

Prepared for:

North Carolina Department of Transportation
Geotechnical Engineering Unit
GeoEnvironmental Section
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Preliminary Site Assessment Report

Tarrytown LLC Property

Parcels # 22, 23, 24 and 25

1 Tarrytown Mall. (aka 2320 Sunset Ave.)

Rocky Mount, Nash County, North Carolina

Rocky Mounty –US 301 Bypass from NC 43-48 (Benvenue Rd.) to SR 1836

TIP Number: U-3330

WBS Element: 36596.1.1



10610 Metromont Parkway, Suite 206
Charlotte, North Carolina 28269

October 2, 2015

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10610 Metromont Parkway, Suite 206
Charlotte, North Carolina 28269

Prepared by:

A handwritten signature in blue ink that reads 'Troy L. Holzschuh'.

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Division Manager
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October 2, 2015

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1.0 INTRODUCTION

This report presents the results of a Preliminary Site Assessment (PSA) for the North Carolina Department of Transportation (NCDOT) Parcels 22, 23, 24 and 25 performed by Apex Companies, LLC (Apex) on behalf of the NCDOT. The subject site of this PSA report is to be affected by the realignment of the US 301 off ramp from Wesleyan Boulevard. The Site is located on 2320 Sunset Avenue and is identified as Parcels 22, 23, 24 and 25, Tarrytown LLC Property, within the NCDOT U-3330 design project. The property is located on the northern quadrant of Sunset Avenue and N Wesleyan Boulevard, as shown in the Vicinity Map, **Figure 1**. This is in Rocky Mount of Nash County, North Carolina. The investigation was conducted in accordance with Apex Company's Technical and Cost proposal dated May 28, 2015.

Due to the potential for encountering impacts during grading activities, NCDOT contracted Apex to perform the PSA within the proposed right-of-way and/or easement and indicated on the Site Map with Boring Locations, **Figure 2**. The PSA was performed to evaluate if soils have been impacted as a result of present and past uses of the property within the proposed investigation area, if buried underground storage tanks (USTs) are present in the area of investigation, and if groundwater is currently impacted.

The following report summarizes the geophysical survey and describes the subsurface field investigation at the site. The report includes the evaluation of field screening, as well as field and laboratory analyses with regards to the presence or absence of soil and groundwater contamination within the area of investigation across Parcels 22, 23, 24 and 25. **Appendix A** includes a Photograph log for the site.

1.1 Site History

This site currently consists of four vacant parcels (22, 23, 24 and 25) which are predominantly covered by vegetation. Montgomery Ward previously operated a department store within the Tarrytown Mall formerly located onsite. The North Carolina Department of Environment and Natural Resources (NCDENR) UST Database registry listed one 500 gallon capacity UST, which reportedly contained #2 fuel oil. The tank was permanently closed October 13, 1993. A release was reported in December of 1993. Incident number 11742 was identified for the site. Law Engineering filed a UST-2 form at the NCDENR Raleigh regional office in December, 1993. A twenty day report was filed on January 13, 1994. In this report Law Engineering states that the former UST was used to store fuel oil for a generator. The generator ceased operation in 1966. Montgomery Ward did not know the contents of the UST, however, analytical results indicated #2 fuel oil or diesel fuel. Free product was observed in the excavation upon removal of the UST. A vacuum truck was used to remove the product as it accumulated. However, after several attempts at free product removal, no significant decrease in the accumulation rate was

noted. Law Engineering also states that the UST was at 90% capacity at the time of removal. Additional records on file with NCDENR indicate that 22.5 tons of petroleum impacted soil were removed from the site on February 24, 1994. Law Engineering received a monitoring well construction permit on July 12, 1996 and later (December 17, 1998) submitted a Characterization Report classifying the site as Low Risk. On March 5, 1999 Montgomery Ward received a Notice of No Further Action. Lastly, on May 12, 1999 Law Engineering submitted a monitoring well abandonment record.

1.2 Site Description

The site is located in a commercial area of Rocky Mount in Nash County. The site consists of four vacant parcels. The parcels are predominantly covered in grass or thicker vegetation by the drainage ditch which runs parallel to the N Wesleyan off ramp. The site is bordered to the southeast by the by N Wesleyan Blvd (US 301) and Cross Roads shopping center. Sam's Club borders the site to the north and a residential neighborhood lies just beyond Sunset Ave. to the south and east. This site does appear on the UST Section registry however the one UST associated with this site was closed on February 24, 1994. The geophysical surveyor, Taylor Wiseman and Taylor, did not identify metal anomalies within the area of investigation.

2.0 GEOLOGY

2.1 Regional Geology

The site is located within the Eastern Slate Belt. This belt contains slightly metamorphosed volcanic and sedimentary rocks similar to those in the Carolina Slate Belt. The rocks are poorly exposed and partially covered by Coastal Plain sediments. The metamorphic rocks, 500-600 million years old, are intruded by younger, approximately 300 million year old, granitic bodies. Gold was once mined in the belt, and small occurrences of molybdenite, an ore of molybdenum, have been prospected here. Crushed stone, clay, sand and gravel are currently mined in this belt.

2.2 Site Geology

Site geology was observed through the drilling and sampling of 26 direct push probe soil borings (SB) onsite. **Figure 2** presents the boring locations and site layout. Borings did not exceed a total depth of ten feet below ground surface (bgs) since that depth was the maximum excavation depth for proposed drainage features. Soil consisting predominantly of orange medium grained sand to an orange and grey marbled clayey silt with sand was observed across the parcel. Soil displayed varying degrees of moisture. Up-gradient borings did not intercept water while down-

gradient borings intercepted water at approximately 3.5 feet bgs. Boring logs are presented in **Appendix B**.

3.0 FIELD ACTIVITIES

3.1 Preliminary Activities

Prior to commencing field sampling activities at the site, several tasks were accomplished in preparation for the subsurface investigation. The Health and Safety Plan (HASP) was modified to include the site-specific health and safety information necessary for the field activities. North Carolina-One-Call was contacted on July 6, 2015 to report the proposed drilling activities and subsequently notify all affected utilities for the parcel. Apex subcontracted Taylor Wiseman & Taylor (TWT) to locate utilities and other subsurface drilling hazards as well as to perform a geophysical survey. Regional Probing Services of Wake Forest, North Carolina was retained by Apex to perform the direct push sampling for soil borings. QROS was contacted for acquisition of a rented UVF Hydrocarbon Analyzer and Eastern Solutions was contacted for rental of a Photoionization Detector (PID). Boring locations were strategically placed in a pattern within the area of investigation to maximize the opportunity to encounter potentially contaminated soil.

3.2 Site Reconnaissance

Apex personnel performed a site reconnaissance on July 24th, 2015. During the site reconnaissance, the area was visually examined for the presence of USTs or areas/obstructions that could potentially affect the subsurface investigation. Apex personnel also used the site visit as an opportunity to contact the property manager/owner to inform them of upcoming field activities.

3.3 Geophysics Survey Results

The geophysical survey of the site occurred the week of July 13th, 2015. TWT performed an electromagnetic survey (EM) followed by ground penetrating radar (GPR) survey. Their Geophysical Report is presented in **Appendix C**. No unknown EM features were identified.

3.4 Well Survey

Apex personnel did not observe water supply wells or monitoring wells within the investigation area.

3.5 Soil Sampling

Apex conducted drilling activities at the site on July 25th and 26th of 2015. Apex drilling subcontractor Regional Probing Services advanced 26 direct push soil borings within the proposed expanded NCDOT ROW. These 26 boring locations were placed in a pattern to maximize the likelihood of intercepting potential soil contamination. **Figure 2** presents the Site Map with boring locations and identifications.

The purpose of soil sampling was to determine if a petroleum release has occurred within the investigation area, and if so, to estimate the volume of impacted soil that might require special handling during construction activities.

Soil sampling was performed utilizing direct push methods accompanied by field screening and onsite quantitative analyses. Apex conducted field screening of the soil borings utilizing a photoionization detector (PID) that was used to screen recovered soil. One to two intervals of the soil boring, possibly exhibiting elevated PID readings, were selected for onsite quantitative analysis of total petroleum hydrocarbons (TPH) in soil via ultraviolet fluorescence (UVF) utilizing a QROS-QED Hydrocarbon Analyzer. The analysis was performed onsite by Troy Holzschuh, a certified QED UVF technician with Apex. The UVF results were generated concurrent with soil boring activities so that real-time decision making could be utilized for strategic boring placement.

3.6 Groundwater Sampling

Apex personnel mobilized to the Site on July 28th, 2015 to obtain a grab sample from a temporary monitoring well installed on July 26th, 2015. The well was installed per the technical and cost proposal dated May 28th 2015, which states that if groundwater is encountered in any of the soil borings at a depth which may be encountered during site development, a single temporary monitoring well will be installed and sampled on that parcel. P23-B4 was chosen for the one inch temporary monitoring well because groundwater was encountered at approximately 3.5 feet bgs and it is located near a cut section of the design project. The well was set at 11 feet bgs with ten feet of screen and backfilled with sand. Prior to sampling, the groundwater monitoring well was located and the cap was removed to allow equilibration. Once equilibrated, the water level measurement was recorded. The well was sampled with an electric peristaltic pump using new disposable polyethylene tubing. One well volume was purged and then Apex personnel collected samples using low flow techniques per EPA guidelines.

4.0 SAMPLING RESULTS

4.1 Soil Sampling Results

Based on PID field screening and onsite UVF hydrocarbon analysis from the July 2015 soil sampling there is no evidence of petroleum hydrocarbon contamination onsite, within the area of investigation.

Onsite Soil Screening and UVF Analysis

Elevated PID readings, above ten parts per million (ppm), were not observed in the 26 borings conducted at the site. The maximum PID reading recorded was 2.7 ppm at 2 to 4 feet bgs in boring P-22 B2. The PID field screening results are provided on the boring logs in **Appendix B**.

Soil concentrations results of TPH gasoline range organics (GRO) and diesel range organics (DRO) measured using the onsite UVF are presented in **Table 1**, with instrument generated tables and chromatographs in **Appendix D**. **Figure 3** presents the GRO and DRO results at each boring.

Analyses of soil samples for DRO indicated one location with a concentration above the NCDENR Action level of 10 mg/kg for TPH in soil. Based on the UVF analyses, the four to five foot interval sample from P22-B2 had a value of 156.2 mg/kg. This is the only boring location reporting concentrations above the NCDENR Action level of 10 mg/kg for DRO. GRO was not detected above the reporting limits.

4.2 Extent of Impacted Soils

This investigation and analytical program were implemented to determine the presence or absence of petroleum hydrocarbons and, if possible, to estimate the volume of impacted soil present within the proposed ROW.

The only area of confirmed DRO contamination in soil is located in the vicinity of boring P22-B2 at depth of four to five feet bgs. Samples collected in this boring from deeper depths ranging from 7 to 10 feet bgs did not indicate petroleum impact. Two delineation samples (P22-B2a and P22-B2b) were collected to define the extent of the petroleum impact. These two samples did not indicate contamination in a northwestern or southeastern direction. Existing underground utilities located in the proposed utility easement prevented advancement of additional borings in the southwestern and northeastern directions. The area of the soil contamination is estimated to be 78.54 square feet. This estimate is based on soil borings conducted during this assessment and the estimated area is shown on **Figure 5**. Assuming a five foot thickness of soil impact, the volume of potentially impacted soil is estimated to be 392 cubic feet or 14.5

cubic yards. This area, as drawn, is within a fill section, thus may not affect any roadway construction.

4.3 Groundwater Sampling Results

Apex personnel sampled the one temporary monitoring well on the site on July 28th, 2015. Depth to groundwater was measured at 3.6 feet bgs. The groundwater sample was analyzed for volatile organic compounds (VOCs) in accordance with Method 8260, semi-volatile organic compounds (SVOC) in accordance with Method 8270 and volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH) in accordance with the Massachusetts Department of Environmental Protection (MADEP) Method. All constituents analyzed were below laboratory reporting limits. The laboratory report and sampling log are included in **Appendix D**.

5.0 CONCLUSIONS

Based on site observations and onsite UVF analysis, petroleum-impacted soil contamination was identified above the NCDENR Action level of 10 mg/kg.

The following bulleted summary is based upon Apex's evaluation of field observations and onsite quantitative analyses of samples collected from the Site on July 25th, 2015.

- Results of the geophysical survey produced no evidence of a possible UST.
- Twenty six soil borings were advanced on four parcels and soil samples were collected from each boring. Each sample was analyzed via UVF in the field utilizing a QROS QED Hydrocarbon Analyzer.
- All GRO concentrations were either non detectable or below the NCDENR Action level of 10 mg/kg.
- DRO was identified in one sample at a concentration greater than the NCDENR Action level of 10 mg/kg. The remaining twenty five borings were either non detectable or below the NCDENR Action level of 10 mg/kg.
- An estimated 14.5 cubic yards of impacted soil is present. However, the impacted soil appears to be within a fill area and may not affect roadway construction.

- One temporary monitoring well was installed and sampled on Parcel 23. The groundwater sample was analyzed for VOCs, SVOCs, VPH and EPH and no detections were identified above the laboratory reporting limits.

6.0 RECOMMENDATIONS

Based on these PSA results, Apex does not recommend further assessment or soil sampling in the area of investigation.

TABLES

Table 1
UVF Onsite Hydrocarbon Analytical Soil Data from July 2015
U-3330, Parcel 22, Tarrytown LLC Property
Rocky Mount, North Carolina

Sample ID Number	Sample Date	Sample Depth (ft bgs)	GRO (mg/kg) (C5-C10)	DRO(mg/kg) (C10-C35)
P22-B1	7/25/2015	4 to 5	<0.41	<0.16
P22-B1	7/25/2015	9 to 10	<0.49	<0.2
P22-B2	7/25/2015	4 to 5	<5.6	156.2
P22-B2	7/25/2015	7 to 8	<0.42	<0.17
P22-B2	7/25/2015	9 to 10	<0.44	<0.17
P22-B3	7/25/2015	4 to 5	<0.72	0.29
P22-B3	7/25/2015	9 to 10	<0.42	0.34
P22-B4	7/25/2015	2 to 3	<0.52	<0.21
P22-B5	7/25/2015	4 to 5	<0.52	<0.21
P22-B5	7/25/2015	8 to 9	<0.56	<0.22
P22-B6	7/25/2015	4 to 5	<0.46	<0.18
P22-B6	7/25/2015	8 to 9	<0.54	<0.21
P22-B2a	7/26/2015	2 to 3	<0.45	<0.18
P22-B2b	7/26/2015	2 to 3	<0.47	<0.19

NOTES:
(mg/kg) = Milligrams per kilogram
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
ft bgs = feet below ground surface
Bold Concentrations indicate an exceedance of NCDENR Action Level of 10 mg/Kg

Table 1
UVF Onsite Hydrocarbon Analytical Soil Data from July 2015
U-3330, Parcel 23, Tarrytown LLC Property
Rocky Mount, North Carolina

Sample ID Number	Sample Date	Sample Depth (ft bgs)	GRO (mg/kg) (C5-C10)	DRO(mg/kg) (C10-C35)
P23-B1	7/26/2015	2 to 2.5	<0.56	<0.22
P23-B1	7/26/2015	8 to 9	<0.63	<0.25
P23-B2	7/26/2015	2 to 2.5	<0.68	<0.27
P23-B2	7/26/2015	7 to 8	<0.66	<0.26
P23-B3	7/26/2015	2 to 3	<0.56	<0.22
P23-B4	7/26/2015	2 to 2.5	<0.74	<0.3
P23-B4	7/26/2015	7 to 8	<0.75	<0.3
P23-B5	7/26/2015	2 to 2.5	<0.68	<0.27
<p>NOTES: (mg/kg) = Millograms per kilogram GRO = Gasoline Range Organics DRO = Diesel Range Organics ft bgs = feet below ground surface Bold Concentrations indicate an exceedance of NCDENR Action Level of 10 mg/Kg</p>				

Table 1
UVF Onsite Hydrocarbon Analytical Soil Data from July 2015
U-3330, Parcel 24, Tarrytown LLC Property
Rocky Mount, North Carolina

Sample ID Number	Sample Date	Sample Depth (ft bgs)	GRO (mg/kg) (C5-C10)	DRO(mg/kg) (C10-C35)
P24-B1	7/26/2015	4 to 5	<0.74	0.92
P24-B1	7/26/2015	9 to 10	<0.62	0.37
P24-B2	7/26/2015	4 to 5	<0.42	0.89
P24-B2	7/26/2015	9 to 10	<0.45	2.3
P24-B3	7/26/2015	4 to 5	<0.58	1.7
P24-B3	7/26/2015	9 to 10	<0.49	1.8
P24-B4	7/26/2015	2 to 3	<0.74	<0.3
P24-B5	7/26/2015	2 to 3	<0.78	<0.31
P24-B6	7/26/2015	2 to 3	<0.71	<0.29
<p>NOTES: (mg/kg) = Milligrams per kilogram GRO = Gasoline Range Organics DRO = Diesel Range Organics ft bgs = feet below ground surface Bold Concentrations indicate an exceedance of NCDENR Action Level of 10 mg/Kg</p>				

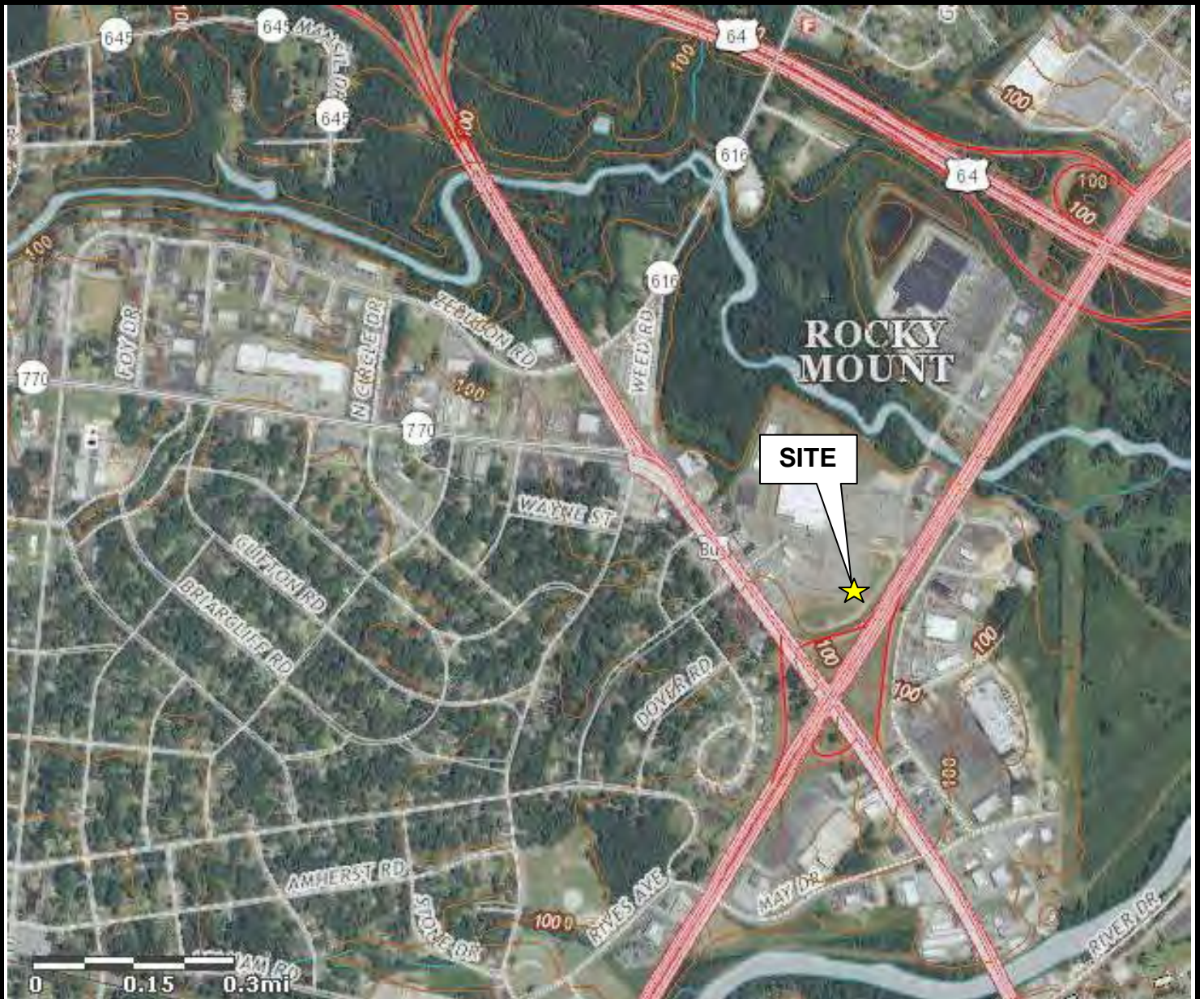
Table 1
UVF Onsite Hydrocarbon Analytical Soil Data from July 2015
U-3330, Parcel 25, Tarrytown LLC Property
Rocky Mount, North Carolina

Sample ID Number	Sample Date	Sample Depth (ft bgs)	GRO (mg/kg) (C5-C10)	DRO(mg/kg) (C10-C35)
P25-B1	7/26/2015	4 to 5	<0.5	<0.2
P25-B1	7/26/2015	9 to 10	<0.56	<0.22
P25-B2	7/26/2015	4 to 5	<0.58	<0.23
P25-B2	7/26/2015	9 to 10	<0.69	<0.28
P25-B3	7/26/2015	4 to 5	<0.61	<0.25
P25-B3	7/26/2015	9 to 10	<0.7	<0.28
P25-B4	7/26/2015	2 to 3	<0.65	0.26
P25-B5	7/26/2015	2 to 3	<0.45	<0.18
P25-B6	7/26/2015	2 to 3	<0.61	<0.25
P25-B7	7/26/2015	2 to 3	<0.77	0.31
<p>NOTES: (mg/kg) = Millograms per kilogram GRO = Gasoline Range Organics DRO = Diesel Range Organics ft bgs = feet below ground surface Bold Concentrations indicate an exceedance of NCDENR Action Level of 10 mg/Kg</p>				

FIGURES

**Figure 1
Site Location Map**

**Parcels #22, #23, #24 & #25
1 Tarrytown Mall aka 2320 Sunset Avenue
Rocky Mount, North Carolina**



USGS, National Geospatial Program
1) Topographic Map, Rocky Mount, NC,
7.5 Minute
Year: 2013
2) Orthoimagery, USGS EROS Ortho 1
Foot
Year: 2011



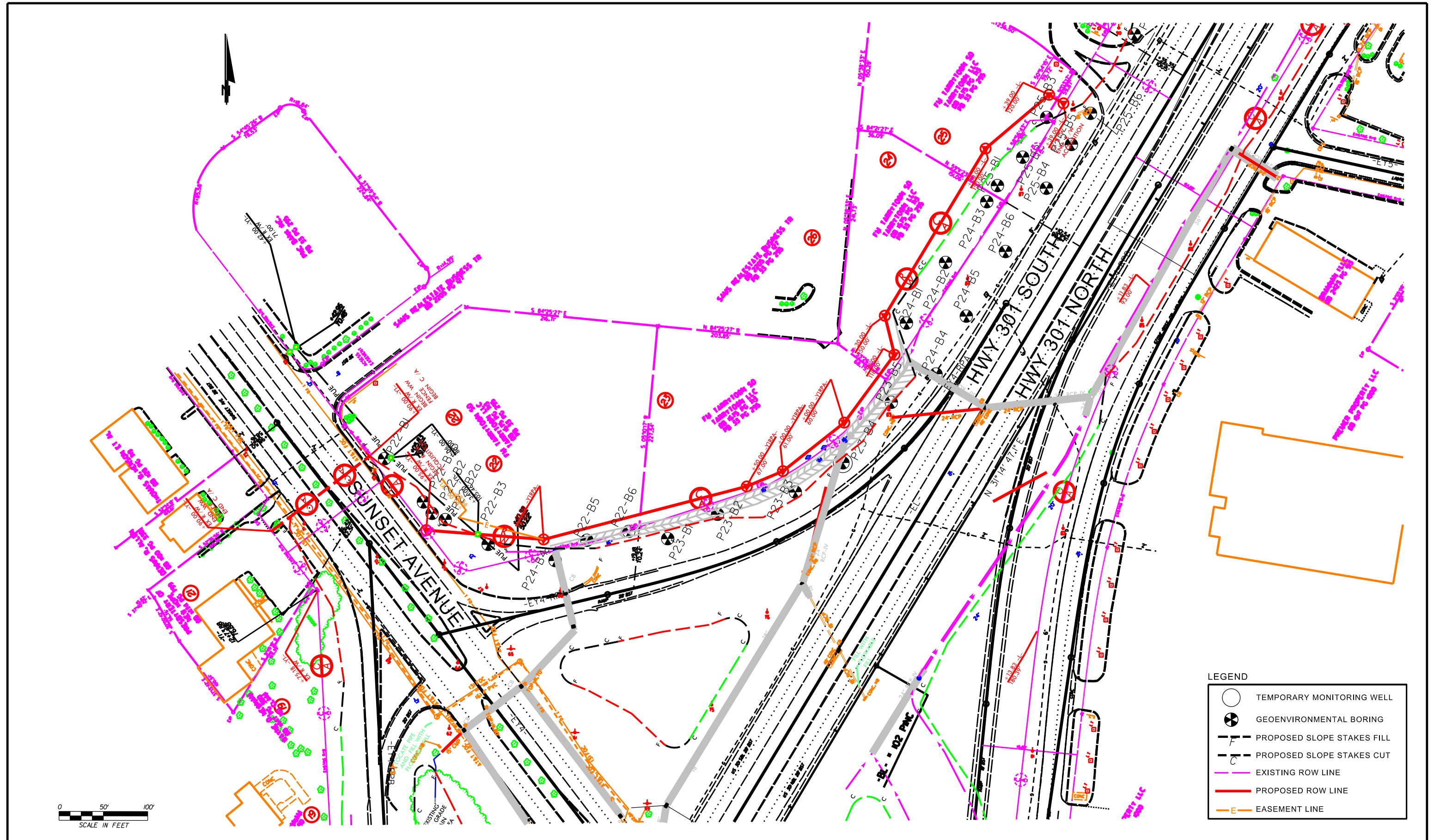
10610 Metromont Parkway, Suite 206
Charlotte, NC Telephone:
(704) 799-6390

Project:
NCDOT – Nash Co.

Apex Job #: 510424-001

Date: August, 2015





LEGEND

	TEMPORARY MONITORING WELL
	GEOENVIRONMENTAL BORING
	PROPOSED SLOPE STAKES FILL
	PROPOSED SLOPE STAKES CUT
	EXISTING ROW LINE
	PROPOSED ROW LINE
	EASEMENT LINE

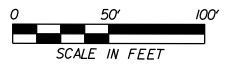
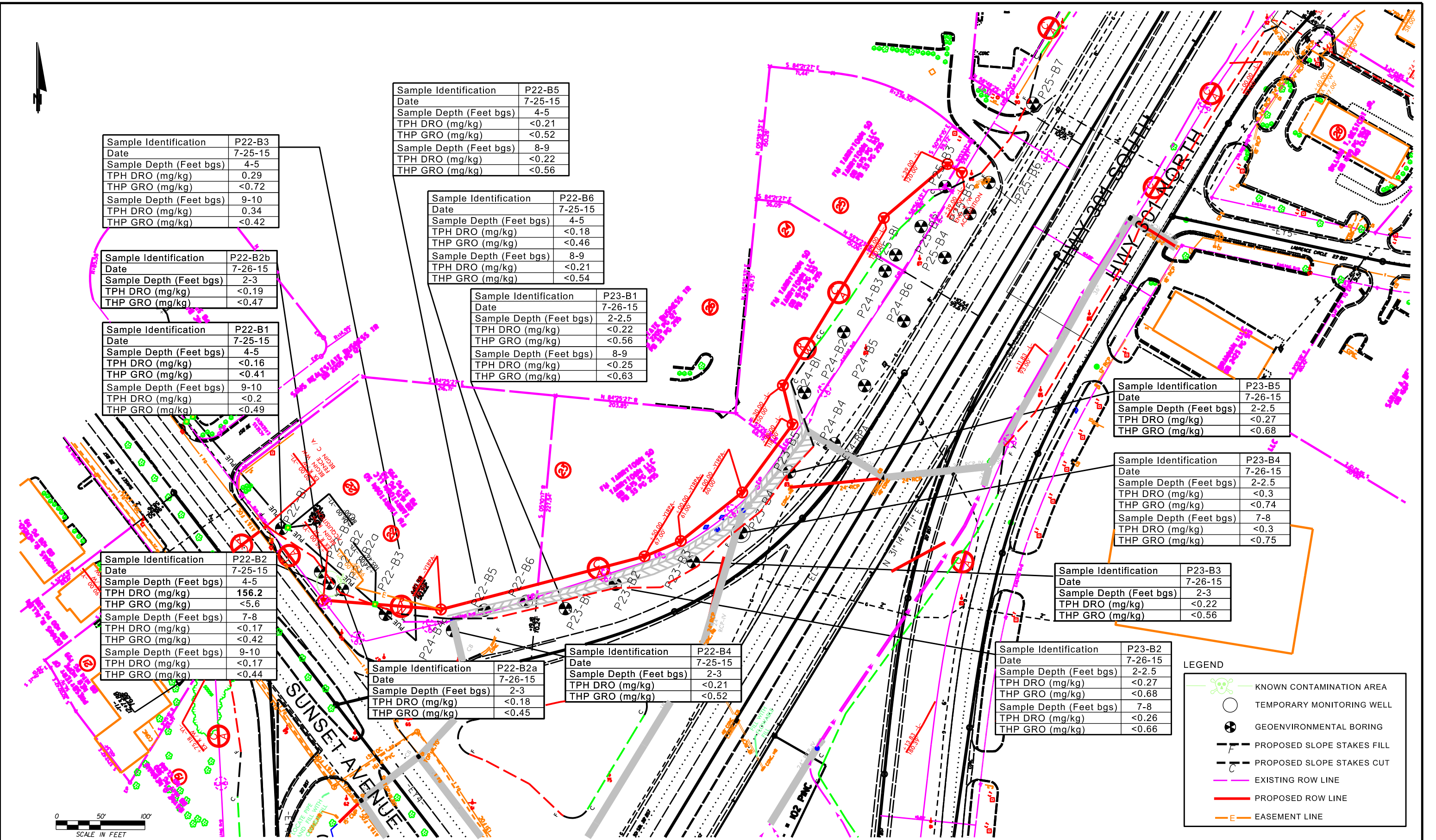


FIGURE 2
PARCELS 22, 23, 24 and 25
SITE MAP WITH SOIL BORING LOCATIONS

APEX
 APEX COMPANIES, LLC
 10610 METROMONT PARKWAY
 SUITE 206
 CHARLOTTE, NC 28117
 PHONE: (704) 799-6390

Date:	8/1/15	MONTGOMERY WARD 1 TARRYTOWN MALL AKA 2320 SUNSET AVENUE ROCKY MOUNT, NC 27801	
Proj. #	510424.001		
Parcel File:	parcel_22_25.dgn	Project Title:	
Approx. Scale:	1" = 100'	Drawn by:	MJO
		Client:	NC DOT



Sample Identification	P22-B3
Date	7-25-15
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	0.29
THP GRO (mg/kg)	<0.72
Sample Depth (Feet bgs)	9-10
TPH DRO (mg/kg)	0.34
THP GRO (mg/kg)	<0.42

Sample Identification	P22-B5
Date	7-25-15
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	<0.21
THP GRO (mg/kg)	<0.52
Sample Depth (Feet bgs)	8-9
TPH DRO (mg/kg)	<0.22
THP GRO (mg/kg)	<0.56

Sample Identification	P22-B2b
Date	7-26-15
Sample Depth (Feet bgs)	2-3
TPH DRO (mg/kg)	<0.19
THP GRO (mg/kg)	<0.47

Sample Identification	P22-B6
Date	7-25-15
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	<0.18
THP GRO (mg/kg)	<0.46
Sample Depth (Feet bgs)	8-9
TPH DRO (mg/kg)	<0.21
THP GRO (mg/kg)	<0.54

Sample Identification	P22-B1
Date	7-25-15
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	<0.16
THP GRO (mg/kg)	<0.41
Sample Depth (Feet bgs)	9-10
TPH DRO (mg/kg)	<0.2
THP GRO (mg/kg)	<0.49

Sample Identification	P23-B1
Date	7-26-15
Sample Depth (Feet bgs)	2-2.5
TPH DRO (mg/kg)	<0.22
THP GRO (mg/kg)	<0.56
Sample Depth (Feet bgs)	8-9
TPH DRO (mg/kg)	<0.25
THP GRO (mg/kg)	<0.63

Sample Identification	P23-B5
Date	7-26-15
Sample Depth (Feet bgs)	2-2.5
TPH DRO (mg/kg)	<0.27
THP GRO (mg/kg)	<0.68

Sample Identification	P23-B4
Date	7-26-15
Sample Depth (Feet bgs)	2-2.5
TPH DRO (mg/kg)	<0.3
THP GRO (mg/kg)	<0.74
Sample Depth (Feet bgs)	7-8
TPH DRO (mg/kg)	<0.3
THP GRO (mg/kg)	<0.75

Sample Identification	P22-B2
Date	7-25-15
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	156.2
THP GRO (mg/kg)	<5.6
Sample Depth (Feet bgs)	7-8
TPH DRO (mg/kg)	<0.17
THP GRO (mg/kg)	<0.42
Sample Depth (Feet bgs)	9-10
TPH DRO (mg/kg)	<0.17
THP GRO (mg/kg)	<0.44

Sample Identification	P23-B3
Date	7-26-15
Sample Depth (Feet bgs)	2-3
TPH DRO (mg/kg)	<0.22
THP GRO (mg/kg)	<0.56

Sample Identification	P22-B2a
Date	7-26-15
Sample Depth (Feet bgs)	2-3
TPH DRO (mg/kg)	<0.18
THP GRO (mg/kg)	<0.45

Sample Identification	P22-B4
Date	7-25-15
Sample Depth (Feet bgs)	2-3
TPH DRO (mg/kg)	<0.21
THP GRO (mg/kg)	<0.52

Sample Identification	P23-B2
Date	7-26-15
Sample Depth (Feet bgs)	2-2.5
TPH DRO (mg/kg)	<0.27
THP GRO (mg/kg)	<0.68
Sample Depth (Feet bgs)	7-8
TPH DRO (mg/kg)	<0.26
THP GRO (mg/kg)	<0.66

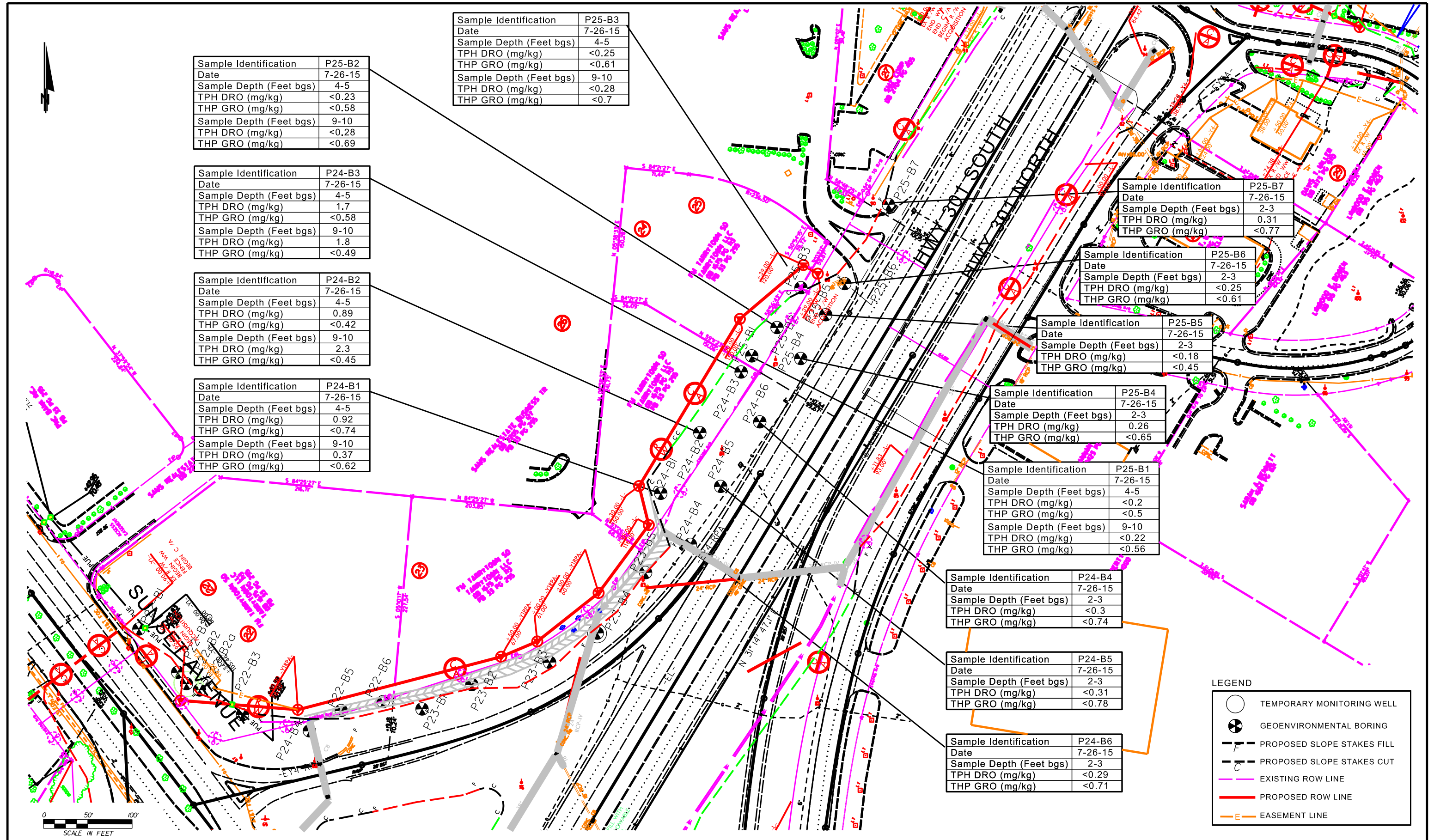
LEGEND	
	KNOWN CONTAMINATION AREA
	TEMPORARY MONITORING WELL
	GEOENVIRONMENTAL BORING
	PROPOSED SLOPE STAKES FILL
	PROPOSED SLOPE STAKES CUT
	EXISTING ROW LINE
	PROPOSED ROW LINE
	EASEMENT LINE

0 50' 100'
SCALE IN FEET



FIGURE 3
PARCELS 22 and 23
ONSITE UVF HYDROCARBON ANALYSIS RESULTS

Date:	8/1/15	MONTGOMERY WARD 1 TARRYTOWN MALL AKA 2320 SUNSET AVENUE ROCKY MOUNT, NC 27801
Proj. #:	510424.001	
Parcel: #	22_25.dgn	
Scale:	1" = 100'	Project Title:
Drawn by:	MJO	NC DOT



Sample Identification	P25-B2
Date	7-26-15
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	<0.23
THP GRO (mg/kg)	<0.58
Sample Depth (Feet bgs)	9-10
TPH DRO (mg/kg)	<0.28
THP GRO (mg/kg)	<0.69

Sample Identification	P25-B3
Date	7-26-15
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	<0.25
THP GRO (mg/kg)	<0.61
Sample Depth (Feet bgs)	9-10
TPH DRO (mg/kg)	<0.28
THP GRO (mg/kg)	<0.7

Sample Identification	P24-B3
Date	7-26-15
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	1.7
THP GRO (mg/kg)	<0.58
Sample Depth (Feet bgs)	9-10
TPH DRO (mg/kg)	1.8
THP GRO (mg/kg)	<0.49

Sample Identification	P25-B7
Date	7-26-15
Sample Depth (Feet bgs)	2-3
TPH DRO (mg/kg)	0.31
THP GRO (mg/kg)	<0.77

Sample Identification	P24-B2
Date	7-26-15
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	0.89
THP GRO (mg/kg)	<0.42
Sample Depth (Feet bgs)	9-10
TPH DRO (mg/kg)	2.3
THP GRO (mg/kg)	<0.45

