8:41
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	87.4	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	4.5	mg/kg	0.56	0.056	1	6010B	03/31/09 1:52	heasler	Q40290
Lead	23	mg/kg	0.28	0.022	1	6010B	03/31/09 1:52	heasler	Q40290
Sample Preparation:				2.04 g /	50 mL	3050B	03/30/09 8:20	mbarber	P24131

Sample Comment(s):

BRL = Below Reporting Limit
Values are reported down to the reporting limits only. No J-flags applied.
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Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-2-0.5
Prism Sample ID: 241471
COC Group: G0309661
Time Collected: 03/24/09 9:23
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	80.2	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	9.5	mg/kg	0.61	0.060	1	6010B	03/31/09 2:13	heasler	Q40290
Lead	120	mg/kg	0.30	0.023	1	6010B	03/31/09 2:13	heasler	Q40290
Sample Preparation:				2.05 g /	50 mL	3050B	03/30/09 8:20	mbarber	P24131
TCLP Extraction for Metals									
TCLP Extraction	Complete				1	1311	05/14/09 14:40	mbarber	
TCLP Leachable Mercury by CVAA									
Mercury	BRL	mg/L	0.010	0.000014	1	7470A	05/21/09 17:24	dsullivan	Q41662
Sample Preparation:				20 mL /	30 mL	7470A	05/21/09 12:15	dsullivan	P24623
TCLP Leachable Metals by ICP									
Arsenic	BRL	mg/L	0.050	0.0029	1	6010B	05/22/09 4:34	heasler	Q41637
Barium	BRL	mg/L	5.0	0.0019	1	6010B	05/22/09 4:34	heasler	Q41637
Cadmium	BRL	mg/L	0.025	0.00034	1	6010B	05/22/09 4:34	heasler	Q41637
Chromium	BRL	mg/L	0.25	0.0006	1	6010B	05/22/09 4:34	heasler	Q41637
Lead	BRL	mg/L	0.050	0.0021	1	6010B	05/22/09 4:34	heasler	Q41637
Selenium	BRL	mg/L	0.050	0.0035	1	6010B	05/22/09 4:34	heasler	Q41637
Silver	BRL	mg/L	0.25	0.00025	1	6010B	05/22/09 4:34	heasler	Q41637
Sample Preparation:				50 mL /	50 mL	3010A	05/15/09 9:50	mbarber	P24568

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-2-0.5
Prism Sample ID: 241471
COC Group: G0309661
Time Collected: 03/24/09 9:23
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-3-0.5
Prism Sample ID: 241472
COC Group: G0309661
Time Collected: 03/24/09 9:24
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**79.0**	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	**8.8**	mg/kg	0.63	0.062	1	6010B	03/31/09 2:20	heasler	Q40290
Lead	**310**	mg/kg	1.6	0.12	5	6010B	03/31/09 17:02	heasler	Q40290
Sample Preparation:				2.02 g /	50 mL	3050B	03/30/09 8:20	mbarber	P24131
pH Value, Electrometric Method									
pH	**5.53**	pH units			1	9045C	03/25/09 12:51	kpowers	Q40174
TCLP Extraction for Metals									
TCLP Extraction	**Complete**				1	1311	05/14/09 14:40	mbarber	
TCLP Leachable Mercury by CVAA									
Mercury	**BRL**	mg/L	0.010	0.000014	1	7470A	05/21/09 17:28	dsullivan	Q41662
Sample Preparation:				20 mL /	30 mL	7470A	05/21/09 12:15	dsullivan	P24623
TCLP Leachable Metals by ICP									
Arsenic	**BRL**	mg/L	0.050	0.0029	1	6010B	05/22/09 4:41	heasler	Q41637
Barium	**BRL**	mg/L	5.0	0.0019	1	6010B	05/22/09 4:41	heasler	Q41637
Cadmium	**BRL**	mg/L	0.025	0.00034	1	6010B	05/22/09 4:41	heasler	Q41637
Chromium	**BRL**	mg/L	0.25	0.0006	1	6010B	05/22/09 4:41	heasler	Q41637
Lead	**0.11**	mg/L	0.050	0.0021	1	6010B	05/22/09 4:41	heasler	Q41637
Selenium	**BRL**	mg/L	0.050	0.0035	1	6010B	05/22/09 4:41	heasler	Q41637
Silver	**BRL**	mg/L	0.25	0.00025	1	6010B	05/22/09 4:41	heasler	Q41637
Sample Preparation:				50 mL /	50 mL	3010A	05/15/09 9:50	mbarber	P24568

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-3-0.5
Prism Sample ID: 241472
COC Group: G0309661
Time Collected: 03/24/09 9:24
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-4-0.5
Prism Sample ID: 241473
COC Group: G0309661
Time Collected: 03/24/09 9:25
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	79.5	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	8.3	mg/kg	0.62	0.061	1	6010B	03/31/09 2:25	heasler	Q40290
Lead	52	mg/kg	0.31	0.024	1	6010B	03/31/09 2:25	heasler	Q40290
Sample Preparation:				2.03 g /	50 mL	3050B	03/30/09 8:20	mbarber	P24131
TCLP Extraction for Metals									
TCLP Extraction	Complete				1	1311	05/14/09 14:40	mbarber	
TCLP Leachable Mercury by CVAA									
Mercury	BRL	mg/L	0.010	0.000014	1	7470A	05/21/09 17:39	dsullivan	Q41662
Sample Preparation:				20 mL /	30 mL	7470A	05/21/09 12:15	dsullivan	P24623
TCLP Leachable Metals by ICP									
Arsenic	BRL	mg/L	0.050	0.0029	1	6010B	05/22/09 4:48	heasler	Q41637
Barium	BRL	mg/L	5.0	0.0019	1	6010B	05/22/09 4:48	heasler	Q41637
Cadmium	BRL	mg/L	0.025	0.00034	1	6010B	05/22/09 4:48	heasler	Q41637
Chromium	BRL	mg/L	0.25	0.0006	1	6010B	05/22/09 4:48	heasler	Q41637
Lead	BRL	mg/L	0.050	0.0021	1	6010B	05/22/09 4:48	heasler	Q41637
Selenium	BRL	mg/L	0.050	0.0035	1	6010B	05/22/09 4:48	heasler	Q41637
Silver	BRL	mg/L	0.25	0.00025	1	6010B	05/22/09 4:48	heasler	Q41637
Sample Preparation:				50 mL /	50 mL	3010A	05/15/09 9:50	mbarber	P24568

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-4-0.5
Prism Sample ID: 241473
COC Group: G0309661
Time Collected: 03/24/09 9:25
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 9-1-1
Prism Sample ID: 241474
COC Group: G0309661
Time Collected: 03/24/09 13:46
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**83.4**	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	**6.5**	mg/kg	0.60	0.059	1	6010B	03/31/09 2:32	heasler	Q40290
Lead	**100**	mg/kg	0.30	0.023	1	6010B	03/31/09 2:32	heasler	Q40290
Sample Preparation:				2 g /	50 mL	3050B	03/30/09 8:20	mbarber	P24131
pH Value, Electrometric Method									
pH	**4.77**	pH units			1	9045C	03/25/09 12:52	kpowers	Q40174

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 9-1-5
Prism Sample ID: 241475
COC Group: G0309661
Time Collected: 03/24/09 13:50
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	84.7	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	67	mg/kg	0.58	0.058	1	6010B	03/31/09 2:38	heasler	Q40290
Lead	860	mg/kg	3.0	0.23	10	6010B	03/31/09 17:11	heasler	Q40290
Sample Preparation:				2.02 g /	50 mL	3050B	03/30/09 8:20	mbarber	P24131
pH Value, Electrometric Method									
pH	7.43	pH units			1	9045C	03/25/09 12:53	kpowers	Q40174
TCLP Extraction for Metals									
TCLP Extraction	Complete				1	1311	05/14/09 14:40	mbarber	
TCLP Leachable Mercury by CVAA									
Mercury	BRL	mg/L	0.010	0.000014	1	7470A	05/19/09 15:31	dsullivan	Q41592
Sample Preparation:				20 mL /	30 mL	7470A	05/19/09 10:00	dsullivan	P24594
TCLP Leachable Metals by ICP									
Arsenic	BRL	mg/L	0.050	0.0029	1	6010B	05/22/09 4:54	heasler	Q41637
Barium	BRL	mg/L	5.0	0.0019	1	6010B	05/22/09 4:54	heasler	Q41637
Cadmium	BRL	mg/L	0.025	0.00034	1	6010B	05/22/09 4:54	heasler	Q41637
Chromium	BRL	mg/L	0.25	0.0006	1	6010B	05/22/09 4:54	heasler	Q41637
Lead	0.16	mg/L	0.050	0.0021	1	6010B	05/22/09 4:54	heasler	Q41637
Selenium	BRL	mg/L	0.050	0.0035	1	6010B	05/22/09 4:54	heasler	Q41637
Silver	BRL	mg/L	0.25	0.00025	1	6010B	05/22/09 4:54	heasler	Q41637
Sample Preparation:				50 mL /	50 mL	3010A	05/15/09 9:50	mbarber	P24568

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 9-1-5
Prism Sample ID: 241475
COC Group: G0309661
Time Collected: 03/24/09 13:50
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

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Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 9-2-1
Prism Sample ID: 241476
COC Group: G0309661
Time Collected: 03/24/09 13:29
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	86.5	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	4.6	mg/kg	0.56	0.056	1	6010B	03/31/09 2:54	heasler	Q40290
Lead	30	mg/kg	0.28	0.022	1	6010B	03/31/09 2:54	heasler	Q40290
Sample Preparation:			2.05 g /		50 mL	3050B	03/30/09 8:20	mbarber	P24131
pH Value, Electrometric Method									
pH	4.92	pH units			1	9045C	03/25/09 12:55	kpowers	Q40174

Sample Comment(s):

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Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 9-2-5
Prism Sample ID: 241477
COC Group: G0309661
Time Collected: 03/24/09 13:36
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**88.2**	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	**4.5**	mg/kg	0.56	0.056	1	6010B	03/31/09 3:01	heasler	Q40290
Lead	**86**	mg/kg	0.28	0.022	1	6010B	03/31/09 3:01	heasler	Q40290
Sample Preparation:			2.02 g /		50 mL	3050B	03/30/09 8:20	mbarber	P24131
pH Value, Electrometric Method									
pH	**4.58**	pH units			1	9045C	03/25/09 12:56	kpowers	Q40174