Sample Identification	P25-B6
Date	7-26-15
Sample Depth (Feet bgs)	2-3
TPH DRO (mg/kg)	<0.25
THP GRO (mg/kg)	<0.61

Sample Identification	P24-B1
Date	7-26-15
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	0.92
THP GRO (mg/kg)	<0.74
Sample Depth (Feet bgs)	9-10
TPH DRO (mg/kg)	0.37
THP GRO (mg/kg)	<0.62

Sample Identification	P25-B5
Date	7-26-15
Sample Depth (Feet bgs)	2-3
TPH DRO (mg/kg)	<0.18
THP GRO (mg/kg)	<0.45

Sample Identification	P25-B4
Date	7-26-15
Sample Depth (Feet bgs)	2-3
TPH DRO (mg/kg)	0.26
THP GRO (mg/kg)	<0.65

Sample Identification	P25-B1
Date	7-26-15
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	<0.2
THP GRO (mg/kg)	<0.5
Sample Depth (Feet bgs)	9-10
TPH DRO (mg/kg)	<0.22
THP GRO (mg/kg)	<0.56

Sample Identification	P24-B4
Date	7-26-15
Sample Depth (Feet bgs)	2-3
TPH DRO (mg/kg)	<0.3
THP GRO (mg/kg)	<0.74

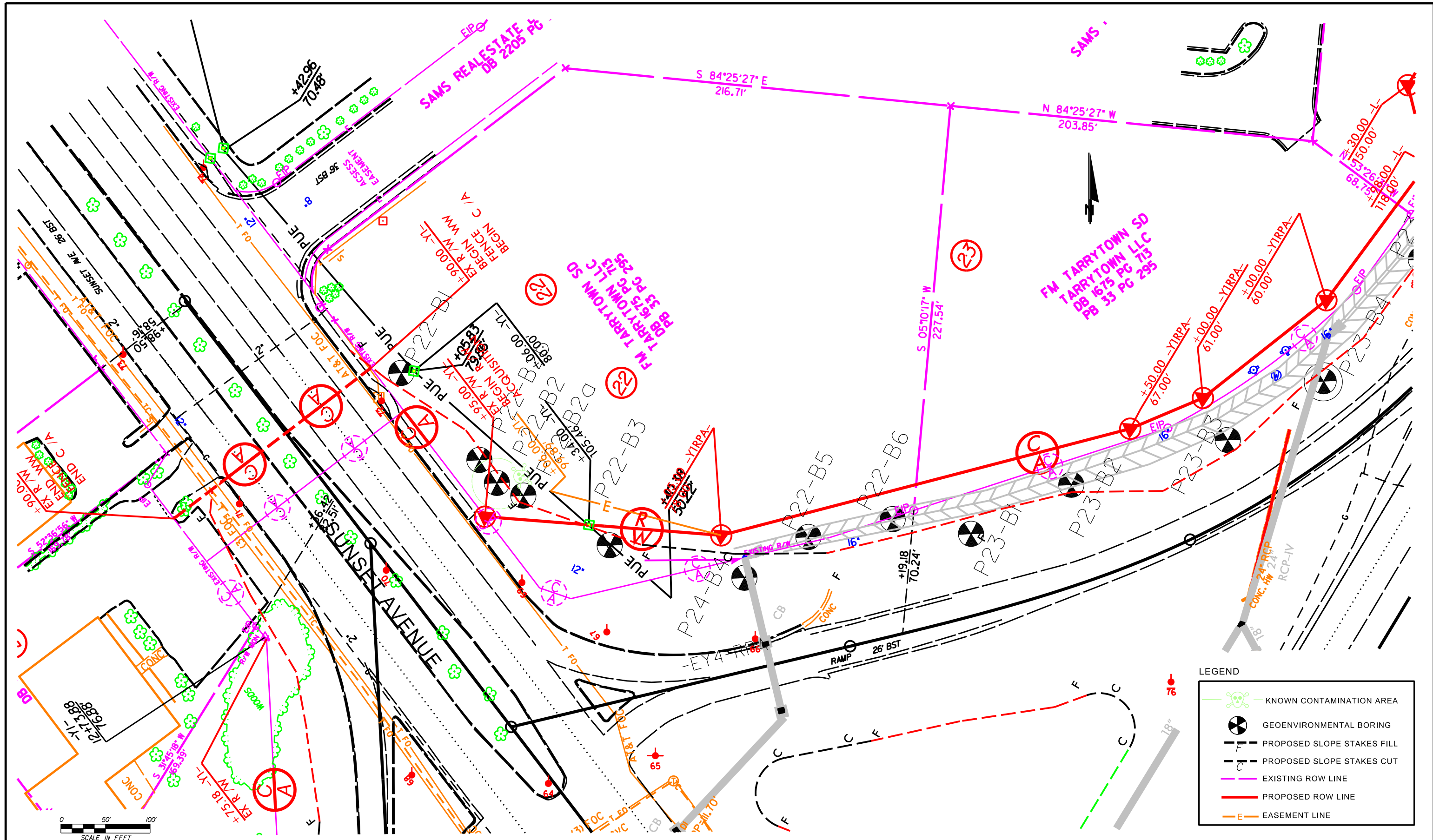
Sample Identification	P24-B5
Date	7-26-15
Sample Depth (Feet bgs)	2-3
TPH DRO (mg/kg)	<0.31
THP GRO (mg/kg)	<0.78

Sample Identification	P24-B6
Date	7-26-15
Sample Depth (Feet bgs)	2-3
TPH DRO (mg/kg)	<0.29
THP GRO (mg/kg)	<0.71

LEGEND

- TEMPORARY MONITORING WELL
- GEOENVIRONMENTAL BORING
- PROPOSED SLOPE STAKES FILL
- PROPOSED SLOPE STAKES CUT
- EXISTING ROW LINE
- PROPOSED ROW LINE
- EASEMENT LINE

FIGURE 4
PARCELS 24 and 25
ONSITE UVF HYDROCARBON ANALYSIS RESULTS



LEGEND

	KNOWN CONTAMINATION AREA
	GEOENVIRONMENTAL BORING
	PROPOSED SLOPE STAKES FILL
	PROPOSED SLOPE STAKES CUT
	EXISTING ROW LINE
	PROPOSED ROW LINE
	EASEMENT LINE

**FIGURE 5
PARCELS 22
APPROXIMATE AREAS OF SOIL
CONTAMINATION**

 **APEX**
 APEX COMPANIES, LLC
 10610 METROMONT PARKWAY
 SUITE 206
 CHARLOTTE, NC 28117
 PHONE: (704) 799-6390

Date:	8/1/15	MONTGOMERY WARD 1 TARRYTOWN MALL AKA 2320 SUNSET AVENUE ROCKY MOUNT, NC 27801	
Proj. #	510424.001		
CAD File:	parcel_22_FIG 5		
Approx. Scale:	1" = 50'	Project Title:	MJO NC DOT
		Drawn by:	
		Client:	

APPENDIX A
PHOTOGRAPH LOG



Photo 1

Viewing Parcels 22 and 23 Prior to Drilling Activities.



Photo 2

Viewing a portion of the investigation area. Stakes indicate proposed ROW and the cones are pre-determined boring locations.



Photo 3

Viewing Parcel 23. Utilities are located in site investigation area.



Photo 4

Temporary monitoring well installed on site.



Photo 5

Viewing Parcel 24 and 25 prior to drilling activities.



Photo 6

Regional Probing setting up to drill on Parcel 24.



Photo 7

Viewing Parcel 24 ditch line. Apex set up to analyze samples in the background.



Photo 8

Viewing Parcel 25 investigation area. Boring locations are pre marked with orange cones.

APPENDIX B
BORING LOGS



Apex Companies, LLC

Boring Log

Boring/Well No.: P22-B3	Site Name: Tarrytown LLC, Property
Date: 7-25-15	Location: Rocky Mount, Nash Co., NC
Job No.: 510424-001	Sample Method: Direct Push
AMEC Rep: Troy L. Holzschuh	Drilling Method: Direct Push
Drilling Company: Regional Probing Services	Driller Name/Cert #: Larry Opper/3322A

Remarks:

Depth (ft BLS)	PID Reading (ppm)	Lab Sample ID	Soil/Lithologic Description
0-1	0.0		Brown, Silt, Moist
1-3	0.0		Yellow/Orange, Clayey Silt, Moist
3-5	0.0		
5-8	0.0		White, Clayey Silt, Moist
8-10	0.0		
Boring terminated at 10 feet			

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:



Apex Companies, LLC

Boring Log

Boring/Well No.: P22-B4	Site Name: Tarrytown LLC, Property
Date: 7-25-15	Location: Rocky Mount, Nash Co., NC
Job No.: 510424-001	Sample Method: Direct Push
AMEC Rep: Troy L. Holzschuh	Drilling Method: Direct Push
Drilling Company: Regional Probing Services	Driller Name/Cert #: Larry Opper/3322A

Remarks:

Depth (ft) BLS)	PID Reading (ppm)	Lab Sample ID	Soil/Lithologic Description
0-1	0.0		Brown, Silt, Moist
1-2	0.0		Orange/White, Marbled, Sandy Clayey Silt, Moist
2-5	0.0		
5-8	0.0		Gray/White, Clayey Silt, Moist; Water @ 9 feet bgs
8-10	0.0		
			Boring terminated at 10 feet

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:



Apex Companies, LLC

Boring Log

Boring/Well No.: P22-B5	Site Name: Tarrytown LLC, Property
Date: 7-25-15	Location: Rocky Mount, Nash Co., NC
Job No.: 510424-001	Sample Method: Direct Push
AMEC Rep: Troy L. Holzschuh	Drilling Method: Direct Push
Drilling Company: Regional Probing Services	Driller Name/Cert #: Larry Oppen/3322A

Remarks:

Depth (ft BLS)	PID Reading (ppm)	Lab Sample ID	Soil/Lithologic Description
0-1	0.0		Brown, Silt, Moist
1-4	0.0		Orange/White, Marbled, Silt, Moist
4-6	0.0		Orange/White, Marbled, Clayey Silt, Moist
6-9	0.0		White, Sand, Medium, Moist
9-10	0.0		Boring terminated at 10 feet

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:



Apex Companies, LLC

Boring Log

Boring/Well No.: P22-B6	Site Name: Tarrytown LLC, Property
Date: 7-25-15	Location: Rocky Mount, Nash Co., NC
Job No.: 510424-001	Sample Method: Direct Push
AMEC Rep: Troy L. Holzschuh	Drilling Method: Direct Push
Drilling Company: Regional Probing Services	Driller Name/Cert #: Larry Opper/3322A

Remarks:

Depth (ft BLS)	PID Reading (ppm)	Lab Sample ID	Soil/Lithologic Description
0-1	0.0		Brown, Silt, Moist
1-4	0.0		Orange/White, Marbled, Clayey Silt, Moist
4-6	0.0		
6-8	0.0		
8-10	0.0		White, Sand, Medium, Moist
Boring terminated at 10 feet			

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:



Apex Companies, LLC

Boring Log

Boring/Well No.: P23-B1	Site Name: Tarrytown LLC, Property
Date: 7-26-15	Location: Rocky Mount, Nash Co., NC
Job No.: 510424-001	Sample Method: Direct Push
AMEC Rep: Troy L. Holzschuh	Drilling Method: Direct Push
Drilling Company: Regional Probing Services	Driller Name/Cert #: Larry Opper/3322A

Remarks:

Depth (ft BLS)	PID Reading (ppm)	Lab Sample ID	Soil/Lithologic Description
0-1	0.0		Brown, Silt, Moist
1-3	0.0		Tan, Clayey Silt, Moist
3-6	0.0		White, Sandy Clayey Silt, Moist
6-8	0.0		Orange/Gray, Marbled, Clayey Silt, Moist
8-10	0.0		
			Boring terminated at 10 feet

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:



Apex Companies, LLC

Boring Log

Boring/Well No.: P23-B3	Site Name: Tarrytown LLC, Property
Date: 7-26-15	Location: Rocky Mount, Nash Co., NC
Job No.: 510424-001	Sample Method: Direct Push
AMEC Rep: Troy L. Holzschuh	Drilling Method: Direct Push
Drilling Company: Regional Probing Services	Driller Name/Cert #: Larry Opper/3322A

Remarks:

Depth (ft BLS)	PID Reading (ppm)	Lab Sample ID	Soil/Lithologic Description
0-1	0.0		Tan, Silt, Moist
1-3	0.0		Orange/Gray, Marbled, Clayey Silt, Moist; Water @ 3 feet bgs
3-5	0.0		
			Boring terminated at 5 feet

WELL CONSTRUCTION DETAILS (If Applicable)	
Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:



Apex Companies, LLC

Boring Log

Boring/Well No.: P23-B4	Site Name: Tarrytown LLC, Property
Date: 7-26-15	Location: Rocky Mount, Nash Co., NC
Job No.: 510424-001	Sample Method: Direct Push
AMEC Rep: Troy L. Holzschuh	Drilling Method: Direct Push
Drilling Company: Regional Probing Services	Driller Name/Cert #: Larry Opper/3322A

Remarks:

Depth BLS)	(ft)	PID Reading (ppm)	Lab Sample ID	Soil/Lithologic Description
0-1		0.0		Brown, Silt, Moist
1-2		0.0		Brown, Clayey Silt, Moist
2-5		0.0		Orange/Gray, Marbled, Clayey Silt, (Water @ 3.5 feet bgs)
5-8		0.0		White, Clay, Wet
8-10		0.0		White, Sand, Medium, Wet
				Boring terminated at 10 feet
				Temperary well installed for a grab sample. Details are below.

WELL CONSTRUCTION DETAILS (If Applicable)	
Well Type/Diameter:	Outer Casing Interval: N/A
Total Depth: 11 feet bgs	Outer Casing Diameter: N/A
Screen Interval: 6 to 11 feet	Bentonite Interval: N/A
Sand Interval: 4 to 11 feet	Slot Size: 0.10
Grout Interval: N/A	Static Water Level: 3.60



Apex Companies, LLC

Boring Log

Boring/Well No.: P25-B2	Site Name: Tarrytown LLC, Property
Date: 7-26-15	Location: Rocky Mount, Nash Co., NC
Job No.: 510424-001	Sample Method: Direct Push
AMEC Rep: Troy L. Holzschuh	Drilling Method: Direct Push
Drilling Company: Regional Probing Services	Driller Name/Cert #: Larry Opper/3322A

Remarks:

Depth (ft) BLS)	PID Reading (ppm)	Lab Sample ID	Soil/Lithologic Description
0-1	0.0		Tan, Silt, Dry
1-4	0.0		Orange, Silty Sand, Medium, Moist
4-6	0.0		
6-8	0.0		Orange, Clayey Sandy Silt, Moist
8-10	0.0		
Boring terminated at 10 feet			

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:



Apex Companies, LLC

Boring Log

Boring/Well No.: P25-B4	Site Name: Tarrytown LLC, Property
Date: 7-26-15	Location: Rocky Mount, Nash Co., NC
Job No.: 510424-001	Sample Method: Direct Push
AMEC Rep: Troy L. Holzschuh	Drilling Method: Direct Push
Drilling Company: Regional Probing Services	Driller Name/Cert #: Larry Opper/3322A

Remarks:

Depth (ft BLS)	PID Reading (ppm)	Lab Sample ID	Soil/Lithologic Description
0-1	0.0		Brown, Silt, Moist
1-4	0.0		Yellow, Clayey Silt, Moist; Water @ 3 feet bgs
4-5	0.0		Gray/Yellow, Marbled, Clayey Silt, Moist
Boring terminated at 5 feet			

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:



Apex Companies, LLC

Boring Log

Boring/Well No.: P25-B5	Site Name: Tarrytown LLC, Property
Date: 7-26-15	Location: Rocky Mount, Nash Co., NC
Job No.: 510424-001	Sample Method: Direct Push
AMEC Rep: Troy L. Holzschuh	Drilling Method: Direct Push
Drilling Company: Regional Probing Services	Driller Name/Cert #: Larry Opper/3322A

Remarks:

Depth (ft BLS)	PID Reading (ppm)	Lab Sample ID	Soil/Lithologic Description
0-1	0.0		Brown, Silt, Moist
1-3	0.0		Yellow, Clayey Silt, Moist; Water @ 3 feet bgs
4-5	0.0		
Boring terminated at 5 feet			

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:



Apex Companies, LLC

Boring Log

Boring/Well No.: P25-B6	Site Name: Tarrytown LLC, Property
Date: 7-26-15	Location: Rocky Mount, Nash Co., NC
Job No.: 510424-001	Sample Method: Direct Push
AMEC Rep: Troy L. Holzschuh	Drilling Method: Direct Push
Drilling Company: Regional Probing Services	Driller Name/Cert #: Larry Opper/3322A

Remarks:

Depth (ft BLS)	PID Reading (ppm)	Lab Sample ID	Soil/Lithologic Description
0-1	0.0		Brown, Silt, Moist
1-3	0.0		Yellow, Clayey Silt, Moist; Water @ 3 feet bgs
4-5	0.0		
			Boring terminated at 5 feet

WELL CONSTRUCTION DETAILS (If Applicable)	
Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:



Apex Companies, LLC

Boring Log

Boring/Well No.: P25-B7	Site Name: Tarrytown LLC, Property
Date: 7-25-15	Location: Rocky Mount, Nash Co., NC
Job No.: 510424-001	Sample Method: Direct Push
AMEC Rep: Troy L. Holzschuh	Drilling Method: Direct Push
Drilling Company: Regional Probing Services	Driller Name/Cert #: Larry Oppen/3322A

Remarks:

Depth (ft BLS)	PID Reading (ppm)	Lab Sample ID	Soil/Lithologic Description
0-1	0.0		Brown, Silt, Moist
1-3	0.0		Yellow, Clayey Silt, Moist; Water @ 3 feet bgs
4-5	0.0		Boring terminated at 5 feet

WELL CONSTRUCTION DETAILS (If Applicable)	
Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:

APPENDIX C
GEOPHYSICAL REPORT



Taylor Wiseman & Taylor

ENGINEERS | SURVEYORS | SCIENTISTS

3500 Regency Parkway, Suite 260 – Cary, NC 27518

Office: (919) 297-0085 Fax: (919) 297-0090

August 26, 2015

TWT # 70668.5002.00

Apex Companies, LLC
Attn: Ms. Katie Lippard
10610 Metromont Parkway
Suite 206
Charlotte, NC 28269

RE: SUE Geophysical Assessment
NCDOT Project U-3330
US 301 Bypass
Rocky Mount, NC (Nash County)

Ms. Lippard:

Taylor Wiseman & Taylor (**TWT**) is submitting this Subsurface Utility Engineering (SUE) Geophysical Assessment report to document services performed under Subcontracting Services Agreement number 51-315, dated 7/8/2015, for Apex Job number 510424.001. TWT was subcontracted by Apex Companies, LLC to perform a utility mark-out and underground storage tank (UST) investigation with electromagnetic designating equipment and ground penetrating radar (GPR). These services were performed at six (6) locations that are defined as follows:

- 1) Parcel 20 (Greene) – 1921 Stone Rose Avenue/Drive – see Figure 1
- 2) Parcel 37 (National) – 770 N Wesleyan Blvd – see Figure 2
- 3) Parcel 45 (Medlin) – 829 Hunter Hill Road – see Figure 3
- 4) Parcel 49 (Bishop Partners) – 921 N. Wesleyan Blvd – see Figure 4
- 5) Parcel 69 (Cliett, Inc.) – 1001 N. Wesleyan Blvd – see Figure 5
- 6) Parcels 22,23,24 & 25 (Tarrytown) – 2320 Sunset Avenue – see Figure 6

The limits and findings for each investigation are documented on the Figures attached hereto. As noted on the Figures, TWT utilized a Vivax Pro Loc 2, and Vivax Metrotech 810 for the electromagnetic designation and a Mala X3M GPR with a 250 MHz antenna. There were some areas at the sites where the GPR cart could not be pushed. Steep slopes, ditches and wooded areas presented some of these limitations. Each Figure clearly identifies the areas where GPR could not be performed.

Each Figure shows the underground utility lines that were detected by way of the electromagnetic designating. Each Figure shows any anomalies that were detected with the GPR.

Parcel 20 (refer to Figure 1) is the only parcel where the GPR detected an anomaly. The anomaly was not characteristic of a UST and has been duly noted that way on the Figure.

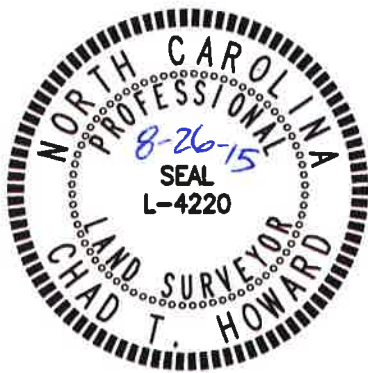
The conclusions for this geophysical assessment submitted herein are based upon the data obtained from non-invasive testing. As such, even within the surveyed area, the survey cannot be considered 100 percent accurate due to inherent method limitations, survey limitations, site features, and/or unforeseen site-specific conditions. Accordingly, the possibility exists that not all subsurface, man-made features have been located.

Properties of the subsurface materials (e.g., clay content, moisture, etc.) can have a significant impact on the effective depth of penetration of the GPR survey. Accordingly, non-metallic tanks, tanks at depths below about 5 feet, and tanks outside of the survey area may not have been detected using the

geophysical techniques. In addition, due to interference, there may be areas within the proposed survey area where an interpretation of subsurface features was not feasible.

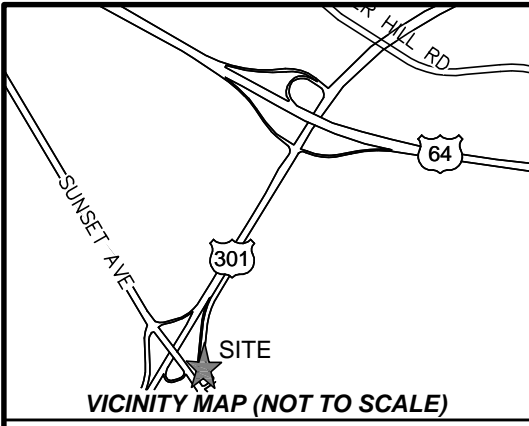
Regardless of the thoroughness of a geophysical study, there is always a possibility that actual conditions may not match the interpretations. The results should be considered accurate only to the degree implied by the methods used and the method's limitations and data coverage. Accordingly, the possibility exists that not all subsurface features at a project site will be located due to either subsurface soil conditions or the occurrence of features outside the lateral limits and below the depth of penetration of the methods used. The location and/or determination (or the lack thereof) of potential USTs is based on our review of provided information and of the geophysical survey. Under no circumstances does TWT assume any responsibility for damages resulting from the presence of subsurface features that may exist but were not identified by our survey.

TWT welcomes the opportunity to assist you with future geophysical survey needs. Should you have any questions regarding this report, please call or email.



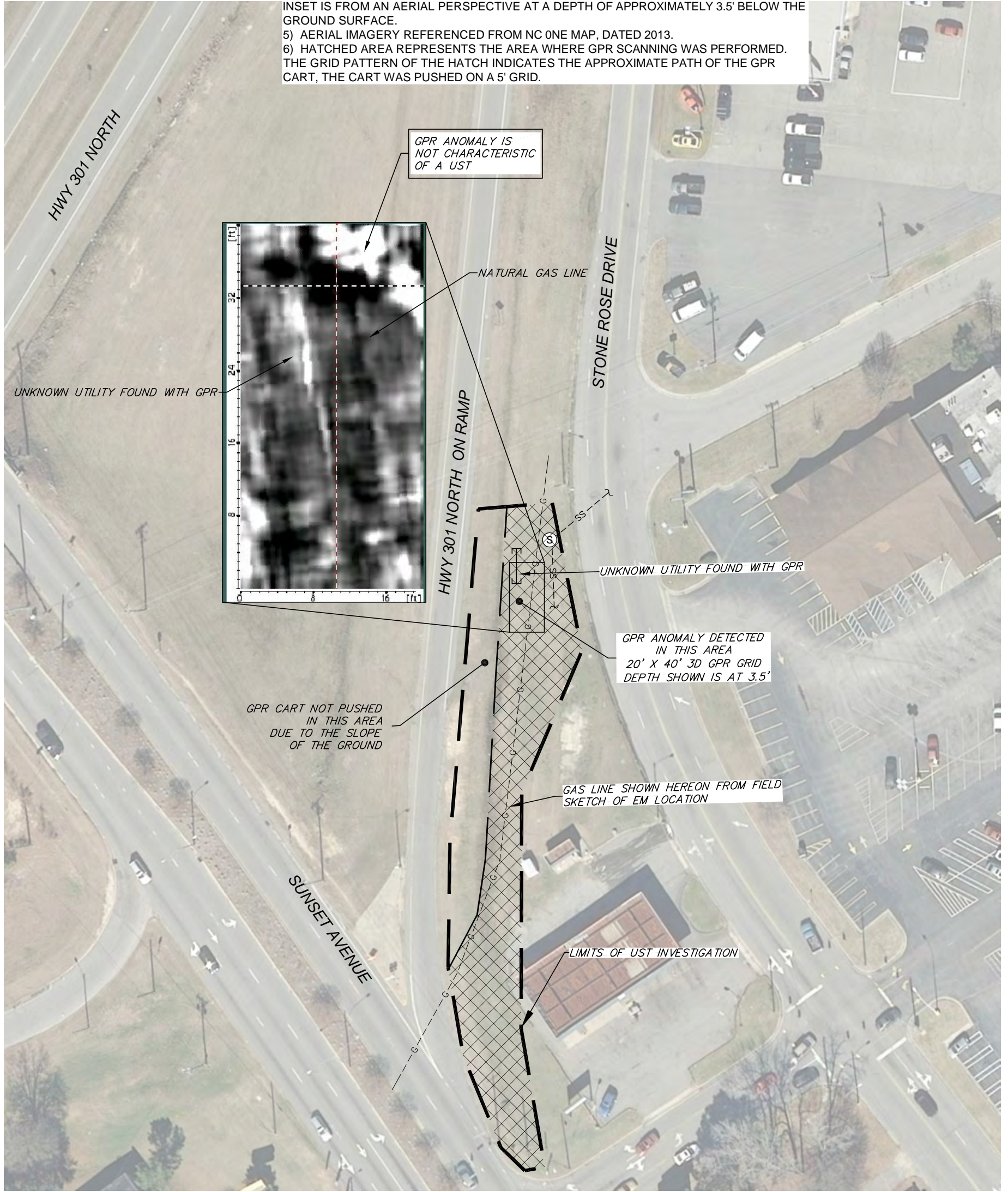
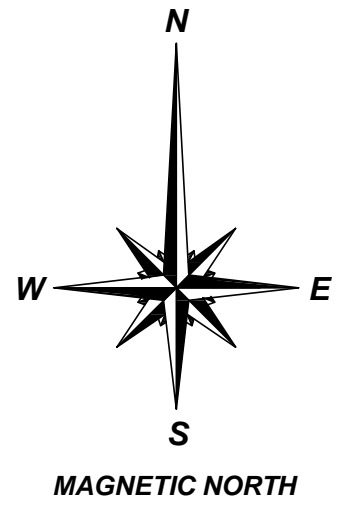
Best regards,

Chad T. Howard, PLS
Survey & SUE Division Manager
Taylor Wiseman & Taylor
(919) 215-1472
howard@taylorwiseman.com

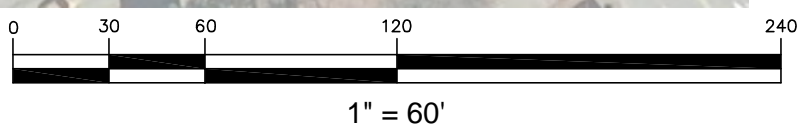


GENERAL NOTES

- 1) THE PURPOSE OF THIS MAP IS TO DISPLAY UNDERGROUND UTILITIES DESIGNATED BY TAYLOR WISEMAN & TAYLOR'S SUBSURFACE UTILITY ENGINEERING DEPARTMENT, UTILIZING VIVAX PRO LOC 2, AND VIVAX METROTECH 810 FOR ELECTROMAGNETIC DESIGNATION, AND A MALA X3M GROUND PENETRATING RADAR WITH A 250 MHz ANTENNA.
- 2) ALL UNDERGROUND UTILITIES SHOWN HEREON WERE LOCATED IN ACCORDANCE WITH QUALITY LEVEL "B" SUBSURFACE UTILITY ENGINEERING STANDARDS. THIS QUALITY LEVEL DOES NOT GUARANTEE THE LOCATION OF ALL UNDERGROUND UTILITIES THAT MAY EXIST WITHIN THE LIMITS OF THIS SURVEY. THIS MAP SHOULD NOT BE RELIED UPON AS A COMPLETE DEPICTION OF ALL UNDERGROUND UTILITY APPURTENANCES THAT MAY EXIST WITHIN THE LIMITS OF THIS SURVEY. NOT ALL UNDERGROUND UTILITY APPURTENANCES CAN BE DETECTED AND TRACED WITH OUR EQUIPMENT. USE OF THIS MAP DOES NOT NEGATE ANY PARTY'S RESPONSIBILITY TO CONTACT "ONE-CALL" PRIOR TO PERFORMING EXCAVATIONS INSIDE THE LIMITS OF THIS SURVEY.
- 3) THE LOCATION OF THE UTILITIES SHOWN HEREON SHOULD BE CONSIDERED APPROXIMATE. THIS DOCUMENT IS A SKETCH; IT IS NOT A SURVEY; NO FIELD SURVEYING WAS PERFORMED.
- 4) THERE WAS ONE AREA WITHIN THE LIMITS, THAT THE GPR FOUND AN ANOMALY. THE INSET IS FROM AN AERIAL PERSPECTIVE AT A DEPTH OF APPROXIMATELY 3.5' BELOW THE GROUND SURFACE.
- 5) AERIAL IMAGERY REFERENCED FROM NC ONE MAP, DATED 2013.
- 6) HATCHED AREA REPRESENTS THE AREA WHERE GPR SCANNING WAS PERFORMED. THE GRID PATTERN OF THE HATCH INDICATES THE APPROXIMATE PATH OF THE GPR CART, THE CART WAS PUSHED ON A 5' GRID.



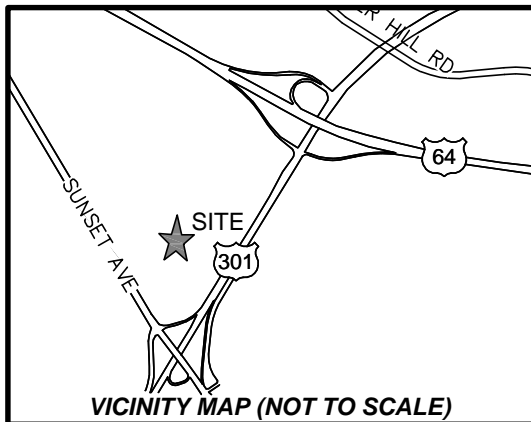
THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS



TAYLOR WISEMAN & TAYLOR
 ENGINEERS | SURVEYORS | SCIENTISTS
 SUBSURFACE UTILITY ENGINEERS
 3500 REGENCY PARKWAY
 SUITE 260, CARY, NC 27518
 PHONE (919) 297-0085 FAX (919) 297-0090
 NORTH CAROLINA LICENSE NUMBER: F-0362

GEOPHYSICAL ASSESSMENT
 for APEX COMPANIES LLC.
 NCDOT PROJECT U-3330, PARCEL 20
 1921 STONE ROSE DRIVE
 NASH COUNTY - ROCKY MOUNT, NC

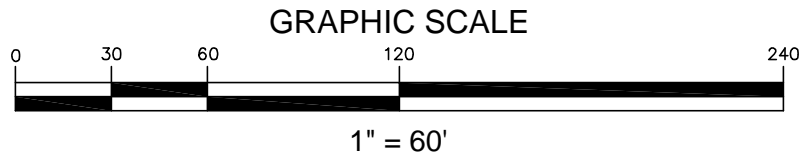
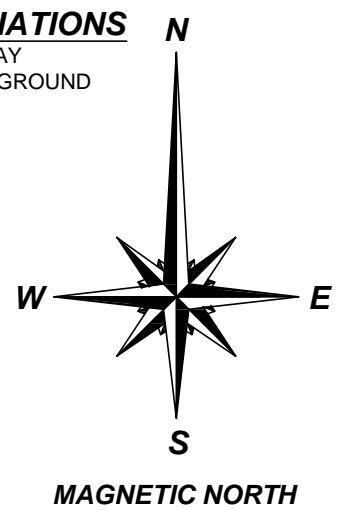
REVISIONS:	DATE OF SURVEY:	07/13/2015
	SCALE:	1" = 60'
	DRAWN BY:	J.REYNOLDS
	CHECKED BY:	C. HOWARD PLS
	PROJECT:	70668.5002.00
FIGURE #:	1	SHEET: 1 / 1



LINE LEGEND		
---	FO	U/G FIBER OPTIC (SKETCH)
---	T	U/G TELEPHONE (SKETCH)
---	UE	U/G ELECTRIC LINE (SKETCH)

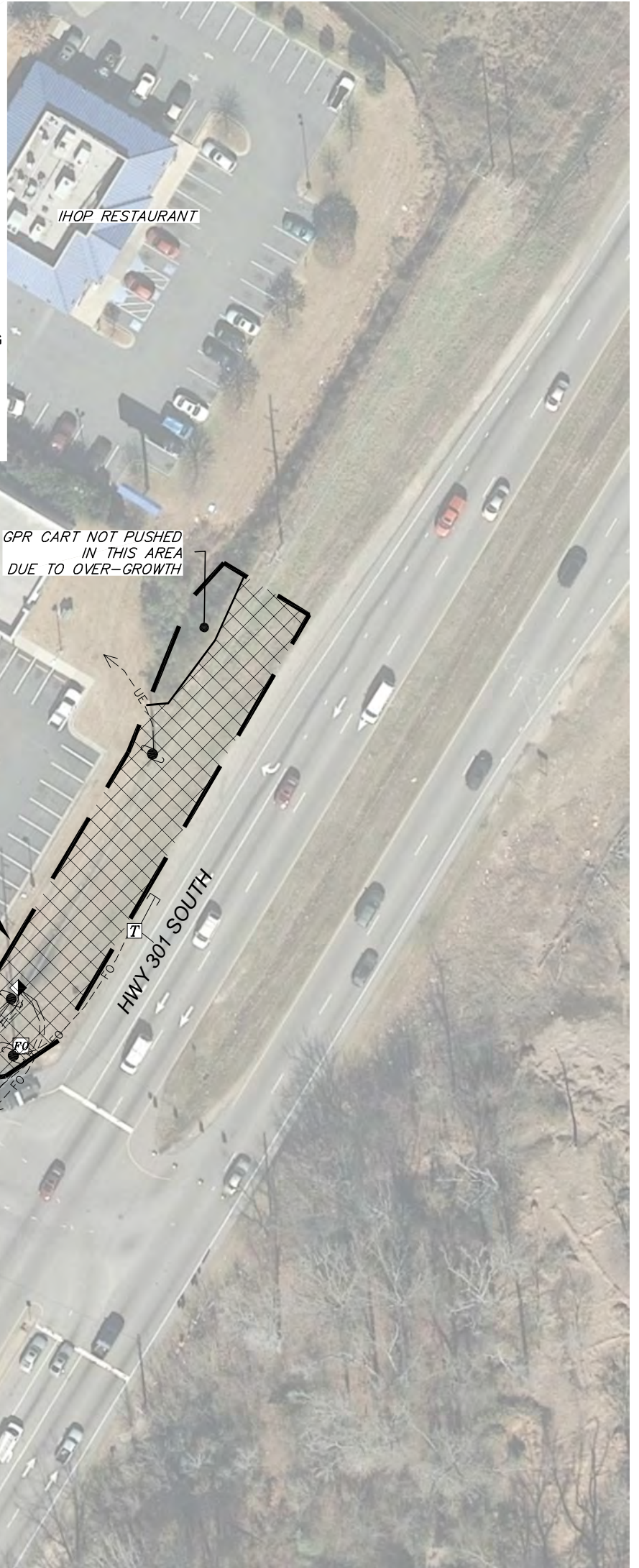
ABBREVIATIONS

HWY HIGHWAY
U/G UNDERGROUND



GENERAL NOTES

- 1) THE PURPOSE OF THIS MAP IS TO DISPLAY UNDERGROUND UTILITIES DESIGNATED BY TAYLOR WISEMAN & TAYLOR'S SUBSURFACE UTILITY ENGINEERING DEPARTMENT, UTILIZING VIVAX PRO LOC 2, AND VIVAX METROTECH 810 FOR ELECTROMAGNETIC DESIGNATION, AND A MALA X3M GROUND PENETRATING RADAR WITH A 250 MHZ ANTENNA.
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- 4) NO ANOMALIES WERE FOUND BY THE GPR WITHIN THE PROJECT LIMITS.
- 5) AERIAL IMAGERY REFERENCED FROM NC ONE MAP, DATED 2013.
- 6) HATCHED AREA REPRESENTS THE AREA WHERE GPR SCANNING WAS PERFORMED. THE GRID PATTERN OF THE HATCH INDICATES THE APPROXIMATE PATH OF THE GPR CART, THE CART WAS PUSHED ON A 5' GRID.



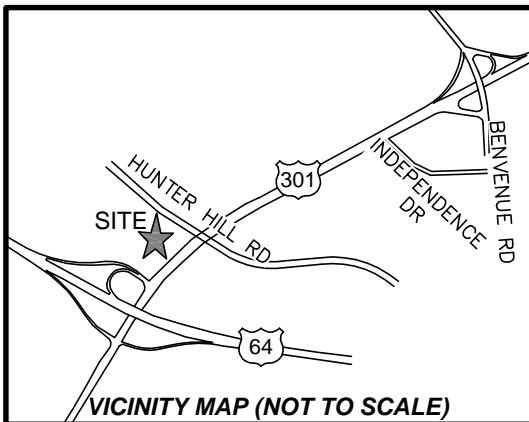
THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS



TAYLOR WISEMAN & TAYLOR
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NORTH CAROLINA LICENSE NUMBER: F-0362

GEOPHYSICAL ASSESSMENT
for APEX COMPANIES LLC.
NCDOT PROJECT U-3330, PARCEL 37
770 N. WESLEYAN BLVD
NASH COUNTY - ROCKY MOUNT, NC

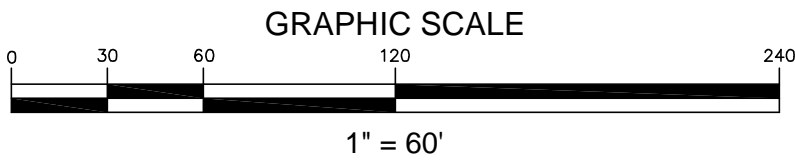
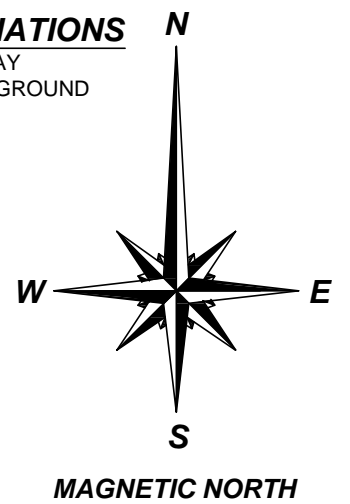
REVISIONS:	DATE OF SURVEY:	07/13/2015
	SCALE:	1" = 60'
	DRAWN BY:	J.REYNOLDS
	CHECKED BY:	C. HOWARD PLS
	PROJECT:	70668.5002.00
FIGURE #:	2	SHEET: 1 / 1



LINE LEGEND	
---G---G---	U/G GAS (SKETCH)
---FO---FO---	U/G FIBER OPTIC (SKETCH)
---T---T---	U/G TELEPHONE (SKETCH)
---UE---UE---	U/G ELECTRIC LINE (SKETCH)

ABBREVIATIONS

HWY HIGHWAY
U/G UNDERGROUND



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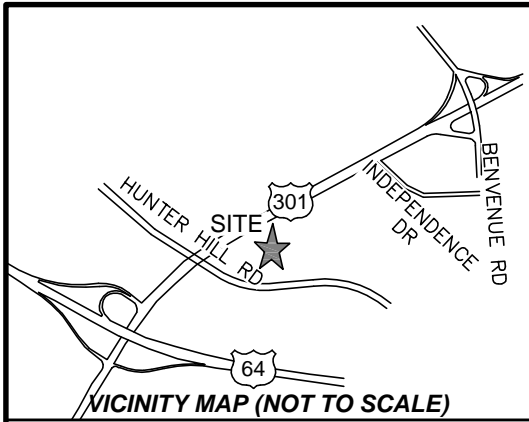
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NORTH CAROLINA LICENSE NUMBER: F-0362

GEOPHYSICAL ASSESMENT
for APEX COMPANIES LLC.
NCDOT PROJECT U-3330, PARCEL 45
829 HUNTER HILL ROAD
NASH COUNTY - ROCKY MOUNT, NC

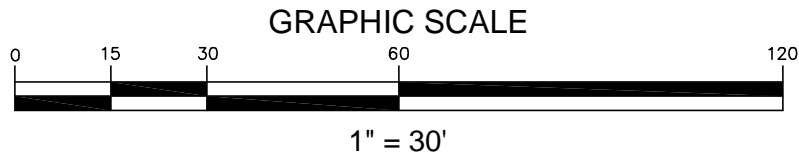
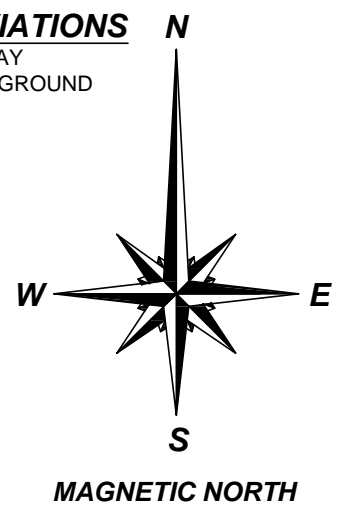
REVISIONS:	DATE OF SURVEY:	07/13/2015
	SCALE:	1" = 60'
	DRAWN BY:	J.REYNOLDS
	CHECKED BY:	C. HOWARD PLS
	PROJECT:	70668.5002.00
FIGURE #:	3	SHEET: 1 / 1



LINE LEGEND	
-----T-----T-----	U/G TELEPHONE (SKETCH)
-----W-----W-----	U/G WATER LINE (SKETCH)
-----UE-----UE-----	U/G ELECTRIC LINE (SKETCH)
-----G-----G-----	U/G GAS (SKETCH)
-----UNK-----UNK-----	UNKNOWN U/G UTILITY

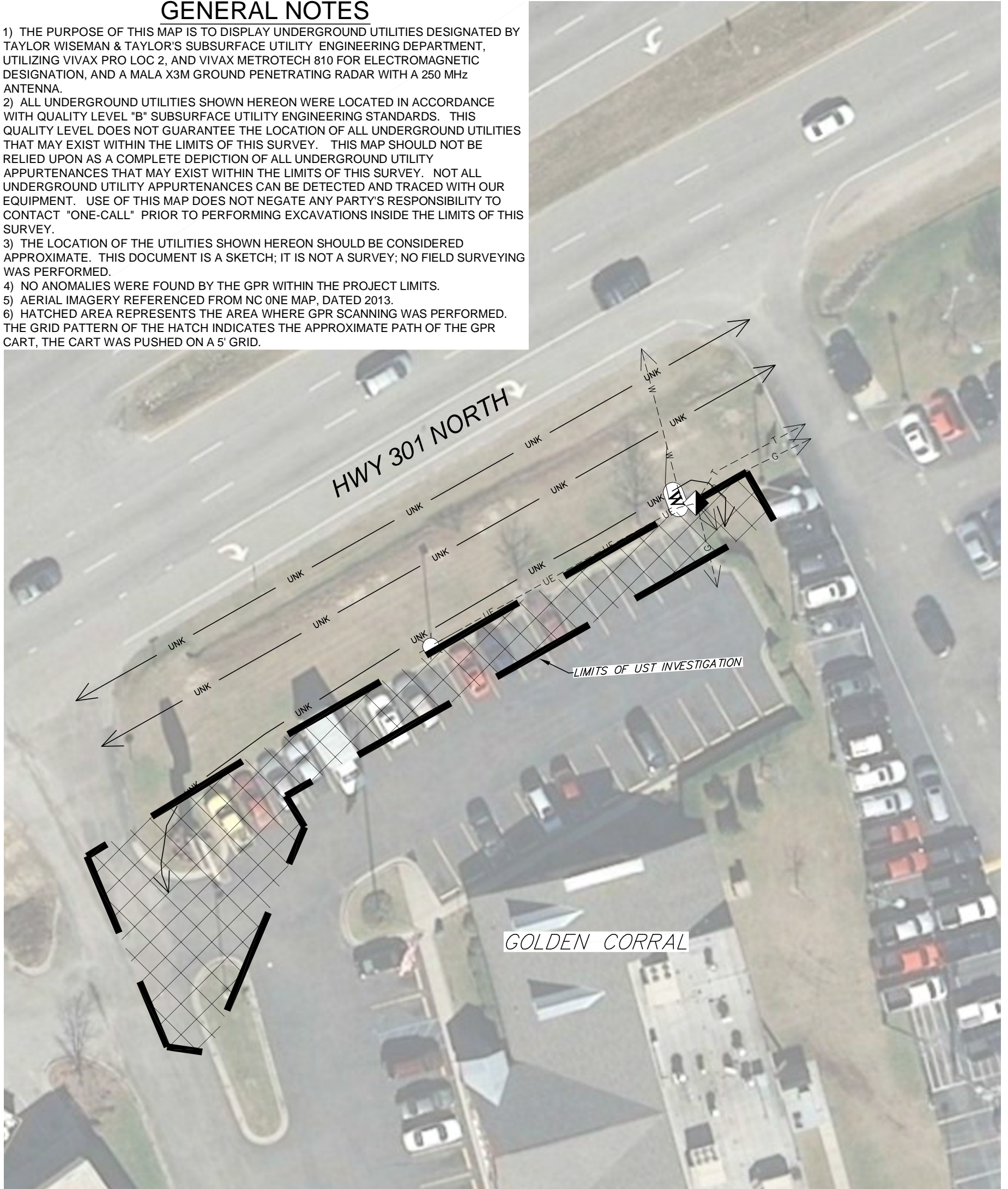
ABBREVIATIONS

HWY HIGHWAY
U/G UNDERGROUND



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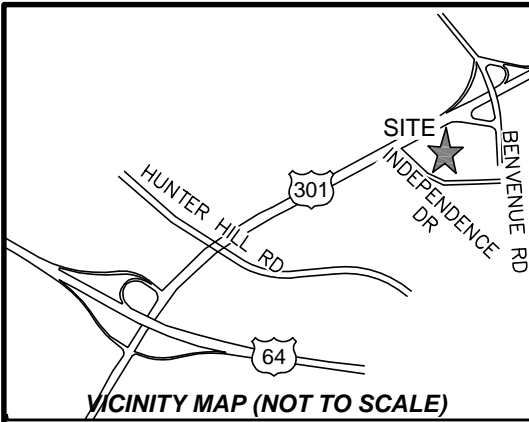
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NORTH CAROLINA LICENSE NUMBER: F-0362

GEOPHYSICAL ASSESMENT
for APEX COMPANIES LLC.
NCDOT PROJECT U-3330, PARCEL 49
921 N. WESLEYAN BLVD
NASH COUNTY - ROCKY MOUNT, NC

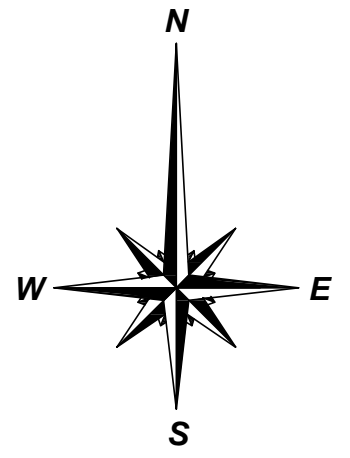
REVISIONS:	DATE OF SURVEY:	07/13/2015
	SCALE:	1" = 30'
	DRAWN BY:	J.REYNOLDS
	CHECKED BY:	C. HOWARD PLS
	PROJECT:	70668.5002.00
FIGURE #:	4	SHEET: 1 / 1



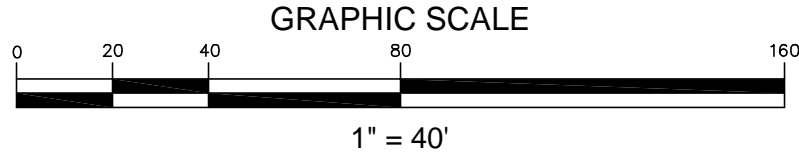
LINE LEGEND	
	U/G TELEPHONE (SKETCH)
	U/G WATER LINE (SKETCH)

ABBREVIATIONS

HWY HIGHWAY
U/G UNDERGROUND

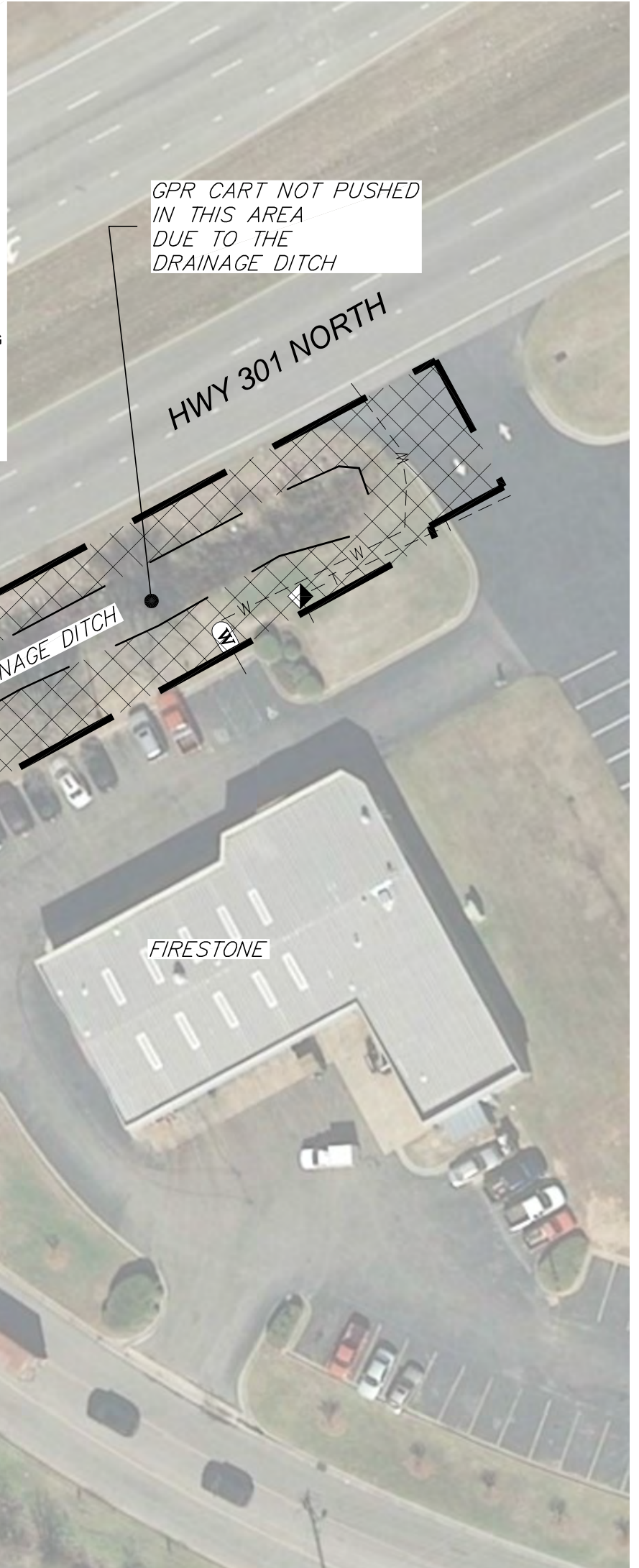


MAGNETIC NORTH



GENERAL NOTES

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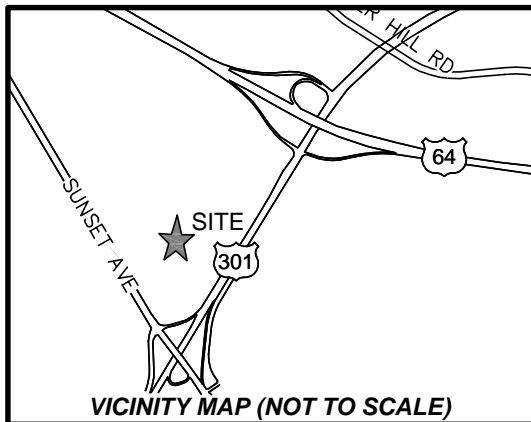
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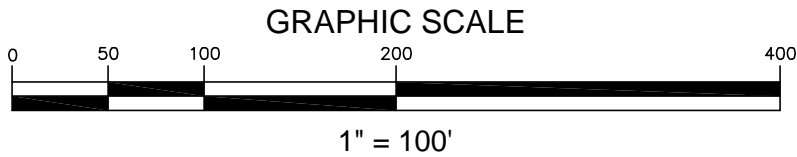
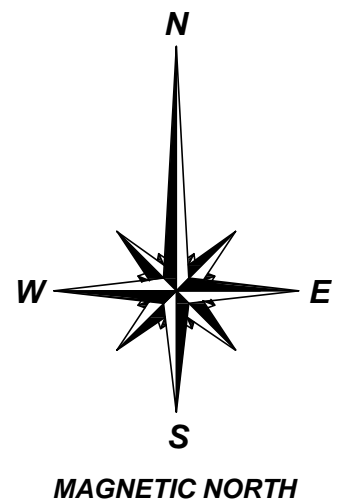
GEOPHYSICAL ASSESMENT
for APEX COMPANIES LLC.
NCDOT PROJECT U-3330, PARCEL 69
1001 N. WESLEYAN BLVD
NASH COUNTY - ROCKY MOUNT, NC

REVISIONS:	DATE OF SURVEY:	07/13/2015
	SCALE:	1" = 40'
	DRAWN BY:	J.REYNOLDS
	CHECKED BY:	C. HOWARD PLS
	PROJECT:	70668.5002.00
FIGURE #:	5	SHEET: 1 / 1



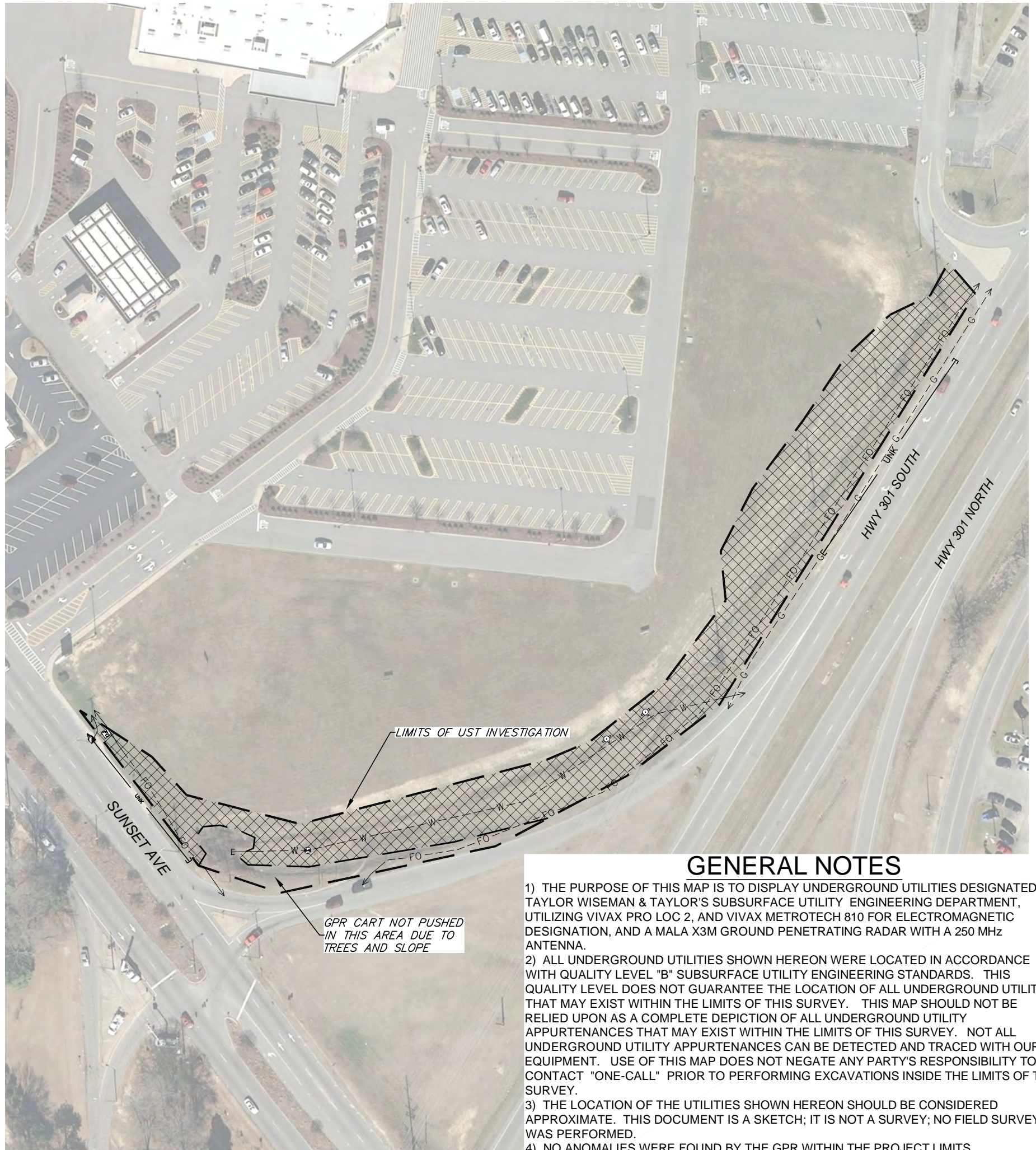
VICINITY MAP (NOT TO SCALE)

LINE LEGEND	
---T---	U/G TELEPHONE
---W---	U/G WATER LINE
---FO---	U/G FIBER OPTIC LINE)
---G---	U/G GAS
---UNK---	UNKNOWN U/G UTILITY



ABBREVIATIONS

HWY HIGHWAY
U/G UNDERGROUND



GENERAL NOTES

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NORTH CAROLINA LICENSE NUMBER: F-0362

GEOPHYSICAL ASSESMENT
for APEX COMPANIES LLC.
NCDOT PROJECT U-3330, PARCELS 22-25
2320 SUNSET AVENUE
NASH COUNTY - ROCKY MOUNT, NC

REVISIONS:	DATE OF SURVEY:	07/13/2015
	SCALE:	1" = 100'
	DRAWN BY:	J.REYNOLDS
	CHECKED BY:	C. HOWARD PLS
	PROJECT:	70668.5002.00
FIGURE #:	6	SHEET: 1 / 1

APPENDIX D
HYDROCARBON ANALYSIS RESULTS



Hydrocarbon Analysis Results

Client: NCDOT
Address:

Samples taken
Samples extracted
Samples analysed

Saturday, July 25, 2015
Saturday, July 25, 2015
Saturday, July 25, 2015

Contact: Gordon Box

Operator

Troy L. Holzschuh

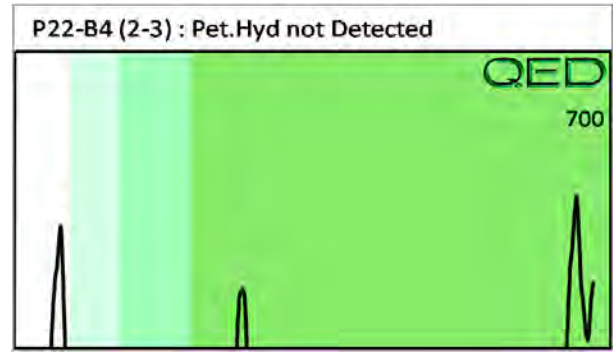
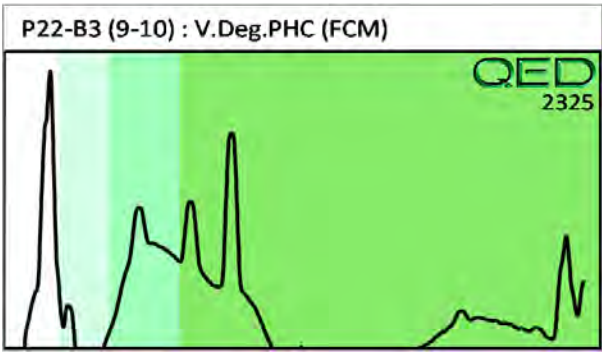
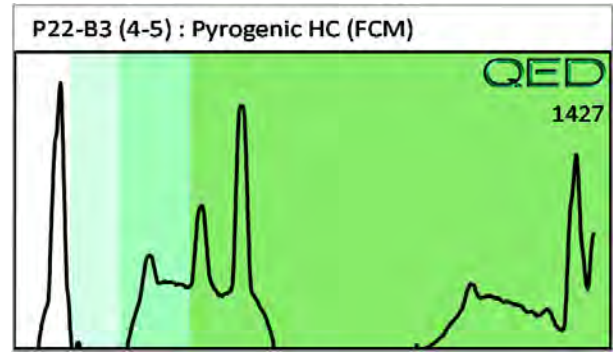
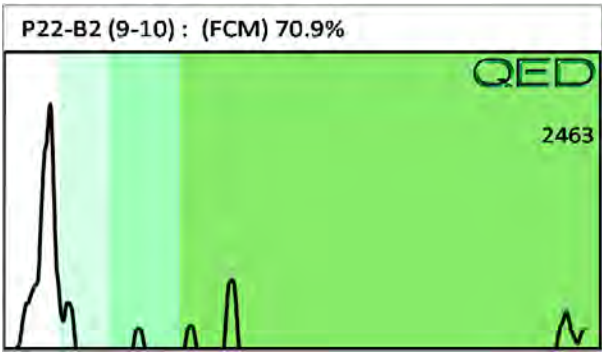
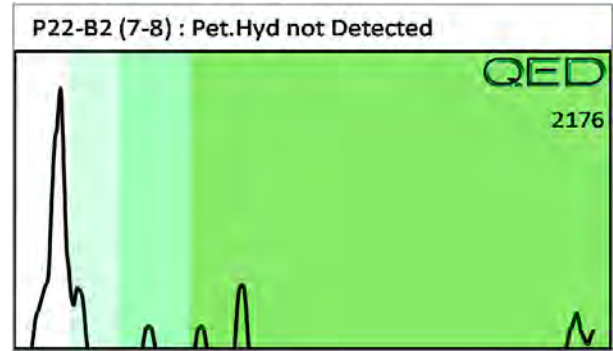
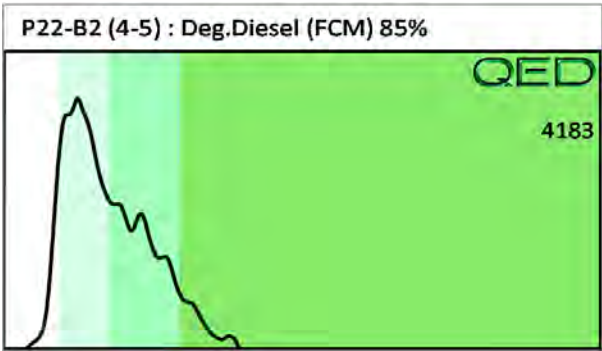
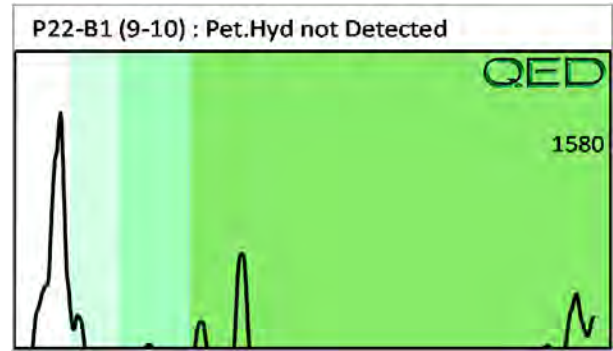
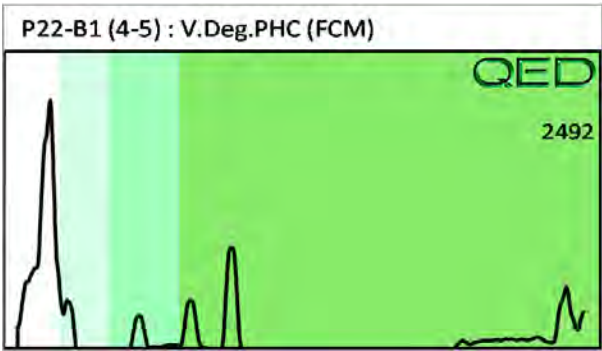
Project: U-3330

Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	Ratios			HC Fingerprint Match	
										% light	% mid	% heavy		
s	P22-B1 (4-5)	16.3	<0.81	<0.41	<0.16	<0.41	<0.08	<0.02	<0.008	0	100	0	V.Deg.PHC (FCM)	
s	P22-B1 (9-10)	19.7	<0.98	<0.49	<0.2	<0.49	<0.1	<0.02	<0.01	0	0	0	Pet.Hyd not Detected	
s	P22-B2 (4-5)	223.8	<11.2	<5.6	156.2	156.2	73.7	2.7	<0.11	0	100	0	Deg.Diesel (FCM) 85%	
s	P22-B2 (7-8)	16.8	<0.84	<0.42	<0.17	<0.42	<0.08	<0.02	<0.008	0	0	0	Pet.Hyd not Detected	
s	P22-B2 (9-10)	17.4	<0.87	<0.44	<0.17	<0.44	<0.09	<0.02	<0.009	0	0	0	(FCM) 70.9%	
s	P22-B3 (4-5)	28.9	<1.4	<0.72	0.29	0.29	<0.18	0.05	0.032	0	71.8	28.2	Pyrogenic HC (FCM)	
s	P22-B3 (9-10)	17.0	<0.85	<0.42	0.34	0.34	0.34	0.07	0.026	0	81.6	18.4	V.Deg.PHC (FCM)	
s	P22-B4 (2-3)	20.8	<1	<0.52	<0.21	<0.52	<0.1	<0.02	<0.01	0	0	0	Pet.Hyd not Detected	
			Initial Calibrator QC check			OK			Final FCM QC Check			OK		100.6%

Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content

Fingerprints provide a tentative hydrocarbon identification. The abbreviations are:- FCM = Results calculated using Fundamental Calibration Mode : % = confidence for sample fingerprint match to library

(SBS) or (LBS) = Site Specific or Library Background Subtraction applied to result : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate present





Hydrocarbon Analysis Results

Client: NCDOT
Address:

Samples taken
Samples extracted
Samples analysed

Saturday, July 25, 2015
 Saturday, July 25, 2015
 Saturday, July 25, 2015

Contact: Gordon Box

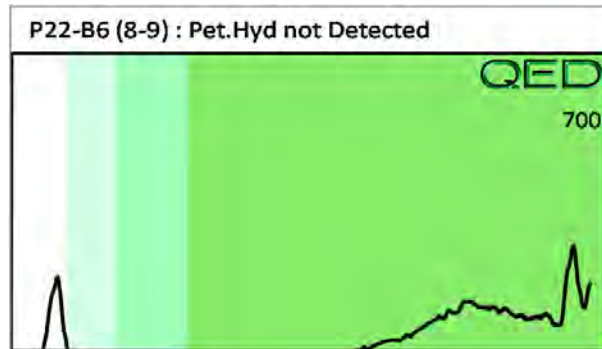
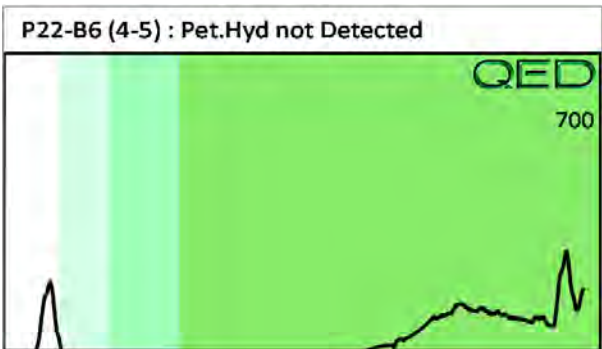
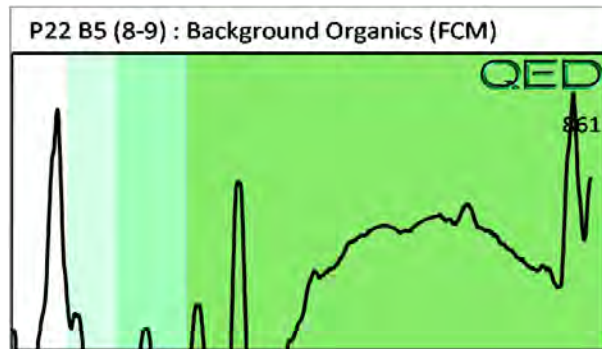
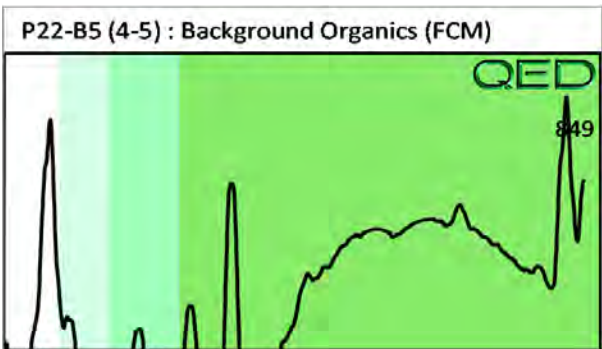
Operator

Troy L. Holzschuh

Project: U-3330

Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	Ratios			HC Fingerprint Match
										% light	% mid	% heavy	
s	P22-B5 (4-5)	20.6	<1	<0.52	<0.21	<0.52	<0.1	<0.02	<0.01	0	0	100	Background Organics (FCM)
s	P22 B5 (8-9)	22.2	<1.1	<0.56	<0.22	<0.56	<0.11	<0.02	<0.011	0	0	100	Background Organics (FCM)
s	P22-B6 (4-5)	18.4	<0.92	<0.46	<0.18	<0.46	<0.09	<0.02	<0.009	0	0	0	Pet.Hyd not Detected
s	P22-B6 (8-9)	21.5	<1.1	<0.54	<0.21	<0.54	<0.11	<0.02	<0.011	0	0	0	Pet.Hyd not Detected
Initial Calibrator QC check			OK		Final FCM QC Check					OK		96.9%	

Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content
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 (SBS) or (LBS) = Site Specific or Library Background Subtraction applied to result : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate present





Hydrocarbon Analysis Results

Client: NCDOT
Address: 2320 Sunset Ave

Samples taken Sunday, July 26, 2015
Samples extracted Sunday, July 26, 2015
Samples analysed Sunday, July 26, 2015

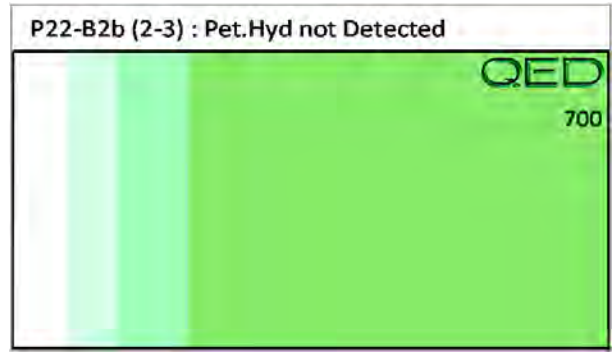
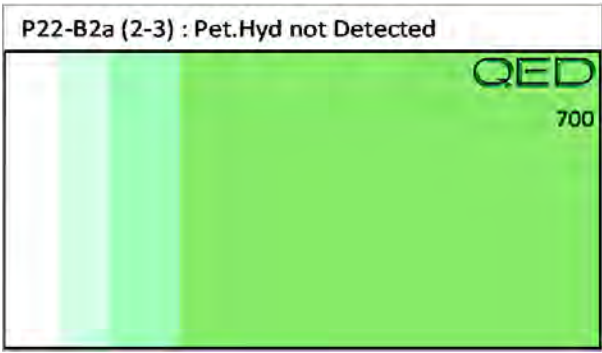
Contact: Gordon Box

Operator Troy L. Holzschuh

Project: U-3330

Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	Ratios			HC Fingerprint Match
										% light	% mid	% heavy	
s	P22-B2a (2-3)	18.1	<0.45	<0.45	<0.18	<0.45	<0.09	<0.02	<0.009	0	0	0	Pet.Hyd not Detected
s	P22-B2b (2-3)	18.7	<0.47	<0.47	<0.19	<0.47	<0.09	<0.02	<0.009	0	0	0	Pet.Hyd not Detected
Initial Calibrator QC check			OK		Final FCM QC Check			OK		94.8%			

Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content
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Hydrocarbon Analysis Results

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Samples taken Sunday, July 26, 2015
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Samples analysed Sunday, July 26, 2015

Contact: Gordon Box

Operator Troy L. Holzschuh

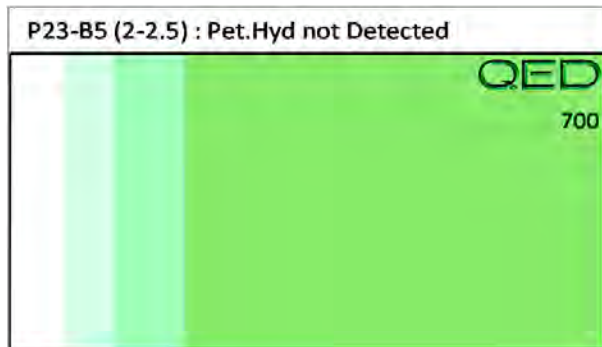
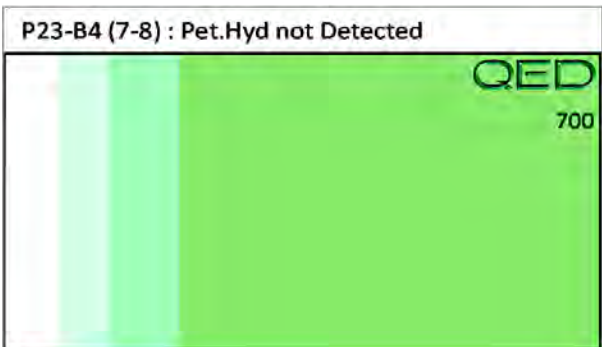
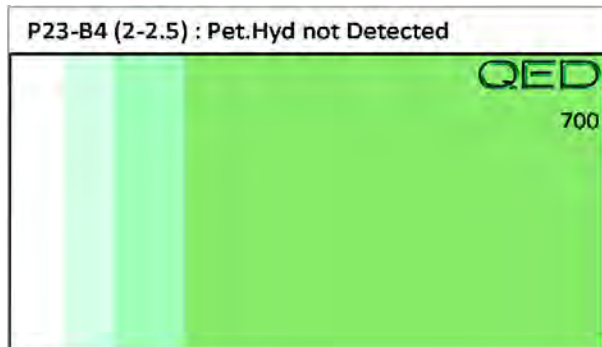
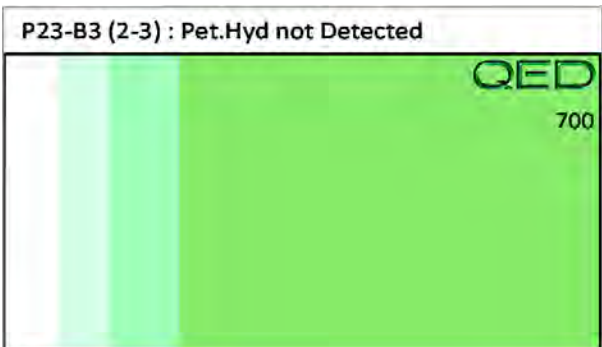
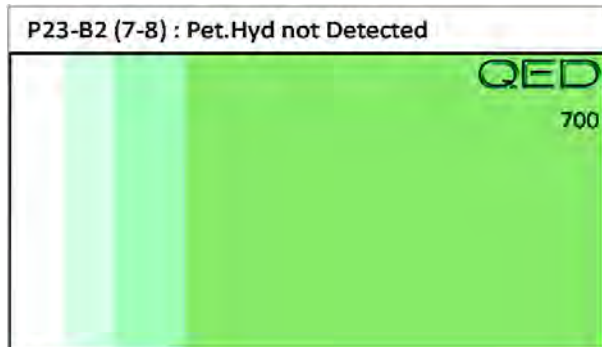
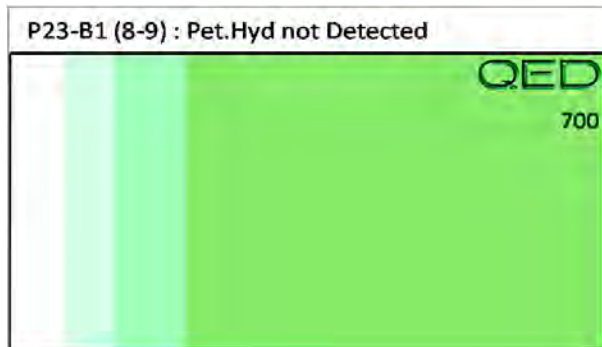
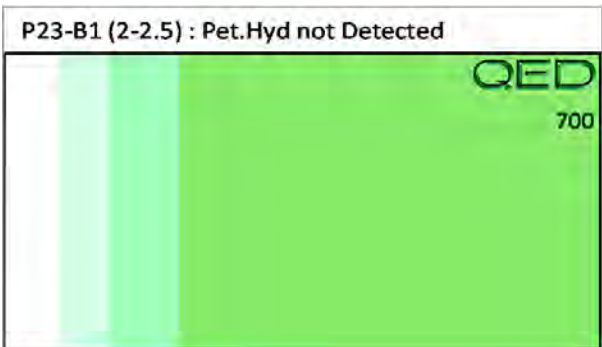
Project: U-3330

Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	Ratios			HC Fingerprint Match	
										% light	% mid	% heavy		
s	P23-B1 (2-2.5)	22.2	<0.56	<0.56	<0.22	<0.56	<0.11	<0.02	<0.011	0	0	0	Pet.Hyd not Detected	
s	P23-B1 (8-9)	25.2	<0.63	<0.63	<0.25	<0.63	<0.13	<0.03	<0.013	0	0	0	Pet.Hyd not Detected	
s	P23-B2 (2-2.5)	27.1	<0.68	<0.68	<0.27	<0.68	<0.14	<0.03	<0.014	0	0	0	Pet.Hyd not Detected	
s	P23-B2 (7-8)	26.3	<0.66	<0.66	<0.26	<0.66	<0.13	<0.03	<0.013	0	0	0	Pet.Hyd not Detected	
s	P23-B3 (2-3)	22.4	<0.56	<0.56	<0.22	<0.56	<0.11	<0.02	<0.011	0	0	0	Pet.Hyd not Detected	
s	P23-B4 (2-2.5)	29.5	<0.74	<0.74	<0.3	<0.74	<0.15	<0.03	<0.015	0	0	0	Pet.Hyd not Detected	
s	P23-B4 (7-8)	29.9	<0.75	<0.75	<0.3	<0.75	<0.15	<0.03	<0.015	0	0	0	Pet.Hyd not Detected	
s	P23-B5 (2-2.5)	27.4	<0.68	<0.68	<0.27	<0.68	<0.14	<0.03	<0.014	0	0	0	Pet.Hyd not Detected	
			Initial Calibrator QC check			OK			Final FCM QC Check			OK		98.7%

Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content

Fingerprints provide a tentative hydrocarbon identification. The abbreviations are:- FCM = Results calculated using Fundamental Calibration Mode : % = confidence for sample fingerprint match to library

(SBS) or (LBS) = Site Specific or Library Background Subtraction applied to result : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate present





Hydrocarbon Analysis Results

Client: NCDOT
Address: 2320 Sunset Ave

Samples taken Sunday, July 26, 2015
Samples extracted Sunday, July 26, 2015
Samples analysed Sunday, July 26, 2015