Sample Comment(s):

BRL = Below Reporting Limit

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Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BFW-1-0.5
Prism Sample ID: 241478
COC Group: G0309661
Time Collected: 03/24/09 12:35
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	87.2	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	7.4	mg/kg	0.56	0.055	1	6010B	03/31/09 3:07	heasler	Q40290
Lead	87	mg/kg	0.28	0.022	1	6010B	03/31/09 3:07	heasler	Q40290
Sample Preparation:			2.05 g /		50 mL	3050B	03/30/09 8:20	mbarber	P24131
pH Value, Electrometric Method									
pH	7.60	pH units			1	9045C	03/25/09 12:57	kpowers	Q40174

Sample Comment(s):

BRL = Below Reporting Limit

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Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BFW-1-2
Prism Sample ID: 241479
COC Group: G0309661
Time Collected: 03/24/09 12:32
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	80.8	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	6.6	mg/kg	0.61	0.060	1	6010B	03/31/09 3:13	heasler	Q40290
Lead	170	mg/kg	0.30	0.023	1	6010B	03/31/09 3:13	heasler	Q40290
Sample Preparation:				2.04 g /	50 mL	3050B	03/30/09 8:20	mbarber	P24131

Sample Comment(s):

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BFW-2-0.5
Prism Sample ID: 241480
COC Group: G0309661
Time Collected: 03/24/09 12:39
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	85.9	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	11	mg/kg	0.57	0.057	1	6010B	03/31/09 3:19	heasler	Q40290
Lead	70	mg/kg	0.29	0.022	1	6010B	03/31/09 3:19	heasler	Q40290
Sample Preparation:				2.03 g /	50 mL	3050B	03/30/09 8:20	mbarber	P24131

Sample Comment(s):

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Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BFW-2-2
Prism Sample ID: 241481
COC Group: G0309661
Time Collected: 03/24/09 12:42
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	76.4	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	6.2	mg/kg	0.66	0.065	1	6010B	03/31/09 3:26	heasler	Q40290
Lead	45	mg/kg	0.33	0.025	1	6010B	03/31/09 3:26	heasler	Q40290
Sample Preparation:				1.99 g /	50 mL	3050B	03/30/09 8:20	mbarber	P24131

Sample Comment(s):

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Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BFW-3-0.5
Prism Sample ID: 241482
COC Group: G0309661
Time Collected: 03/24/09 12:48
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	90.0	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	6.1	mg/kg	0.56	0.055	1	6010B	03/31/09 3:32	heasler	Q40290
Lead	74	mg/kg	0.28	0.021	1	6010B	03/31/09 3:32	heasler	Q40290
Sample Preparation:				2 g /	50 mL	3050B	03/30/09 8:20	mbarber	P24131
pH Value, Electrometric Method									
pH	7.13	pH units			1	9045C	03/25/09 12:59	kpowers	Q40174

Sample Comment(s):

BRL = Below Reporting Limit

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BFW-3-2
Prism Sample ID: 241483
COC Group: G0309661
Time Collected: 03/24/09 12:52
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	78.6	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	7.9	mg/kg	0.63	0.062	1	6010B	03/31/09 3:38	heasler	Q40290
Lead	40	mg/kg	0.31	0.024	1	6010B	03/31/09 3:38	heasler	Q40290
Sample Preparation:				2.03 g /	50 mL	3050B	03/30/09 8:20	mbarber	P24131

Sample Comment(s):

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BFW-4-0.5
Prism Sample ID: 241484
COC Group: G0309661
Time Collected: 03/24/09 12:59
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**75.1**	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	**5.6**	mg/kg	0.65	0.065	1	6010B	04/01/09 19:33	heasler	Q40320
Lead	**120**	mg/kg	0.33	0.025	1	6010B	04/01/09 19:33	heasler	Q40320
Sample Preparation:				2.04 g /	50 mL	3050B	03/30/09 9:50	mbarber	P24132
pH Value, Electrometric Method									
pH	**7.78**	pH units			1	9045C	03/25/09 13:00	kpowers	Q40174

Sample Comment(s):

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Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BFW-4-2
Prism Sample ID: 241485
COC Group: G0309661
Time Collected: 03/24/09 13:02
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	75.1	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	12	mg/kg	0.66	0.065	1	6010B	04/01/09 19:54	heasler	Q40320
Lead	76	mg/kg	0.33	0.025	1	6010B	04/01/09 19:54	heasler	Q40320
Sample Preparation:				2.02 g /	50 mL	3050B	03/30/09 9:50	mbarber	P24132

Sample Comment(s):

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Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BFW-5-0.5
Prism Sample ID: 241486
COC Group: G0309661
Time Collected: 03/24/09 13:07
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	81.5	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	29	mg/kg	0.62	0.061	1	6010B	04/01/09 20:01	heasler	Q40320
Lead	250	mg/kg	7.6	0.12	5	6010B	04/02/09 18:39	heasler	Q40320
Sample Preparation:				1.99 g /	50 mL	3050B	03/30/09 9:50	mbarber	P24132
TCLP Extraction for Metals									
TCLP Extraction	Complete				1	1311	05/14/09 14:40	mbarber	
TCLP Leachable Mercury by CVAA									
Mercury	BRL	mg/L	0.010	0.000014	1	7470A	05/19/09 16:12	dsullivan	Q41592
Sample Preparation:				20 mL /	30 mL	7470A	05/19/09 10:00	dsullivan	P24594
TCLP Leachable Metals by ICP									
Arsenic	BRL	mg/L	0.050	0.0029	1	6010B	05/22/09 5:00	heasler	Q41637
Barium	BRL	mg/L	5.0	0.0019	1	6010B	05/22/09 5:00	heasler	Q41637
Cadmium	BRL	mg/L	0.025	0.00034	1	6010B	05/22/09 5:00	heasler	Q41637
Chromium	BRL	mg/L	0.25	0.0006	1	6010B	05/22/09 5:00	heasler	Q41637
Lead	BRL	mg/L	0.050	0.0021	1	6010B	05/22/09 5:00	heasler	Q41637
Selenium	BRL	mg/L	0.050	0.0035	1	6010B	05/22/09 5:00	heasler	Q41637
Silver	BRL	mg/L	0.25	0.00025	1	6010B	05/22/09 5:00	heasler	Q41637
Sample Preparation:				50 mL /	50 mL	3010A	05/15/09 9:50	mbarber	P24568

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Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BFW-5-0.5
Prism Sample ID: 241486
COC Group: G0309661
Time Collected: 03/24/09 13:07
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

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Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BFW-5-2
Prism Sample ID: 241487
COC Group: G0309661
Time Collected: 03/24/09 13:15
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**80.0**	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	**27**	mg/kg	0.63	0.062	1	6010B	04/01/09 20:06	heasler	Q40320
Lead	**170**	mg/kg	0.31	0.024	1	6010B	04/01/09 20:06	heasler	Q40320
Sample Preparation:				2 g /	50 mL	3050B	03/30/09 9:50	mbarber	P24132
TCLP Extraction for Metals									
TCLP Extraction	**Complete**				1	1311	05/14/09 14:40	mbarber	
TCLP Leachable Mercury by CVAA									
Mercury	BRL	mg/L	0.010	0.000014	1	7470A	05/19/09 16:16	dsullivan	Q41592
Sample Preparation:				20 mL /	30 mL	7470A	05/19/09 10:00	dsullivan	P24594
TCLP Leachable Metals by ICP									
Arsenic	BRL	mg/L	0.050	0.0029	1	6010B	05/22/09 5:07	heasler	Q41637
Barium	BRL	mg/L	5.0	0.0019	1	6010B	05/22/09 5:07	heasler	Q41637
Cadmium	BRL	mg/L	0.025	0.00034	1	6010B	05/22/09 5:07	heasler	Q41637
Chromium	BRL	mg/L	0.25	0.0006	1	6010B	05/22/09 5:07	heasler	Q41637
Lead	BRL	mg/L	0.050	0.0021	1	6010B	05/22/09 5:07	heasler	Q41637
Selenium	BRL	mg/L	0.050	0.0035	1	6010B	05/22/09 5:07	heasler	Q41637
Silver	BRL	mg/L	0.25	0.00025	1	6010B	05/22/09 5:07	heasler	Q41637
Sample Preparation:				50 mL /	50 mL	3010A	05/15/09 9:50	mbarber	P24568

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BFW-5-2
Prism Sample ID: 241487
COC Group: G0309661
Time Collected: 03/24/09 13:15
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

BRL = Below Reporting Limit

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Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BFW-6-0.5
Prism Sample ID: 241488
COC Group: G0309661
Time Collected: 03/24/09 13:16
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	87.0	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	8.1	mg/kg	0.56	0.056	1	6010B	04/01/09 20:12	heasler	Q40320
Lead	89	mg/kg	0.28	0.022	1	6010B	04/01/09 20:12	heasler	Q40320
Sample Preparation:				2.05 g /	50 mL	3050B	03/30/09 9:50	mbarber	P24132
pH Value, Electrometric Method									
pH	7.85	pH units			1	9045C	03/25/09 13:01	kpowers	Q40174

Sample Comment(s):

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Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: BFW-6-2
Prism Sample ID: 241489
COC Group: G0309661
Time Collected: 03/24/09 13:18
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	85.1	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	6.8	mg/kg	0.58	0.058	1	6010B	04/01/09 20:18	heasler	Q40320
Lead	160	mg/kg	0.29	0.022	1	6010B	04/01/09 20:18	heasler	Q40320
Sample Preparation:				2.02 g /	50 mL	3050B	03/30/09 9:50	mbarber	P24132

Sample Comment(s):

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Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-1-1
Prism Sample ID: 241490
COC Group: G0309661
Time Collected: 03/24/09 11:07
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	85.9	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	5.4	mg/kg	0.58	0.058	1	6010B	04/01/09 20:34	heasler	Q40320
Lead	53	mg/kg	0.29	0.022	1	6010B	04/01/09 20:34	heasler	Q40320
Sample Preparation:				2 g /	50 mL	3050B	03/30/09 9:50	mbarber	P24132

Sample Comment(s):