Contact: Gordon Box

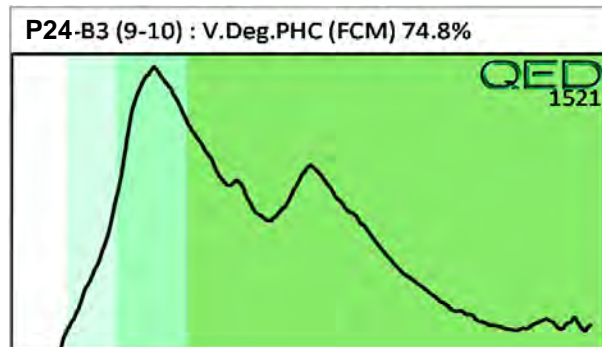
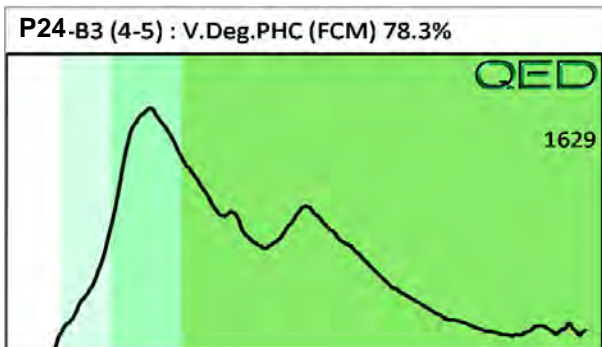
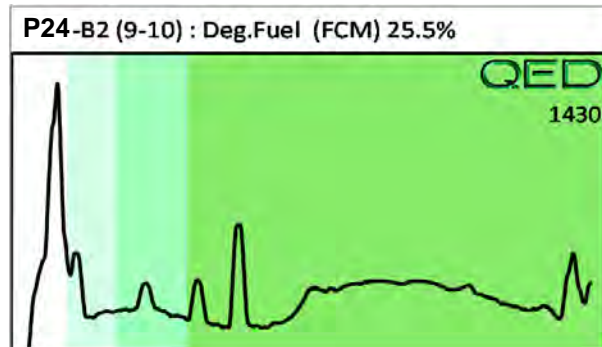
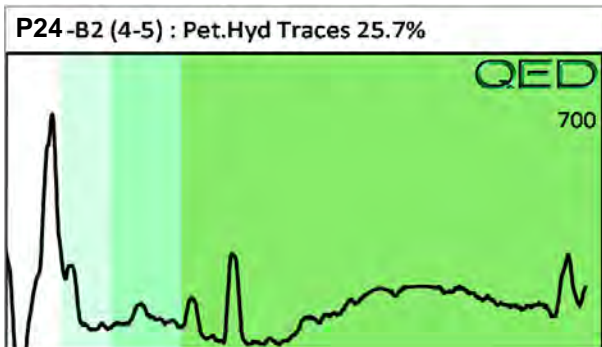
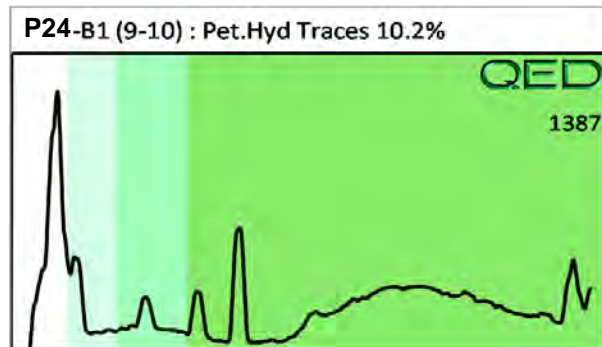
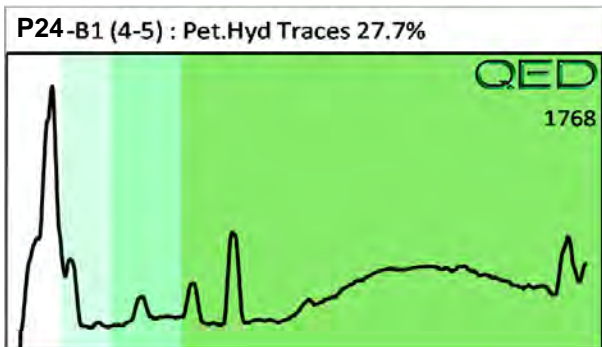
Operator Troy L. Holzschuh

Project: U-3330

Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	Ratios			HC Fingerprint Match	
										% light	% mid	% heavy		
s	P24-B1 (4-5)	29.5	<1.5	<0.74	0.92	0.92	0.37	<0.03	<0.015	0	56.4	43.6	Pet.Hyd Traces 27.7%	
s	P24-B1 (9-10)	24.8	<1.2	<0.62	0.37	0.37	<0.18	<0.02	<0.012	0	62.4	37.6	Pet.Hyd Traces 10.2%	
s	P24-B2 (4-5)	16.8	<0.84	<0.42	0.89	0.89	<0.08	<0.02	<0.008	0	69.4	30.6	Pet.Hyd Traces 25.7%	
s	P24-B2 (9-10)	18.2	<0.91	<0.45	2.3	2.3	<0.17	<0.02	<0.009	0	61.3	38.7	Deg.Fuel (FCM) 25.5%	
s	P24-B3 (4-5)	23.2	<1.2	<0.58	1.7	1.7	1.7	0.08	<0.012	0	88	12	V.Deg.PHC (FCM) 78.3%	
s	P24-B3 (9-10)	19.5	<0.98	<0.49	1.8	1.8	1.5	0.07	0.01	0	87.9	12.1	V.Deg.PHC (FCM) 74.8%	

Initial Calibrator QC check OK

Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content
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Hydrocarbon Analysis Results

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Address: 2320 Sunset Ave

Samples taken Sunday, July 26, 2015
Samples extracted Sunday, July 26, 2015
Samples analysed Sunday, July 26, 2015

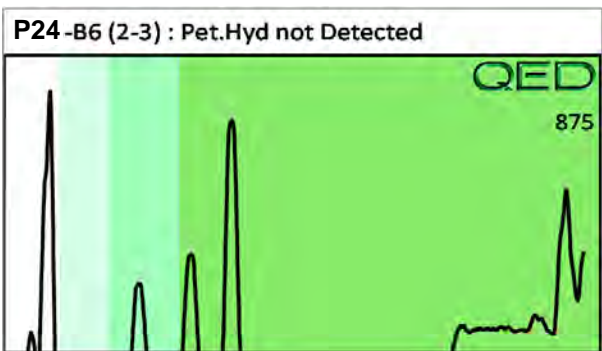
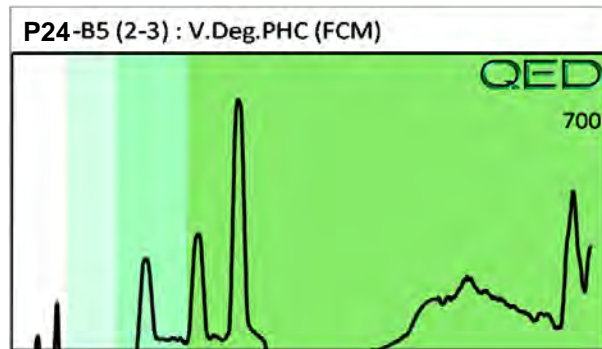
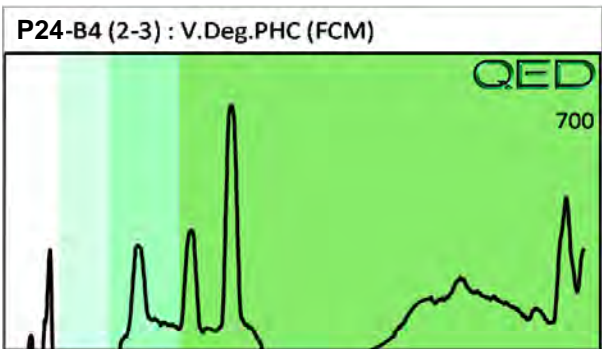
Contact: Gordon Box

Operator Troy L. Holzschuh

Project: U-3330

Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	Ratios			HC Fingerprint Match
										% light	% mid	% heavy	
s	P24-B4 (2-3)	29.5	<1.5	<0.74	<0.3	<0.74	<0.15	<0.03	<0.015	0	79	21	V.Deg.PHC (FCM)
s	P24-B5 (2-3)	31.3	<1.6	<0.78	<0.31	<0.78	<0.16	<0.03	<0.016	0	29.8	70.2	V.Deg.PHC (FCM)
s	P24-B6 (2-3)	28.6	<1.4	<0.71	<0.29	<0.71	<0.14	<0.03	<0.014	0	0	0	Pet.Hyd not Detected
Initial Calibrator QC check			OK		Final FCM QC Check			OK		104.8%			

Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content
 Fingerprints provide a tentative hydrocarbon identification. The abbreviations are:- FCM = Results calculated using Fundamental Calibration Mode : % = confidence for sample fingerprint match to library
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Hydrocarbon Analysis Results

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Samples taken Sunday, July 26, 2015
Samples extracted Sunday, July 26, 2015
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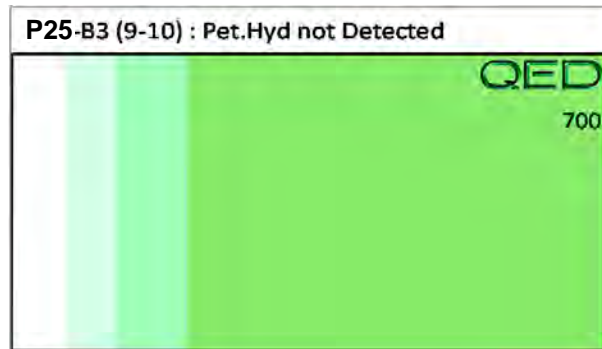
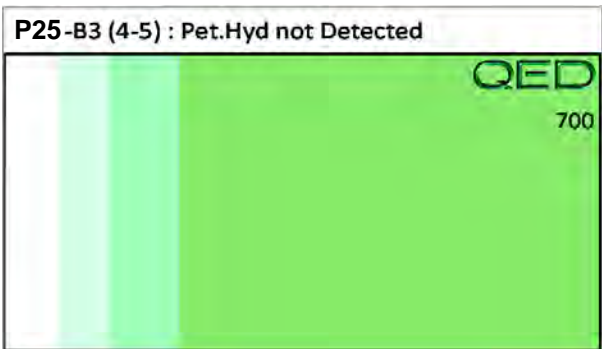
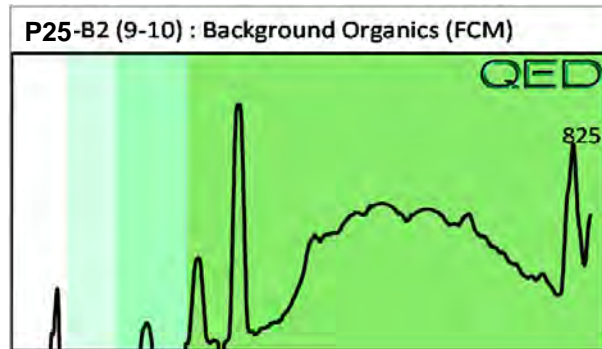
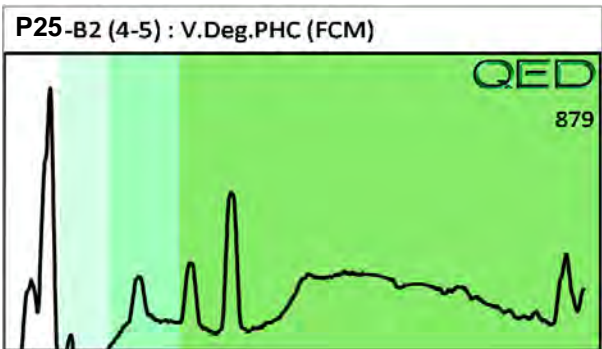
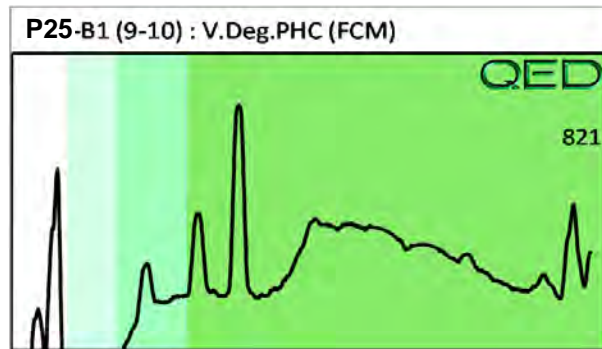
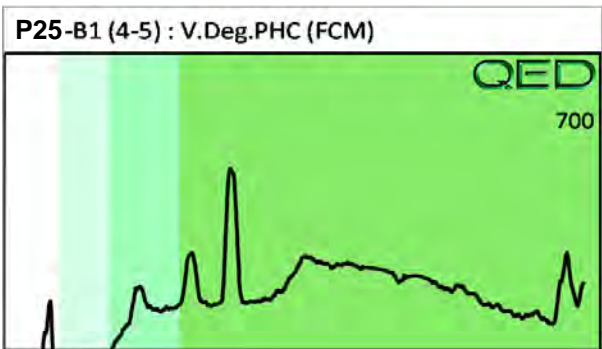
Contact: Gordon Box

Operator Troy L. Holzschuh

Project: U-3330

Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	Ratios			HC Fingerprint Match	
										% light	% mid	% heavy		
s	P25-B1 (4-5)	20.2	<1	<0.5	<0.2	<0.5	<0.1	<0.02	<0.01	0	9	91	V.Deg.PHC (FCM)	
s	P25-B1 (9-10)	22.2	<1.1	<0.56	<0.22	<0.56	<0.11	<0.02	<0.011	0	28.4	71.6	V.Deg.PHC (FCM)	
s	P25-B2 (4-5)	23.0	<1.2	<0.58	<0.23	<0.58	<0.12	<0.02	<0.012	0	60.1	39.9	V.Deg.PHC (FCM)	
s	P25-B2 (9-10)	27.7	<1.4	<0.69	<0.28	<0.69	<0.14	<0.03	<0.014	0	0	100	Background Organics (FCM)	
s	P25-B3 (4-5)	24.5	<0.61	<0.61	<0.25	<0.61	<0.12	<0.02	<0.012	0	0	0	Pet.Hyd not Detected	
s	P25-B3 (9-10)	28.0	<0.7	<0.7	<0.28	<0.7	<0.14	<0.03	<0.014	0	0	0	Pet.Hyd not Detected	
Initial Calibrator QC check			OK		Final FCM QC Check					OK		86.8%		

Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content
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Hydrocarbon Analysis Results

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Address: 2320 Sunset Ave

Samples taken Sunday, July 26, 2015
Samples extracted Sunday, July 26, 2015
Samples analysed Sunday, July 26, 2015

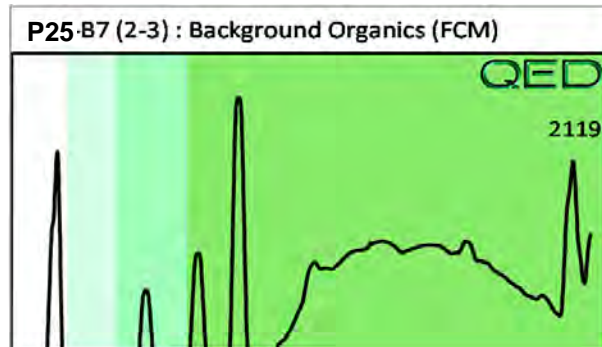
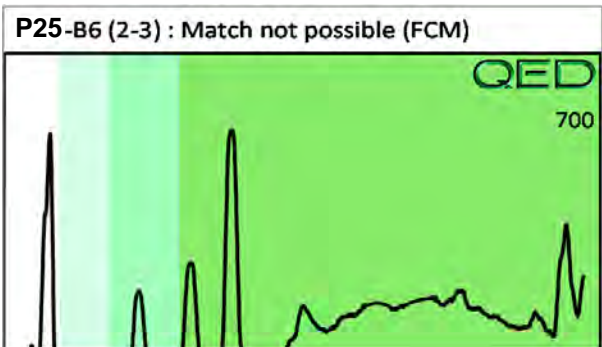
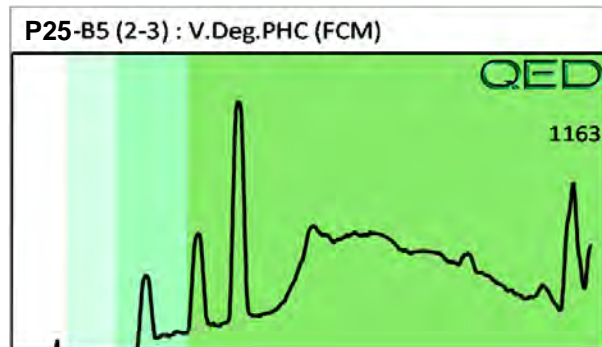
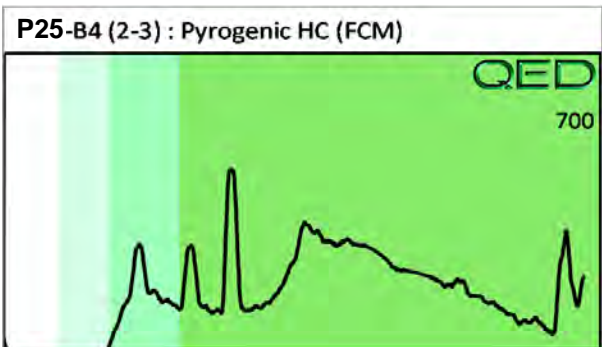
Contact: Gordon Box

Operator Troy L. Holzschuh

Project: U-3330

Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	Ratios			HC Fingerprint Match
										% light	% mid	% heavy	
s	P25-B4 (2-3)	26.0	<1.3	<0.65	0.26	0.26	<0.19	<0.03	<0.013	0	57.1	42.9	Pyrogenic HC (FCM)
s	P25-B5 (2-3)	18.1	<0.9	<0.45	<0.18	<0.45	<0.09	<0.02	<0.009	0	4.9	95.1	V.Deg.PHC (FCM)
s	P25-B6 (2-3)	24.5	<1.2	<0.61	<0.25	<0.61	<0.12	<0.02	<0.012	0	0	100	Match not possible (FCM)
s	P25-B7 (2-3)	31.0	<1.5	<0.77	0.31	0.31	<0.22	<0.03	<0.015	0	0	100	Background Organics (FCM)
Initial Calibrator QC check			OK			Final FCM QC Check			OK			101.5%	

Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content
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August 10, 2015

Andrew Street
Apex Companies

RE: Project: U-3330 Parcel 23
Pace Project No.: 92261315

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on July 31, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Taylor Ezell
taylor.ezell@pacelabs.com
Project Manager

Enclosures

cc: Timothy Besier, Apex Companies
Troy Holzschuh, Apex



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: U-3330 Parcel 23

Pace Project No.: 92261315

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: U-3330 Parcel 23

Pace Project No.: 92261315

Sample: P23-B4		Lab ID: 92261315001	Collected: 07/28/15 11:35	Received: 07/31/15 09:31	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Water		Analytical Method: MADEP EPH Preparation Method: MADEP EPH						
Aliphatic (C09-C18)	ND	ug/L	106	1	08/06/15 09:50	08/07/15 08:32		N2
Aliphatic (C19-C36)	ND	ug/L	106	1	08/06/15 09:50	08/07/15 08:32		N2
Aromatic (C11-C22)	ND	ug/L	106	1	08/06/15 09:50	08/07/15 19:00		N2
Surrogates								
Nonatriacontane (S)	77	%	40-140	1	08/06/15 09:50	08/07/15 08:32	7194-86-7	
o-Terphenyl (S)	91	%	40-140	1	08/06/15 09:50	08/07/15 19:00	84-15-1	
2-Fluorobiphenyl (S)	110	%	40-140	1	08/06/15 09:50	08/07/15 19:00	321-60-8	
2-Bromonaphthalene (S)	113	%	40-140	1	08/06/15 09:50	08/07/15 19:00	580-13-2	
VPH NC Water		Analytical Method: MADEP VPH						
Aliphatic (C05-C08)	ND	ug/L	50.0	1		08/04/15 17:55		N2
Aliphatic (C09-C12)	ND	ug/L	50.0	1		08/04/15 17:55		N2
Aromatic (C09-C10)	ND	ug/L	50.0	1		08/04/15 17:55		N2
Surrogates								
4-Bromofluorobenzene (FID) (S)	101	%	70-130	1		08/04/15 17:55	460-00-4	
4-Bromofluorobenzene (PID) (S)	101	%	70-130	1		08/04/15 17:55	460-00-4	
8270 MSSV HVI Semivol Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	208-96-8	
Aniline	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	62-53-3	L2
Anthracene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	08/04/15 16:10	08/05/15 19:16	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	08/04/15 16:10	08/05/15 19:16	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	08/04/15 16:10	08/05/15 19:16	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	08/04/15 16:10	08/05/15 19:16	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	7005-72-3	
Chrysene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	08/04/15 16:10	08/05/15 19:16	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	120-83-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: U-3330 Parcel 23

Pace Project No.: 92261315

Sample: P23-B4	Lab ID: 92261315001	Collected: 07/28/15 11:35	Received: 07/31/15 09:31	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV HVI Semivol Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Diethylphthalate	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	08/04/15 16:10	08/05/15 19:16	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	08/04/15 16:10	08/05/15 19:16	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	08/04/15 16:10	08/05/15 19:16	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	206-44-0	
Fluorene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	193-39-5	
Isophorone	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16		
Naphthalene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	08/04/15 16:10	08/05/15 19:16	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	08/04/15 16:10	08/05/15 19:16	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	08/04/15 16:10	08/05/15 19:16	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	08/04/15 16:10	08/05/15 19:16	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	1	08/04/15 16:10	08/05/15 19:16	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	85-01-8	
Phenol	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	108-95-2	
Pyrene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	08/04/15 16:10	08/05/15 19:16	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	77	%	21-110	1	08/04/15 16:10	08/05/15 19:16	4165-60-0	
2-Fluorobiphenyl (S)	90	%	27-110	1	08/04/15 16:10	08/05/15 19:16	321-60-8	
Terphenyl-d14 (S)	76	%	31-107	1	08/04/15 16:10	08/05/15 19:16	1718-51-0	
Phenol-d6 (S)	24	%	10-110	1	08/04/15 16:10	08/05/15 19:16	13127-88-3	
2-Fluorophenol (S)	34	%	12-110	1	08/04/15 16:10	08/05/15 19:16	367-12-4	
2,4,6-Tribromophenol (S)	80	%	27-110	1	08/04/15 16:10	08/05/15 19:16	118-79-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: U-3330 Parcel 23

Pace Project No.: 92261315

Sample: P23-B4		Lab ID: 92261315001	Collected: 07/28/15 11:35	Received: 07/31/15 09:31	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		08/04/15 20:09	67-64-1	
Benzene	ND	ug/L	1.0	1		08/04/15 20:09	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		08/04/15 20:09	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		08/04/15 20:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/04/15 20:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		08/04/15 20:09	75-25-2	
Bromomethane	ND	ug/L	2.0	1		08/04/15 20:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		08/04/15 20:09	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		08/04/15 20:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/04/15 20:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/04/15 20:09	75-00-3	
Chloroform	ND	ug/L	1.0	1		08/04/15 20:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		08/04/15 20:09	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		08/04/15 20:09	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		08/04/15 20:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		08/04/15 20:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		08/04/15 20:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/04/15 20:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		08/04/15 20:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/04/15 20:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/04/15 20:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/04/15 20:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/04/15 20:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/04/15 20:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/04/15 20:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/04/15 20:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/04/15 20:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/04/15 20:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/04/15 20:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		08/04/15 20:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		08/04/15 20:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		08/04/15 20:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/04/15 20:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/04/15 20:09	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		08/04/15 20:09	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		08/04/15 20:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		08/04/15 20:09	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		08/04/15 20:09	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		08/04/15 20:09	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		08/04/15 20:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		08/04/15 20:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/04/15 20:09	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		08/04/15 20:09	91-20-3	
Styrene	ND	ug/L	1.0	1		08/04/15 20:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/04/15 20:09	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/04/15 20:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		08/04/15 20:09	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: U-3330 Parcel 23

Pace Project No.: 92261315

Sample: P23-B4		Lab ID: 92261315001		Collected: 07/28/15 11:35		Received: 07/31/15 09:31		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV Low Level		Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		08/04/15 20:09	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/04/15 20:09	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/04/15 20:09	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/04/15 20:09	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/04/15 20:09	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		08/04/15 20:09	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		08/04/15 20:09	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		08/04/15 20:09	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		08/04/15 20:09	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		08/04/15 20:09	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		08/04/15 20:09	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		08/04/15 20:09	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		08/04/15 20:09	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130	1		08/04/15 20:09	460-00-4		
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		08/04/15 20:09	17060-07-0		
Toluene-d8 (S)	100	%	70-130	1		08/04/15 20:09	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: U-3330 Parcel 23

Pace Project No.: 92261315

QC Batch:	GCV/9701	Analysis Method:	MADEP VPH
QC Batch Method:	MADEP VPH	Analysis Description:	VPH NC Water
Associated Lab Samples:	92261315001		

METHOD BLANK: 1525407 Matrix: Water

Associated Lab Samples: 92261315001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	08/04/15 17:29	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	08/04/15 17:29	N2
Aromatic (C09-C10)	ug/L	ND	50.0	08/04/15 17:29	N2
4-Bromofluorobenzene (FID) (S)	%	103	70-130	08/04/15 17:29	
4-Bromofluorobenzene (PID) (S)	%	99	70-130	08/04/15 17:29	

LABORATORY CONTROL SAMPLE & LCSD: 1525408

1525409

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	300	313	306	104	102	70-130	2	25	N2
Aliphatic (C09-C12)	ug/L	300	276	290	92	97	30-130	5	25	N2
Aromatic (C09-C10)	ug/L	100	94.4	96.9	94	97	70-130	3	25	N2
4-Bromofluorobenzene (FID) (S)	%				106	108	70-130			
4-Bromofluorobenzene (PID) (S)	%				110	111	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: U-3330 Parcel 23

Pace Project No.: 92261315

QC Batch: MSV/32827

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Low Level

Associated Lab Samples: 92261315001

METHOD BLANK: 1525076

Matrix: Water

Associated Lab Samples: 92261315001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/04/15 16:11	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/04/15 16:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/04/15 16:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/04/15 16:11	
1,1-Dichloroethane	ug/L	ND	1.0	08/04/15 16:11	
1,1-Dichloroethene	ug/L	ND	1.0	08/04/15 16:11	
1,1-Dichloropropene	ug/L	ND	1.0	08/04/15 16:11	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	08/04/15 16:11	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/04/15 16:11	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	08/04/15 16:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	08/04/15 16:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/04/15 16:11	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/04/15 16:11	
1,2-Dichloroethane	ug/L	ND	1.0	08/04/15 16:11	
1,2-Dichloropropane	ug/L	ND	1.0	08/04/15 16:11	
1,3-Dichlorobenzene	ug/L	ND	1.0	08/04/15 16:11	
1,3-Dichloropropane	ug/L	ND	1.0	08/04/15 16:11	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/04/15 16:11	
2,2-Dichloropropane	ug/L	ND	1.0	08/04/15 16:11	
2-Butanone (MEK)	ug/L	ND	5.0	08/04/15 16:11	
2-Chlorotoluene	ug/L	ND	1.0	08/04/15 16:11	
2-Hexanone	ug/L	ND	5.0	08/04/15 16:11	
4-Chlorotoluene	ug/L	ND	1.0	08/04/15 16:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	08/04/15 16:11	
Acetone	ug/L	ND	25.0	08/04/15 16:11	
Benzene	ug/L	ND	1.0	08/04/15 16:11	
Bromobenzene	ug/L	ND	1.0	08/04/15 16:11	
Bromochloromethane	ug/L	ND	1.0	08/04/15 16:11	
Bromodichloromethane	ug/L	ND	1.0	08/04/15 16:11	
Bromoform	ug/L	ND	1.0	08/04/15 16:11	
Bromomethane	ug/L	ND	2.0	08/04/15 16:11	
Carbon tetrachloride	ug/L	ND	1.0	08/04/15 16:11	
Chlorobenzene	ug/L	ND	1.0	08/04/15 16:11	
Chloroethane	ug/L	ND	1.0	08/04/15 16:11	
Chloroform	ug/L	ND	1.0	08/04/15 16:11	
Chloromethane	ug/L	ND	1.0	08/04/15 16:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/04/15 16:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/04/15 16:11	
Dibromochloromethane	ug/L	ND	1.0	08/04/15 16:11	
Dibromomethane	ug/L	ND	1.0	08/04/15 16:11	
Dichlorodifluoromethane	ug/L	ND	1.0	08/04/15 16:11	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: U-3330 Parcel 23
Pace Project No.: 92261315

METHOD BLANK: 1525076
Associated Lab Samples: 92261315001

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	08/04/15 16:11	
Ethylbenzene	ug/L	ND	1.0	08/04/15 16:11	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	08/04/15 16:11	
m&p-Xylene	ug/L	ND	2.0	08/04/15 16:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/04/15 16:11	
Methylene Chloride	ug/L	3.3	2.0	08/04/15 16:11	
Naphthalene	ug/L	ND	1.0	08/04/15 16:11	
o-Xylene	ug/L	ND	1.0	08/04/15 16:11	
p-Isopropyltoluene	ug/L	ND	1.0	08/04/15 16:11	
Styrene	ug/L	ND	1.0	08/04/15 16:11	
Tetrachloroethene	ug/L	ND	1.0	08/04/15 16:11	
Toluene	ug/L	ND	1.0	08/04/15 16:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	08/04/15 16:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/04/15 16:11	
Trichloroethene	ug/L	ND	1.0	08/04/15 16:11	
Trichlorofluoromethane	ug/L	ND	1.0	08/04/15 16:11	
Vinyl acetate	ug/L	ND	2.0	08/04/15 16:11	
Vinyl chloride	ug/L	ND	1.0	08/04/15 16:11	
Xylene (Total)	ug/L	ND	2.0	08/04/15 16:11	
1,2-Dichloroethane-d4 (S)	%	93	70-130	08/04/15 16:11	
4-Bromofluorobenzene (S)	%	103	70-130	08/04/15 16:11	
Toluene-d8 (S)	%	99	70-130	08/04/15 16:11	

LABORATORY CONTROL SAMPLE: 1525077

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.3	95	70-130	
1,1,1-Trichloroethane	ug/L	50	49.6	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	70-130	
1,1,2-Trichloroethane	ug/L	50	48.2	96	70-130	
1,1-Dichloroethane	ug/L	50	48.6	97	70-130	
1,1-Dichloroethene	ug/L	50	53.1	106	70-132	
1,1-Dichloropropene	ug/L	50	55.4	111	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.0	100	70-135	
1,2,3-Trichloropropane	ug/L	50	45.6	91	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.8	100	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	50.4	101	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	70-130	
1,2-Dichlorobenzene	ug/L	50	51.3	103	70-130	
1,2-Dichloroethane	ug/L	50	42.3	85	70-130	
1,2-Dichloropropane	ug/L	50	49.0	98	70-130	
1,3-Dichlorobenzene	ug/L	50	51.4	103	70-130	
1,3-Dichloropropane	ug/L	50	48.3	97	70-130	
1,4-Dichlorobenzene	ug/L	50	49.3	99	70-130	

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QUALITY CONTROL DATA

Project: U-3330 Parcel 23
Pace Project No.: 92261315

LABORATORY CONTROL SAMPLE: 1525077

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	48.4	97	58-145	
2-Butanone (MEK)	ug/L	100	98.4	98	70-145	
2-Chlorotoluene	ug/L	50	46.3	93	70-130	
2-Hexanone	ug/L	100	96.0	96	70-144	
4-Chlorotoluene	ug/L	50	49.1	98	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.3	96	70-140	
Acetone	ug/L	100	98.8	99	50-175	
Benzene	ug/L	50	52.0	104	70-130	
Bromobenzene	ug/L	50	48.4	97	70-130	
Bromochloromethane	ug/L	50	54.4	109	70-130	
Bromodichloromethane	ug/L	50	48.0	96	70-130	
Bromoform	ug/L	50	40.4	81	70-130	
Bromomethane	ug/L	50	47.1	94	54-130	
Carbon tetrachloride	ug/L	50	50.2	100	70-132	
Chlorobenzene	ug/L	50	48.1	96	70-130	
Chloroethane	ug/L	50	46.4	93	64-134	
Chloroform	ug/L	50	48.1	96	70-130	
Chloromethane	ug/L	50	46.5	93	64-130	
cis-1,2-Dichloroethene	ug/L	50	50.1	100	70-131	
cis-1,3-Dichloropropene	ug/L	50	49.6	99	70-130	
Dibromochloromethane	ug/L	50	50.2	100	70-130	
Dibromomethane	ug/L	50	49.3	99	70-131	
Dichlorodifluoromethane	ug/L	50	42.6	85	56-130	
Diisopropyl ether	ug/L	50	49.2	98	70-130	
Ethylbenzene	ug/L	50	47.2	94	70-130	
Hexachloro-1,3-butadiene	ug/L	50	47.5	95	70-130	
m&p-Xylene	ug/L	100	92.7	93	70-130	
Methyl-tert-butyl ether	ug/L	50	51.3	103	70-130	
Methylene Chloride	ug/L	50	48.9	98	63-130	
Naphthalene	ug/L	50	53.8	108	70-138	
o-Xylene	ug/L	50	48.0	96	70-130	
p-Isopropyltoluene	ug/L	50	50.6	101	70-130	
Styrene	ug/L	50	50.4	101	70-130	
Tetrachloroethene	ug/L	50	49.1	98	70-130	
Toluene	ug/L	50	50.0	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.7	97	70-132	
Trichloroethene	ug/L	50	46.8	94	70-130	
Trichlorofluoromethane	ug/L	50	40.8	82	62-133	
Vinyl acetate	ug/L	100	101	101	66-157	
Vinyl chloride	ug/L	50	48.5	97	50-150	
Xylene (Total)	ug/L	150	141	94	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: U-3330 Parcel 23

Pace Project No.: 92261315

MATRIX SPIKE SAMPLE: 1525173		92261424001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.5	97	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	23.7	118	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	19.4	97	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	ND	20	21.5	107	70-130	
1,1-Dichloroethene	ug/L	ND	20	25.9	129	70-166	
1,1-Dichloropropene	ug/L	ND	20	25.0	125	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.7	113	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	18.9	95	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	21.6	108	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20.6	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20.4	102	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	21.2	106	70-130	
1,2-Dichloroethane	ug/L	ND	20	19.4	96	70-130	
1,2-Dichloropropane	ug/L	ND	20	20.3	102	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	21.5	107	70-130	
1,3-Dichloropropane	ug/L	ND	20	19.8	99	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	20.0	100	70-130	
2,2-Dichloropropane	ug/L	ND	20	19.6	98	70-130	
2-Butanone (MEK)	ug/L	ND	40	41.4	103	70-130	
2-Chlorotoluene	ug/L	ND	20	18.8	94	70-130	
2-Hexanone	ug/L	ND	40	39.2	98	70-130	
4-Chlorotoluene	ug/L	ND	20	20.8	104	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	38.2	95	70-130	
Acetone	ug/L	ND	40	47.0	105	70-130	
Benzene	ug/L	ND	20	22.1	110	70-148	
Bromobenzene	ug/L	ND	20	20.8	104	70-130	
Bromochloromethane	ug/L	ND	20	22.7	113	70-130	
Bromodichloromethane	ug/L	ND	20	20.1	101	70-130	
Bromoform	ug/L	ND	20	16.9	84	70-130	
Bromomethane	ug/L	ND	20	21.7	108	70-130	
Carbon tetrachloride	ug/L	ND	20	24.0	120	70-130	
Chlorobenzene	ug/L	ND	20	20.3	102	70-146	
Chloroethane	ug/L	ND	20	21.2	106	70-130	
Chloroform	ug/L	ND	20	21.6	108	70-130	
Chloromethane	ug/L	ND	20	21.2	105	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	22.1	110	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.6	98	70-130	
Dibromochloromethane	ug/L	ND	20	19.4	97	70-130	
Dibromomethane	ug/L	ND	20	20.3	101	70-130	
Dichlorodifluoromethane	ug/L	ND	20	22.5	112	70-130	
Diisopropyl ether	ug/L	ND	20	20.9	104	70-130	
Ethylbenzene	ug/L	ND	20	21.5	103	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	27.6	135	70-130 M1	
m&p-Xylene	ug/L	ND	40	43.2	103	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.8	104	70-130	
Methylene Chloride	ug/L	ND	20	20.7	103	70-130	

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QUALITY CONTROL DATA

Project: U-3330 Parcel 23

Pace Project No.: 92261315

MATRIX SPIKE SAMPLE: 1525173		92261424001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Naphthalene	ug/L	1.8	20	24.2	112	70-130	
o-Xylene	ug/L	2.5	20	23.4	105	70-130	
p-Isopropyltoluene	ug/L	2.2	20	24.7	112	70-130	
Styrene	ug/L	ND	20	20.5	102	70-130	
Tetrachloroethene	ug/L	ND	20	21.8	109	70-130	
Toluene	ug/L	ND	20	20.4	102	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	23.1	116	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	19.6	98	70-130	
Trichloroethene	ug/L	ND	20	20.8	104	69-151	
Trichlorofluoromethane	ug/L	ND	20	22.0	110	70-130	
Vinyl acetate	ug/L	ND	40	35.1	88	70-130	
Vinyl chloride	ug/L	ND	20	22.9	114	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				106	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1525174

Parameter	Units	92261424002	Dup	RPD	Qualifiers
		Result	Result		
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: U-3330 Parcel 23

Pace Project No.: 92261315

SAMPLE DUPLICATE: 1525174

Parameter	Units	92261424002 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	102	102	1	
4-Bromofluorobenzene (S)	%	104	107	2	
Toluene-d8 (S)	%	99	99	0	

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QUALITY CONTROL DATA

Project: U-3330 Parcel 23

Pace Project No.: 92261315

QC Batch:	OEXT/36857	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water MSSV HVI
Associated Lab Samples:	92261315001		

METHOD BLANK: 1525592 Matrix: Water
Associated Lab Samples: 92261315001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,6-Tribromophenol (S)	%	65	27-110	08/05/15 13:48	
2-Fluorobiphenyl (S)	%	80	27-110	08/05/15 13:48	
2-Fluorophenol (S)	%	39	12-110	08/05/15 13:48	
Nitrobenzene-d5 (S)	%	63	21-110	08/05/15 13:48	
Phenol-d6 (S)	%	34	10-110	08/05/15 13:48	
Terphenyl-d14 (S)	%	86	31-107	08/05/15 13:48	

LABORATORY CONTROL SAMPLE: 1525593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Tribromophenol (S)	%			100	27-110	
2-Fluorobiphenyl (S)	%			85	27-110	
2-Fluorophenol (S)	%			45	12-110	
Nitrobenzene-d5 (S)	%			74	21-110	
Phenol-d6 (S)	%			33	10-110	
Terphenyl-d14 (S)	%			115	31-107	S0

MATRIX SPIKE SAMPLE: 1525594

Parameter	Units	92261211001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2,4,6-Tribromophenol (S)	%				6	27-110	S0
2-Fluorobiphenyl (S)	%				75	27-110	
2-Fluorophenol (S)	%				2	12-110	S0
Nitrobenzene-d5 (S)	%				66	21-110	
Phenol-d6 (S)	%				12	10-110	
Terphenyl-d14 (S)	%				86	31-107	

SAMPLE DUPLICATE: 1525595

Parameter	Units	92261211002 Result	Dup Result	RPD	Qualifiers
2,4,6-Tribromophenol (S)	%	40	50	23	
2-Fluorobiphenyl (S)	%	70	70	0	
2-Fluorophenol (S)	%	27	30	11	
Nitrobenzene-d5 (S)	%	62	62	0	
Phenol-d6 (S)	%	28	25	11	
Terphenyl-d14 (S)	%	69	65	7	

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QUALITY CONTROL DATA

Project: U-3330 Parcel 23

Pace Project No.: 92261315

QC Batch:	OEXT/36901	Analysis Method:	MADEP EPH
QC Batch Method:	MADEP EPH	Analysis Description:	MADEP EPH NC Water
Associated Lab Samples:	92261315001		

METHOD BLANK: 1527249 Matrix: Water

Associated Lab Samples: 92261315001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C09-C18)	ug/L	ND	100	08/07/15 06:55	N2
Aliphatic (C19-C36)	ug/L	ND	100	08/07/15 06:55	N2
Aromatic (C11-C22)	ug/L	ND	100	08/07/15 17:23	N2
2-Bromonaphthalene (S)	%	107	40-140	08/07/15 17:23	
2-Fluorobiphenyl (S)	%	105	40-140	08/07/15 17:23	
Nonatriacontane (S)	%	79	40-140	08/07/15 06:55	
o-Terphenyl (S)	%	105	40-140	08/07/15 17:23	

LABORATORY CONTROL SAMPLE & LCSD: 1527250

1527251

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C09-C18)	ug/L	300	179	210	60	70	40-140	16	50	N2
Aliphatic (C19-C36)	ug/L	400	287	350	72	87	40-140	20	50	N2
Aromatic (C11-C22)	ug/L	850	834	914	98	108	40-140	9	50	N2
2-Bromonaphthalene (S)	%				83	98	40-140			
2-Fluorobiphenyl (S)	%				96	109	40-140			
Nonatriacontane (S)	%				70	82	40-140			
o-Terphenyl (S)	%				100	112	40-140			

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QUALIFIERS

Project: U-3330 Parcel 23
Pace Project No.: 92261315

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- N2 The lab does not hold TNI accreditation for this parameter.
- S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: U-3330 Parcel 23

Pace Project No.: 92261315

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92261315001	P23-B4	MADEP EPH	OEXT/36901	MADEP EPH	GCSV/22192
92261315001	P23-B4	MADEP VPH	GCV/9701		
92261315001	P23-B4	EPA 3510	OEXT/36857	EPA 8270	MSSV/11033
92261315001	P23-B4	EPA 8260	MSV/32827		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Apex Companies	Report To:	Troy L. Holzschuh	Attention:	Carlie Watson
Address:	10610 Metromont Parkway site 206, Charlotte, NC 28269	Copy To:		Company Name:	Apex
Email To:	Tholzschuh@apexcos.com	Purchase Order No.:	WBS: 36596.1.1	Address:	Same
Phone:	980474-4217 Fax: 704-799-6395	Project Name:	U-3330 Parcel 23	Pace Quote Reference:	
Requested Due Date/TAT:	standard	Project Number:	510424-001	Pace Project Manager:	Taylor Ezell

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location: NC

STATE: NC

Page: 1 of 1

ITEM #	Section D Required Client Information		COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	Preservatives	Analysis Test ↑	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)
	Valid Matrix Codes	CODE	COMPOSITE START	COMPOSITE END/GRAB						DATE	TIME	
1	P23-B4	WT	07/28/15	1135	G	WT	9	Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other				
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>Troy L. Holzschuh</i>	7-31-15	1007	<i>Troy L. Holzschuh</i>	7/31/15	1007	Ice (Y/N) <input checked="" type="checkbox"/> Custody Sealed Cooler (Y/N) <input checked="" type="checkbox"/> Received on Temp in °C 4.8

WO# : 92261315

92261315

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Troy L. Holzschuh
 SIGNATURE of SAMPLER: *Troy L. Holzschuh*
 DATE Signed (MM/DD/YY): 7/31/15

APPENDIX E
Correspondence with NCDENR

Troy Holzschuh

To: Hafshejani, Brenda
Subject: RE: Incidents 5088, 5890 and 11742

From: Hafshejani, Brenda [mailto:brenda.hafshejani@nc.gov]
Sent: Tuesday, August 11, 2015 2:49 PM
To: Troy Holzschuh <THolzschuh@apexcos.com>
Subject: RE: Incidents 5088, 5890 and 11742

Hi Troy,

I checked and there does not seem to be a file for the first two, 5088 and 5890. They appear old and were probably given incident numbers because of a complaint at the time. The 11742 is archived on CD 83 under RA-1915. The CD is available also at the Mooresville Office. If you have purchased the CD previously you can check it. I have downloaded the RP and DENR files from the archived CD and will attach both. DENR files attached here.

Brenda

Brenda Hafshejani
UST Division of Waste Management
Raleigh Regional Office
Voice: (919)791-4200
Fax: (919) 571-4718

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: McIntosh, Craig
Sent: Monday, August 10, 2015 1:02 PM
To: Troy Holzschuh
Cc: Hafshejani, Brenda
Subject: RE: Incidents 5088, 5890 and 11742

Troy, good afternoon.

I handle Durham and Warren counties in the RRO. The incident manager that handles Nash County is Brenda Hafshejani. She will be out of the office until mid week.

Craig McIntosh
Hydrogeologist
Division of Waste Management
Underground Storage Tank Section

Phone:(919) 791-4225
Fax: (919) 571-4718

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.

Troy Holzschuh

To: Hafshejani, Brenda
Subject: RE: RP files for 11742



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Privacy Notice: This message and any attachment(s) hereto are intended solely for the individual(s) listed in the masthead. This message may contain information that is privileged or otherwise protected from disclosure. Any review, dissemination or use of this message or its contents by persons other than the addressee(s) is strictly prohibited and may be unlawful. If you have received this message in error, please notify the sender by return e-mail and delete the message from your system. Thank you.

From: Hafshejani, Brenda [mailto:brenda.hafshejani@nc.gov]
Sent: Tuesday, August 11, 2015 3:17 PM
To: Troy Holzschuh <THolzschuh@apexcos.com>
Subject: RP files for 11742

RP files

Brenda Hafshejani
UST Division of Waste Management
Raleigh Regional Office
Voice: (919)791-4200
Fax: (919) 571-4718

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.

* Jamie said that he originally called to report this release between 4:30-5:00 on Wed. Dec 22, 1993, but no one was in the Groundwater Section, so he spoke to someone in another section (did not get their name). He called today to confirm that the release report has been received.

GROUNDWATER SECTION COMPLAINT LOG to Site Sec Section.
RALEIGH REGIONAL OFFICE I could not find that I had, so I got the info from her again.

AFTER COMPLETING, SUBMIT TO SUPERVISOR

Date Rec'd: 12-29-93 Time: 1:30 Contact: K. Hunt

Caller Name: Jamie Mc Catched Phone (H): _____

Caller Address: _____ (W): 876-0416

Nature of Complaint: Removed a 265 gallon drum & moved free product in the excavation. Said tank was completely full before they removed it, but child pumping tank noticed fluid seeping back. (See book for additional info)

Suspect: Montgomery Ward Phone: _____

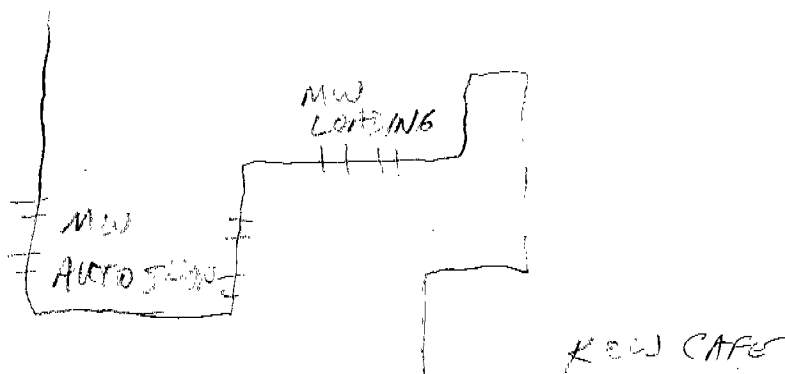
Address: 1 Jayston Mill

City: Rocky Mt County: _____

Directions/Location (use secondary road nos.): _____

the contact for Montgomery Ward is:
Ted Strand 813-796-8950
140 Clearwater Mall
Clearwater, FL 34624

Priority: Low Assigned: Aring

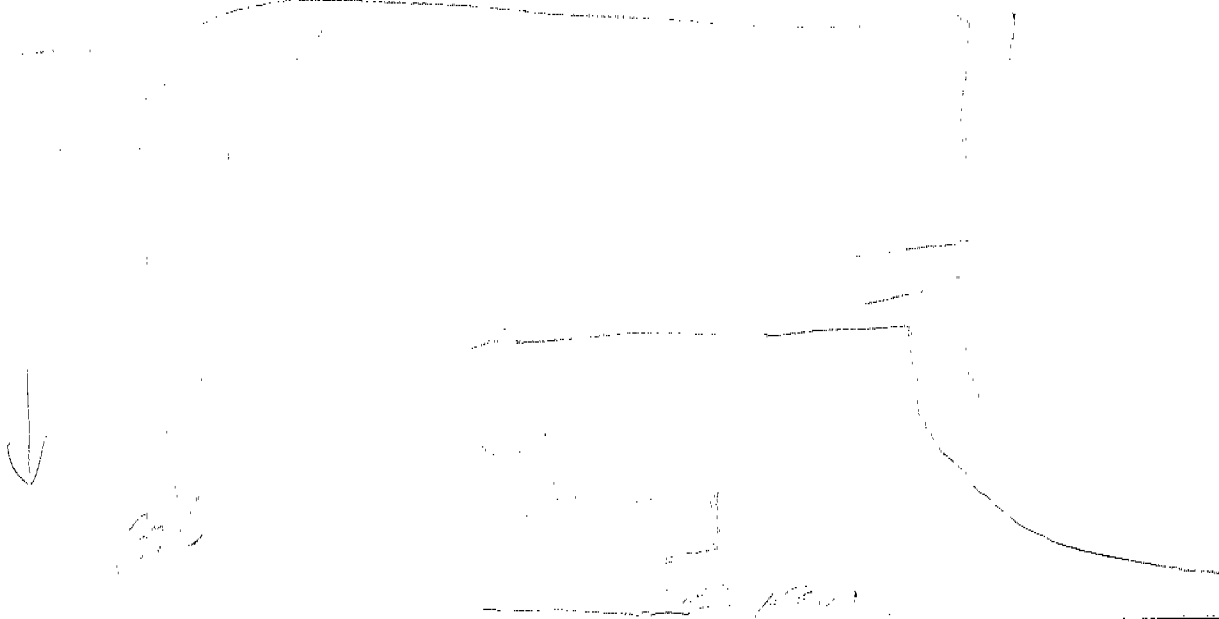


There was a 265 gallon ~~UST~~ diesel used for emergency generator. The tank had not been used since 1966. Jamie says his contact at Mont. Wild was not aware of the tank's existence until a couple of weeks ago. Jamie had a question regarding whether or not this would be a regulated tank. After checking with Mike, I gave him the following info:

- if it's heating oil diesel used for heating, it's exempt
- if it's motor diesel used for power/electricity, it's regulated.

Regardless, it's exempt from RC requirements.

GREY HILL MW - MGR 443 4111



12-22-93

release up.



LAW

ENGINEERING AND ENVIRONMENTAL SERVICES

RECEIVED
JAN 18 1994
DEHNR-RAL RO

January 13, 1994

Mr. Nile Testerman

North Carolina Department of Environment, Health and Natural Resources
Division of Environmental Management
Raleigh Regional Office
3800 Barret Drive
Suite 101
Raleigh, NC 27609

NA CO

Subject: **20 DAY REPORT
MONTGOMERY WARD
ROCKY MOUNT, NORTH CAROLINA
LAW ENGINEERING JOB NO. 475-09131-02**

Dear Mr. Testerman:

On behalf of Montgomery Ward and Co., Inc., Law Engineering hereby submits this 20 day letter report as required by NCAC Title 15A, 2, 2N, Section .0703, paragraph b. One 550-gallon capacity underground storage tank (UST) was removed from the Montgomery Ward site located at Tarrytown Mall in Rocky Mount, North Carolina on December 22, 1993. The UST was formerly used to store fuel for a generator. However, at this time we are unsure what type of fuel was stored in the UST because the UST was taken out of use in approximately 1966 and no records detailing the type of fuel have been found to date. However, Montgomery Ward is actively researching this matter and our laboratory is attempting to determine if the petroleum in the soil samples collected from the excavation is diesel or No. 2 fuel oil. This report summarizes the field observations and actions taken thus far.

On December 22, 1993, Mr. James McCutchen of Law Engineering notified NCDDEM of a release at the site which was found after the removal of the UST. Free product was observed in the excavation upon removal of the UST. A vacuum truck was used to remove free product as it accumulated. However, after several attempts at free product removal, no significant decrease in the accumulation rate was noted. It is important to note that the UST was filled with fuel to approximately 90% of capacity prior to removal. The soil surrounding the UST consisted of stiff clays and crush-and-run type fill. Further excavation at the time of removal was not possible due to the close proximity of underground utilities.

LAW ENGINEERING, INC.

3301 ATLANTIC AVENUE • RALEIGH, NC 27604
P. O. BOX 18288 • RALEIGH, NC 27619
(919) 876-0416 • FAX (919) 872-3253

ONE OF THE LAW COMPANIES

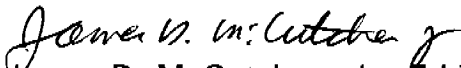
20-Day Report
Montgomery Ward
page 2

A free product recovery well is scheduled for installation on January 17, 1993. The installation of this well will aid Law Engineering in determining a cost effective method of free product removal, which will be implemented as soon as practical.

Law Engineering and Montgomery Ward will continue to keep NCDEM informed of the progress of assessment and remedial activities at this site. If you have any questions regarding this project please call us at (919) 876-0416.

Sincerely,

LAW ENGINEERING, INC.


James D. McCutchen, Jr., E.I.T.
Staff Engineer


Daniel H. Nielsen, P.E.
Senior Engineer

cc: Mr. Ted Strand, Montgomery Ward and Co., Inc.

attachment

(GW/UST-2) Site Investigation Report For Permanent Closure or Change-in-Service of U.S.T.

FOR TANKS IN NC	Return Completed Form To: The appropriate DEM Regional Office according to the county of the facility's location. [SEE MAP ON REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL OFFICE ADDRESS].	State Use Only I.D. Number _____ Date Received _____
------------------------------------	--	--

INSTRUCTIONS

Complete and return within (30) days following completion of site investigation.

I. Ownership of Tank(s)	II. Location of Tank(s)
Owner Name (Corporation, Individual, Public Agency, or Other Entity) <u>Montgomery Ward & Co., Inc.</u> <u>Montgomery Ward Plaza</u> Street Address <u>Chicago, IL 60671</u> County City State Zip Code <u>312-467-2000</u> Area Code Telephone Number	Facility Name or Company <u>Montgomery Ward Auto Express #1136</u> Facility ID # (if available) <u>2320 Sunset Avenue</u> Street Address or State Road <u>Edgecombe Rocky Mount 27801</u> County City Zip Code <u>919-443-4111</u> Area Code Telephone Number

III. Contact Person

Name <u>Ted Strand</u>	Job Title <u>Field Engineer</u>	Telephone No. (Area Code) <u>813-796-8950</u>
Closure Contractor (Name) <u>Law Engineering</u>	(Address) <u>3301 Atlantic Ave., N.C.</u>	Telephone No. (Area Code) <u>919-876-0416</u>
Lab (Name) <u>Law Environmental National Labs</u>	(Address) <u>Pensacola, FL</u>	Telephone No. (Area Code) <u>904-944-9772</u>

IV. U.S.T. Information				V. Excavation Condition				VI. Additional Information Required	
Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water In Excavation		Free Product		Notable Odor or Visible Soil Contamination	
				Yes	No	Yes	No	Yes	No
1	265	36"x 60"	No. 2 Fuel Oil		X	X		X	

See reverse side of pink copy (owner's copy) for additional information required by N.C. - DEM in the written report and sketch.

RECEIVED

FEB 24 1994

DEHNR-RAL RO

VII. Check List

Check the activities completed.

- Contact local fire marshal
 - Notify DEM Regional Office before abandonment.
 - Drain & flush piping into tank.
 - Remove all product and residuals from tank
 - Excavate down to tank.
 - Clean and inspect tank.
 - Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures.
 - Cap or plug all lines except the vent and fill lines.
 - Purge tank of all product & flammable vapors.
 - Cut one or more large holes in the tanks.
 - Backfill the area.
- Date Tank(s) Permanently closed: December 22, 1993
 Date of Change-in-Service: _____

- ABANDONMENT IN PLACE**
- Fill tank until material overflows tank opening;
 - Plug or cap all openings;
 - Disconnect and cap or remove vent line
 - Solid inert material used - specify: _____

- REMOVAL**
- Create vent hole
 - Label tank
 - Dispose of tank in approved manner
- Final tank destination: Noble Oil Services

VIII. Certification (Read and Sign)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Print name and official title of owner or owner's authorized representative <u>James D. McCutchen, Jr. Staff Engineer</u>	Signature 	Date Signed <u>1-24-94</u>
--	---------------	-------------------------------

1290

POLLUTION INCIDENT/U.S.T. LEAK REPORTING FORM

Department of Environment, Health, Natural Resources
Division of Environmental Management
GROUNDWATER SECTION

Confirm. GW Contamination (Y/N) Y
Major Soil Contamination (Y/N) _____
Minor Soil Contamination (Y/N) _____

Incident # 11678
Date Incident Occurred
or Leak Detected 2/22/99

INCIDENT DESCRIPTION

Incident Location/Name MONTGOMERY WARD
Address 1 TARRY TOWN MALL
City/Town ROCKY MOUNT County WASH Region RALPH
Briefly Describe Incident 265 GAL DIESEL TANK FOR EMERGENCY GENERATOR
PUMPED OUT TO BE REMOVED, FREE PRODUCT IN EXCAVATION. FUEL
RE-ENTERED TANK FROM PIT.

POTENTIAL SOURCE OWNER-OPERATOR

Potential Source Owner-Operator TED STRAND ENGINE-STORENER Telephone (313) 796 8950
Company MONTGOMERY WARD Street Address 140 CLEARWATER MALL
City CLEARWATER County _____ State FL Zip Code 34624

OWNERSHIP

0. N/A 1. Municipal 2. Military 3. Unknown 4. Private 5. Federal 6. County 7. State

OPERATION TYPE

0. N/A 1. Public Service 2. Agricultural 3. Residential 4. Educational/Relig. 5. Industrial 6. Commercial 7. Mining

POLLUTANTS INVOLVED

MATERIALS INVOLVED	AMOUNT LOST	AMOUNT RECOVERED
<u>DIESEL</u>	<u>UNK</u>	_____
_____	_____	_____
_____	_____	_____

SOURCE OF POLLUTION

PRIMARY SOURCE OF POLLUTION (Select one)

- 1. Intentional dump
- 2. Pit, pond, lagoon
- 3. Leak-underground
- 4. Spray irrigation
- 5. Land application
- 6. Animal feedlot
- 7. Source unknown
- 8. Septic tank
- 9. Sewer line
- 10. Stockpile
- 11. Landfill
- 12. Spill-surface
- 13. Well
- 14. Dredge spoil
- 15. Nonpoint source

PRIMARY POLLUTANT TYPE (Select one)

- 1. Pesticide/herbicide
- 2. Radioactive waste
- 3. Gasoline/diesel
- 4. Heating oil
- 5. Other petroleum prod.
- 6. Sewage/septage
- 7. Fertilizers
- 8. Sludge
- 9. Solid waste leachate
- 10. Metals
- 11. Other inorganics
- 12. Other organics

LOCATION

- 1. Facility
- 2. Railroad
- 3. Waterway
- 4. Pipeline
- 5. Dumpsite
- 6. Highway
- 7. Residence
- 8. Other

SETTING

- 1. Residential
- 2. Industrial
- 3. Urban
- 4. Rural

Site Priority
Ranking

50/E

D.E.M. Regional Contact _____

Signature _____

Date

19 FEB 99

IMPACT ON DRINKING WATER SUPPLIES

WELLS AFFECTED 1. YES 2. NO

NUMBER OF WELLS AFFECTED _____

Well(s) Contaminated: (Users Name)

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____

Circle Appropriate Responses
Lab Samples Taken By: 1. DEM 2. DHS 3. Responsible Party 4. Other 5. None

Samples Taken Include: 1. Groundwater 2. Soil

LOCATION OF INCIDENT

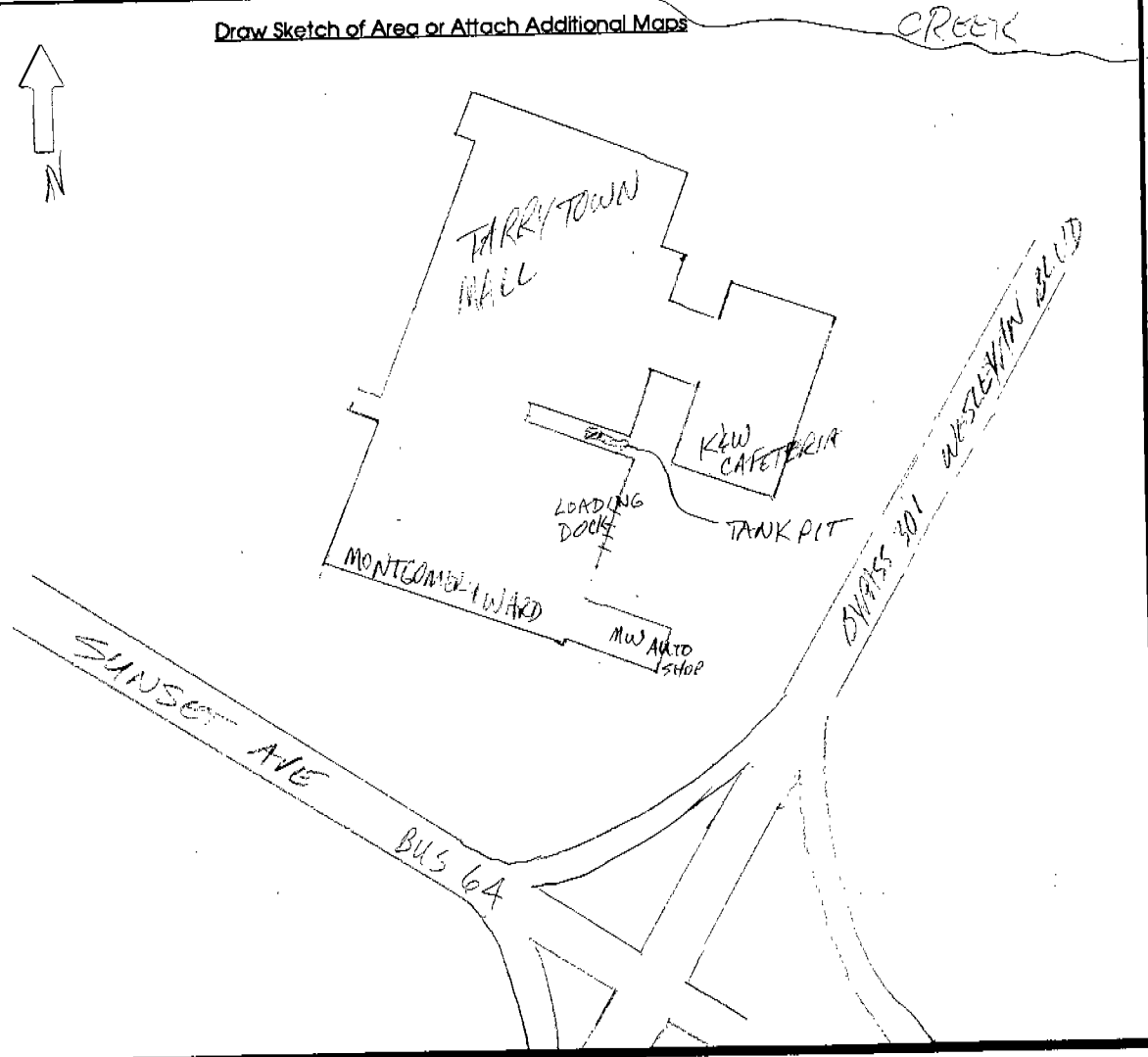
7 1/2 Min. Quad Name ROCKY MOUNT

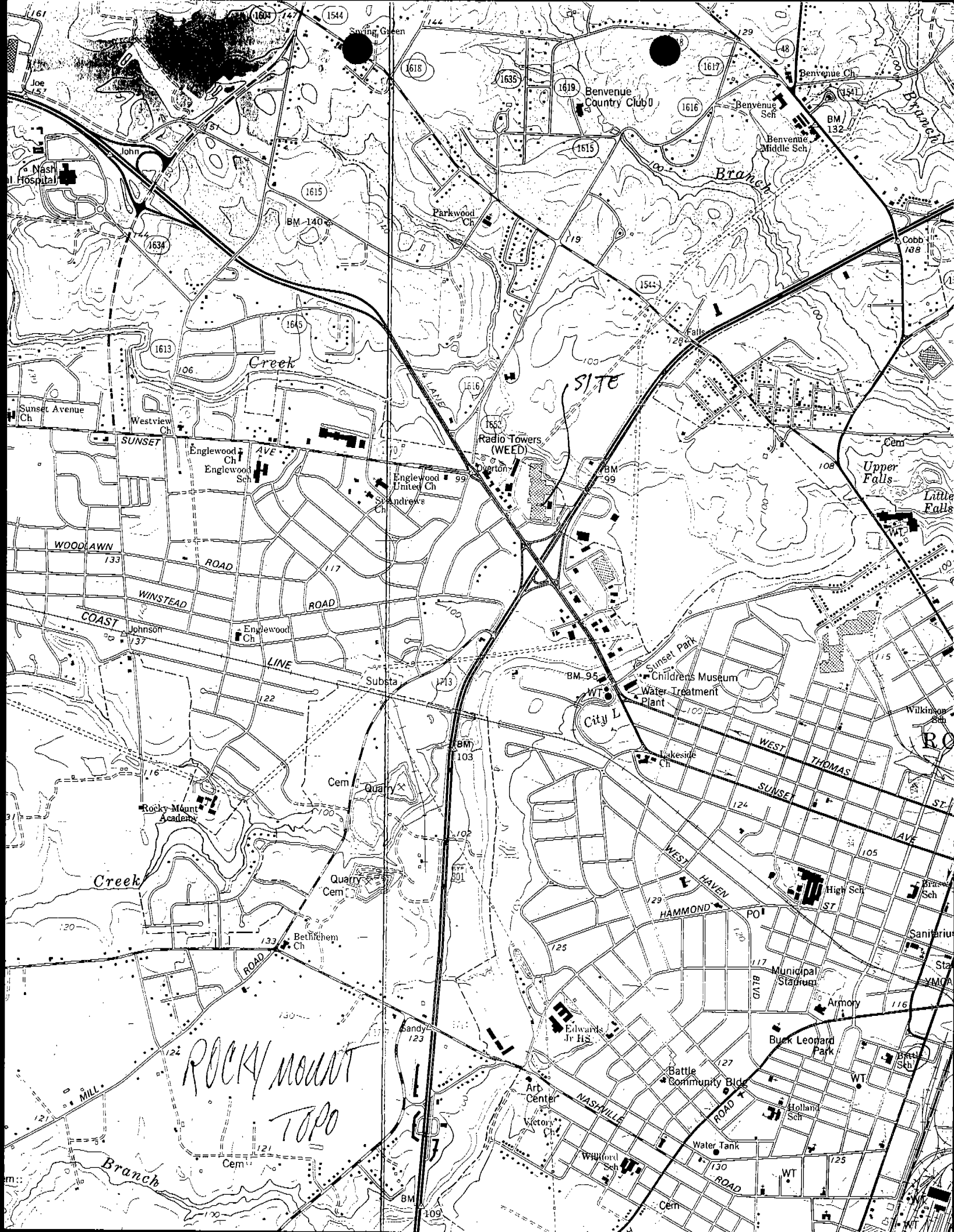
Lat. : Deg : Min : Sec : 35 57 35

5 Min. Quad Number T290

Long. : Deg : Min : Sec : 97 49 18

Draw Sketch of Area or Attach Additional Maps





SITE

ROCKY MOUNT
TOPO

Map labels and features include:
- **Streets:** SUNSET AVE, WOODLAWN ROAD, WINSTEAD ROAD, COAST ROAD, LINE ROAD, WEST THOMAS ST, SUNSET ST, WEST HAVEN ST, HAMMOND ST, NASHVILLE ROAD, BATTLE ROAD, GATSBY ROAD.
- **Landmarks:** Benvenue Country Club, Englewood Ch, Parkwood Ch, Benvenue Middle Sch, Englewood United Ch, St. Andrews Ch, Englewood Ch, Johnson Ch, Englewood Ch, Rocky Mount Academy, Quarry Cem, Bethlehem Ch, Edwards Jr HS, Arb Center, Victory Ch, Willford Sch, Battle Community Bldg, Municipal Stadium, Armory, Buek Leonard Park, Sunset Park, Childrens Museum, Water Treatment Plant, Lakeside Ch, High Sch, Sanitarium, Battle Community Bldg, Water Tank, Holland Sch, WT (Water Tank), Cem (Cemetery).
- **Other:** Radio Towers (WEED), Substa, City L, BM (Bench Mark) 140, 99, 103, 109, 132, 133, 137, 154, 155, 157, 161, 163, 165, 168, 169, 173, 175, 177, 188, 198, 200, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300.

Incident Name: MONTGOMERY WARD Region/County: RALPH/NA SH

Groundwater Incident File # _____ Ranking Performed by: STH

Date: 15 FEB 94

**NORTH CAROLINA
GROUNDWATER CONTAMINATION INCIDENT MANAGEMENT
SITE PRIORITY RANKING SYSTEM**
(To be completed by Regional Office)

	<u>Points Awarded</u>
I. IMMINENT HAZARD ASSESSMENT	
A. Explosion - free product in confined areas or vapor phase product detected at or above 20% of the lower explosive limit or at health concern levels; award 50 points total	_____
B. Fire - free product subject to ignition in exposed areas such as surface water impoundments, streams, excavations, etc.; award 50 points total	_____
II. EXPOSURE ASSESSMENT	
A. Contaminated Drinking Water Supplies	
1. Private, domestic water supply well containing substances in concentrations exceeding 15A NCAC 2L groundwater quality standards; award 10 points per well	_____
2. Public or institutional water supply well containing substances in concentrations exceeding 15A NCAC 2L groundwater quality standards; award 20 points per well	_____
3. Exceedances of Class WS-1 surface water quality standards as a result of groundwater discharge; award 20 points per surface water body impacted	_____
4. If a water supply well identified in items II. A. 1 and II. A. 2 cannot be replaced by an existing public water supply source requiring hook-up only; award additional 10 points per irreplaceable well	_____
B. Threat to Uncontaminated Drinking Water Supplies	
1. Private, domestic water supply well located within 1500 feet down gradient of contaminant source; award 10 points per well	_____
2. Public or institutional water supply well located within 1500 feet downgradient of contaminant source; award 15 points per well	_____
3. Raw surface water intake for public water supply located within 1/2 mile downgradient of contaminant source; award 5 points per water supply system	_____
4. If any well identified in items II. B. 1 and II. B. 2 or an intake in item II. B. 3. are located within 250 feet of contaminant source; award additional 20 points total (not per well or intake)	_____
C. Vapor Phase Exposure	
1. Product vapors detected in inhabitable building(s) below 20% of the lower explosive limit or health concern levels; award 30 points total	_____

Points Awarded

- 2. Product vapors detected in other confined areas (uninhabitable buildings, sewer lines, utility vaults, etc.) below 20% of the lower explosive limit; award 10 points total

II. SOURCE ASSESSMENT

- A. Uncontrolled or Unabated Primary Source (including dumpsites, stockpiles, lagoons, land applications, septic tanks, landfills, underground and above ground storage tanks, etc.)

- 1. Suspected or confirmed source remains in active use and continues to receive raw product, wastewater or solid waste; award 30 points per source
- 2. Active use of suspected or confirmed source has been discontinued or source was caused by a one-time release of product or waste, however, source continues to release product or contaminants into the environment; award 10 points per source

10

IV. ENVIRONMENTAL VULNERABILITY ASSESSMENT

- A. Vertical Contaminant Migration - Literature or well logs indicate that no confining layer is present above bedrock or within twenty feet of land surface; award 10 points total

10

- B. Horizontal Contaminant Migration - Data or observations indicate that no discharge points or aquifer discontinuities exist between the source and the nearest downgradient drinking water supply; award 10 points total

10

- C. Existing Groundwater Quality - The worst case monitor or supply well contains contaminant levels:

- 1. At less than 10 times the 2L groundwater standards; award 5 points
- 2. Between 10 and 100 times the 2L groundwater standards; award 20 points
- 3. Greater than 100 times the 2L groundwater standards; award 40 points

20

V. REGIONAL OFFICE RESPONSE (LETTER RANK)

Priority A - (Site meets any one of the criteria)

- 1. Water supply well(s) contaminated and no alternate water supplies available.
- 2. Vapors present in confined areas at explosive or health concern levels.
- 3. Treated surface water supply in violation of the safe drinking standards.

Priority B - (Any One)

- 1. Water supply well(s) contaminated, but alternate water supplies available.

2. Water supply well(s) within 1500 feet of site, but not contaminated and no alternate water supplies available.
3. Vapors present in confined areas but not at explosive or health concern levels.

Priority C - (Both)

1. No water supply well(s) contaminated.
2. Water supply well(s) greater than 1500 feet from site, no alternate water supply available.

Priority D - (Both)

1. No water supply well(s) contaminated.
2. Water supply well(s) within 1500 feet of site but alternate water supplies available.

Priority E - (Both)

1. No water supply well(s) contaminated or within 1500 feet of site.
2. Area served by alternate water supply.

TOTAL POINTS AWARDED

50 / E
#/Letter

Corporate Offices

312-467-2000

MONTGOMERY WARD AND COMPANY, INC.
Field Engineering - S.E. Region
140 Clearwater Mall
Clearwater, FL 34624
(813) 796-8950

February 22, 1994

RECEIVED

FEB 24 1994

DEHNR-RAL RO

Mr. Jay Zimmerman
North Carolina Department of Environment,
Health and Natural Resources
Division of Environmental Management
Raleigh Regional Office
3800 Barret Drive - Suite 101
Raleigh, NC 27609

RE: UNDERGROUND STORAGE TANK REMOVAL - CLOSURE ASSESSMENT REPORT, MONTGOMERY WARD
RETAIL STORE #1136, ROCKY MOUNT, NC

Dear Mr. Zimmerman:

Enclosed herewith is a copy of the "Report of Environmental Services and Closure of One 265-Gallon Underground Storage Tank" as prepared by Law Engineering, Inc., of Raleigh, NC. This report encompasses the activities relating to the removal of a single underground fuel oil storage tank at the subject location and is dated February 14, 1994. Also enclosed is a completed "Site Investigation Report For Permanent Closure or Change-in-Service of U.S.T." (GW/UST-2) form.

If there are any questions, please feel free to contact the undersigned.

Sincerely,
MONTGOMERY WARD & COMPANY, INC.



T. L. (Ted) Strand,
Field Engineering

cc: Mr. Greg Jonas - Montgomery Ward
Mr. James D. McCutchen, Jr. - Law Engineering
File



LAW

ENGINEERING AND ENVIRONMENTAL SERVICES

February 14, 1994

Montgomery Ward and Co., Inc.
140 Clearwater Mall
Clearwater, Florida 34624

Attention: Mr. Ted Strand

Subject: **REPORT OF ENVIRONMENTAL SERVICES AND CLOSURE OF
ONE 265-GALLON UNDERGROUND STORAGE TANK
MONTGOMERY WARD
ROCKY MOUNT, NORTH CAROLINA
LAW ENGINEERING JOB NO. 475-09131-02**

RECEIVED
FEB 24 1994
DEHNR-RAL RO

Dear Mr. Strand:

As authorized by your Order to Contractor No. A3-02237-1.0, dated December 14, 1993, Law Engineering is pleased to present this report of our environmental services for your project. The purpose of our services, as described in the attached report, was to provide turn-key tank closure service by removal of one underground storage tank and to collect soil and/or grab water samples from the tank excavation for laboratory testing to evaluate the possibility of petroleum fuel related contamination caused by leaks from the underground storage tank system.

This report is intended for the exclusive use of Montgomery Ward and Co., Inc.. The contents should not be relied upon by any other parties without the express, written consent of Law Engineering. The findings are relevant to the dates of our site work and should not be relied upon to represent site conditions on other dates.

As indicated in Section 4.2 of the report, Law Engineering recommends that the North Carolina Division of Environmental Management (DEM) be notified of the findings presented in this report. We will be glad to assist you with regulatory consultation.

As we have discussed in our telephone conversations, we are uncertain as to whether the tank was used to store diesel or fuel oil. If the UST was used to store diesel, then it would be considered a regulated tank and subject to the regulations of North Carolina Administrative Code Title 15A, Subchapter 2N (15 NCAC 2N). These regulations require periodic reports and specify actions to be taken when a release has occurred. However, if the UST was used to store fuel oil (fuel which could be used for heating), according to Mr. Nile Testerman of DEM, the tank would be considered a non-regulated tank and exempt from the 15 NCAC 2N regulations.

LAW ENGINEERING, INC.

3301 ATLANTIC AVENUE • RALEIGH, NC 27604
P. O. BOX 18288 • RALEIGH, NC 27619
(919) 876-0416 • FAX (919) 872-3253

ONE OF THE LAW COMPANIES

Report of Environmental Services and Closure of
One 265-Gallon Underground Storage Tank
Montgomery Ward
February 14, 1994
Page 2



Please be aware that public funds have been appropriated for cleanups at underground storage tank sites. In order to obtain reimbursement for clean-up activities at the subject site from the North Carolina Leaking Underground Storage Tank Trust Fund, site restoration activities must be deemed reasonable and necessary by the North Carolina Department of Environment, Health and Natural Resources (NCDEHNR).

We are uncertain as to whether the tank is considered a "commercial" or "non-commercial" UST according to Trust Fund Rules found at North Carolina Administrative Code Title 15A, Subchapter 2P (15 NCAC 2P). If the UST was used to store diesel fuel then it would be considered a commercial UST for which annual tank fees are due. If tank fees have not been paid in accordance with 15 NCAC 2P Section .0301 on a commercial UST prior to the discovery of a release, then the costs related to clean-up of the release are not eligible for reimbursement from the Commercial Trust Fund. If the UST was used to store fuel oil, then it is exempt from paying fees as required by the 15 NCAC 2P regulations and maybe eligible for reimbursement from the Non-Commercial Trust Fund.

Montgomery Ward should search its records and attempt to obtain records from the fuel supplier in order to aid in the determination of the type of fuel stored in the UST. The type of fuel stored in the UST will be a determining factor in the UST's Trust Fund eligibility. If this determination cannot be made, it will be up to DEM to decide if this project is eligible for Trust Fund reimbursement.

We appreciate the opportunity to provide environmental services on this project. Please contact us if any questions arise or if we may be of further service.

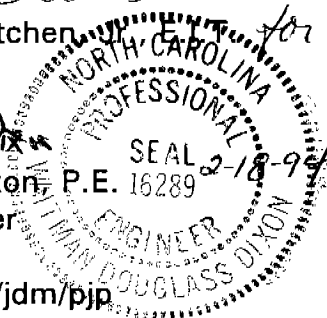
Sincerely,

LAW ENGINEERING, INC.

Patricia Pearson
James D. McCutchen, P.E. for
Staff Engineer

W. Douglass Dixon
W. Douglass Dixon, P.E. 16289
Principal Engineer

JDM/DHN/WDD/jdm/pjp



Daniel H. Nielsen
Daniel H. Nielsen, P.E.
Senior Engineer

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- Drawing 2.1: UST Excavation and Sample Location Map

SITE PHOTOGRAPHS

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- A Laboratory Test Data Reports and Chain of Custody Record
- B Site Investigation Report for Permanent Closure of U.S.T. and UST Site Investigation Summary Report



1.0 INTRODUCTION AND BACKGROUND

This report provides information concerning documentation of underground storage tank (UST) closure services performed by Law Engineering at Montgomery Ward located at Tarrytown Mall in Rocky Mount, North Carolina (Drawing Nos. 1.1 and 1.2). Law Engineering, Inc. (LAW) contracted with Noble Oil Services (Noble) to provide demolition services during the removal of the 265-gallon capacity fuel oil UST at the subject site. The report presents a summary of the tank removal procedures; the laboratory test results; and our findings, conclusions and recommendations. The work was performed substantially as outlined in Law Engineering Proposal No. RAL47593-01490 dated December 13, 1993.

The opinions included herein are based on our experience and the information obtained during the study. This report is based on limited observations made on the dates noted using the procedures described herein. If additional information becomes available, we request the opportunity to review the information, reassess the potential environmental concerns and modify our conclusions and recommendations, if appropriate.

2.0 UNDERGROUND STORAGE TANK REMOVAL ASSESSMENT

The purpose of our services was to provide permanent closure by removal of one UST, collection of soil samples for laboratory analysis, preparation of a UST closure report, and identification of possible leakage of petroleum from the UST.