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Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-1-5
Prism Sample ID: 241491
COC Group: G0309661
Time Collected: 03/24/09 11:08
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	83.6	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	4.9	mg/kg	0.60	0.060	1	6010B	04/01/09 20:40	heasler	Q40320
Lead	23	mg/kg	0.30	0.023	1	6010B	04/01/09 20:40	heasler	Q40320
Sample Preparation:				1.99 g /	50 mL	3050B	03/30/09 9:50	mbarber	P24132

Sample Comment(s):

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Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-2-1
Prism Sample ID: 241492
COC Group: G0309661
Time Collected: 03/24/09 11:04
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**83.6**	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	**7.7**	mg/kg	0.59	0.058	1	6010B	04/01/09 20:46	heasler	Q40320
Lead	**87**	mg/kg	0.29	0.023	1	6010B	04/01/09 20:46	heasler	Q40320
Sample Preparation:			2.03 g /		50 mL	3050B	03/30/09 9:50	mbarber	P24132
pH Value, Electrometric Method									
pH	**4.39**	pH units			1	9045C	03/25/09 13:02	kpowers	Q40174

Sample Comment(s):

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Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-2-5
Prism Sample ID: 241493
COC Group: G0309661
Time Collected: 03/24/09 11:05
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	79.7	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	5.6	mg/kg	0.62	0.062	1	6010B	04/01/09 20:54	heasler	Q40320
Lead	17	mg/kg	0.31	0.024	1	6010B	04/01/09 20:54	heasler	Q40320
Sample Preparation:				2.01 g /	50 mL	3050B	03/30/09 9:50	mbarber	P24132

Sample Comment(s):

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Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-3-1
Prism Sample ID: 241494
COC Group: G0309661
Time Collected: 03/24/09 10:58
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	85.1	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	12	mg/kg	0.57	0.057	1	6010B	04/01/09 20:59	heasler	Q40320
Lead	140	mg/kg	0.29	0.022	1	6010B	04/01/09 20:59	heasler	Q40320
Sample Preparation:				2.05 g /	50 mL	3050B	03/30/09 9:50	mbarber	P24132

Sample Comment(s):

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Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-3-5
Prism Sample ID: 241495
COC Group: G0309661
Time Collected: 03/24/09 10:59
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	83.6	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	9.6	mg/kg	0.59	0.059	1	6010B	04/01/09 21:06	heasler	Q40320
Lead	9.2	mg/kg	0.30	0.023	1	6010B	04/01/09 21:06	heasler	Q40320
Sample Preparation:				2.02 g /	50 mL	3050B	03/30/09 9:50	mbarber	P24132

Sample Comment(s):

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Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-4-1
Prism Sample ID: 241496
COC Group: G0309661
Time Collected: 03/24/09 10:51
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	86.1	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	16	mg/kg	0.58	0.057	1	6010B	04/01/09 21:12	heasler	Q40320
Lead	33	mg/kg	0.29	0.022	1	6010B	04/01/09 21:12	heasler	Q40320
Sample Preparation:				2 g /	50 mL	3050B	03/30/09 9:50	mbarber	P24132

Sample Comment(s):

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Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-4-5
Prism Sample ID: 241497
COC Group: G0309661
Time Collected: 03/24/09 10:52
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**80.0**	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	**4.9**	mg/kg	0.62	0.061	1	6010B	04/01/09 21:19	heasler	Q40320
Lead	**26**	mg/kg	0.31	0.024	1	6010B	04/01/09 21:19	heasler	Q40320
Sample Preparation:				2.02 g /	50 mL	3050B	03/30/09 9:50	mbarber	P24132

Sample Comment(s):

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Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-5-1
Prism Sample ID: 241498
COC Group: G0309661
Time Collected: 03/24/09 10:49
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	82.2	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	11	mg/kg	0.61	0.060	1	6010B	04/03/09 3:58	heasler	Q40406
Lead	78	mg/kg	0.30	0.023	1	6010B	04/03/09 3:58	heasler	Q40406
Sample Preparation:				2 g /	50 mL	3050B	04/01/09 10:00	mbarber	P24159

Sample Comment(s):

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Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-5-5
Prism Sample ID: 241499
COC Group: G0309661
Time Collected: 03/24/09 10:50
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**80.3**	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	**5.9**	mg/kg	0.61	0.060	1	6010B	04/03/09 4:18	heasler	Q40406
Lead	**35**	mg/kg	0.31	0.024	1	6010B	04/03/09 4:18	heasler	Q40406
Sample Preparation:				2.04 g /	50 mL	3050B	04/01/09 10:00	mbarber	P24159

Sample Comment(s):

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Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-6-1
Prism Sample ID: 241500
COC Group: G0309661
Time Collected: 03/24/09 10:36
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	81.7	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	11	mg/kg	0.60	0.059	1	6010B	04/03/09 4:24	heasler	Q40406
Lead	63	mg/kg	0.30	0.023	1	6010B	04/03/09 4:24	heasler	Q40406
Sample Preparation:				2.05 g /	50 mL	3050B	04/01/09 10:00	mbarber	P24159
pH Value, Electrometric Method									
pH	4.81	pH units			1	9045C	03/25/09 13:03	kpowers	Q40174

Sample Comment(s):

BRL = Below Reporting Limit

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Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-6-5
Prism Sample ID: 241501
COC Group: G0309661
Time Collected: 03/24/09 10:38
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	87.7	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	18	mg/kg	0.56	0.055	1	6010B	04/03/09 4:30	heasler	Q40406
Lead	26	mg/kg	0.28	0.022	1	6010B	04/03/09 4:30	heasler	Q40406
Sample Preparation:			2.04 g	/	50 mL	3050B	04/01/09 10:00	mbarber	P24159

Sample Comment(s):

BRL = Below Reporting Limit

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Angela D. Overcash, V.P. Laboratory Services

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SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-7-1
Prism Sample ID: 241502
COC Group: G0309661
Time Collected: 03/24/09 10:23
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	86.2	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	BRL	mg/kg	0.57	0.056	1	6010B	04/03/09 4:37	heasler	Q40406
Lead	7.5	mg/kg	0.28	0.022	1	6010B	04/03/09 4:37	heasler	Q40406
Sample Preparation:				2.04 g /	50 mL	3050B	04/01/09 10:00	mbarber	P24159

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-7-5
Prism Sample ID: 241503
COC Group: G0309661
Time Collected: 03/24/09 10:24
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	89.8	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	BRL	mg/kg	0.56	0.055	1	6010B	04/03/09 4:42	heasler	Q40406
Lead	6.7	mg/kg	0.28	0.022	1	6010B	04/03/09 4:42	heasler	Q40406
Sample Preparation:			1.99 g	/	50 mL	3050B	04/01/09 10:00	mbarber	P24159

Sample Comment(s):

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05/26/09

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-8-1
Prism Sample ID: 241504
COC Group: G0309661
Time Collected: 03/24/09 10:19
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	87.1	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Metals by ICP									
Arsenic	0.70	mg/kg	0.57	0.056	1	6010B	04/03/09 4:58	heasler	Q40406
Lead	8.1	mg/kg	0.28	0.022	1	6010B	04/03/09 4:58	heasler	Q40406
Sample Preparation:					2.02 g / 50 mL	3050B	04/01/09 10:00	mbarber	P24159

Sample Comment(s):

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Laboratory Report

05/26/09

North Carolina Department of Transportation
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-8-5
Prism Sample ID: 241505
COC Group: G0309661
Time Collected: 03/24/09 10:20
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	83.1	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	BRL	mg/kg	0.60	0.059	1	6010B	04/03/09 5:05	heasler	Q40406
Lead	12	mg/kg	0.30	0.023	1	6010B	04/03/09 5:05	heasler	Q40406
Sample Preparation:				2.02 g /	50 mL	3050B	04/01/09 10:00	mbarber	P24159

Sample Comment(s):

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-9-1
Prism Sample ID: 241506
COC Group: G0309661
Time Collected: 03/24/09 10:16
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	79.9	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	12	mg/kg	0.61	0.060	1	6010B	04/03/09 5:10	heasler	Q40406
Lead	48	mg/kg	0.31	0.024	1	6010B	04/03/09 5:10	heasler	Q40406
Sample Preparation:				2.05 g /	50 mL	3050B	04/01/09 10:00	mbarber	P24159

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-9-5
Prism Sample ID: 241507
COC Group: G0309661
Time Collected: 03/24/09 10:17
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**84.5**	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	**9.2**	mg/kg	0.59	0.058	1	6010B	04/03/09 5:17	heasler	Q40406
Lead	**43**	mg/kg	0.29	0.023	1	6010B	04/03/09 5:17	heasler	Q40406
Sample Preparation:				2.02 g /	50 mL	3050B	04/01/09 10:00	mbarber	P24159

Sample Comment(s):

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-18-1
Prism Sample ID: 241508
COC Group: G0309661
Time Collected: 03/24/09 10:14
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	82.1	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	2.4	mg/kg	0.61	0.060	1	6010B	04/03/09 5:23	heasler	Q40406
Lead	17	mg/kg	0.30	0.024	1	6010B	04/03/09 5:23	heasler	Q40406
Sample Preparation:				2 g /	50 mL	3050B	04/01/09 10:00	mbarber	P24159

Sample Comment(s):

BRL = Below Reporting Limit

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05/26/09

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 10-18-8
Prism Sample ID: 241509
COC Group: G0309661
Time Collected: 03/24/09 10:15
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**88.8**	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	**BRL**	mg/kg	0.55	0.055	1	6010B	04/03/09 5:30	heasler	Q40406
Lead	**6.7**	mg/kg	0.28	0.021	1	6010B	04/03/09 5:30	heasler	Q40406
Sample Preparation:			2.03 g /		50 mL	3050B	04/01/09 10:00	mbarber	P24159

Sample Comment(s):

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-15-1
Prism Sample ID: 241510
COC Group: G0309661
Time Collected: 03/24/09 14:50
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	80.6	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	BRL	mg/kg	0.61	0.061	1	6010B	04/03/09 5:36	heasler	Q40406
Lead	13	mg/kg	0.31	0.024	1	6010B	04/03/09 5:36	heasler	Q40406
Sample Preparation:			2.02 g / 50 mL			3050B	04/01/09 10:00	mbarber	P24159
pH Value, Electrometric Method									
pH	5.67	pH units			1	9045C	03/25/09 13:04	kpowers	Q40174

Sample Comment(s):

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05/26/09

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Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-15-3
Prism Sample ID: 241511
COC Group: G0309661
Time Collected: 03/24/09 14:52
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	83.3	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	47	mg/kg	0.60	0.060	1	6010B	04/03/09 5:41	heasler	Q40406
Lead	970	mg/kg	30	0.23	10	6010B	04/03/09 18:58	heasler	Q40406
Sample Preparation:				1.99 g /	50 mL	3050B	04/01/09 10:00	mbarber	P24159
pH Value, Electrometric Method									
pH	6.82	pH units			1	9045C	03/25/09 13:05	kpowers	Q40174
TCLP Extraction for Metals									
TCLP Extraction	Complete				1	1311	05/14/09 14:40	mbarber	
TCLP Leachable Mercury by CVAA									
Mercury	BRL	mg/L	0.010	0.000014	1	7470A	05/19/09 16:27	dsullivan	Q41592
Sample Preparation:				20 mL /	30 mL	7470A	05/19/09 10:00	dsullivan	P24594
TCLP Leachable Metals by ICP									
Arsenic	BRL	mg/L	0.050	0.0029	1	6010B	05/22/09 5:13	heasler	Q41637
Barium	BRL	mg/L	5.0	0.0019	1	6010B	05/22/09 5:13	heasler	Q41637
Cadmium	BRL	mg/L	0.025	0.00034	1	6010B	05/22/09 5:13	heasler	Q41637
Chromium	BRL	mg/L	0.25	0.0006	1	6010B	05/22/09 5:13	heasler	Q41637
Lead	0.26	mg/L	0.050	0.0021	1	6010B	05/22/09 5:13	heasler	Q41637
Selenium	BRL	mg/L	0.050	0.0035	1	6010B	05/22/09 5:13	heasler	Q41637
Silver	BRL	mg/L	0.25	0.00025	1	6010B	05/22/09 5:13	heasler	Q41637
Sample Preparation:				50 mL /	50 mL	3010A	05/15/09 9:50	mbarber	P24568

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-15-3
Prism Sample ID: 241511
COC Group: G0309661
Time Collected: 03/24/09 14:52
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

Sample Comment(s):

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Laboratory Report

05/26/09

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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-16-2
Prism Sample ID: 241512
COC Group: G0309661
Time Collected: 03/24/09 15:05
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	81.4	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	7.6	mg/kg	0.61	0.061	1	6010B	04/03/09 5:49	heasler	Q40406
Lead	1500	mg/kg	31	0.24	10	6010B	04/03/09 19:05	heasler	Q40406
Sample Preparation:				2.01 g /	50 mL	3050B	04/01/09 10:00	mbarber	P24159

Sample Comment(s):

BRL = Below Reporting Limit

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Attn: David Graham
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 8-16-7
Prism Sample ID: 241513
COC Group: G0309661
Time Collected: 03/24/09 15:06
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**84.3**	%			1	SM2540 G	03/30/09 15:10	kpowers	
Metals by ICP									
Arsenic	**8.6**	mg/kg	0.60	0.059	1	6010B	04/03/09 5:55	heasler	Q40406
Lead	**1100**	mg/kg	30	0.23	10	6010B	04/03/09 19:12	heasler	Q40406
Sample Preparation:				1.99 g /	50 mL	3050B	04/01/09 10:00	mbarber	P24159

Sample Comment(s):

BRL = Below Reporting Limit

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Laboratory Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 11-9-1
Prism Sample ID: 241514
COC Group: G0309661
Time Collected: 03/23/09 14:20
Time Submitted: 03/25/09 8:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**84.5**	%			1	SM2540 G	03/27/09 14:30	dsullivan	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**BRL**	mg/kg	8.3	1.3	1	8015B	03/27/09 15:28	jvogel	Q40268
Sample Preparation:				25 g /	1 mL	3545	03/26/09 12:00	pbarr	P24125

Surrogate	% Recovery	Control Limits
o-Terphenyl	71	49 - 124

Sample Weight Determination									
Weight 1	**6.09**	g			1	GRO	03/25/09 0:00	lbrown	
Weight 2	**6.37**	g			1	GRO	03/25/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	5.9	3.7	50	8015B	03/27/09 15:08	dliamm	Q40222

Surrogate	% Recovery	Control Limits
aaa-TFT	94	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit
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Level II QC Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1

COC Group Number: G0309661
Date/Time Submitted: 03/25/09 8:15

pH Value, Electrometric Method, method 9045C

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
pH	6.84	6.86	pH units	100	99.21-100.7	Q40174

Duplicate Sample ID:	Sample Result	Duplicate Result	Units	RPD %	RPD Range %	QC Batch ID
241511 pH	6.82	6.90	pH units	1	0 - 20	Q40174

Gasoline Range Organics (GRO) by GC-FID, method 8015B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg	Q40222

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Gasoline Range Organics (GRO)	43.75	50	mg/kg	88	67-116	Q40222

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
241514 Gasoline Range Organics (GRO)	31.45	50	mg/kg	63	57-113	Q40222

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
241514 Gasoline Range Organics (GRO)	35.3	50	mg/kg	71	57-113	12	0 - 23	Q40222

Diesel Range Organics (DRO) by GC-FID, method 8015B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg	Q40268

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Diesel Range Organics (DRO)	81.4	80	mg/kg	102	55-109	Q40268

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
241467 Diesel Range Organics (DRO)	71.5	80	mg/kg	89	50-117	Q40268

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
241467 Diesel Range Organics (DRO)	56.6	80	mg/kg	71	50-117	23	0 - 24	Q40268

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1

COC Group Number: G0309661
Date/Time Submitted: 03/25/09 8:15

Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Arsenic	0.0105	0.5	<0.25	mg/kg	Q40290
Lead	0.0182	0.25	<0.125	mg/kg	Q40290

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Arsenic	24.3801	25	mg/kg	98	80-120	Q40290
Lead	24.3562	25	mg/kg	97	80-120	Q40290

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
241470 Arsenic	24.8061	25	mg/kg	84	75-125	Q40290
Lead	39.2813	25	mg/kg	76	75-125	Q40290

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
241470 Arsenic	24.9538	25	mg/kg	84	75-125	1	0 - 20	Q40290
Lead	40.9961	25	mg/kg	83	75-125	4	0 - 20	Q40290

Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Arsenic	-0.0028	0.5	<0.25	mg/kg	Q40320
Lead	0.0159	0.25	<0.125	mg/kg	Q40320

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Arsenic	23.4866	25	mg/kg	94	80-120	Q40320
Lead	23.2061	25	mg/kg	93	80-120	Q40320

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
241484 Arsenic	21.8606	24.390	mg/kg	72 #	75-125	Q40320
Lead	79.7692	24.390	mg/kg	-29 #	75-125	Q40320

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
241484 Arsenic	22.7475	24.752	mg/kg	75 #	75-125	4	0 - 20	Q40320
Lead	84.9118	24.752	mg/kg	-8 #	75-125	6	0 - 20	Q40320

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1

COC Group Number: G0309661
Date/Time Submitted: 03/25/09 8:15

Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Arsenic	-0.0171	0.5	<0.25	mg/kg	Q40406
Lead	0.0334	0.25	<0.125	mg/kg	Q40406

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Arsenic	22.1941	25	mg/kg	89	80-120	Q40406
Lead	22.3897	25	mg/kg	90	80-120	Q40406

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
241498 Arsenic	29.0487	24.390	mg/kg	82	75-125	Q40406
Lead	97.8738	24.390	mg/kg	137 #	75-125	Q40406

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
241498 Arsenic	30.443	24.509	mg/kg	88	75-125	5	0 - 20	Q40406
Lead	97.843	24.509	mg/kg	136 #	75-125	0	0 - 20	Q40406

TCLP Leachable Mercury by CVAA, method 7470A

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Mercury	-0.00004	0.01	<0.005	mg/L	Q41592

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Mercury	0.00811	0.0093	mg/L	87	80-120	Q41592

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
246271 Mercury	0.00822	0.0093	mg/L	88	80-120	Q41592

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
246271 Mercury	0.00790	0.0093	mg/L	85	80-120	4	0 - 20	Q41592

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1

COC Group Number: G0309661
Date/Time Submitted: 03/25/09 8:15

TCLP Leachable Metals by ICP, method 6010B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Arsenic	0.0003	0.05	<0.025	mg/L	Q41637
Barium	0.0013	5	<2.5	mg/L	Q41637
Cadmium	-0.0001	0.025	<0.0125	mg/L	Q41637
Chromium	0.0003	0.25	<0.125	mg/L	Q41637
Lead	0.0001	0.05	<0.025	mg/L	Q41637
Selenium	0.0006	0.05	<0.025	mg/L	Q41637
Silver	-0.0001	0.25	<0.125	mg/L	Q41637

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Arsenic	0.2472	0.25	mg/L	99	80-120	Q41637
Barium	0.2217	0.25	mg/L	89	80-120	Q41637
Cadmium	0.229	0.25	mg/L	92	80-120	Q41637
Chromium	0.2161	0.25	mg/L	86	80-120	Q41637
Lead	0.2148	0.25	mg/L	86	80-120	Q41637
Selenium	0.2479	0.25	mg/L	99	80-120	Q41637
Silver	0.2368	0.25	mg/L	95	80-120	Q41637

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
241364 Arsenic	0.2269	0.25	mg/L	91	75-125	Q41637
Barium	0.4344	0.25	mg/L	80	75-125	Q41637
Cadmium	0.2126	0.25	mg/L	85	75-125	Q41637
Chromium	0.1907	0.25	mg/L	76	75-125	Q41637
Lead	0.2061	0.25	mg/L	79	75-125	Q41637
Selenium	0.2268	0.25	mg/L	91	75-125	Q41637
Silver	0.2276	0.25	mg/L	91	75-125	Q41637

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
241364 Arsenic	0.2385	0.25	mg/L	95	75-125	5	0 - 20	Q41637
Barium	0.4552	0.25	mg/L	88	75-125	5	0 - 20	Q41637
Cadmium	0.2219	0.25	mg/L	89	75-125	4	0 - 20	Q41637
Chromium	0.2079	0.25	mg/L	83	75-125	9	0 - 20	Q41637
Lead	0.2147	0.25	mg/L	83	75-125	4	0 - 20	Q41637
Selenium	0.238	0.25	mg/L	95	75-125	5	0 - 20	Q41637
Silver	0.2326	0.25	mg/L	93	75-125	2	0 - 20	Q41637