2.1 Tank Excavation and Removal

On December 22, 1993 the 265-gallon fuel oil/diesel UST was removed. Prior to removal, approximately 233 gallons of fluid were removed from the tank (Photograph 1). Removal of the UST was performed in general accordance with the American Petroleum Institute (API) Recommended Practice 1604 "Removal and Disposal of Used Underground Petroleum Storage Tanks." The UST was appropriately labeled in accordance with API 1604 and North Carolina Department of Transportation guidelines and then transported to the Noble Oil Service facility in Sanford, North Carolina for disposal. A Certificate of Destruction for the UST will be forwarded upon receipt from Noble Oil Services.

2.2 Observation of Petroleum Contaminated Soil and Free Product

During removal of the UST, "stained" soils and petroleum odors were noted. Excavated soil (approximately 15 cubic yards) was stockpiled on and covered with plastic on-site. Upon removal of the UST, free product was observed in the excavation (Photograph 2). Two soil samples (B-1 and B-2) were collected from the base of the excavation, approximately 5.5 feet below land surface (bls) (Drawing 2.1). In



addition, two soil samples (S-1 and S-2) were collected during excavation activities, approximately 3.0 feet bls, and one composite sample (C-1) was collected from the stockpiled soil. The headspace of the samples was scanned by a Foxboro Organic Vapor Analyzer (OVA) for "gross" volatile organic compounds. All soil samples exhibited evidence of volatile organic compounds. The OVA is useful for detecting the presence of volatile organics, but was not relied upon to determine specific levels of contamination.

2.3 Sample Collection and Laboratory Test Results

To confirm the presence of soil contamination in the excavation, one soil sample from the base of the excavation (B-1) was submitted for laboratory testing. Composite sample C-1 was also submitted for laboratory testing. The samples were placed in laboratory supplied glass jars, labeled, packed on ice, and shipped to Law Environmental National Labs in Pensacola, Florida under chain-of-custody. The samples were tested for Total Petroleum Hydrocarbons (TPH) according to EPA Method 8015/3550/5030. Sample C-1 was also tested for the eight RCRA metals, volatile organic compounds, semi-volatile organic compounds (base neutrals and acid extractables), and pesticides and PCBs using EPA Methods 6010, 8240, 8270 and 8080, respectively. The additional tests for C-1 are typically required by disposal facilities before they will accept contaminated soil.

Laboratory test results are summarized in Table 2.1. Copies of the laboratory test reports and the chain-of-custody records are included in Appendix A. The laboratory tested the soil samples against a diesel standard and a No. 2 fuel oil standard, but was unable to positively identify the type of petroleum in the soil samples. As indicated in Table 2.1, TPH as gasoline was also detected in the soil samples. The source of TPH as gasoline is unknown at this time. Barium, chromium, lead, benzene, ethylbenzene, xylenes (total), acenaphthene, acenaphthylene, dibenzofuran, fluorene, isophorone, 2-methylnaphthalene, naphthalene, phenanthrene and arochlor-1254 were also detected at or above laboratory detection limits according to EPA Methods 6010, 8240, 8270 and 8080 in soil sample C-1. According to Jim Tucci of Law Environmental National Laboratories, all of these compounds, except chromium, are commonly associated with petroleum fuels. Published literature indicates that concentrations of barium, chromium and lead found in the tested soil sample are within the respective typical ranges of native soil concentrations for each element (Ref: Dragun, J., The Soil Chemistry of Hazardous Materials, p.77). Two soil disposal facilities have been contacted and both have stated that they can accept the contaminated soil at their facility.



3.0 REGULATORY GUIDELINES

3.1 Regulatory Guidelines for Petroleum Contaminated Soil

Guidelines for remediation of soil contaminated by petroleum have been established by NCDEHNR, DEM, Groundwater Section. Within these guidelines, the Groundwater Section set an "Action Level" of 40 ppm (mg/Kg) for "high boiling point fuels", such as No.2 fuel oil or diesel, and 10 ppm for "low boiling point fuels", such as gasoline. At sites where ground-water quality has been degraded by the presence of petroleum fuel related hydrocarbons, soils with TPH concentrations equal to or greater than 40 mg/kg (fuel oil) and 10 mg/Kg (gasoline) must be treated in-situ or removed.

At sites where ground water has not been degraded by petroleum fuel related hydrocarbons, a site sensitivity evaluation (SSE) may be used to evaluate the sensitivity of ground water to contamination by petroleum related substances in the vadose zone. Depending on the SSE score, allowable contaminant concentrations may be as high as 300 mg/Kg (gasoline) to 1200 mg/Kg (diesel).

3.2 Regulatory Guidelines for Releases of Petroleum Fuel

At this time it is not known if the 265-gallon UST removed at Montgomery Ward is regulated by Section 40 of the Code of the Federal Regulations (CFR) Part 280 and the North Carolina Administrative Code, Title 15A, Chapter 2, Subchapter 2N (15 NCAC 2N). Mr. Nile Testerman of DEM has indicated that if the UST was used to store fuel oil (fuel which could be used for heating) then the UST would not be regulated under 15 NCAC 2N. However, if the UST was used to store diesel fuel then the UST would be considered regulated. Because the regulatory status of the UST is unknown, the more conservative approach of complying with regulatory requirements is being followed on this project.

The North Carolina Administrative Code specifies that "owners or operators of UST systems must report to the implementing agency within 24 hours, or other reasonable time period...the discovery...of released regulated substances" (Section 0.702). At the time of the release discovery it was unknown if the tank was regulated or not, and therefore, the release was reported to DEM at approximately 4:30 p.m. on December 22, 1993 by Law Engineering, on behalf of Montgomery Ward.



15 NCAC 2N also requires that a report be submitted to DEM within 20 days of release confirmation summarizing the initial abatement steps. This report was submitted to DEM on January 13, 1994.

DEM requires that a Site Investigation Report for Permanent Closure or Change-in-Service of U.S.T. (form GW/UST-2) be submitted within 30 days following completion of site investigation. A copy of this form is contained in Appendix B.

In addition, the Oil Pollution and Hazardous Substances Control Act of 1978 (Oil Spill Act) requires that a discharge of oil or petroleum must be reported to the NCDEHNR and that measures must be undertaken immediately to collect and remove the discharge and to restore the affected area as nearly as possible to the condition existing prior to that release.

An exploratory well (MW-1) to determine the depth to ground water was installed in the vicinity of the UST excavation on January 14, 1994 and a free product recovery well (RW-1) was installed in the UST excavation area on January 17, 1994. Ground water was measured at a depth of approximately 8.5 feet bls in MW-1 on January 17, 1994. Free product was not detected in RW-1 due to water saturating the gravel filled excavation and possibly raising the product above the top of the well screen. Water was measured at a depth of approximately 0.3 feet bls in RW-1. Removal of the water from the excavation area will be scheduled upon replacement of the concrete surface over the area.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

The laboratory test reports indicate that petroleum hydrocarbons were detected in soil samples at concentrations which exceed the 40 mg/Kg and 10 mg/Kg "Action Levels" established by NCDEHNR for No. 2 fuel oil/diesel and gasoline, respectively. Laboratory testing of soil sample C-1 also indicates the presence of barium, chromium, lead, benzene, ethylbenzene, xylenes (total), acenaphthene, acenaphthylene, dibenzofuran, fluorene, isophorone, 2-methylnaphthalene, naphthalene, phenanthrene and arochlor-1254. As stated in section 2.3, these compounds are either commonly found in petroleum contaminated soils, or are naturally occurring elements that are commonly found in soil. The source of TPH as gasoline has not been determined.



The confining of water in the UST excavation noted during installation of the recovery well and subsequent site check indicate that water is being confined by the clayey soils surrounding the excavation. The low permeability and corresponding low hydraulic conductivity of the clay may have also impeded the spread of petroleum contamination from the excavation. However, additional sampling is necessary to determine if contamination is limited to the immediate vicinity of the former UST location.

4.2 Recommendations

In order to comply with 15 NCAC 2N and the Oil Spill Act, Law Engineering recommends that NCDEHNR be notified of the findings of this report. In addition, site clean-up activities should be undertaken to meet the NCDEHNR Division of Environmental Management, Groundwater Sections "Guidelines for the Investigation and Remediation of Soil and Groundwater."

Based on laboratory results, the concentrations of TPH found in the tested soil sample require further assessment and possible remediation. Law Engineering recommends the following:

- Removal and proper disposal of the fluid which has accumulated in the excavation zone.
- Determine the horizontal and vertical extent of the soil contamination, and the source of gasoline contamination.
- Installation of two additional monitoring wells in the vicinity of the excavation and collection of ground-water samples to be tested for purgeable aromatic hydrocarbons, base neutrals, and lead using EPA methods 602, 625 (base neutrals only) including the identification of the ten highest non-target peaks, and 3030C, respectively, as recommended by DEM. Analytical results will aid in determining if ground water in the vicinity of the UST has been impacted by the release.
- Determine and implement a cost-effective method of remediating soil contamination resulting from the release from the UST.

TABLE



TABLE 2.1
SUMMARY OF LABORATORY TESTING OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS
MONTGOMERY WARD
ROCKY MOUNT, NORTH CAROLINA
LAW ENGINEERING JOB NO. 475-09131-02

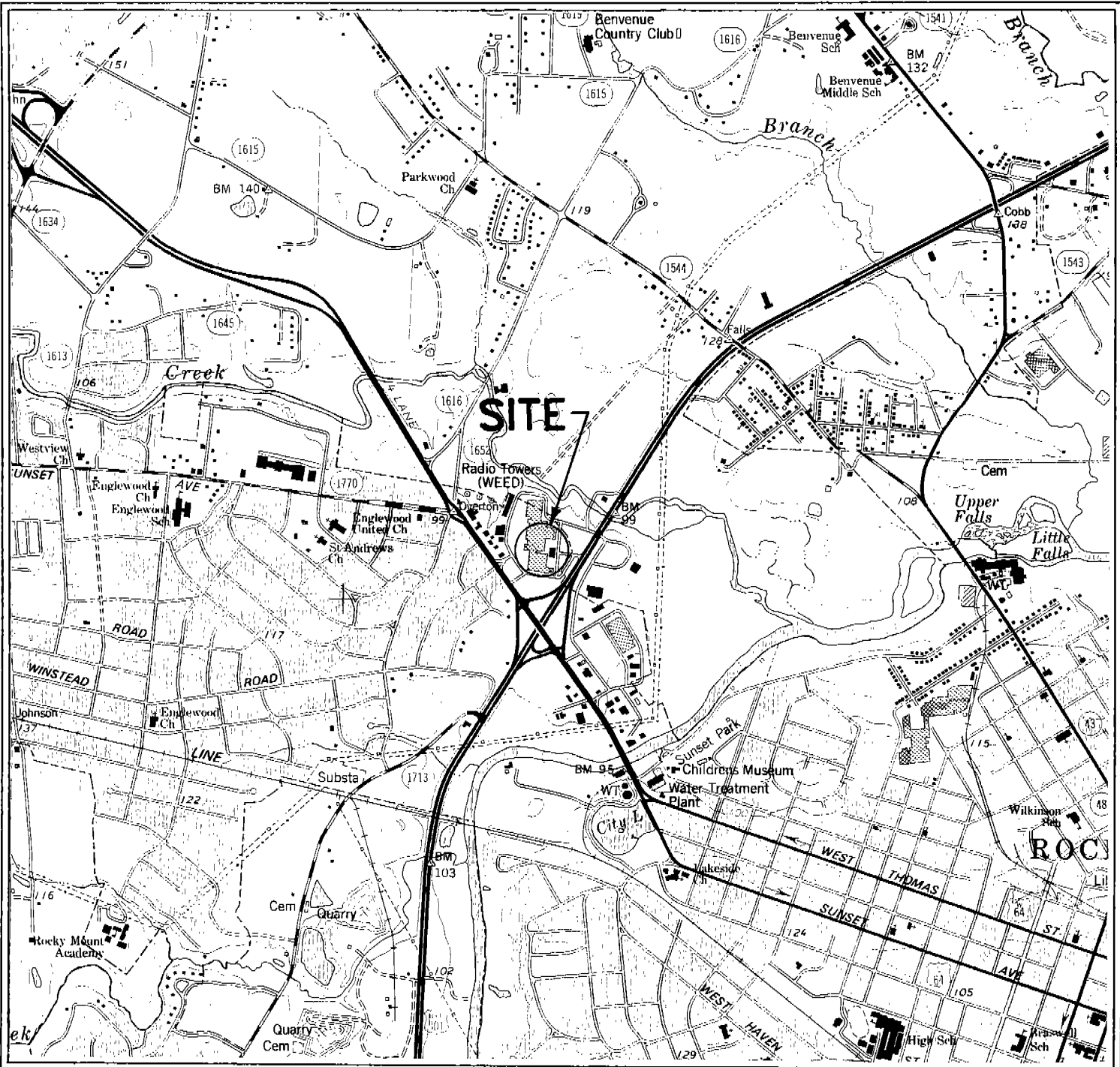
SAMPLE ID	OVA READING	TPH-NO. 2 FUEL OIL (mg/Kg)	TPH-GAS (mg/Kg)
B-1 (UST Excavation)	1000 +	6800	540
C-1 (Stockpile)	600	2500	450
REGULATORY "ACTION LEVEL"	NA	40	10

mg/kg Milligrams Per Kilogram
 NA Not Applicable



DRAWINGS





NORTH

ROCKY MOUNT, N.C.
 NE/4 ROCKY MOUNT 15' QUADRANGLE
 N3552.5-W7745/7.5
 1977

AMS 5455 IV NE-SERIES V842

CONTOUR INTERVAL 10 FEET

GRAPHIC SCALE FEET



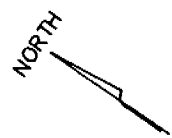
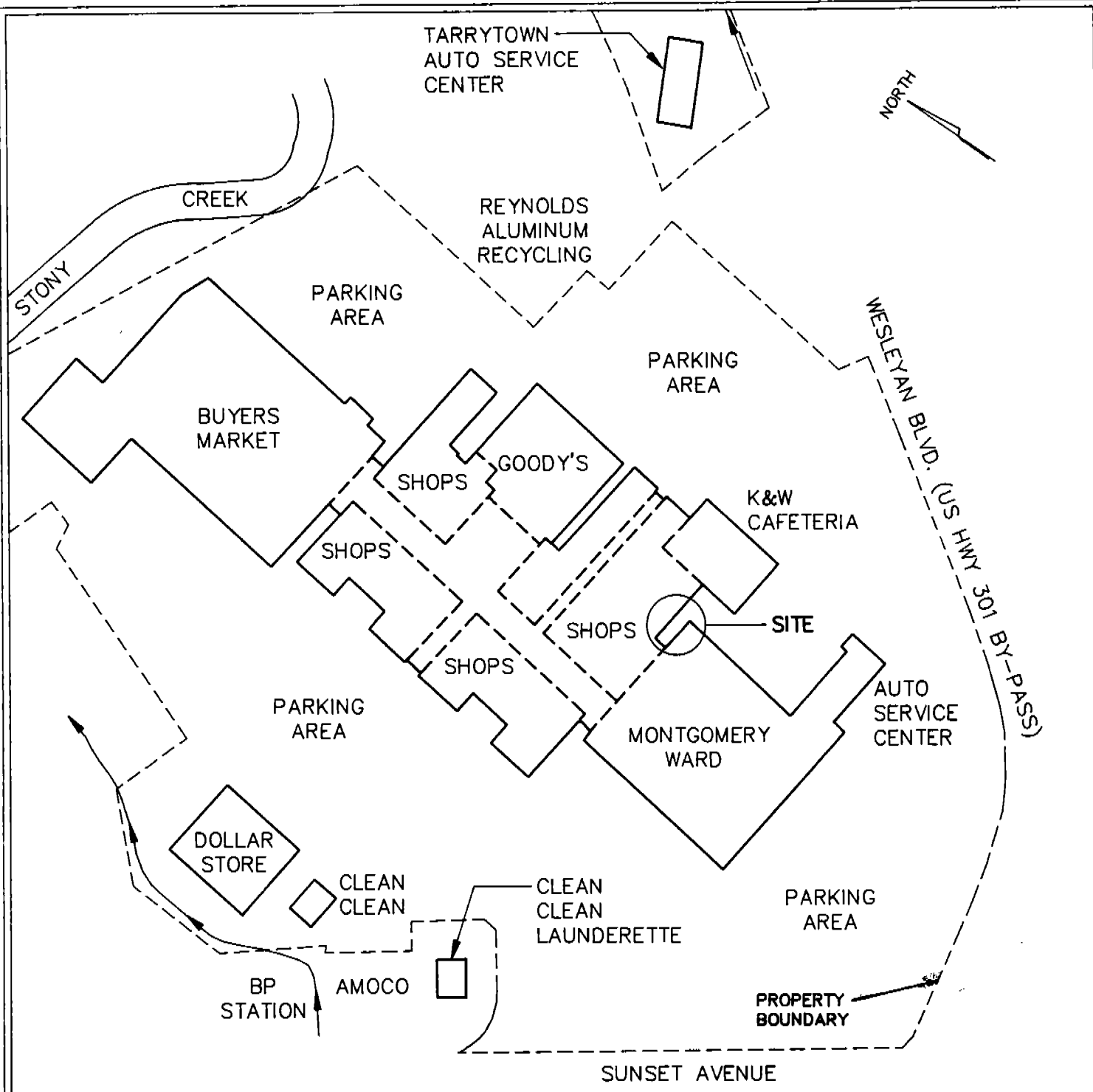
QUADRANGLE LOCATION



LAW ENGINEERING
 RALEIGH, NORTH CAROLINA

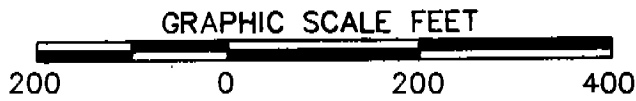
TOPOGRAPHIC SITE MAP
 MONTGOMERY WARD
 ROCKY MOUNT, NORTH CAROLINA

DRAWN: <i>WB1</i>	DATE: JAN. 1994
DFT CHECK: <i>JT</i>	SCALE: 1:24000
ENG CHECK: <i>DH</i>	JOB: 475-09131-02
APPROVAL: <i>gpm</i>	DWG: 1.1



LEGEND

← DRAINAGE FEATURE



J9131T03

LOCATIONS ARE APPROXIMATE.



LAW ENGINEERING
RALEIGH, NORTH CAROLINA

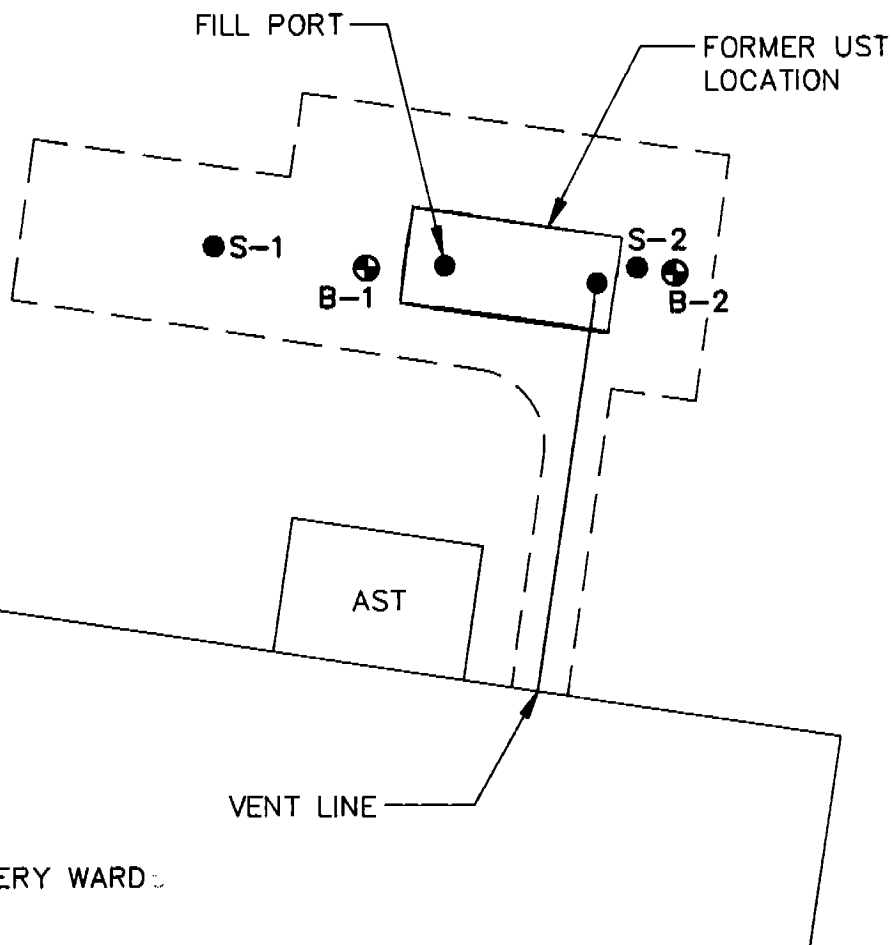
SITE LOCATION MAP
MONTGOMERY WARD
ROCKY MOUNT, NORTH CAROLINA

DRAWN: <i>WBJ</i>	DATE: JAN. 1994
DFT CHECK: <i>JT</i>	SCALE: 1"=200'
ENG CHECK: <i>JJM</i>	JOB: 475-09131-02
APPROVAL: <i>JJM</i>	DWG: 1.2

REFERENCE:

NORTH

SHOPS



MONTGOMERY WARD

LEGEND

- S-1 SOIL SAMPLE LOCATION
- ⊕ B-1 EXCAVATION SAMPLE LOCATION
- - - EXCAVATION BOUNDARIES
- AST ABOVEGROUND STORAGE TANK

LOCATIONS ARE APPROXIMATE.



LAW ENGINEERING
RALEIGH, NORTH CAROLINA

J9131T02

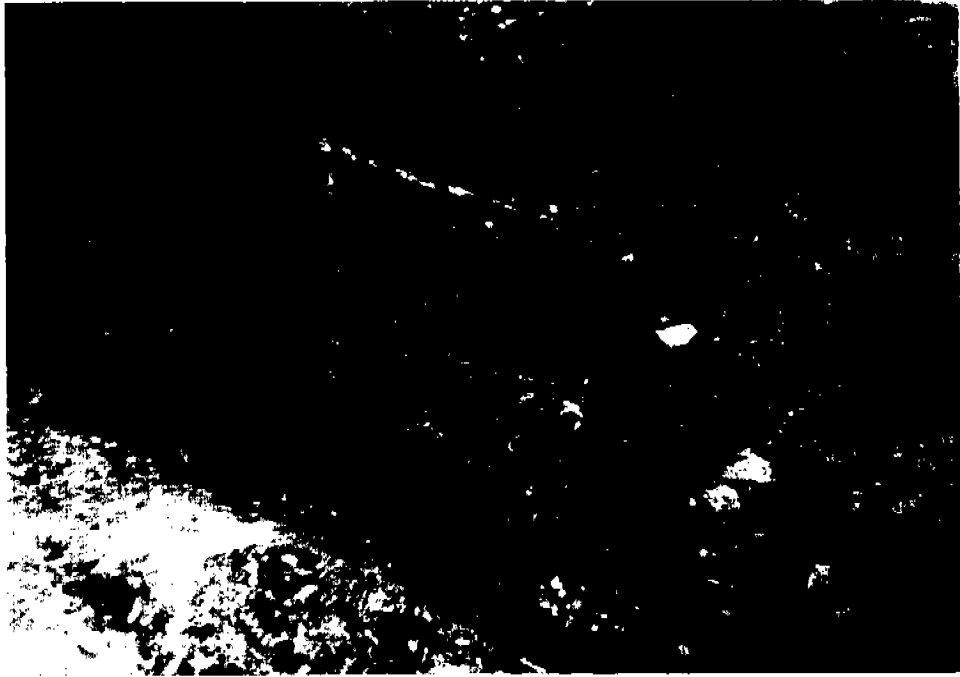
UST EXCAVATION AND
SAMPLE LOCATION MAP
MONTGOMERY WARD
ROCKY MOUNT, NORTH CAROLINA

DRAWN: <i>WBL</i>	DATE: JAN. 1994
DFT CHECK: <i>J.T</i>	SCALE: 1"=5'
ENG CHECK: <i>DB</i>	JOB: 475-09131-02
APPROVAL: <i>Jon</i>	DWG: 2.1

REFERENCE:

SITE PHOTOGRAPHS





**PHOTOGRAPH 1: REMOVAL OF PRODUCT FROM UST-
NOTE LEVEL OF PRODUCT IN UST**



**PHOTOGRAPH 2: FREE PRODUCT IN EXCAVATION-
NOTE UTILITY LINES ON SIDES OF EXCAVATION**



APPENDIX A

**LABORATORY TEST DATA REPORTS AND
CHAIN OF CUSTODY RECORD**



January 17, 1994

Jamie McCutchen - 475 Sample I.D. AA48732 (continued)

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT

Multicomponent analysis: 2322-VOA S. EPA 8240 (continued)			
1,2-Dichloroethane	ug/Kg	Not detected	11
1,1-Dichloroethene	ug/Kg	Not detected	17
trans-1,2-Dichloroethene	ug/Kg	Not detected	17
1,2-Dichloropropane	ug/Kg	Not detected	5.5
cis-1,3-Dichloropropene	ug/Kg	Not detected	5.5
trans-1,3-Dichloropropene	ug/Kg	Not detected	11
Ethylbenzene	ug/Kg	120	5.5
2-Hexanone	ug/Kg	Not detected	55
Methylene chloride	ug/Kg	Not detected	55
4-Methyl-2-pentanone	ug/Kg	Not detected	55
Styrene	ug/Kg	Not detected	11
1,1,2,2-Tetrachloroethane	ug/Kg	Not detected	11
Tetrachloroethene	ug/Kg	Not detected	14
Toluene	ug/Kg	Not detected	8.2
1,1,1-Trichloroethane	ug/Kg	Not detected	17
1,1,2-Trichloroethane	ug/Kg	Not detected	5.5
Trichloroethene	ug/Kg	Not detected	5.5
Vinyl acetate	ug/Kg	Not detected	28
Vinyl chloride	ug/Kg	Not detected	11
Xylenes (total)	ug/Kg	270	22
2323-Sonication Ext. EPA 3550		Done	

Multicomponent analysis: 2322-Semi-VOA S. EPA 8270			
Acenaphthene	ug/Kg	320	82
Acenaphthylene	ug/Kg	62	130
Anthracene	ug/Kg	Not detected	130
Benz[a]anthracene	ug/Kg	Not detected	82
Benzo[b]fluoranthene	ug/Kg	Not detected	170
Benzo[k]fluoranthene	ug/Kg	Not detected	130
Benzoic acid	ug/Kg	Not detected	1200
Benzo[ghi]perylene	ug/Kg	Not detected	130
Benzo[a]pyrene	ug/Kg	Not detected	82
Benzyl alcohol	ug/Kg	Not detected	410
bis(2-Chloroethoxy)methane	ug/Kg	Not detected	130
bis(2-Chloroethyl) ether	ug/Kg	Not detected	210
bis(2-Chloroisopropyl) ether	ug/Kg	Not detected	130
bis(2-Ethylhexyl) phthalate	ug/Kg	Not detected	250
4-Bromophenyl phenyl ether	ug/Kg	Not detected	130
Butyl benzyl phthalate	ug/Kg	Not detected	130
4-Chloroaniline	ug/Kg	Not detected	410
4-Chloro-3-methylphenol	ug/Kg	Not detected	170
2-Chloronaphthalene	ug/Kg	Not detected	82
2-Chlorophenol	ug/Kg	Not detected	210
4-Chlorophenyl phenyl ether	ug/Kg	Not detected	82
Chrysene	ug/Kg	Not detected	130
Dibenz[a,h]anthracene	ug/Kg	Not detected	130
Dibenzofuran	ug/Kg	230	82
Di-n-butylphthalate	ug/Kg	Not detected	210
1,2-Dichlorobenzene	ug/Kg	Not detected	170

January 17, 1994

Jamie McCutchen - 475 Sample I.D. AA48732 (continued)

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT

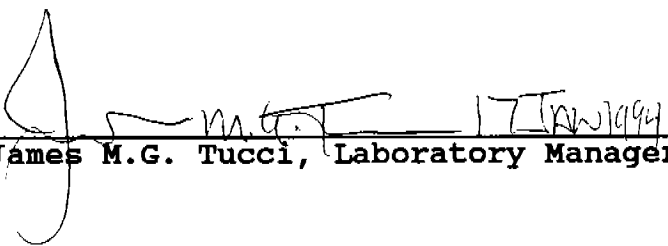
Multicomponent analysis: 2322-Semi-VOA S. EPA 8270 (continued)			
1,3-Dichlorobenzene	ug/Kg	Not detected	130
1,4-Dichlorobenzene	ug/Kg	Not detected	170
3,3'-Dichlorobenzidine	ug/Kg	Not detected	410
2,4-Dichlorophenol	ug/Kg	Not detected	210
Diethylphthalate	ug/Kg	Not detected	130
2,4-Dimethylphenol	ug/Kg	Not detected	210
Dimethylphthalate	ug/Kg	Not detected	82
4,6-Dinitro-2-methylphenol	ug/Kg	Not detected	130
2,4-Dinitrophenol	ug/Kg	Not detected	1800
2,4-Dinitrotoluene	ug/Kg	Not detected	170
2,6-Dinitrotoluene	ug/Kg	Not detected	170
Di-n-octylphthalate	ug/Kg	Not detected	170
Fluoranthene	ug/Kg	Not detected	130
Fluorene	ug/Kg	570	130
Hexachlorobenzene	ug/Kg	Not detected	130
Hexachlorobutadiene	ug/Kg	Not detected	170
Hexachlorocyclopentadiene	ug/Kg	Not detected	410
Hexachloroethane	ug/Kg	Not detected	210
Indeno[1,2,3-cd]pyrene	ug/Kg	Not detected	410
Isophorone	ug/Kg	74	170
2-Methylnaphthalene	ug/Kg	4900	170
2-Methylphenol	ug/Kg	Not detected	170
4-Methylphenol	ug/Kg	Not detected	210
Naphthalene	ug/Kg	620	130
2-Nitroaniline	ug/Kg	Not detected	170
3-Nitroaniline	ug/Kg	Not detected	210
4-Nitroaniline	ug/Kg	Not detected	82
Nitrobenzene	ug/Kg	Not detected	210
2-Nitrophenol	ug/Kg	Not detected	210
4-Nitrophenol	ug/Kg	Not detected	820
N-Nitrosodiphenylamine	ug/Kg	Not detected	210
N-Nitrosodi-n-propylamine	ug/Kg	Not detected	210
Pentachlorophenol	ug/Kg	Not detected	410
Phenanthrene	ug/Kg	1100	82
Phenol	ug/Kg	Not detected	170
Pyrene	ug/Kg	Not detected	170
1,2,4-Trichlorobenzene	ug/Kg	Not detected	130
2,4,5-Trichlorophenol	ug/Kg	Not detected	210
2,4,6-Trichlorophenol	ug/Kg	Not detected	170
2323-PST/PCB Son. Ext. EPA 3550		Done	

Multicomponent analysis: 2321-Pest./PCB's S. EPA 8080			
Aldrin	ug/Kg	Not detected	2.1
alpha-BHC	ug/Kg	Not detected	2.1
beta-BHC	ug/Kg	Not detected	2.1
delta-BHC	ug/Kg	Not detected	2.1
gamma-BHC	ug/Kg	Not detected	2.1
alpha-Chlordane	ug/Kg	Not detected	2.1
gamma-Chlordane	ug/Kg	Not detected	2.1

Page: 5
January 17, 1994

Please advise should you have questions concerning these data.

Respectfully submitted,


James M.G. Tucci, Laboratory Manager



LAW ENVIRONMENTAL, INC.
 NATIONAL LABORATORIES
 7215 PINE FOREST ROAD
 PENSACOLA, FLORIDA 32526
 (904) 944-9772

CHAIN OF CUSTODY RECORD

7644

SAMPLING INFORMATION
 NPDES NUMBER _____
 NAME OF FACILITY: _____
 STREET ADDRESS: _____

PROJECT NAME		JOB NO.	TOTAL NO. OF CONTAINERS		CONTAINER TYPE	LENL LAB NO.
MCHENRENSKY WARD		09131-02			40 ml G VOA HCl	
SAMPLERS (SIGNATURE)					1 L G (H ₂ O)	
SAMPLING DATE					2 oz G. W/M	
12-22-93					8 oz G. W/M	
TIME	SOURCE CODE	SAMPLE STATION DESCRIPTION	TOTAL NO. OF CONTAINERS	CONTAINER TYPE	1 L G (H ₂ O)	
1500	H30	Stock Pile	6	24	1 L PL (NO ₃ -AMBER)	AA48732
1600	S0	UST EXCAVATION	3	12	1 L PL (NO ₂ -AMBER)	AA48733
					1 L PL (NO ₃ -ASCORBIC ACID)	
					1 L PL (Zn Acetate + NaOH)	
					402 PL W/M	
					250 ml PL	
					1 L TEFON	

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME	RELINQUISHED BY:	DATE / TIME	RECEIVED BY LABORATORY:	DATE / TIME
<i>Joseph M. Weston</i> (SIGNATURE)	12-22-93	<i>[Signature]</i> (SIGNATURE)	12-22-93	<i>[Signature]</i> (SIGNATURE)		<i>[Signature]</i> (SIGNATURE)	12/22/93

DISTRIBUTION: ORIGINAL AND YELLOW COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY.
 PINK COPY RETAINED BY SAMPLERS. YELLOW COPY RETAINED BY LABORATORY.

- *SOURCE CODES
- RECOVERY WELL - RW
 - NPDES DISCHARGE - ND
 - RCRA MONITORING WELL - MW
 - DRINKING WATER - DW
 - SOIL / SEDIMENT - SO
 - HAZARDOUS WASTE - HW
 - SLUDGE - SL
 - NON-AQUEOUS - NA
 - SURFACE WATER - SW

REMARKS



Law Environmental, Inc.
 7215 Pine Forest Road
 Pensacola, Florida 32526
 904/944-9772

Analytical Request Form

To: E.E.N.L.

Attn: Sample Receiving

From: Raleigh / Law Envir
 (Branch/Company Name)

Jamie Mitchell
 (Dept or Name)

COC Number: 7644

Project Name: 09131-02
Montgomery Ward

Project Number: 09131-02

Date Shipped: 12-22-93

Date results requested: 2 wks

Sample ID	Analysis Requested	Detection Limits Req.	Sample Type	Method
Stockpile	8 ALAA metals, TPH, etc	std	soil	3550/5030 8000A metals, TPH 8240, 8270 8080
UST Excavation	TPH	std	soil	3550/5030

Comments:

APPENDIX B

**SITE INVESTIGATION REPORT FOR PERMANENT
CLOSURE OF U.S.T.
AND
UST SITE INVESTIGATION SUMMARY REPORT**



(GW/UST-2) Site Investigation Report For Permanent Closure or Change-in-Service of U.S.T.

FOR
TANKS
IN
NC

Return Completed Form To:
The appropriate DEM Regional Office according to the county of the facility's location.
[SEE MAP ON REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL OFFICE ADDRESS].

State Use Only
I.D. Number _____
Date Received _____

INSTRUCTIONS

Complete and return within (30) days following completion of site investigation.

I. Ownership of Tank(s)

II. Location of Tank(s)

Montgomery Ward & Co., Inc.
Owner Name (Corporation, Individual, Public Agency, or Other Entity)
Montgomery Ward Plaza
Street Address
Chicago, IL 60671
County
City State Zip Code
312-467-2000
Area Code Telephone Number

Montgomery Ward Auto Express #1136
Facility Name or Company
Facility ID # (if available)
2320 Sunset Avenue
Street Address or State Road
Edgcombe Rocky Mount 27801
County City Zip Code
919-443-4111
Area Code Telephone Number

III. Contact Person

Ted Strand Field Engineer 813-796-8950
Name Job Title Telephone No. (Area Code)
Closure Contractor Law Engineering 3301 Atlantic Ave., N.C. 919-876-0416
(Name) (Address) Telephone No. (Area Code)
Lab Law Environmental National Labs Pensacola, FL 904-944-9772
(Name) (Address) Telephone No. (Area Code)

IV. U.S.T. Information

V. Excavation Condition

VI. Additional Information Required

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in Excavation		Free Product		Notable Odor or Visible Soil Contamination	
				Yes	No	Yes	No	Yes	No
1	265	36" x 60"	No. 2 Fuel Oil		X	X		X	

See reverse side of pink copy (owner's copy) for additional information required by N.C. - DEM in the written report and sketch.

VII. Check List

Check the activities completed.

- Contact local fire marshal
 - Notify DEM Regional Office before abandonment.
 - Drain & flush piping into tank.
 - Remove all product and residuals from tank
 - Excavate down to tank
 - Clean and inspect tank
 - Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures.
 - Cap or plug all lines except the vent and fill lines.
 - Purge tank of all product & flammable vapors.
 - Cut one or more large holes in the tanks.
 - Backfill the area.
- Date Tank(s) Permanently closed: December 22, 1993
Date of Change-In-Service: _____

- ABANDONMENT IN PLACE**
- Fill tank until material overflows tank opening;
 - Plug or cap all openings;
 - Disconnect and cap or remove vent line
 - Solid inert material used - specify: _____

- REMOVAL**
- Create vent hole
 - Label tank
 - Dispose of tank in approved manner
- Final tank destination: Noble Oil Services

VIII. Certification (Read and Sign)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Print name and official title of owner or owner's authorized representative: James D. McCutchen, Jr., Staff Engineer Signature: James D. McCutchen Jr. Date Signed: 1-24-94

UST SITE INVESTIGATION SUMMARY REPORT

Summary of Written Report

- A) Probable Source(s) of Contamination
- one 265-gallon capacity fuel oil UST
- B) Field Screening Methods Used
- Foxboro Organic Vapor Analyzer (OVA)
- C) Field Screening Results

Sample ID	Sample Depth (ft bls)	Sample Type	OVA Results
S-1	3.0	Soil	1000 +
S-2	3.0	Soil	1000 +
C-1	Stockpile Composite	Soil	600
B-1	5.5	Soil	1000
B-2	5.5	Soil	500

ft bls - feet below land surface

- D) Facility Status
- Active
- E & F) Copy of Chain of Custody and Lab Report
- See Appendix A
- G) Quantity of Soil Excavated
- Approximately 15 cubic yards
 - Did not remove all contaminated soil
- H) Method of Temporary Storage or Disposal of Soil
- Stockpiled on and covered with plastic on-site

Summary of Sketches and Drawings

- Drawing 1.1 - Topographic Site Map
Drawing 1.2 - Site Map
Drawing 2.1 - Excavation and Sample Location Map





Nash Brick Company

P. O. Box 962, 316 Earl Street, Rocky Mount, N. C. 27802-0962
 Plant Telephone: (919)443-4965 Rocky Mount Office: (919)446-3804
 (800)662-6274
 Plant Fax: (919)443-4061 Rocky Mount Fax: (919)446-7398

Date:

2-25-94

To:

REGIONAL SUPERVISOR

Company:

Raleigh Regional Office

Fax Number:

From:

STEVEN J. BROCKWIDE



American Soils Corporation

Keeping America Clean

GENERATOR INFORMATION

PROJECT APPROVAL NO. (for ASC use only): NB1032

COMPANY NAME: Montgomery Ward and Co., Inc.

ADDRESS: 140 Clearwater Mall

Clearwater, Florida

CONTACT: Mr. Ted Strand

PHONE: (813) 796-8950 FAX: () Same

REPRESENTATIVE OF GENERATOR

COMPANY NAME: Law Engineering

ADDRESS: 3301 Atlantic Avenue

Raleigh, North Carolina 27604

CONTACT: Mr. James D. McCutchen, Jr., E.I.T.

PHONE: (919) 876-0416 FAX: (919) 872-3253

JOB SITE

LOCATION: Tarrytown Mall, Rocky Mount, North Carolina

Site Map Attached

APPROXIMATE TONNAGE: 22.5 CONTAMINATE: Fuel oil/diesel

17yd³

TRUCKING REQUEST

GENERATOR REQUESTS AN INITIAL SHIPMENT DATE OF 2/24/94.

GENERATOR WILL BE MOVING APPROXIMATELY 22.5 TONS PER DAY.