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

05/26/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1

COC Group Number: G0309661
Date/Time Submitted: 03/25/09 8:15

TCLP Leachable Mercury by CVAA, method 7470A

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Mercury	-0.00005	0.01	<0.005	mg/L	Q41662

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Mercury	0.00926	0.0093	mg/L	99	80-120	Q41662

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
246390 Mercury	0.01045	0.0093	mg/L	101	80-120	Q41662

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
246390 Mercury	0.00968	0.0093	mg/L	92	80-120	8	0 - 20	Q41662

#-See Case Narrative

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

PAGE 2 OF 5 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: RDU-204 WBS Element 34871.1.1
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: WBS Element 34871.1.1
Address: _____

Client Company Name: Hart & Hickman
Report To/Contact Name: Dave Graham
Reporting Address: _____

Phone: _____ Fax (Yes) (No): _____
Email (Yes) (No) Email Address _____
EDD Type: PDF____ Excel____ Other_____
Site Location Name: _____
Site Location Physical Address: _____

Purchase Order No./Billing Reference _____
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival? Temp: D-5	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC____ USACE____ FL____ NC✓
SC____ OTHER _____ N/A _____
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES ✓ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED: TPH Diesel & Gasoline w/ BTEX	ANALYSES REQUESTED: pH	ANALYSES REQUESTED:	ANALYSES REQUESTED:	ANALYSES REQUESTED:	ANALYSES REQUESTED:	REMARKS	PRISM LAB ID NO.
BFW-2-0.5	3/24/09	1239	SOIL	CG	1		NONE	X							241480
BFW-2-2		1242						X							241481
BFW-3-0.5		1248						X	X						241482
BFW-3-2		1252						X							241483
BFW-4-0.5		1259						X	X						241484
BFW-4-2		1302						X							241485
BFW-5-0.5		1307						X			Added	TCLP Metals			241486
BFW-5-$2	per Matt Bramlett	1315						X				1			241487
BFW-10-0.5		1316						X	X						241488
BFW-10-$2	per Matt Bramlett	1318						X							241489

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature Holly Burnwinkle Sampled By (Print Name) Holly Burnwinkle Affiliation Hart & Hickman

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

	Received By: (Signature)	Date	Military/Hours
Relinquished By: (Signature) Holly Burnwinkle		3-26-09	1540
Relinquished By: (Signature) Dave Morris 3-28-09 0815	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 3/25/09	815

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____

COC Group No. G03a9661

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 3 OF 5 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: ROW-204 WBS Element 34871.1.1
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: WBS Element 34871.1.1
Address: _____

Client Company Name: Hart & Hickman
Report To/Contact Name: Dave Graham
Reporting Address: _____

Phone: _____ Fax (Yes) (No): _____
Email (Yes) (No) Email Address _____
EDD Type: PDF____ Excel____ Other_____
Site Location Name: _____
Site Location Physical Address: _____

Purchase Order No./Billing Reference _____
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?			
Received ON WET ICE? Temp 0.6	✓		
PROPER PRESERVATIVES indicated?			✓
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC____ USACE____ FL____ NC ✓
SC____ OTHER _____ N/A _____
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES ✓ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED *TOTAL Hydrocarbons (GRO/DRO)	ANALYSES REQUESTED pH	ANALYSES REQUESTED	ANALYSES REQUESTED	ANALYSES REQUESTED	ANALYSES REQUESTED	REMARKS	PRISM LAB ID NO.
10-1-1	3/24/09	1107	SOIL	CG	1		NONE	X							241490
10-1-5		1108						X							241491
10-2-1		1104						X	X						241492
10-2-5		1105						X							241493
10-3-1		1058						X							241494
10-3-5		1059						X							241495
10-4-1		1051						X							241496
10-4-5		1052						X							241497
10-5-1		1049						X							241498
10-5-5		1050						X							241499

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Sampler's Signature Holly Burwinkle Sampled By (Print Name) Holly Burwinkle Affiliation Hart & Hickman

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature) Holly Burwinkle	Received By: (Signature) Dave Graham	3-24-09	1540
Relinquished By: (Signature) Dave Graham 3-25-09 0815	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 3/25/09	815

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____

COC Group No. G030966l

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

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Phone: 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 4 OF 5 QUOTE # TO ENSURE PROPER BILLING: ______

LAB USE ONLY	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 0.5	✓		
PROPER PRESERVATIVES indicated?			✓
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

Client Company Name: Hart & Hickman
Report To/Contact Name: Dave Graham
Reporting Address: ______
Phone: ______ Fax (Yes) (No): ______
Email (Yes) (No) Email Address ______
EDD Type: PDF____ Excel____ Other______
Site Location Name: ______
Site Location Physical Address: ______

Project Name: ROW-204 WBS Element 34871.1.1
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: ______
Address: ______

Purchase Order No./Billing Reference ______
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ USACE____ FL____ NC ✓
SC____ OTHER ______ N/A ______
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES ✓ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	Total Lead	Arsenic 6010B	pH				REMARKS	PRISM LAB ID NO.
10-6-1	3/24/09	1030	SOIL	CG	1		NONE	X	X						241500
10-6-5	↓	1038	↓	↓	↓		↓	X							241501
10-7-1	↓	1023	↓	↓	↓		↓	X							241502
10-7-5	↓	1024	↓	↓	↓		↓	X							241503
10-8-1	↓	1019	↓	↓	↓		↓	X							241504
10-8-5	↓	1020	↓	↓	↓		↓	X							241505
10-9-1	↓	1016	↓	↓	↓		↓	X							241506
10-9-5	↓	1017	↓	↓	↓		↓	X							241507
10-18-1	↓	1014	↓	↓	↓		↓	X							241508
10-18-8	↓	1015	↓	↓	↓		↓	X							241509

Sampler's Signature Holly Brunkle Sampled By (Print Name) Holly Brunkle Affiliation Hart & Hickman

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Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Holly Brunkle	Dave Morris	3/24/09	1520
Relinquished By: (Signature) Dave Morris 3-25-09 0815	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	3/25/09	815

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Prism Field Service ☐ Other ______

COC Group No. G0309661

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES: ☐ NC ☐ SC ☐ ____ | UST: ☐ NC ☐ SC ☐ ____ | GROUNDWATER: ☐ NC ☐ SC ☐ ____ | DRINKING WATER: ☐ NC ☐ SC ☐ ____ | SOLID WASTE: ☐ NC ☐ SC ☐ ____ | RCRA: ☐ NC ☐ SC ☐ ____ | CERCLA ☐ NC ☐ SC ☐ ____ | LANDFILL ☐ NC ☐ SC ☐ ____ | OTHER: ☐ NC ☐ SC ☐ ____

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 5 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: ROW-204 WBS Element 34871.1.1

Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)

*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Invoice To: WBS Element 34871.1.1

Address: _____

Client Company Name: Hart & Hickman

Report To/Contact Name: Dave Graham

Reporting Address: 2923 S. Tryon St. Ste 100 Charlotte, NC

Phone: 704-586-0007 Fax (Yes) (No): _____

Email (Yes) (No) Email Address dgraham@harthickman.com

EDD Type: PDF 1 Excel ___ Other _____

Site Location Name: _____

Site Location Physical Address: Winston-Salem, NC

Purchase Order No./Billing Reference _____

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days

"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved

Samples received after 15:00 will be processed next business day.

Turnaround time is based on business days, excluding weekends and holidays.

(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 0.5	✓		
PROPER PRESERVATIVES indicated?			✓
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ USACE ___ FL ___ NC ✓

SC ___ OTHER ___ N/A ___

Water Chlorinated: YES ___ NO ___

Sample Iced Upon Collection: YES ✓ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED: Lead, Arsenic 6010B	ANALYSES REQUESTED: pH	REMARKS	PRISM LAB ID NO.
B-1-0.5	3/24/09	0841	SOIL	CG	1		NONE	X			241470
B-2-0.5		0923						X		Added TCLP Metals per Matt Bramlett	241471
B-3-0.5		0924						X	X		241472
B-4-0.5		0925						X			241473
9-1-1		1346						X	X		241474
9-1-5		1350						X	X	Added TCLP Metals	241475
9-2-1		1329						X	X		241476
9-2-5		1336						X	X		241477
BFW-1-0.5		1235						X	X		241478
BFW-1-2		1232						X			241479

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature Holly Burnwinkle Sampled By (Print Name) Holly Burnwinkle Affiliation Hart & Hickman

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature) Holly Burnwinkle	Received By: (Signature) Dave Moore	3-24-09	1540
Relinquished By: (Signature) Dave Moore 3-25-09 0815	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 3/25/09	815

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____

COC Group No. G03094661

Additional Comments:

PRISM USE ONLY

Site Arrival Time:

Site Departure Time:

Field Tech Fee:

Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

PAGE 5 OF 5 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: ROW-204 WBS Element 34871.1.1
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: WBS Element 34871.1.1
Address: _____

Client Company Name: Hart & Hickman
Report To/Contact Name: Dave Graham
Reporting Address: _____

Phone: _____ Fax (Yes) (No): _____
Email (Yes) (No) Email Address _____
EDD Type: PDF ___ Excel ___ Other _____
Site Location Name: _____
Site Location Physical Address: _____

Purchase Order No./Billing Reference _____
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 0.5	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ USACE ___ FL ___ NC ✓
SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ✓ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED: TCL VOCs + Xylenes + EDB	ANALYSES REQUESTED: TPH-DRO 8015B	ANALYSES REQUESTED:	ANALYSES REQUESTED:	ANALYSES REQUESTED:	REMARKS	PRISM LAB ID NO.
8-15-1	3/24/09	1450	SOIL	CG	1		NONE	X	X					241510
8-15-3		1452						X	X				Added RCP Metals	241511
8-16-2		1505						X						241512
8-16-7		1506						X						241513
11-9-1	3/23/09	1420			4					X				241514

Sampler's Signature Holly Burnside Sampled By (Print Name) Holly Burnside Affiliation Hart & Hickman

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

	Received By: (Signature)	Date	Military/Hours
Relinquished By: (Signature) Holly Burnside	Dave Mors	3-24-09	1540
Relinquished By: (Signature) Dave Mors 3-25-09 0815	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 3/25/09	815

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____

COC Group No. GP3B9661

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___

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SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

PRISM LABORATORIES, INC.

Case Narrative

Date:	04/03/09	**Client Project ID:**	ROW-204
Company:	North Carolina Department of Transportation	**Prism COC Group No:**	G0309660
Contact:	David Graham	**Collection Date(s):**	03/24/09
Address:	c/o Hart and Hickman	**Lab Submittal Date(s):**	03/25/09
	2923 South Tryon St. Ste 100		
	Charlotte, NC 28203	**Client Project Name Or No:**	Winston Salem WBS# 34871.1.1

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 8 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

No Anomalies Reported

Volatile Analysis

No Anomalies Reported

Metals Analysis

No Anomalies Reported

Wet Lab and Micro Analysis

N/A

Please call if you have any questions relating to this analytical report.

Data Reviewed by:	Robbi A. Jones	**Project Manager:**	Angela D. Overcash
Signature:	Robbi A. Jones	**Signature:**	
Review Date:	04/03/09	**Approval Date:**	04/03/09

Data Qualifiers Key Reference:

B: Compound also detected in the method blank.
#: Result outside of the QC limits.
DO: Compound diluted out.
E: Estimated concentration, calibration range exceeded.
J: The analyte was positively identified but the value is estimated below the reporting limit.
H: Estimated concentration with a high bias.
L: Estimated concentration with a low bias.
M: A matrix effect is present.

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

04/03/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 11-6-1
Prism Sample ID: 241466
COC Group: G0309660
Time Collected: 03/24/09 16:20
Time Submitted: 03/25/09 9:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	80.2	%			1	SM2540 G	03/30/09 15:10	kpowers	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.7	1.4	1	8015B	03/28/09 1:30	jvogel	Q40268
Sample Preparation:			25.03 g	/	1 mL	3545	03/26/09 12:00	pbarr	P24125

Surrogate	% Recovery	Control Limits
o-Terphenyl	84	49 - 124

Sample Weight Determination									
Weight 1	5.57	g			1	GRO	03/25/09 0:00	lbrown	
Weight 2	5.81	g			1	GRO	03/25/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.2	3.9	50	8015B	03/27/09 16:42	dfiamm	Q40222

Surrogate	% Recovery	Control Limits
aaa-TFT	92	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit
Values are reported down to the reporting limits only. No J-flags applied.
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM Laboratories, Inc.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

04/03/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 11-7-1
Prism Sample ID: 241467
COC Group: G0309660
Time Collected: 03/24/09 16:10
Time Submitted: 03/25/09 9:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	85.6	%			1	SM2540 G	03/30/09 15:10	kpowers	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.2	1.3	1	8015B	03/27/09 23:08	jvogel	Q40268
Sample Preparation:			25.02 g	/	1 mL	3545	03/26/09 12:00	pbarr	P24125

Surrogate	% Recovery	Control Limits
o-Terphenyl	96	49 - 124

Sample Weight Determination									
Weight 1	5.96	g			1	GRO	03/25/09 0:00	lbrown	
Weight 2	5.90	g			1	GRO	03/25/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.8	3.7	50	8015B	03/27/09 17:13	dliamm	Q40222

Surrogate	% Recovery	Control Limits
aaa-TFT	102	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

04/03/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: 11-8-1
Prism Sample ID: 241468
COC Group: G0309660
Time Collected: 03/24/09 17:06
Time Submitted: 03/25/09 9:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	77.2	%			1	SM2540 G	03/30/09 15:10	kpowers	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	9.0	1.5	1	8015B	03/28/09 2:06	jvogel	Q40268
Sample Preparation:			25.09 g	/	1 mL	3545	03/26/09 12:00	pbarr	P24125

Surrogate	% Recovery	Control Limits
o-Terphenyl	103	49 - 124

Sample Weight Determination									
Weight 1	6.14	g			1	GRO	03/25/09 0:00	lbrown	
Weight 2	6.20	g			1	GRO	03/25/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.5	4.1	50	8015B	03/27/09 19:19	dllamm	Q40222

Surrogate	% Recovery	Control Limits
aaa-TFT	89	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit
Values are reported down to the reporting limits only. No J-flags applied.
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

04/03/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1
Sample Matrix: Soil

Client Sample ID: Comp
Prism Sample ID: 241469
COC Group: G0309660
Time Collected: 03/24/09 17:15
Time Submitted: 03/25/09 9:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
TCLP Extraction for Metals									
TCLP Extraction	**Complete**				1	1311	03/26/09 15:20	mbarber	
TCLP Leachable Mercury by CVAA									
Mercury	**BRL**	mg/L	0.010	0.000014	1	7470A	03/30/09 17:55	dsullivan	Q40335
Sample Preparation:				20 mL /	30 mL	7470A	03/30/09 12:45	mbarber	P24138
TCLP Leachable Metals by ICP									
Arsenic	**BRL**	mg/L	0.050	0.0029	1	6010B	03/27/09 0:03	heasler	Q40263
Barium	**BRL**	mg/L	5.0	0.0019	1	6010B	03/27/09 0:03	heasler	Q40263
Cadmium	**BRL**	mg/L	0.025	0.00034	1	6010B	03/27/09 0:03	heasler	Q40263
Chromium	**BRL**	mg/L	0.25	0.0006	1	6010B	03/27/09 0:03	heasler	Q40263
Lead	**0.10**	mg/L	0.050	0.0021	1	6010B	03/27/09 0:03	heasler	Q40263
Selenium	**BRL**	mg/L	0.050	0.0035	1	6010B	03/27/09 0:03	heasler	Q40263
Silver	**BRL**	mg/L	0.25	0.00025	1	6010B	03/27/09 0:03	heasler	Q40263
Sample Preparation:				50 mL /	50 mL	3010A	03/27/09 8:30	mbarber	P24122

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

4/3/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1

COC Group Number: G0309660
Date/Time Submitted: 3/25/09 9:05

Gasoline Range Organics (GRO) by GC-FID, method 8015B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg	Q40222

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Gasoline Range Organics (GRO)	43.75	50	mg/kg	88	67-116	Q40222

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
241514 Gasoline Range Organics (GRO)	31.45	50	mg/kg	63	57-113	Q40222

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
241514 Gasoline Range Organics (GRO)	35.3	50	mg/kg	71	57-113	12	0 - 23	Q40222

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

4/3/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1

COC Group Number: G0309660
Date/Time Submitted: 3/25/09 9:05

TCLP Leachable Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Arsenic	-0.0017	0.05	<0.025	mg/L	Q40263
Barium	0.0015	5	<2.5	mg/L	Q40263
Cadmium	-0.0006	0.025	<0.0125	mg/L	Q40263
Chromium	0.0002	0.25	<0.125	mg/L	Q40263
Lead	-0.0007	0.05	<0.025	mg/L	Q40263
Selenium	-0.0009	0.05	<0.025	mg/L	Q40263
Silver	-0.0005	0.25	<0.125	mg/L	Q40263

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Arsenic	0.245	0.25	mg/L	98	80-120	Q40263
Barium	0.211	0.25	mg/L	84	80-120	Q40263
Cadmium	0.210	0.25	mg/L	84	80-120	Q40263
Chromium	0.206	0.25	mg/L	82	80-120	Q40263
Lead	0.200	0.25	mg/L	80	80-120	Q40263
Selenium	0.263	0.25	mg/L	105	80-120	Q40263
Silver	0.240	0.25	mg/L	96	80-120	Q40263

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
241037 Arsenic	0.259	0.25	mg/L	100	75-125	Q40263
Barium	1.16	0.25	mg/L	79	75-125	Q40263
Cadmium	0.222	0.25	mg/L	89	75-125	Q40263
Chromium	0.228	0.25	mg/L	89	75-125	Q40263
Lead	0.223	0.25	mg/L	87	75-125	Q40263
Selenium	0.262	0.25	mg/L	104	75-125	Q40263
Silver	0.240	0.25	mg/L	95	75-125	Q40263

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
241037 Arsenic	0.265	0.25	mg/L	103	75-125	2	0 - 20	Q40263
Barium	1.17	0.25	mg/L	83	75-125	1	0 - 20	Q40263
Cadmium	0.232	0.25	mg/L	93	75-125	4	0 - 20	Q40263
Chromium	0.234	0.25	mg/L	91	75-125	3	0 - 20	Q40263
Lead	0.232	0.25	mg/L	91	75-125	4	0 - 20	Q40263
Selenium	0.265	0.25	mg/L	105	75-125	1	0 - 20	Q40263
Silver	0.250	0.25	mg/L	99	75-125	4	0 - 20	Q40263

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PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

4/3/09

North Carolina Department of Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project Name: Winston Salem
Project ID: ROW-204
Project No.: WBS# 34871.1.1

COC Group Number: G0309660
Date/Time Submitted: 3/25/09 9:05

Diesel Range Organics (DRO) by GC-FID, method 8015B

Method Blank	Result	RL	Control Limit	Units					QC Batch ID
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg					Q40268

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %			QC Batch ID
Diesel Range Organics (DRO)	81.4	80	mg/kg	102	55-109			Q40268

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %			QC Batch ID
241467 Diesel Range Organics (DRO)	71.5	80	mg/kg	89	50-117			Q40268

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
241467 Diesel Range Organics (DRO)	56.6	80	mg/kg	71	50-117	23	0 - 24	Q40268

TCLP Leachable Mercury by CVAA, method 7470A

Method Blank	Result	RL	Control Limit	Units					QC Batch ID
Mercury	-0.00002	0.01	<0.005	mg/L					Q40335

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %			QC Batch ID
Mercury	0.00984	0.0093	mg/L	105	80-120			Q40335

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %			QC Batch ID
241469 Mercury	0.00958	0.0093	mg/L	103	80-120			Q40335

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
241469 Mercury	0.00970	0.0093	mg/L	104	80-120	1	0 - 20	Q40335

#-See Case Narrative

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: ROW-204 WBS Element 34871.1.1
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: WBS Element 34871.1.1
Address: _____

Client Company Name: Hart & Hickman
Report To/Contact Name: Dave Graham
Reporting Address: 2923 S. Tryon St. Ste 100
Charlotte, NC 28203
Phone: 704-586-0007 Fax (Yes) (No): _____
Email (Yes) (No) Email Address: dgraham@harthickman.com
EDD Type: PDF ✓ Excel ___ Other ___
Site Location Name: _____
Site Location Physical Address: Winston-Salem, NC