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Environmental Management

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
A. Preston Howard, Jr., P.E., Director



GROUNDWATER SECTION

April 25, 1994

RECEIVED

APR 26 1994

DEHNR-RAL RO

Mr. T.L. Strand
Montgomery Ward and Company, Inc.
Field Engineering - S.E. Region
140 Clearwater Mall
Clearwater, FL 34624

RE: Montgomery Ward Retail Store #1136, Tarrytown Center
2320 Sunset Ave., Rocky Mt, Edgecombe County, N.C.

Dear Mr. Strand:

Please find enclosed an application for coverage under the North Carolina Leaking Petroleum Underground Storage Tank Cleanup Funds that was returned to the Pollution Control Branch on April 21, 1994 by the Raleigh Regional Office. This application is for eligibility determination for one 265 gallon fuel oil underground storage tank at the above referenced site.

The State Trust Fund cannot review applications which are incomplete. If the date of acquisition of the UST is unknown, please indicate when the property was acquired and if the tank was in place at that time. Also insert the date for item 4b. on page 2 of 2 and provide documentation of the last product addition to the tank (most commonly in the form of a receipt from the supplier).

Processing will be concluded upon this office's receipt of the properly executed application. Should you wish to discuss this, please don't hesitate to contact me at 441 North Harrington Street, Raleigh N.C., 27603-1323 or telephone (919) 733-1332.

Sincerely,

George C. Matthis, Jr., Supervisor
State Trust Fund Group

cc: ✓ Tom Arrington

NORTH CAROLINA
 ENVIRONMENTAL MANAGEMENT COMMISSION
 DEPARTMENT OF ENVIRONMENT, HEALTH & NATURAL RESOURCES

AHN JAY
 21 MAR 1996

APPLICATION FOR PERMIT TO CONSTRUCT A MONITORING WELL SYSTEM

Date: February, 19 96 County Nash

In accordance with the provisions of Article 7, Chapter 87, General Statutes of North Carolina and regulations pursuant thereto, application is hereby made for a permit to monitoring wells.

1. Name of Applicant: Montgomery Ward and Co, Inc. Attn: Ted Strand (Telephone: 813-796-8950)
 Applicant's Mailing Address: 140 Clearwater Mall Clearwater, Florida 34624
2. Name of Property Owner (if different from applicant) Mid-Atlantic Centers Limited Partnership
 Owner's Mailing Address: 4350 Eastwood Highway Suite 400 Bethesda, Maryland 20814
3. Contact Person: Bill Howell (Telephone: 919-443-5128)
4. Location of Property: Tarrytown Mall in Rocky Mount, N.C.
5. Reason for Monitoring Well(s): adequate monitoring system for natural attenuation and degradation
 (exc nondischarge permit requirements, suspected contamination, environmental assessment, etc.)
6. Type of facility or site for which the monitoring well(s) is needed: commercial property; Mall Parking Lot
 (exc nondischarge facility, waste disposal site, landfill, underground storage tank, etc.)
7. Type of contamination being monitored (if applicable): Petroleum Hydrocarbons
 (exc nutrients, organics, heavy metals, etc.)
8. Are any existing recovery wells associated with the monitoring well(s)? yes If yes, how many? 1
 Recovery Well Construction Permit No. RW-1
9. Distance to a known waste or pollution source: 500 feet
10. Are any water supply wells located less than 500 feet from the proposed monitoring wells? no
 If yes, give distance: _____ feet
11. Well Driller: Law Engineering
12. Registration #: 332
13. Driller's Address: 3301 Atlantic Avenue, Raleigh, N.C. 27604

PROPOSED MONITORING WELL CONSTRUCTION INFORMATION

1. Total Number of Wells to be constructed: 1 ; (A) Number to be completed in bedrock? 0
 (B) Number to be completed in unconsolidated material? 1
2. Estimated depth of well(s): 15 feet
3. Gravel or sand pack interval (if appropriate)
 From 3 feet To 15 feet
4. Type of casing used: PVC
 (exc PVC, stainless steel, galvanized steel, etc.)
5. Diameter of casing: 2 inches

FOR OFFICE USE ONLY	
<input type="checkbox"/>	PERMITTED ACTIVITY
<input type="checkbox"/>	U.S.T. LEAK DETECTION
<input checked="" type="checkbox"/>	GROUNDWATER QUALITY STANDARDS VIOLATIONS SUSPECTED FROM UNPERMITTED ACTIVITIES
<input type="checkbox"/>	NOTICE OF NON-COMPLIANCE AT UNPERMITTED FACILITIES
PERMIT NO. <u>WMO500310</u>	ISSUED <u>July</u> 19 <u>96</u>
INCIDENT # _____	

6. Thickness of casing: SCH 40 inches
7. How will the well(s) be secured? bolted manhole cover and locking well cap
8. Estimated beginning construction date: upon receipt of permit approximately 2 weeks
9. Estimated completion date: 1 day

ADDITIONAL INFORMATION

1. ATTACH A SITE MAP SHOWING THE LOCATIONS OF THE FOLLOWING:
- 1. PROPOSED MONITORING WELL(S)
 - 2. ALL EXISTING MONITORING AND RECOVERY WELLS OR TEST BORINGS WITH THE PROPERTY BOUNDARY
 - 3. ALL WATER SUPPLY WELLS WITHIN 500 FEET OF THE WASTE SOURCES
 - 4. AT LEAST TWO REFERENCE POINTS (NUMBERED ROADS, INTERSECTIONS, STREAMS, ETC)
2. PROVIDE A WELL CONSTRUCTION DIAGRAM OF EACH WELL SHOWING DIAMETER, ESTIMATED DEPTH, SCREEN INTERVALS, SAND/GRAVEL PACKS, TYPE OF CASING MATERIAL, CASING WALL THICKNESS, WELL HEAD COMPLETION DETAILS, ETC.)
-
-

The Applicant hereby agrees the proposed well(s) will be constructed in accordance with approved specifications and conditions of the Well Construction Permit as regulated under the Well Construction Standards (Title 15A North Carolina Administrative Code, Subchapter 2C) and accepts full responsibility for compliance with these rules.

Shm 2/14

Signature of Applicant or Agent

Project Engineer

Title (if applicable)

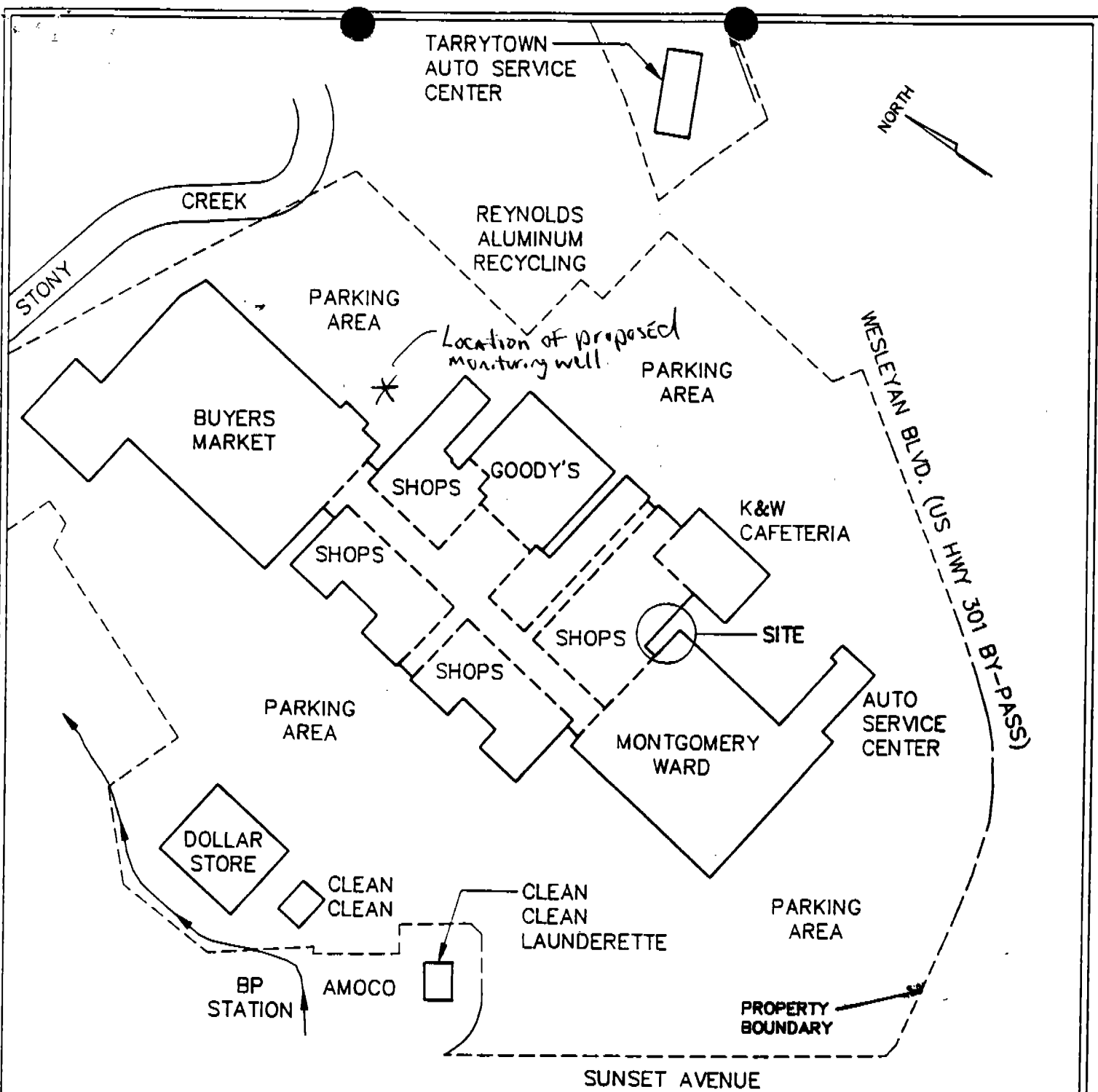
If the property is owned by someone other than the applicant, the property owner hereby consents to allow the applicant to construct monitoring wells as outlined in this application and that it shall be the responsibility of the applicant to ensure that these monitoring wells conform to the Well Construction Standards (Title 15A North Carolina Administrative Code, Subchapter 2C).

Signature of Property Owner (if different from applicant)

MID-ATLANTIC CENTERS
LIMITED PARTNERSHIP

BY: First Washington
Management, Inc.
Its authorized agent

By: [Signature] 6/20/96
Authorized Signatory



LEGEND

← DRAINAGE FEATURE



LOCATIONS ARE APPROXIMATE.

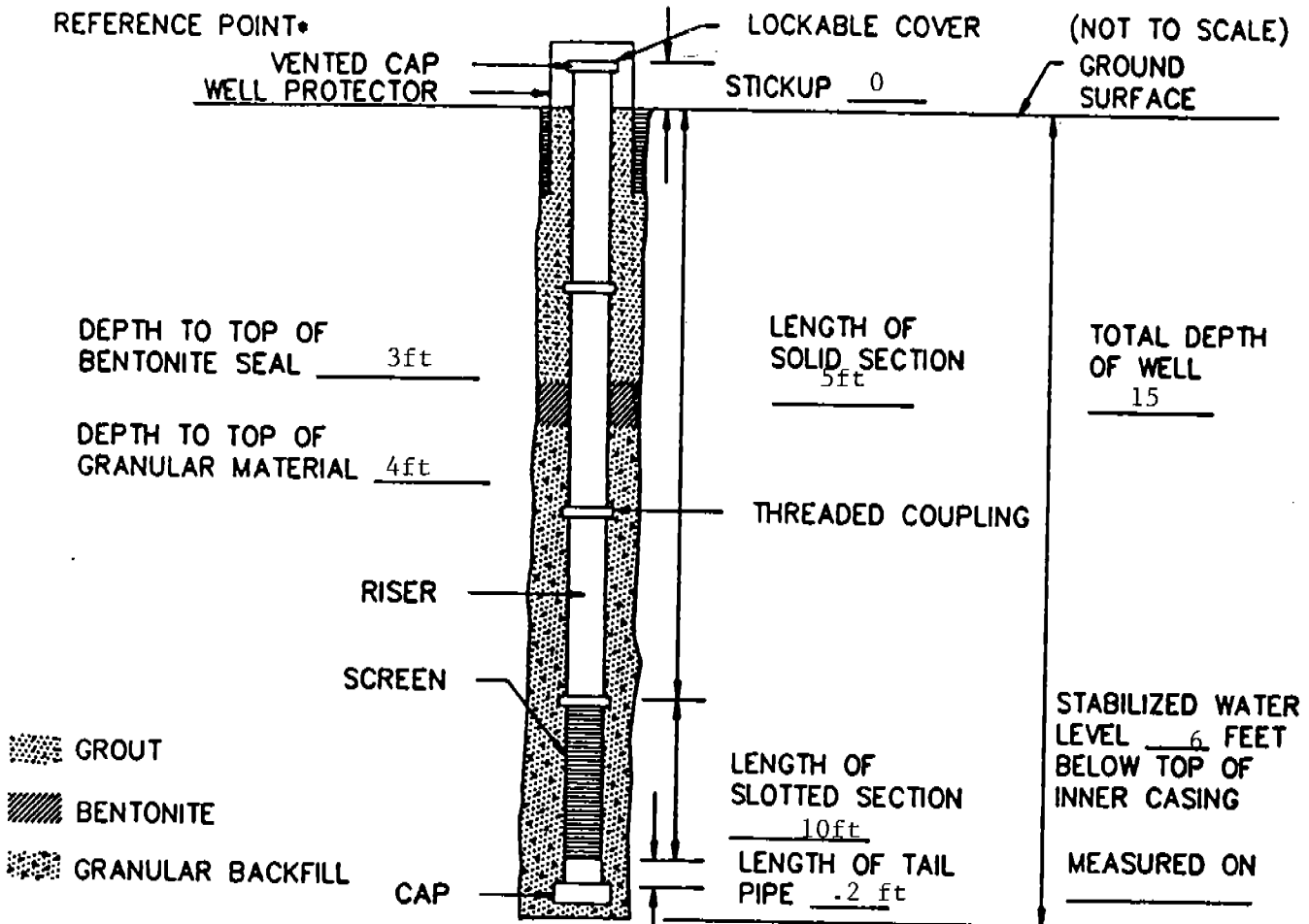
LAW ENGINEERING
RALEIGH, NORTH CAROLINA

SITE LOCATION MAP
 MONTGOMERY WARD
 ROCKY MOUNT, NORTH CAROLINA

DRAWN: <i>WBJ</i>	DATE: JAN. 1994
DFT CHECK: <i>JT</i>	SCALE: 1"=200'
ENG CHECK: <i>JOB</i>	JOB: 475-09131-02
APPROVAL: <i>JOB</i>	DWG: 1.2

Proposed **TYPE II MONITORING WELL INSTALLATION RECORD**

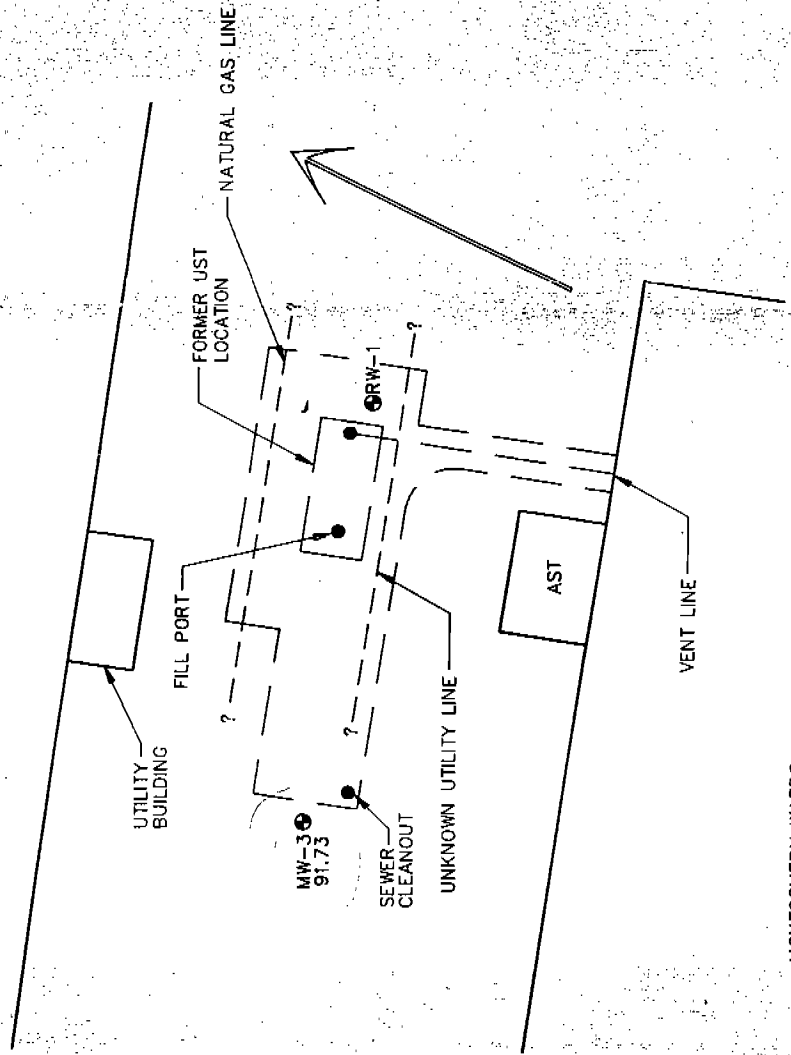
JOB NAME Montgomery Ward JOB NUMBER 30742-5-0173
 WELL NUMBER MW-3 INSTALLATION DATE April 96
 LOCATION Downgradient
 GROUND SURFACE ELEVATION _____ REFERENCE POINT ELEVATION • _____
 GRANULAR BACKFILL MATERIAL Sand SLOT SIZE 10
 SCREEN MATERIAL PVC SCREEN DIAMETER 2 in
 RISER MATERIAL PVC RISER DIAMETER 2 in
 DRILLING TECHNIQUE Auger DRILLING CONTRACTOR Law
 BOREHOLE DIAMETER 8-12 in LAW ENGINEERING FIELD REPRESENTATIVE Jeff Mann
 LOCK BRAND _____ SIZE/MODEL _____
 KEY CODE/COMBINATION _____



*REFERENCE POINT SHOULD BE TOP OF INNER CASING IF POSSIBLE.

NORTH

SHOPS



MW-2
91.67

MW-1
91.74

LEGEND

- MW-1 MONITORING WELL LOCATION
- 91.73 STATIC WATER LEVEL (4/4/94)
- RW-1 RECOVERY WELL LOCATION
- EXCAVATION BOUNDARIES
- AST ABOVEGROUND STORAGE TANK
- ESTIMATED GROUNDWATER FLOW DIRECTION

NOTE: SITE LOCATIONS ARE APPROXIMATE.



LAW ENGINEERING
RALEIGH, NORTH CAROLINA

DRAWN: <i>WPA</i>	DATE: MAY 1994
DFT CHECK: <i>WCA</i>	SCALE: 1"=5'
ENG CHECK: <i>ZLL</i>	JOB: 475-09131-02
APPROVAL: <i>gms</i>	DWG: 2.2



MONITORING WELL LOCATION MAP AND ESTIMATED
GROUNDWATER FLOW DIRECTION
MONTGOMERY WARD
ROCKY MOUNT, NORTH CAROLINA

REFERENCE: FIELD NOTES, WELL SURVEY 4/4/94.

State of North Carolina
Department of Environment,
Health and Natural Resources
Raleigh Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary



DIVISION OF WATER QUALITY

July 12, 1996

Montgomery Ward Co., Inc.
Attention: Mr. Ted Strand
140 Clearwater Mall
Clearwater, Florida 36424

Subject: Well Construction Permit
No. WM0500310
Nash County

Dear Mr. Strand:

In accordance with the application received on July 10, 1996, we are forwarding herewith Well Construction Permit No. WM0500310 dated July 12, 1996 issued for the construction of a monitor well system.

This Permit will be effective from the date of its issuance and shall be subject to the conditions and limitations as specified therein. Please note the addition of stipulation #2 to the permit enclosed.

Sincerely,

Judy Ganett
for Kenneth Schuster, P.E.
Regional Supervisor
Raleigh Regional Office

KS:JWG:imw
Enclosure

cc: Groundwater Files
Nash County Health Department
Bob Cheek
Law Environmental Inc.
Attention: Ms. Sherrie Knots
3301 Atlantic Avenue
Raleigh, NC 27604

H:\Monitwel\Nash.ks

3800 Barrett Drive, Suite 101,
Raleigh, North Carolina 27609
Voice 919-571-4700



FAX 919-571-4718
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NORTH CAROLINA
ENVIRONMENTAL MANAGEMENT COMMISSION
DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
RALEIGH, NORTH CAROLINA
PERMIT FOR THE CONSTRUCTION OF A WELL

In accordance with the provisions of Article 7, Chapter 87, North Carolina General Statutes, and other applicable Laws, Rules and Regulations.

PERMISSION IS HEREBY GRANTED TO
Montgomery Ward and Co., Inc.

FOR THE CONSTRUCTION OF A MONITOR WELL SYSTEM on property owned by Mid-Atlantic Centers Limited Partnership located at Tarrytown Mall, Highway 301, Rocky Mount, Nash County, North Carolina. This permit is issued in accordance with the application received on July 10, 1996; and in conformity with specifications and supporting data, all of which are filed with the Department of Environment, Health and Natural Resources and are considered a part of this permit.

This Permit is for well construction only and does not waive any provision or requirement of any other applicable law or regulation.

Construction of a well under this Permit shall be in compliance with the North Carolina Well Construction Regulations and Standards (15A NCAC 2C .0108), other State and Local laws and regulations pertaining to monitoring well construction.

This permit will be effective from the date of its issuance until July 12, 1997, and shall be subject to other specified conditions, limitations, or exceptions as follows:

1. Issuance of this permit does not obligate reimbursement from state trust funds, if these wells are being installed as part of an investigation for contamination from an underground storage tank.
2. Issuance of this permit does not supersede any other agreement, permit, or requirement.
3. In the event that additional monitor wells are to be constructed on the subject property, this permit shall be valid for said well construction upon receipt of the following documentation:
 - a) Proof of notification to the appropriate property owner(s) stating intention to construct additional wells, the number of wells to be constructed, and signatures by the property owner(s) and subject applicant(s) or their agent(s).
 - b) Revised site map with information as required by the original well construction application.
 - c) Well construction diagram for additional wells with information as required by the original well construction application.

Permit issued this the 12th day of July, 1996.

FOR THE NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION



Kenneth Schuster, P.E., Regional Supervisor
Division of Environmental Management

By Authority of the Environmental Management Commission
Permit No. WM0500310

MONITORING WELL CASING AND WATER ELEVATION WORKSHEET

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

3301 ATLANTIC AVENUE

RALEIGH, NORTH CAROLINA 27604

PROJECT NAME Montgomery Ward **JOB NUMBER** 30742-5-0173/03
LOCATION Rocky Mount, North Carolina **DATE** March 7, 1997

DESCRIPTION OF SURVEY DATUM: Assumed datum 100.00 feet.

FIELD PERSONNEL Fischer

MEASURING DEVICE(S) Water Level Indicator

WELL NUMBER	MEASURING POINT CALCULATIONS			DEPTH TO WATER (FT)	ELEV OF WATER (FT)	PRODUCT THICKNESS (FT)	COMMENTS (ODOR, WELL COND., PROTECTIVE COVER CONDITION)
	ROD HEIGHT (FT)	INSTRUMENT HEIGHT (FT)	ELEV OF MEASURING POINT (1) (FT)				
BM	5.12	5.12	100.00				
MW-1	5.96		99.16	7.25	91.91	ND	
MW-2	6.06		99.06	7.23	91.83	ND	
MW-3	5.50		99.62	7.79	91.83	ND	
MW-4			96.37	8.19	88.18	ND	
RW-1						ND	

(1) Measuring point top of casing unless otherwise noted.
 ND None detected; equipment capable of measuring 0.01 feet.

MONITORING WELL CASING AND WATER ELEVATION WORKSHEET

LAW ENGINEERING AND ENVIRONMENTAL SERVICES , INC.

3301 ATLANTIC AVENUE

RALEIGH, NORTH CAROLINA 27604

PROJECT NAME Montgomery Ward JOB NUMBER 30742-5-0173/03
 LOCATION Rocky Mount, North Carolina DATE December, 6 1996

DESCRIPTION OF SURVEY DATUM: Assumed datum 100.00 feet.

FIELD PERSONNEL Fischer

MEASURING DEVICE(S) Water Level Indicator

WELL NUMBER	MEASURING POINT CALCULATIONS			DEPTH TO WATER (FT)	ELEV OF WATER (FT)	PRODUCT THICKNESS (FT)	COMMENTS (ODOR, WELL COND., PROTECTIVE COVER CONDITION)
	ROD HEIGHT (FT)	INSTRUMENT HEIGHT (FT)	ELEV OF MEASURING POINT (1) (FT)				
BM	5.12	5.12	100.00				
MW-1	5.96		99.16	7.49	91.67	ND	
MW-2	6.06		99.06	7.46	91.60	ND	
MW-3	5.50		99.62	8.01	91.61	ND	
MW-4			96.37	7.83	88.54	ND	
RW-1						ND	

(1) Measuring point top of casing unless otherwise noted.
 ND None detected; equipment capable of measuring 0.01 feet.

MONITORING WELL CASING AND WATER ELEVATION WORKSHEET

LAW ENGINEERING AND ENVIRONMENTAL SERVICES , INC.

3301 ATLANTIC AVENUE

RALEIGH, NORTH CAROLINA 27604

PROJECT NAME Montgomery Ward **JOB NUMBER** 30742-5-0173/03
LOCATION Rocky Mount, North Carolina **DATE** September 5, 1996

DESCRIPTION OF SURVEY DATUM: Assumed datum 100.00 feet.

FIELD PERSONNEL Fischer

MEASURING DEVICE(S) Water Level Indicator

WELL NUMBER	MEASURING POINT CALCULATIONS			DEPTH TO WATER (FT)	ELEV OF WATER (FT)	PRODUCT THICKNESS (FT)	COMMENTS (ODOR, WELL COND., PROTECTIVE COVER CONDITION)
	ROD HEIGHT (FT)	INSTRUMENT HEIGHT (FT)	ELEV OF MEASURING POINT (1) (FT)				
BM	5.12	5.12	100.00				
MW-1	5.96		99.16	7.39	91.77	ND	
MW-2	6.06		99.06	7.35	91.71	ND	
MW-3	5.50		99.62	7.91	91.71	ND	
MW-4			96.37	9.43	86.94	ND	
RW-1						ND	

(1) Measuring point top of casing unless otherwise noted.
 ND None detected; equipment capable of measuring 0.01 feet.

MONITORING WELL CASING AND WATER ELEVATION WORKSHEET

LAW ENGINEERING AND ENVIRONMENTAL SERVICES , INC.

3301 ATLANTIC AVENUE

RALEIGH, NORTH CAROLINA 27604

PROJECT NAME Montgomery Ward JOB NUMBER 30742-5-0173/03
 LOCATION Rocky Mount, North Carolina DATE April 4, 1994

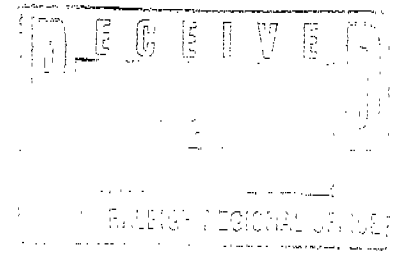
DESCRIPTION OF SURVEY DATUM: Assumed datum 100.00 feet.

FIELD PERSONNEL J. McCutchem/Fischer

MEASURING DEVICE(S) Level, Stadia Rod, Water Level Indicator

WELL NUMBER	MEASURING POINT CALCULATIONS			DEPTH TO WATER (FT)	ELEV OF WATER (FT)	PRODUCT THICKNESS (FT)	COMMENTS (ODOR, WELL COND., PROTECTIVE COVER CONDITION)
	ROD HEIGHT (FT)	INSTRUMENT HEIGHT (FT)	ELEV OF MEASURING POINT (1) (FT)				
BM	5.12	5.12	100.00				
MW-1	5.96		99.16	7.42	91.74	ND	
MW-2	6.06		99.06	7.39	91.67	ND	
MW-3	5.50		98.38	10.39	99.62	ND	
RW-1						*0.02	

(1) Measuring point top of casing unless otherwise noted.
 ND None detected; equipment capable of measuring ±0.01 feet.
 MW-4 was not present on the site during this sampling event
 * Measured the winter of 1994-95



LAW
LAWGIBB Group Member 

**RISK CHARACTERIZATION REPORT
MONTGOMERY WARD STORE
ROCKY MOUNT, NORTH CAROLINA**

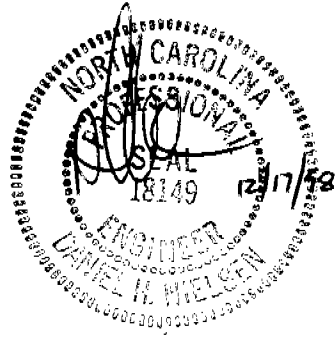
**INCIDENT NO. 11742
RISK CLASSIFICATION: LOW**

Prepared For:

*Montgomery Ward
Frederick Town Mall
West Patrick Street
Frederick, Maryland 21701*

Prepared By:

*Law Engineering and Environmental Services, Inc.
3301 Atlantic Avenue
Raleigh, N.C. 27604*



December 8, 1998

Daniel H. Nielsen

LAW Job No. 30741-8-3311

LAW
LAWGIBB Group Member 

December 17, 1998

North Carolina Department of Environment and
Natural Resources
Division of Solid Waste Management
UST Group
3800 Barrett Drive
Suite 101
Raleigh, North Carolina 27609



Attention: Mr. Bob Davies

Subject: **Risk Characterization Report and Request for "No Further Action" Status
Montgomery Ward Store
Rocky Mount, North Carolina
LAW Job No. 30741-8-3311**

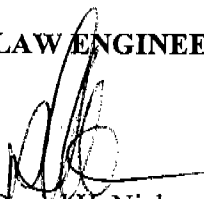
Dear Mr. Davies:

On behalf of Montgomery Ward, Law Engineering and Environmental Services, Inc. (LAW) has prepared this Risk Characterization Report for the Montgomery Ward Store in Rocky Mount, North Carolina. It is our opinion that the information gathered during the course of work and detailed in the attached report supports a classification of this site as Low Risk. Therefore, we request that you issue a notification of No Further Action in accordance with 15A NCAC 2L.0115(h).

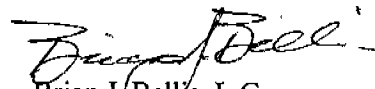
We look forward to receipt of your response. If any questions arise, please contact us at (919) 876-0416 or Gary Pozzoulli with Montgomery Ward at 301-620-0841.

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.



Daniel H. Nielsen, P.E.
Principal Engineer



Brian J. Bellis, L.G.
Principal Hydrogeologist

Attachment

Report

Cc: Gary Pozzoulli (Cover letter only)

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1.0 PURPOSE AND INTRODUCTION

In accordance with Law Proposal No. 30741-8-5977 dated November 5, 1998, Law Engineering and Environmental Services, Inc (LAW) has prepared this Risk Characterization report for the Montgomery Ward Store in Rocky Mount, North Carolina. Our objective was to evaluate existing site data with respect to new Risk Based Corrective Action for Petroleum Underground Storage Tanks (RBCA) rules and provide an appropriate risk classification for the site. This report will be provided to the North Carolina Division of Waste Management (NCDWM), Underground Storage Tank Section, Raleigh Regional Office for their review.

The UST site is located in an alley behind the Montgomery Ward Store at the Tarrytown Mall in Rocky Mount, Nash County, North Carolina (Drawing 1.1). Groundwater and soil near a 265-gallon capacity UST has been contaminated by leaking No. 2 fuel oil. The release from the tank was detected when the tank was removed on December 22, 1993. Free product has been detected on an intermediate basis in one well installed within the UST excavation. Subsequent to the discovery of the release, the lateral and vertical extent of petroleum in the soil and groundwater has been defined. A Corrective Action Plan was developed and implemented at the site. The Plan included passive recovery of free product, bioventilation of soil and natural attenuation of groundwater. In September 1996 the biovent system went into operation. The biovent system operation and groundwater monitoring program continued until July 1997.

2.0 CURRENT SITE REGULATORY STATUS

RBCA rules for petroleum USTs contained in 15A NCAC 2L .0115 became effective on January 2, 1998. Releases reported prior to January 2, 1998 that were previously designated as Class A or B were automatically reclassified as High Risk according to 15A NCAC 2L .0115(r). Discharges or releases that were previously designated as Class C, D or E were automatically reclassified as Low Risk by the same rule. The responsible party should determine if the automatically assigned risk classification is appropriate for the site. For sites that did not have a class ranking prior to January 2, 1998, the existing site data must be evaluated to determine the appropriate ranking under the new RBCA rules. We will evaluate the current Risk Classification criteria for the site in the following sections of this report.

3.0 SITE CHARACTERIZATION

3.1 Background Information

Incident Number:

11742

Previous Site Ranking:

E

Contaminant type:

No. 2 Fuel Oil

Source:

265-gallon capacity UST

Quantity released:

Undetermined

Date of release discovery:

December 22, 1993 during tank removal process

Cause of release:

Leaking UST

Summary of initial abatement/remedial actions:

Tank was removed and 15 cubic yards of soil were removed in December 1993.

Summary of assessment and additional remedial activities:

A Preliminary Site Contamination Assessment was prepared in May 1994. A Corrective Action Plan was prepared in January 1996. The remedial system was operational starting in September 1996.

3.2 List of Previous Environmental Reports

NO.	REPORT TITLE	DATE	AUTHOR
1	Report of Environmental Services and Closure of One 265-Gallon Underground Storage Tank	2/14/94	Law Engineering
2	Report of Preliminary Site Contamination Assessment	5/26/94	Law Engineering
3	Corrective Action Plan	1/30/96	Law Engineering
4	Report of Biovent system and Groundwater Monitoring (3 Reports)	10/96 through 4/97	Law Engineering

4.0 RISK CHARACTERIZATION

The criteria listed below have been used to determine the appropriate risk classification for the site. If the criteria for more than one risk category apply, the site will be classified as the highest applicable risk classification.

4.1 High Risk

A high risk classification will be assigned to the site if one of the following characteristics apply to the site.

1) *Has the discharge or release contaminated any water supply well including any used for non-drinking purposes? If yes, explain.*

No. The plume has been delineated as shown in Report 4 (April 1997), Drawing 3. There are no water supply wells identified within the plume area.

2) *Is a water supply well used for drinking water located within 1000 feet of the source area of the discharge or release?*

No. Based on observations recorded during a vehicular field reconnaissance, there is no evidence of drinking water supply wells located within 1000 feet of the source area.

- 3) *Is a water supply well used for any purpose (e.g. irrigation, washing cars, industrial cooling water, filling swimming pools) located within 250 feet of the source area of the release or discharge?*

No. Based on observations recorded during a vehicular field reconnaissance, there is no evidence of water supply wells located within 250 feet of the source area.

- 4) *Does groundwater within 500 feet of the source area of the discharge or the release have the potential for future use in that there is no other source of water supply other than groundwater? Explain.*

No. The area within 500 feet of the release source is entirely contained within the property boundary of Tarrytown Mall. The mall is provided water service from the Rocky Mount municipal system. Therefore, it is unlikely that groundwater within 500 feet of the release site will be developed a water supply source.

- 5) *Do vapors from the discharge or release pose a threat of explosion because of accumulation of the vapors in a confined space or pose any other serious threat to public health, public safety, or the environment? If yes, explain.*

No. Review of previous environmental reports does not provide evidence to suggest the potential threat of explosion because of accumulation of the vapors in a confined space or pose any other serious threat to public health, public safety, or the environment. The petroleum released is a relatively low volatility hydrocarbon, No. 2 fuel oil. Utilities are limited in this area and do not consist of subsurface vaults. These factors all minimize the potential threat imposed by explosive vapors.

- 6) *Are there any other factors that would cause the discharge or release to pose an imminent danger to public health, public safety, or the environment? If yes, explain.*

No. Review of previous environmental reports does not provide evidence to suggest other factors that would cause the discharge or release to pose an imminent danger to public health, public safety, or the environment.

4.2 Intermediate Risk

An intermediate risk classification will be assigned to the site if one of the following characteristics apply to the site.

- 1) *Is a surface water body located within 500 feet of the source area of the discharge or release? If yes, does the maximum groundwater contaminant concentration exceed the surface water quality standards and criteria found in 15A NCAC 2B .0200 by a factor of 10?*

No. Based on USGS topographic map, Rocky Mount, the nearest surface water body is Stony Creek. Stony Creek is approximately 700 feet north of the release area.

- 2) *Is the source area of the discharge or release located within a designated wellhead protection area as defined in 42 USC 300h-7(e)? If yes, explain.*

No. Wellhead protection areas defined by 42 USC 300h-7(e) have not, as of this time, been designated by the State.

- 3) *Is the discharge or release located in the Coastal Plain physiographic region as designated on a map entitled "Geology of North Carolina" published by the Department in 1985? If yes, is the source area of the discharge or release located in an area in which there is a recharge to an unconfined or semi-confined deeper aquifer that is being used or may be used as a source of drinking water? If yes, explain.*

Yes, the site is located in the Coastal Plain physiographic region. While there is likely recharge to the unconfined surficial aquifer at the Site, this aquifer is not used for water supply. Deeper aquifers may obtain a portion of recharge from the surficial aquifer at the Site; however, the amount of recharge provided by the surficial aquifer is expected to be substantially limited due to the presence of confining units. These conditions imply that the shallow groundwater contamination detected at this site does not pose a substantial risk to the quality of groundwater in deeper aquifers.

- 4) *Do the levels of groundwater contamination for any contaminant exceed the gross contaminant levels established by the Department?*

No. Based on contaminant concentration data contained in Appendix B of the April 1997 issue of Report 4, contaminant concentrations do not exceed gross contaminant levels.

- 5) *Is free product present in groundwater at the site?*

No. Free product in the form of a sheen at RW-1 has been observed at the site. The thickness of the product cannot be measured with an electronic interface probe that has a detection capacity of 0.01 feet (1/8 inch). A passive Keck bailer has been placed in RW-1 and recovered no product because of the extremely limited volume of product present at the site (Report 4; October 1996, January 1997 and April 1997 issues).

4.3 Low Risk

A low risk classification means that the risk posed by the discharge or release does not meet any of the high or intermediate risk criteria or that, based on site-specific information, the release is shown to pose no significant risk.

Based on criteria above, the site currently meets the low risk category.

4.4 Current Land Use

1) *Does the property contain one or more primary or secondary residences (permanent or temporary)? Explain.*

No. The property is located in the alley behind a store within a Mall, where residences are not located.

2) *Does the property contain a school, daycare center, hospital, playground, park, recreation area, church, nursing home, or other place of public assembly? Explain.*

No. While the property is located adjacent to a store, it is in an alley that is only occasionally frequented by people and does not constitute a place of public assembly.

3) *Does the property contain a commercial (e.g., retail, warehouse, office/business space, etc.) or industrial (e.g., manufacturing, utilities, industrial research and development, chemical/petroleum bulk storage, etc.) enterprise, an inactive commercial or industrial enterprise, or is the land undeveloped? Explain.*

No. The property is located in an alley. However, the alley is located behind a retail store.

4) *Do children visit the property? Explain.*

No. The site is located in an alley that is unlikely to be visited by children.

5) *Is access to the property reliably restricted consistent with its use (e.g., fences, security personnel or both)? Explain.*

No. The site is located in an alley with no restrictions to access. However, it is a dead end alley that does not invite the casual visitor or those passing through to reach other destinations.

- 6) *Do pavement, buildings, or other structures cap the contaminated soil? Explain. If yes, what mechanisms are in place or can be put into place to ensure that the contaminated soil will remain capped in the foreseeable future.*

Yes. The site is covered by concrete and asphalt. The area is very limited in size due to the confinement imposed by the alley and as such, future disturbance of these pavements is unlikely.

- 7) *What is the zoning status of the property?*

The site is zoned for commercial retail.

- 8) *Is the use of the property likely to change in the next 20 years? Explain*

No. The designated use of the shopping center is not likely to change in the foreseeable future.