Purchase Order No./Billing Reference _____
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 1.1	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ USACE ___ FL ___ NC ✓
SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ✓ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED TPH & BTEX by 8021B	ANALYSES REQUESTED RCRA Metals	REMARKS	PRISM LAB ID NO.
11-6-1	3/24/09	1620	SOIL	CG	4			X			241466
11-7-1		1610			4			X			241467
11-8-1		1706			4			X			241468
Drum		1715			1				X		241469

Sampler's Signature Holly Burwinkle Sampled By (Print Name) Holly Burwinkle Affiliation Hart & Hickman

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature) Holly Burwinkle	Received By: (Signature)	3/25/09	0905
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 3/25/09	0905

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____

COC Group No. G0309660

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

05/13/09

North Carolina Department of Transportation
Attn David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston-Salem, NC
Project ID: ROW-204 Winston-Salem
Project No.: WBS# 34871.1.1
Sample Matrix: Solid

Client Sample ID Comp-1
Prism Sample ID 245420
COC Group: G0509103
Time Collected: 05/05/09 11:40
Time Submitted: 05/06/09 8:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
TCLP Extraction for Metals									
TCLP Extraction	**Complete**				1	1311	05/07/09 14:00	mbarber	
TCLP Leachable Mercury by CVAA									
Mercury	**BRL**	mg/L	0.010	0.000014	1	7470A	05/12/09 16:50	dsullivan	Q41407
Sample Preparation:				20 mL /	30 mL	7470A	05/12/09 11:45	dsullivan	P24530
TCLP Leachable Metals by ICP									
Arsenic	**BRL**	mg/L	0.050	0.0029	1	6010B	05/08/09 22:34	heasler	Q41318
Barium	**BRL**	mg/L	5.0	0.0019	1	6010B	05/08/09 22:34	heasler	Q41318
Cadmium	**BRL**	mg/L	0.025	0.00034	1	6010B	05/08/09 22:34	heasler	Q41318
Chromium	**BRL**	mg/L	0.25	0.0006	1	6010B	05/08/09 22:34	heasler	Q41318
Lead	**BRL**	mg/L	0.050	0.0021	1	6010B	05/08/09 22:34	heasler	Q41318
Selenium	**BRL**	mg/L	0.050	0.0035	1	6010B	05/08/09 22:34	heasler	Q41318
Silver	**BRL**	mg/L	0.25	0.00025	1	6010B	05/08/09 22:34	heasler	Q41318
Sample Preparation:				50 mL /	50 mL	3010A	05/08/09 8:30	mbarber	P24504

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

05/13/09

North Carolina Department of Transportation
Attn David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston-Salem, NC
Project ID: ROW-204 Winston-Salem
Project No.: WBS# 34871.1.1
Sample Matrix: Solid

Client Sample ID Comp-2
Prism Sample ID 245421
COC Group: G0509103
Time Collected: 05/05/09 15:30
Time Submitted: 05/06/09 8:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
TCLP Extraction for Metals									
TCLP Extraction	Complete				1	1311	05/11/09 14:30	mbarber	
TCLP Leachable Mercury by CVAA									
Mercury	BRL	mg/L	0.010	0.000014	1	7470A	05/12/09 17:08	dsullivan	Q41407
Sample Preparation:				20 mL /	30 mL	7470A	05/12/09 11:45	dsullivan	P24530
TCLP Leachable Metals by ICP									
Arsenic	BRL	mg/L	0.050	0.0029	1	6010B	05/12/09 21:50	heasler	Q41387
Barium	BRL	mg/L	5.0	0.0019	1	6010B	05/12/09 21:50	heasler	Q41387
Cadmium	BRL	mg/L	0.025	0.00034	1	6010B	05/12/09 21:50	heasler	Q41387
Chromium	BRL	mg/L	0.25	0.0006	1	6010B	05/12/09 21:50	heasler	Q41387
Lead	BRL	mg/L	0.050	0.0021	1	6010B	05/12/09 21:50	heasler	Q41387
Selenium	BRL	mg/L	0.050	0.0035	1	6010B	05/12/09 21:50	heasler	Q41387
Silver	BRL	mg/L	0.25	0.00025	1	6010B	05/12/09 21:50	heasler	Q41387
Sample Preparation:				50 mL /	50 mL	3010A	05/12/09 8:40	mbarber	P24532

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

05/13/09

North Carolina Department of Transportation
Attn David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Winston-Salem, NC
Project ID: ROW-204 Winston-Salem
Project No.: WBS# 34871.1.1
Sample Matrix: Solid

Client Sample ID Drum
Prism Sample ID 245422
COC Group: G0509103
Time Collected: 05/05/09 16:00
Time Submitted: 05/06/09 8:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
TCLP Extraction for Metals									
TCLP Extraction	Complete				1	1311	05/11/09 14:30	mbarber	
TCLP Leachable Mercury by CVAA									
Mercury	BRL	mg/L	0.010	0.000014	1	7470A	05/12/09 17:12	dsullivan	Q41407
Sample Preparation:				20 mL /	30 mL	7470A	05/12/09 11:45	dsullivan	P24530
TCLP Leachable Metals by ICP									
Arsenic	BRL	mg/L	0.050	0.0029	1	6010B	05/12/09 22:09	heasler	Q41387
Barium	BRL	mg/L	5.0	0.0019	1	6010B	05/12/09 22:09	heasler	Q41387
Cadmium	BRL	mg/L	0.025	0.00034	1	6010B	05/12/09 22:09	heasler	Q41387
Chromium	BRL	mg/L	0.25	0.0006	1	6010B	05/12/09 22:09	heasler	Q41387
Lead	BRL	mg/L	0.050	0.0021	1	6010B	05/12/09 22:09	heasler	Q41387
Selenium	BRL	mg/L	0.050	0.0035	1	6010B	05/12/09 22:09	heasler	Q41387
Silver	BRL	mg/L	0.25	0.00025	1	6010B	05/12/09 22:09	heasler	Q41387
Sample Preparation:				50 mL /	50 mL	3010A	05/12/09 8:40	mbarber	P24532

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: Hart & Heckman
Report To/Contact Name: Dave Graham
Reporting Address: 2923 S Tryon St
Charlotte N.C 28203
Phone: 704 526 0001 Fax (Yes) (No): _____
Email (Yes) (No) Email Address: DGraham@HartHeckman.com
EDD Type: PDF X Excel ___ Other _____
Site Location Name: Row-ADU
Site Location Physical Address: Winston Salem

Project Name: Row- 204
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: WBS # 34871.1.1
Address: _____

Purchase Order No./Billing Reference _____
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?			
Received ON WET ICE? Temp: 0.9°	✓		
PROPER PRESERVATIVES indicated?			✓
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ USACE ___ FL ___ NC X
SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES X NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED TCLP RCRA Metals	REMARKS	PRISM LAB ID NO.
Comp-1	5/5/09	1140	Soil					X		245420
Comp-2	"	1530	"					X		245421
Drum	"	1600	"					X		245422

Sampler's Signature: Brett Byrn
Sampled By (Print Name): Brett Byrn
Affiliation: H & H

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature)		
Relinquished By: (Signature)	Received By: (Signature)		
Relinquished By: (Signature) Brett Byrn	Received For Prism Laboratories By:	5/6/09	08:35

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____

COC Group No. GP509103

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____

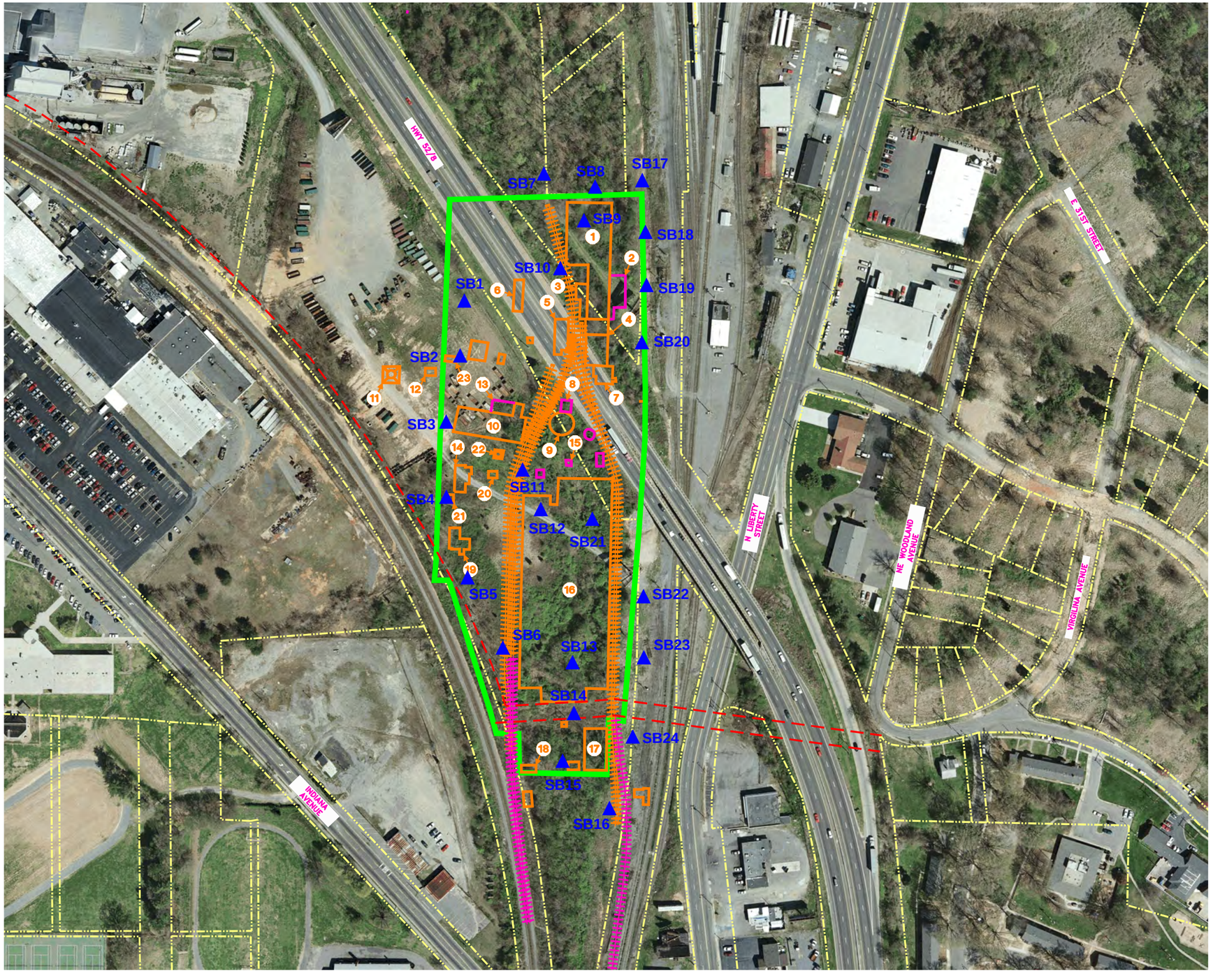
*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

Appendix C

ARCADIS - Summary of Arsenic and Lead Concentrations in Soil Samples



DRAFT

0 200' 400'

GRAPHIC SCALE

LEGEND:

- APPROXIMATE LOCATION OF THE FORMER VCC-2 PLANT FENCE LINE (APPROXIMATE BOUNDARIES OF THE FIRST LOT OF THE ORIGINAL PLACE)
- APPROXIMATE LOCATION OF FORMER FERTILIZER PLANT FEATURES (1907)
- APPROXIMATE LOCATION OF FORMER FERTILIZER PLANT FEATURES (1917 ADDITIONS)
- APPROXIMATE LOCATION OF FORMER RAILROAD SIDINGS (1907 & 1917 PLANT FEATURES)
- CURRENT TAX PARCEL BOUNDARIES
- 30' POWER TRANSMISSION RIGHT-OF-WAY
- SOIL BORING LOCATION (ARCADIS, 2009)

NOTES:

1. HISTORICAL SITE FEATURES DIGITIZED FROM 1907 & 1917 SANBORN MAPS.
2. 2005 AERIAL PHOTOGRAPH OF WINSTON – SALEM PROVIDED BY NC ONEMAP.
3. PARCEL BOUNDARIES DIGITIZED FROM 2004 FORSYTH COUNTY COMPILATION OF RECORDED PLATS.
4. BASED ON AVAILABLE CHAIN-OF-TITLE INFORMATION, IT IS ESTIMATED THAT VCC-2 OWNED CLOSE TO 180 ACRES OF PROPERTY IN FORSYTH COUNTY. THE ONLY PORTION OF THIS PROPERTY WHOSE LOCATION COULD NOT BE READILY ASCERTAINED AND MAPPED (WITH A DEGREE OF CERTAINITY) WAS THE "FIRST LOT OF THE ORIGINAL PLACE". THE FORMER VCC-2 PLANT FENCE LINE APPROXIMATES THE BOUNDARY OF THE FIRST LOT OF THE ORIGINAL PLACE.
5. ALL LOCATIONS ARE APPROXIMATE.

HISTORICAL BUILDING KEY: (#)

1. ACID CHAMBER (BUILT ON AN OLDER ACID CHAMBER, AS SHOWN IN 1900 SANBORN MAP)
2. COMPRESSOR ROOM
3. BURNERS
4. BURNER ROOM (BUILT ON AN OLDER BURNER ROOM, AS SHOWN IN 1900 SANBORN MAP)
5. PYRITES HOUSE
6. NITRE HOUSE
7. BOILER ROOM
8. PUMP HOUSE
9. 100,000 GALLON RESERVOIR
10. TOBACCO STEM WAREHOUSE
11. 54,000 GALLON WATER TOWER
12. STORAGE
13. DRYER
14. OFFICE
15. OIL HOUSE
16. MILL BUILDING (GRINDING, MIXING, STORAGE AND BAGGING OF FERTILIZER)
17. BAG HOUSE
18. LIME HOUSE
19. STORAGE
20. TRANSFORMER HOUSE
21. SCALES
22. 8,000 GALLON TANK
23. CORN CRIB

FORMER STREET NAMES:

INDIANA AVE. (FKA INVERNESS AVE.)
LIBERTY ST. (FKA WALKERTOWN RD.)

EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
WINSTON-SALEM, FORSYTH COUNTY, NORTH CAROLINA
REMOVAL SITE EVALUATION REPORT

SOIL BORING LOCATION MAP

ARCADIS

FIGURE 1

CITY:CARY DIV/GROUP:41 DB:LELLIS LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Cary\ACTIB0085732\001200006\MAP\REPORT\NONE\SF-KATE-FILES\857320G01_NEW-BASE.dwg LAYOUT: 2 SAVED: 6/8/2009 12:38 PM ACADVER: 17.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 6/8/2009 1:17 PM BY: ELLIS, LEKOREY
XREFS: IMAGES: PROJECTNAME: ----
857320X02 Mosaic.tif

Table 3-1
Summary of Arsenic and Lead Concentrations in Soil Samples
Removal Site Evaluation Report
VCC Winston-Salem Site - Winston-Salem, North Carolina

Preliminary Draft
Data Pending Validation

Sample ID	Depth (ft bgs)	pH	As (mg/kg)	Pb (mg/kg)
WS-SB-1	0 - 0.5	5.6	6.50	61.1
	0.5 - 2	5.3	5.65	86.5
	2 - 4	4.8	6.15	15.5
WS-SB-2	0 - 0.5	5.2	4.34	31.6
	0.5 - 2	4.4	3.98	24.2
	2 - 4	4.8	3.66	16.8
WS-SB-3	0 - 0.5	5.9	6.30	38.0
	0.5 - 2	7.3 [5.8]	3.68 [2.77]	29.2 [25.8]
	2 - 4	4.7	2.74	35.3 M1
WS-SB-4	0 - 0.5	5.3	7.35	32.9
	0.5 - 2	4.9	4.74	26.9
	2 - 4	5.3	2.53	19.6
WS-SB-5	0 - 0.5	5.3	5.74	40.5
	0.5 - 2	5.6	5.69	26.9
	2 - 4	4.9	3.72	27.3
WS-SB-6	0 - 0.5	5.3	8.44	53.3
	0.5 - 2	5.3	6.20	21.6
	2 - 4	4.4	3.94	19.9
WS-SB-7	0 - 0.5	5.0	1.21	21.3
	0.5 - 2	4.3	7.10	51.9
	2 - 4	5.1	3.72	22.0
WS-SB-8	0 - 0.5	4.1	38.3	1,740
	0.5 - 2	5.5	5.07	211
	2 - 4	5.6	3.06	25.1
WS-SB-9	0 - 0.5	4.4	0.731 U	40.2
	0.5 - 2	4.6	9.50	253
	2 - 4	4.2 [4.1]	8.81 [25.2]	635 [3,540]
WS-SB-10	0 - 0.5	6.0	6.18	203
	0.5 - 2	6.6	9.82	3,650
	2 - 4	5.0	6.80	1,570
WS-SB-11	0 - 0.5	4.4	7.91	30.7
	0.5 - 2	5.8	7.09	21.5
	2 - 4	5.4	26.9	102
WS-SB-12	0 - 0.5	5.1	8.83	49.8
	0.5 - 2	5.6	6.59	64.8
	2 - 4	6.2	8.01	73.3
WS-SB-13	0 - 0.5	5.1	33.0	40.9
	0.5 - 2	5.4	9.39	23.0
	2 - 4	5.2	7.30	23.6
WS-SB-14	0 - 0.5	7.2	16.1	146
	0.5 - 2	5.1	3.30	18.3
	2 - 4	5.3	2.84	11.0
WS-SB-15	0 - 0.5	5.6	6.19	79.8
	0.5 - 2	5.2	6.75	30.6
WS-SB-16	0 - 0.5	5.3 [6.7]	7.56 [6.12]	18.5 [15.5]
	0.5 - 2	5.3	8.25	21.3
	2 - 4	5.6	4.29	16.7

Table 3-1
Summary of Arsenic and Lead Concentrations in Soil Samples
Removal Site Evaluation Report
VCC Winston-Salem Site - Winston-Salem, North Carolina

Sample ID	Depth (ft bgs)	pH	As (mg/kg)	Pb (mg/kg)
WS-SB-17	0 - 0.5	4.9	38.0 M1	1,360 MHA
	0.5 - 2	4.0	148	238
	2 - 4	4.0	2.78	22.4
WS-SB-18	0 - 0.5	6.1	62.8	946
	0.5 - 2	3.1	35.1	2,030
	2 - 4	5.3	5.94	287
WS-SB-19	0 - 0.5	4.8	55.1	188
	0.5 - 2	4.3	14.8	24.5
	2 - 4	4.0	6.59	35.1
WS-SB-20	0 - 0.5	7.0	0.924 J	23.9
	0.5 - 2	6.1	1.92	28.0
	2 - 4	5.0	3.56	56.5
WS-SB-21	0 - 0.5	5.5	9.22	123
	0.5 - 2	5.3	8.66	40.3
	2 - 4	5.9	74.8	87.0
WS-SB-22	0 - 0.5	7.2	15.7	214
	0.5 - 2	6.3 [7.0]	238 [221]	3,640 [4,380]
	2 - 4	5.0	29.7	380
WS-SB-23	0 - 0.5	7.0	12.4	122
	0.5 - 2	7.2	1.50	13.1
	2 - 4	5.4	1.86	19.3
WS-SB-24	0 - 0.5	6.0	60.1	657
	0.5 - 2	5.1	6.73	47.9
	2 - 4	5.3	2.95	14.4

Notes:

mg/kg - milligrams per kilogram

ft bgs - feet below ground surface

J - estimated value

U - not detected

M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference.

MHA - Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information.

Duplicate sample concentrations are in brackets

Arsenic screening value of 27 mg/kg is based on USEPA Region 4 screening levels.

Lead screening value of 895 mg/kg is based on USEPA Region 4 screening levels for lead with industrial site use.

Shaded values exceed screening levels.

Table 3-2
Summary of Arsenic and Lead TCLP Concentrations in Soil Samples
Removal Site Evaluation Report
VCC Winston-Salem Site - Winston-Salem, North Carolina

Preliminary Draft

Data Pending Validation

			Concentration in Sample:	
	TCLP		WS-SB-8 (0-0.5')	WS-SB-9 (2-4')
Analyte	Criteria	Units	5/20/09	5/20/09
Arsenic	5.0	mg/L	0.04 U	0.04 U
Lead	5.0	mg/L	16.2	20.6

Notes:

mg/L - milligrams per liter

NA - not analyzed

U - not detected

Shaded values exceed USEPA maximum concentration for toxicity characteristic based on TCLP testing.