4.5 Property Surrounding Source Area of Discharge or Release

The following questions pertain to the area within 1500 feet of the source area of the discharge or release (excludes the property containing the release source area)

- 1) *What is the distance from the source area of the release to the nearest primary or secondary residence (permanent or temporary)?*

Based on observations recorded during a vehicular field reconnaissance of the surrounding area, the nearest primary residence is located approximately 1000 feet southwest of the release area.

- 2) *What is the distance from the source area of the release to the nearest school, daycare center, hospital, playground, park, recreation area, church, nursing home or other place of public assembly?*

The source area is located in an alley located within a shopping center mall. The mall also houses the Rocky Mount Charter School.

- 3) *What is the zoning status of properties in the surrounding area?*

The area surrounding the site is primarily zoned for commercial retail. Residential areas are located approximately 1000 feet southwest of the source area.

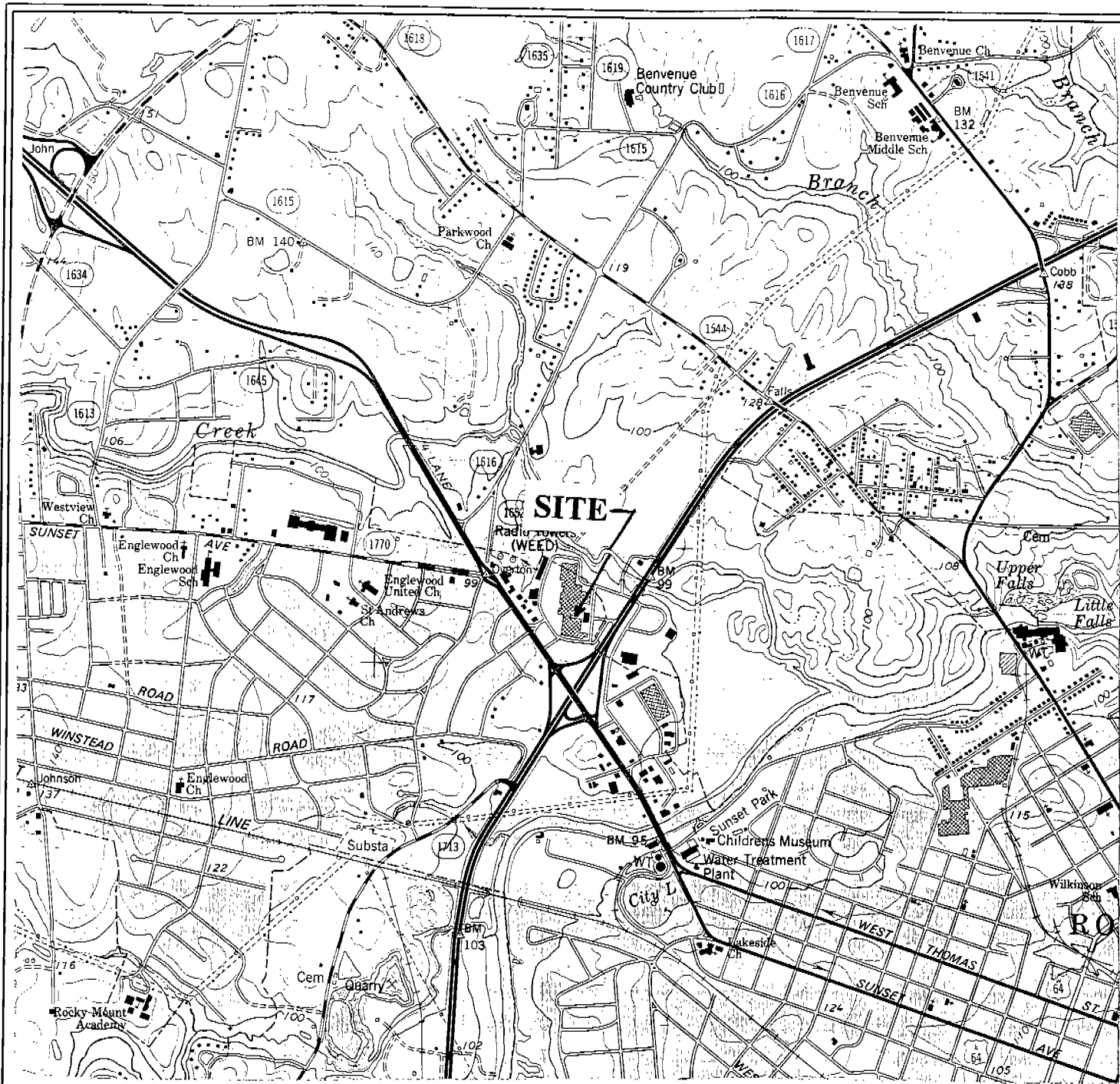
- 4) *Briefly characterize the use and activities of the land in the surrounding area.*

Most of the surrounding area is the Tarrytown Mall and other commercial retail stores. The Rocky Mount Charter School is located within Tarrytown Mall.

5.0 EVALUATIONS AND CONCLUSIONS

The responses to the ten site characterization questions illustrate that the Montgomery Ward UST site in Rocky Mount is a low priority site as defined by the Department. The responses to the eleven land use questions suggest there is little threat to the surrounding community and environment.

Given these circumstances, LAW requests on behalf of Montgomery Ward that the incident number 11742 be assigned "No Further Action" status.



NORTH

ROCKY MOUNT, N.C.
NE/4 ROCKY MOUNT 15' QUADRANGLE
N3552.5-W7745/7.5

1977

AMS 5455 IV NE-SERIES V842

CONTOUR INTERVALS 10 FEET
GRAPHIC SCALE FEET



QUADRANGLE LOCATION

NOTE: SITE LOCATION IS APPROXIMATE.



LAW ENGINEERING AND
ENVIRONMENTAL SERVICES, INC.
RALEIGH, NORTH CAROLINA

TOPOGRAPHIC SITE MAP
MONTGOMERY WARD
ROCKY MOUNT, NORTH CAROLINA

DRAWN: KRT	DATE: DECEMBER 1998
DFT CHECK: BTS	SCALE: 1: 24000
ENG CHECK: DAN	JOB: 30741-8-3311
APPROVAL: BJB	DWG: 1.1

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT AND NATURAL RESOURCES
RALEIGH REGIONAL OFFICE

DIVISION OF WASTE MANAGEMENT
UST SECTION

5 March 1999

JAMES B. HUNT JR.
GOVERNOR

WAYNE McDEVITT
SECRETARY

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Gary Pozzoulli
Montgomery Ward Stores
Frederick Town Mall
West Patrick Street
Frederick, MD 21701

RE: Notice of No Further Action
15A NCAC 2L .0115(h)
RISK-BASED ASSESSMENT AND
CORRECTIVE ACTION FOR
PETROLEUM UNDERGROUND
STORAGE TANKS

*Montgomery Ward-Terrytown Mall
US 301 & Sunset Ave.
Rocky Mount, NC
Nash County
Incident No. 11742
Low Risk Classification*

Dear Mr. Pozzoulli:

On 21 December 1998, the Division of Waste Management (DWM) (*Raleigh Regional Office*) received a Risk Characterization Report with Request for No Further Action for the above-referenced site. A review of the report shows that soil contamination does not exceed the *industrial/commercial maximum soil contaminant concentrations established in 15A NCAC 2L .0115(m) or the soil cleanup levels established by the Department in the "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Groundwater" (March 1997)*.

Based on information provided to date, the DWM determines that no further action is required for this incident. This determination is conditional pending completion of the

public notice specified below. Once proper public notice has been given, this determination will apply unless the DWM later determines that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment.

Please be advised that because contaminated groundwater has not been restored to the level of the standard or interim standard established in 15A NCAC 2L .0202, groundwater within the area of contamination or within the area where contamination is expected to migrate, **is not suitable** for use as a water supply. *Also be advised that because contaminated soil was not cleaned up to the residential maximum soil contaminant concentrations, the property containing soil contamination is not suitable for residential use (e.g., homes, day care centers, schools, recreation areas).]*

Pursuant to 15A NCAC 2L .0115(e), you have a continuing obligation to notify the DWM of any changes that you know of or should know of, that might affect the level of risk assigned to the discharge or release. Such changes include, but are not limited to, changes in zoning of real property, use of real property or the use of groundwater that has been contaminated or is expected to be contaminated by the discharge or release, if such change could cause the DWM to reclassify the risk. Please note that this responsibility not only pertains to changes involving the property on which the release occurred, but to changes involving the surrounding properties as well.

Please be advised that you must comply with the public notice requirements of 15A NCAC 2L .0115(k) as specified below. **If public notice is not provided as required, this no further action determination will be deemed invalid.** Within **30 days** of receipt of this no further action notice, you must provide a copy of this notice to the following persons:

- local health director;
- chief administrative officer (i.e., Mayor, Chairman of the County Commissioners, County Manager, City Manager or other official of equal or similar position) of each political jurisdiction in which the contamination occurs;
- all property owners and occupants within or contiguous to the area containing contamination; and
- all property owners and occupants within or contiguous to the area where the contamination is expected to migrate.

Copies of this no further action notice must be sent to the persons listed above by certified mail. If it is impractical to provide notice by certified mail to the occupants of apartment buildings, condominiums, office buildings, etc., you may post a copy of this notice in a prominent place where the occupants are most likely to see it.

Within **60 days** of receiving this no further action notice, you must provide the DWM (*Raleigh Regional Office*) with proof of receipt of the copy of the notice or of refusal by the addressee to accept delivery of the copy of the notice. If a copy of the notice is posted, you must provide the DWM with a description of the manner in which the notice was posted.

Interested parties may examine the Soil Cleanup Report with Site Closure Request by contacting *Mr. Tom Arrington* at (919) 571-4700 ext 310. In addition, the DWM (*Raleigh Regional Office*) has the Risk Characterization Report with No Further Action Request along with other site information on file and available for public review. Interested parties may arrange to review this information by contacting the regional office as listed below. In addition, comments on the Soil Cleanup Report with Site Closure Request may be submitted to the regional office.

Mr. Tom Arrington
Raleigh Regional Office
3800 Barrett Drive, Suite 101
(919) 571-4700

Please be advised that you must close any monitoring wells or injection wells used to investigate or remediate this incident in accordance with 15A NCAC C .0113 and .0214, respectively. For guidance on closure of infiltration galleries, please contact *the Raleigh Regional Office*.

Should you have any questions concerning this notice, please contact *Tom Arrington, project manager* at (919) 571-4700.

Sincerely,



Robert K. Davies, L.G.
Regional Supervisor
UST Section

Attachments: 15A NCAC c .0113
15A NCAC c .0214
~~Well Abandonment Form~~

cc: Incident Management Files

7 543 101 599

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

MR GARY POZZOULLI
MONTGOMERY WARD STORES
FREDERICK TOWN MALL
WEST PATRICK ST., FREDERICK MD 21701
NO FURTHER ACTION MONTGOMERY WARD-
TERRYTOWN MAIL, ID #11742, ROCKY MOUNT
NASH CO. 3/8/99 — ARRINGTON — UST

Certified Fee	
Special Delivery Fee	

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

5385

MR. GARY POZZOULLI
MONTGOMERY WARD STORES
FREDERICK TOWN MALL
WEST PATRICK ST., FREDERICK MD 21701
NO FURTHER ACTION MONTGOMERY WARD-
TERRYTOWN MAIL, ID #11742, ROCKY MOUNT
NASH CO. 3/8/99 — ARRINGTON — UST

4a. Article Number

2 543 101 599

4b. Service Type

- Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

7. Date of Delivery

3-11-99

5. Received By: (Print Name)

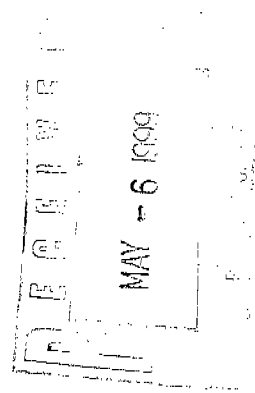
8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)

Thank you for using Return Receipt Service.

May 4, 1999

Robert K. Davies
North Carolina Department of
Environmental and Natural Resources
3800 Barrett Drive, Suite 101
Raleigh, North Carolina 27609



Subject: **DELIVERY RECEIPTS TO NEARBY OCCUPANTS RELATED TO THE
NOTICE CONCERNING THE LOW RISK CLASSIFICATION AND NOTICE
OF NO FURTHER ACTION
MONTGOMERY WARD
ROCKY MOUNT, NORTH CAROLINA
NCDEM GROUNDWATER INCIDENT #11742
LAW JOB NO. 30741-9-3550**

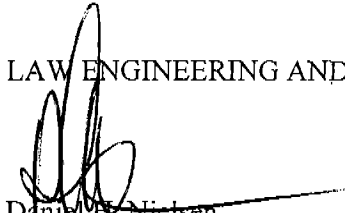
Dear Mr. Davies:

In accordance with the request of notice of No Further Action 15A NCAC 2L.0115 (K) dated March 5, 1999, Law Engineering and Environmental Services, Inc., (LAW) on behalf of Montgomery Ward and Co., Inc., has occupants in the Tarrytown Mall site and provided a copy of the No Further Action Notice. Enclosed is a copy of return receipts or refusals by the addressee to accept delivery of the notification.

If you have any questions or if we may be of further assistance, please contact us.

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC


Daniel E. Nielsen
Principal Engineer

cc: Gary Pozzoulli

Z 751 261 887

Receipt for Certified Mail

No Insurance Coverage Provided

Mr. Tien Van Phan

T.N. Nails

Tarrytown Mall

2320 Sunset Avenue

Rocky Mount, North Carolina 27804

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 3.20
Postmark or Date	

PS Form 3800, March 1993

Z 016 417 855

Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Mr. Dick Joy

Home Bazaar #11

P.O. Box 32

Weldon, North Carolina 27890

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 3.20
Postmark or Date	

PS Form 3800, March 1993

Z 751 261 876

Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Mr. Dave Matlack

Montgomery Ward

1 Montgomery Ward Plaza

Chicago, Illinois 60671

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 3.20
Postmark or Date	

PS Form 3800, March 1993

NO Response Received

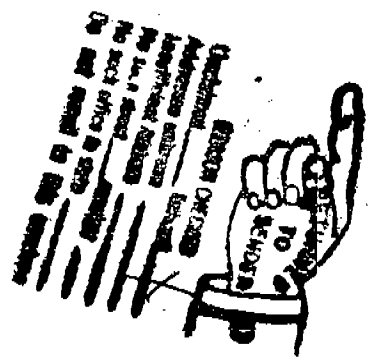
Return
to Dan N. This
Yours Ben
APR 12 1989

LAW

LAWGIBB Group Member

LAW Engineering and Environmental Services, Inc.
3301 Atlantic Avenue
Raleigh, NC 27604

Mr. Dick Joy
Home Bazaar #11
P.O. Box 32



**RETURN RECEIPT
REQUESTED**

257
3.26

LAW

LAWGIBB Group Member

LAW Engineering and Environmental Services, Inc.
3301 Atlantic Avenue
Raleigh, NC 27604



UNCLAIMED

~~Mr. M. C. Felton
Photo Fast
3812 Hawthorne Road
Rocky Mount, North Carolina 27804~~



UNCLAIMED

FIRST NOTICE: 4-2
SECOND NOTICE: 4-10
RETURNED: 4-17

RECEIVED BY

APR 22 1999

Dan N.

RECEIVED

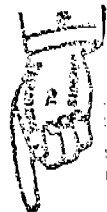
CERTIFIED

Z 016 417 851

MAIL

Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Return Address	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 3.20
Postmark or Date (USPS)	

PS Form 3800, March 1993



UNCLAIMED

LAW

LAWGIBB Group Member

LAW Engineering and Environmental Services, Inc.
3301 Atlantic Avenue
Raleigh, NC 27604

Mr. Kenneth Barnhill
Eye Care Center
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

UNCLAIMED



APR 22 1999

ROCKY MOUNT, NC

FIRST CLASS
44-10
SECOND CLASS
44-17
POSTAGE

**RECEIPT
TESTED**

Don N.

DATE	5 1 1999
AMOUNT	\$ 3.20
PERCENTAGE	1.25
	1.40
	\$.55
Carolina 27536	

Coverage Provided
International Mail

91 882

Mail

LAW

LAWGIBB Group Member

LAW Engineering and Environmental Services, Inc.
3301 Atlantic Avenue
Raleigh, NC 27604

RETURNED TO SENDER
 MAIL DELIVERY PROBLEM
 ADDRESS NOT KNOWN
 RETURN TO THE POST OFFICE
 AT THE ADDRESS SHOWN BELOW
 NO OTHER ADDRESSES
 NO OTHER OFFICE IN STATE
 DO NOT REPLY IN THIS ENVELOPE

3301 Atlantic Avenue
Raleigh, NC 27604
Carolina 27536

PKC

**RETURN RECEIPT
REQUESTED**

Z 016 417 849



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Mr. John Bass
East Coast Bagel Bakery
P.O. Box 125
Red Oak, North Carolina 27868

Postage	\$ 1.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, and Addressee's Address	777
TOTAL Postage & Fees	\$3.20
Postmark or Date	USPS

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. Addressee's Address
2. Restricted Delivery
Consult postmaster for fee.

3. Article Addressed to:
Mr. John Bass
East Coast Bagel Bakery
P.O. Box 125
Red Oak, North Carolina 27868

4a. Article Number
Z 016 417 849

4b. Service Type
 Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

5. Received By: (Print Name)
John Bass

7. Date of Delivery
4-2-99

8. Addressee's Address (Only if requested and fee is paid)
RED OAK NC 27868
APR-2 1999
DP

6. Signature: (Addressee or Agent)
X Karen Bass Seawell

PS Form 3811, December 1994 102595-98-B-0229 Domestic Return Receipt

Z 751 261 875



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Ms. Linda Johnson
Merle Norman
1052 Thomas Road
Rocky Mount, North Carolina 27804

Postage	\$ 1.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, and Addressee's Address	1.00
TOTAL Postage & Fees	\$3.20
Postmark or Date	USPS

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. Addressee's Address
2. Restricted Delivery
Consult postmaster for fee.

3. Article Addressed to:
Ms. Linda Johnson
Merle Norman
1052 Thomas Road
Rocky Mount, North Carolina 27804

4a. Article Number
Z 751 261 875

4b. Service Type
 Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

5. Received By: (Print Name)

7. Date of Delivery
04-02-99

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
X Linda Johnson

PS Form 3811, December 1994 102595-98-B-0229 Domestic Return Receipt

Thank you for using Return Receipt Service

Thank you for using Return Receipt Service

Z 016 417 845



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail

Mr. & Mrs. Kim

C.K. Jewelry

Tarrytown Mall

2320 Sunset Avenue

Rocky Mount, North Carolina 27804

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$3.20
Postmark or Date	

PS Form 3800, March 1993

Z 751 261 870



Receipt for Certified Mail

No Insurance Coverage Provided

Mr. Luigi Massa

Italian Pizzeria

Tarrytown Mall

2320 Sunset Avenue

Rocky Mount, North Carolina 27804

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$3.20
Postmark or Date	

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
 - Restricted Delivery
- Consult postmaster for fee.

3. Article Addressed to:

Mr. & Mrs. Kim
C.K. Jewelry
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

4a. Article Number

Z 016 417 845

4b. Service Type

- Registered Certified
- Express Mail Insured
- Return Receipt for Merchandise COD

7. Date of Delivery

4-1-99

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)

X *[Signature]*

PS Form 3811, December 1994

102595-98-B-0229 Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
 - Restricted Delivery
- Consult postmaster for fee.

3. Article Addressed to:

Mr. Luigi Massa
Italian Pizzeria
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

4a. Article Number

Z 751 261 870

4b. Service Type

- Registered Certified
- Express Mail Insured
- Return Receipt for Merchandise COD

7. Date of Delivery

4-1-99

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)

X *[Signature]*

PS Form 3811, December 1994

102595-98-B-0229 Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 751 261 884



Receipt for Certified Mail

No Insurance Coverage Provided

Mr. David Swanson
Tarrytown Cards & Gifts
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

Postage	\$ 1.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 3.20
Postmark or Date	

RALEIGH, NC NORTH HILLS MAR 5 1 1999

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Mr. David Swanson
Tarrytown Cards & Gifts
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

4a. Article Number
Z 751 261 884

4b. Service Type
 Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

7. Date of Delivery
4-1-99

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)

X *David Swanson*

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 016 417 847



Receipt for Certified Mail

No Insurance Coverage Provided

Mr. Dean Evans
Claudette's
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

Postage	\$ 1.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 3.20
Postmark or Date	

RALEIGH, NC NORTH HILLS MAR 5 1 1999

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Mr. Dean Evans
Claudette's
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

4a. Article Number
Z 016 417 847

4b. Service Type
 Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

7. Date of Delivery
4-1-99

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)

X *Dean Evans*

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 016 417 834



Receipt for Certified Mail

No Insurance Coverage Provided. Do not use for International Mail.

Ms. Dawn McGlohon
Computer Connections
1008 Compass Creek Drive
Rocky Mount, North Carolina 27804

Table with 2 columns: Fee/Postage and Amount. Includes Postage (\$.55), Certified Fee (1.40), and TOTAL Postage & Fees (\$ 3.20). Includes a circular postmark from Rocky Mount, NC.

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
Print your name and address on the reverse of this form so that we can return this card to you.
Attach this form to the front of the mailpiece, or on the back if space does not permit.
Write "Return Receipt Requested" on the mailpiece below the article number.
The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. Addressee's Address
2. Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Ms. Dawn McGlohon
Computer Connections
1008 Compass Creek Drive
Rocky Mount, North Carolina 27804

4a. Article Number

Z 016 417 834

4b. Service Type

- Registered
Express Mail
Return Receipt for Merchandise
Certified
Insured
COD

7. Date of Delivery

4-3-99

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)

X

PS Form 3811, December 1994

102595-98-B-0229 Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 751 261 886



Receipt for Certified Mail

No Insurance Coverage Provided

Mr. Chong Kuk Pak
Tharrington's Cobbler Shop
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

Table with 2 columns: Fee/Postage and Amount. Includes Postage (\$.55), Certified Fee (1.40), and TOTAL Postage & Fees (\$ 3.20). Includes a circular postmark from Rocky Mount, NC.

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
Print your name and address on the reverse of this form so that we can return this card to you.
Attach this form to the front of the mailpiece, or on the back if space does not permit.
Write "Return Receipt Requested" on the mailpiece below the article number.
The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. Addressee's Address
2. Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mr. Chong Kuk Pak
Tharrington's Cobbler Shop
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

4a. Article Number

Z 751 261 886

4b. Service Type

- Registered
Express Mail
Return Receipt for Merchandise
Certified
Insured
COD

7. Date of Delivery

4-3-99

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)

X Chong Kuk Pak

PS Form 3811, December 1994

102595-98-B-0229 Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 751 261 871



Receipt for Certified Mail

No Insurance Coverage Provided

Mr. Jay R. Sara
J. Royal
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

PS Form 3800, March 1993

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	3/25/99
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$3.20
Postmark or Date	USPS

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mr. Jay R. Sara
J. Royal
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

4a. Article Number

Z 751 261 871

4b. Service Type

- Registered Certified
- Express Mail Insured
- Return Receipt for Merchandise COD

7. Date of Delivery

4-2-99

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X *Jay R. Sara*

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-B-0229 Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 751 261 868



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Mr. Jim Womble
Home Health Care
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

PS Form 3800, March 1993

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	3/25/99
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$3.20
Postmark or Date	USPS

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mr. Jim Womble
Home Health Care
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

4a. Article Number

Z 751 261 868

4b. Service Type

- Registered Certified
- Express Mail Insured
- Return Receipt for Merchandise COD

7. Date of Delivery

4-1-99

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X *Jim Womble*

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-B-0229 Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 016 417 846



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail

Mr. Shaun Rowell
Centura Bank
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

PS Form 3800, March 1993

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$3.20
Postmark or Date	

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mr. Shaun Rowell
Centura Bank
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

4a. Article Number
Z 016 417 846

4b. Service Type
 Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

7. Date of Delivery
APR 02 1999

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)
X

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-B-0229 Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 751 261 877



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Mr. Wayne Bridgers
NC Motor Vehicle License
P.O. Box 4535
Rocky Mount, North Carolina 27803

PS Form 3800, March 1993

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$3.20
Postmark or Date	

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mr. Wayne Bridgers
NC Motor Vehicle License
P.O. Box 4535
Rocky Mount, North Carolina 27803

4a. Article Number
Z 751 261 877

4b. Service Type
 Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

7. Date of Delivery
4-5-99

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)
X Wayne Bridgers

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-B-0229 Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 751 261 888



Receipt for Certified Mail

No Insurance Coverage Provided

Ms. Margaret Ricks
Tang Soo Karate Academy
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

PS Form 3800, March 1993

Postage \$ 1.55
Certified Fee 1.40
Special Delivery Fee
Restricted Delivery Fee
Return Receipt Showing to Whom & Date Delivered 1.25
Return Receipt Showing to Whom, Date, and Addressee's Address 999
TOTAL Postage & Fees \$ 3.20
Postmark of Date

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
Print your name and address on the reverse of this form so that we can return this card to you.
Attach this form to the front of the mailpiece, or on the back if space does not permit.
Write "Return Receipt Requested" on the mailpiece below the article number.
The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. Addressee's Address
2. Restricted Delivery
Consult postmaster for fee.

3. Article Addressed to:
Ms. Margaret Ricks
Tang Soo Karate Academy
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

4a. Article Number
Z 751 261 888
4b. Service Type
Registered
Express Mail
Return Receipt for Merchandise
Certified
Insured
COD

5. Received By: (Print Name)

7. Date of Delivery 4-2-99
8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
Margaret Ricks

PS Form 3811, December 1994 102595-98-B-0229 Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 751 261 885



Receipt for Certified Mail

No Insurance Coverage Provided

Mr. Mohammed Alkirdasi
Tarrytown Grill
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

Form 3800, March 1993

Postage \$ 1.55
Certified Fee 1.40
Special Delivery Fee
Restricted Delivery Fee
Return Receipt Showing to Whom & Date Delivered 1.25
Return Receipt Showing to Whom, Date, and Addressee's Address 773
TOTAL Postage & Fees \$ 3.20
Postmark of Date

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
Print your name and address on the reverse of this form so that we can return this card to you.
Attach this form to the front of the mailpiece, or on the back if space does not permit.
Write "Return Receipt Requested" on the mailpiece below the article number.
The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. Addressee's Address
2. Restricted Delivery
Consult postmaster for fee.

3. Article Addressed to:
Mr. Mohammed Alkirdasi
Tarrytown Grill
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

4a. Article Number
Z 751 261 885
4b. Service Type
Registered
Express Mail
Return Receipt for Merchandise
Certified
Insured
COD

5. Received By: (Print Name)

7. Date of Delivery 4-1-99
8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
Beth Sullivan

PS Form 3811, December 1994 102595-98-B-0229 Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 751 261 874



Receipt for Certified Mail

No Insurance Coverage Provided

Mr. Prem Gulabrai
Le New Yorker
Tarrytown Mall - Suite 47
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

Postage \$.55
Certified Fee 1.40
Special Delivery Fee
Restricted Delivery Fee
Return Receipt Showing to Whom & Date Delivered
Return Receipt Showing to Whom, Date, and Addressee's Address
TOTAL Postage & Fees \$ 3.20
Postmark or Date

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
Print your name and address on the reverse of this form so that we can return this card to you.
Attach this form to the front of the mailpiece, or on the back if space does not permit.
Write "Return Receipt Requested" on the mailpiece below the article number.
The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. Addressee's Address
2. Restricted Delivery
Consult postmaster for fee.

3. Article Addressed to:

Mr. Prem Gulabrai
Le New Yorker
Tarrytown Mall - Suite 47
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

4a. Article Number

Z 751 261 874

4b. Service Type

- Registered
Express Mail
Return Receipt for Merchandise
Certified
Insured
COD

7. Date of Delivery

4-1-99

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)

[Signature]

PS Form 3811, December 1994

102595-98-B-0229 Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 751 261 878



Receipt for Certified Mail

No Insurance Coverage Provided

Ms. Pauline Williams
Pauline's Fashions
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

Postage \$.55
Certified Fee 1.40
Special Delivery Fee
Restricted Delivery Fee
Return Receipt Showing to Whom & Date Delivered
Return Receipt Showing to Whom, Date, and Addressee's Address
TOTAL Postage & Fees \$ 3.20
Postmark or Date

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
Print your name and address on the reverse of this form so that we can return this card to you.
Attach this form to the front of the mailpiece, or on the back if space does not permit.
Write "Return Receipt Requested" on the mailpiece below the article number.
The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. Addressee's Address
2. Restricted Delivery
Consult postmaster for fee.

3. Article Addressed to:

Ms. Pauline Williams
Pauline's Fashions
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

4a. Article Number

Z 751 261 878

4b. Service Type

- Registered
Express Mail
Return Receipt for Merchandise
Certified
Insured
COD

7. Date of Delivery

4-1-99

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)

[Signature]

PS Form 3811, December 1994

102595-98-B-0229 Domestic Return Receipt

Thank you for using Return Receipt Service.

fold at line over top of envelope to the right of return address

Z 016 417 848



Receipt for Certified Mail

No Insurance Coverage Provided

Ms. Katherine Shaw
Dollar General
Dolgencorp, Inc.
427 Beech Street
Scottsville, Kentucky 42164

Postage \$.55
Certified Fee 1.40
Special Delivery Fee
Restricted Delivery Fee
Return Receipt Showing to Whom & Date Delivered 1.25
Return Receipt Showing to Whom, Date, and Addressee's Address 1.99
TOTAL Postage & Fees \$ 3.20
Postmark or Date

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
Print your name and address on the reverse of this form so that we can return this card to you.
Attach this form to the front of the mailpiece, or on the back if space does not permit.
Write "Return Receipt Requested" on the mailpiece below the article number.
The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. Addressee's Address
2. Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Ms. Katherine Shaw
Dollar General
Dolgencorp, Inc.
427 Beech Street
Scottsville, Kentucky 42164

4a. Article Number

Z 016 417 848

4b. Service Type

- Registered
Express Mail
Return Receipt for Merchandise
Certified
Insured
COD

7. Date of Delivery

4-3-99

5. Received By: (Print Name)

John M Travieso

6. Signature: (Addressee or Agent)

John M Travieso

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 751 261 869



Receipt for Certified Mail

No Insurance Coverage Provided

Mr. Mitch Ivey
It's A Buck
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

Postage \$.55
Certified Fee 1.40
Special Delivery Fee
Restricted Delivery Fee
Return Receipt Showing to Whom & Date Delivered 1.25
Return Receipt Showing to Whom, Date, and Addressee's Address 1.99
TOTAL Postage & Fees \$ 3.20
Postmark or Date

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
Print your name and address on the reverse of this form so that we can return this card to you.
Attach this form to the front of the mailpiece, or on the back if space does not permit.
Write "Return Receipt Requested" on the mailpiece below the article number.
The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. Addressee's Address
2. Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mr. Mitch Ivey
It's A Buck
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

4a. Article Number

Z 751 261 869

4b. Service Type

- Registered
Express Mail
Return Receipt for Merchandise
Certified
Insured
COD

7. Date of Delivery

4-1-99

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

Mitch Ivey

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 016 417 853



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Mr. Lonnie Rogerson
Goody's Family Clothing
P.O. Box 22000
Knoxville, Tennessee 37933-2000

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1-25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 3.20
Postmark or Date	

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to: Mr. Lonnie Rogerson Goody's Family Clothing P.O. Box 22000 Knoxville, Tennessee 37933-2000	4a. Article Number Z 016 417 853
	4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD
	7. Date of Delivery 4-2
5. Received By: (Print Name) <i>A. Smith</i>	8. Addressee's Address (Only if requested and fee is paid)
6. Signature: (Addressee or Agent) X <i>[Signature]</i>	

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Z 751 261 873



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Mr. Jerry Samlin
K & W Cafeteria
1391 Plaza West Road
Winston-Salem, North Carolina 27103

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1-25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 3.20
Postmark or Date	

PS Form 3800, March 1993

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to: Mr. Jerry Samlin K & W Cafeteria 1391 Plaza West Road Winston-Salem, North Carolina 27103	4a. Article Number Z 751 261 873
	4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD
	7. Date of Delivery 4-1-99
5. Received By: (Print Name)	8. Addressee's Address (Only if requested and fee is paid)
6. Signature: (Addressee or Agent) X <i>[Signature]</i>	

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 016 417 841



Receipt for Certified Mail

No Insurance Coverage Provided Do not use for International Mail (See Reverse)

Ms. Jennifer Evans
Airbrush Oasis
194 Jeffries Cove
Rocky Mount, North Carolina 27804

Postage \$ 1.55
Certified Fee 1.40
Special Delivery Fee
Restricted Delivery Fee
Return Receipt Showing to Whom & Date Delivered 4-1-99
Return Receipt Showing to Whom, Date, and Addressee's Address
TOTAL Postage & Fees \$ 3.20
Postmark or Date

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
Print your name and address on the reverse of this form so that we can return this card to you.
Attach this form to the front of the mailpiece, or on the back if space does not permit.
Write "Return Receipt Requested" on the mailpiece below the article number.
The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. Addressee's Address
2. Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Ms. Jennifer Evans
Airbrush Oasis
194 Jeffries Cove
Rocky Mount, North Carolina 27804

4a. Article Number

Z 016 417 841

4b. Service Type

- Registered
Express Mail
Return Receipt for Merchandise
Certified
Insured
COD

7. Date of Delivery

4-1-99

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

Jana Busch

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Thank you for using Return Receipt Service

PS Form 3800, March 1993

Z 016 417 844



Receipt for Certified Mail

No Insurance Coverage Provided Do not use for International Mail (See Reverse)

Mr. Earl McCall
Beltone Hearing Center
P.O. Box 7188
Rocky Mount, North Carolina 27804

Postage \$.55
Certified Fee 1.40
Special Delivery Fee
Restricted Delivery Fee
Return Receipt Showing to Whom & Date Delivered 4-1-99
Return Receipt Showing to Whom, Date, and Addressee's Address
TOTAL Postage & Fees \$ 3.20
Postmark or Date

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
Print your name and address on the reverse of this form so that we can return this card to you.
Attach this form to the front of the mailpiece, or on the back if space does not permit.
Write "Return Receipt Requested" on the mailpiece below the article number.
The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. Addressee's Address
2. Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mr. Earl McCall
Beltone Hearing Center
P.O. Box 7188
Rocky Mount, North Carolina 27804

4a. Article Number

Z 016 417 844

4b. Service Type

- Registered
Express Mail
Return Receipt for Merchandise
Certified
Insured
COD

7. Date of Delivery

4-1-99

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

Earl McCall

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Thank you for using Return Receipt Service

PS Form 3800, March 1993

Z 016 417 838



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Mr. Steve Raper P.O. Box 1180 Rocky Mount, North Carolina 27802-1180	
Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$3.20
Postmark or Date	MAR 31 1994

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER: ■ Complete Items 1 and/or 2 for additional services. ■ Complete Items 3, 4a, and 4b. ■ Print your name and address on the reverse of this form so that we can return this card to you. ■ Attach this form to the front of the mailpiece, or on the back if space does not permit. ■ Write "Return Receipt Requested" on the mailpiece below the article number. ■ The Return Receipt will show to whom the article was delivered and the date delivered.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.
3. Article Addressed to:	4a. Article Number Z 016 417 838	
Mr. Steve Raper P.O. Box 1180 Rocky Mount, North Carolina 27802-1180	4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD	
5. Received By: (Print Name)	7. Date of Delivery 4-1-99	
6. Signature: (Addressee or Agent) X Madine Baret	8. Addressee's Address (Only if requested and fee is paid)	

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Thank you for using Return Receipt Service

Z 016 417 840



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Mr. J. Wayne Deal
Nash County
Courthouse; Room 104
Nashville, North Carolina 27858

Mr. J. Wayne Deal Nash County Courthouse; Room 104 Nashville, North Carolina 27858	
Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$3.20
Postmark or Date	MAR 31 1994

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER: ■ Complete Items 1 and/or 2 for additional services. ■ Complete Items 3, 4a, and 4b. ■ Print your name and address on the reverse of this form so that we can return this card to you. ■ Attach this form to the front of the mailpiece, or on the back if space does not permit. ■ Write "Return Receipt Requested" on the mailpiece below the article number. ■ The Return Receipt will show to whom the article was delivered and the date delivered.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.
3. Article Addressed to:	4a. Article Number Z 016 417 840	
Mr. J. Wayne Deal Nash County Courthouse; Room 104 Nashville, North Carolina 27858	4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD	
5. Received By: (Print Name)	7. Date of Delivery 04-01-99	
6. Signature: (Addressee or Agent) X Denise Pulley	8. Addressee's Address (Only if requested and fee is paid)	

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Thank you for using Return Receipt Service

Z 016 417 839



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Mr. William W. Hill Jr.
Health Director, Nash County
P.O. Box 849
Nashville, North Carolina 27856-0849

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$3.20
Postmark or Date	

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete Items 1 and/or 2 for additional services.
- Complete Items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mr. William W. Hill Jr.
Health Director, Nash County
P.O. Box 849
Nashville, North Carolina 27856-0849

4a. Article Number

Z 016 417 839

4b. Service Type

- Registered Certified
- Express Mail Insured
- Return Receipt for Merchandise COD

7. Date of Delivery

3-4-99

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

W. Hill

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 016 417 852



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Ms. Cassandra Williams
Glamour Creations
2497 Tom George Road
Nashville, North Carolina 27856

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$3.20
Postmark or Date	

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete Items 1 and/or 2 for additional services.
- Complete Items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Ms. Cassandra Williams
Glamour Creations
2497 Tom George Road
Nashville, North Carolina 27856

4a. Article Number

Z 016 417 852

4b. Service Type

- Registered Certified
- Express Mail Insured
- Return Receipt for Merchandise COD

7. Date of Delivery

4-1-99

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

C. Williams

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 751 261 881



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Ms. Mildred Vick
Serotta's of Waverly, Inc.
207-C Colonnades Way
Cary, North Carolina 27511

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$3.20
Postmark or Date	MAR 5 1999

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Ms. Mildred Vick
Serotta's of Waverly, Inc.
207-C Colonnades Way
Cary, North Carolina 27511

4a. Article Number
Z 751 261 881

4b. Service Type
 Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

7. Date of Delivery
4/1/99

5. Received By: (Print Name)
J SEROTTA

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
K Serotta

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Z 016 417 843



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Ms. Judy Leonard
Animal House, Too
900 Jeffreys Road
Rocky Mount, North Carolina 27804

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$3.20
Postmark or Date	MAR 5 1999

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Ms. Judy Leonard
Animal House, Too
900 Jeffreys Road
Rocky Mount, North Carolina 27804

4a. Article Number
Z 016 417 843

4b. Service Type
 Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

7. Date of Delivery
4-1-99

5. Received By: (Print Name)
Judy Leonard

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
X

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 016 417 850



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Mr. Martin Evans
Express Telecommunications
P.O. Box 7248
Rocky Mount, North Carolina 27804

Postage	\$ 1.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	USPS \$ 3.20
Postmark or Date	

PS Form 3800, March 1993

is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mr. Martin Evans
Express Telecommunications
P.O. Box 7248
Rocky Mount, North Carolina 27804

4a. Article Number

Z 016 417 850

4b. Service Type

- Registered Certified
- Express Mail Insured
- Return Receipt for Merchandise COD

7. Date of Delivery

4-1-99

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X Jackson

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Z 016 417 854



Receipt for Certified Mail

No Insurance Coverage Provided

Mr. Michael Pardue
Hobbycraft Junction
Tarrytown Mall
Suite 29
Rocky Mount, North Carolina 27804

Postage	\$ 1.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	USPS \$ 3.20
Postmark or Date	

PS Form 3800, March 1993

is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mr. Michael Pardue
Hobbycraft Junction
Tarrytown Mall
Suite 29
Rocky Mount, North Carolina 27804

4a. Article Number

Z 016 417 854

4b. Service Type

- Registered Certified
- Express Mail Insured
- Return Receipt for Merchandise COD

7. Date of Delivery

4-5-99

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X Pardue

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Z 751 261 880



Receipt for Certified Mail

No Insurance Coverage Provided

Mr. Michael Harper
Rocky Mount Charter School
c/o Advantage Schools, Inc.
205 Portland Street
Boston, MA 02114

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 3.20
Postmark or Date	

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
 - Restricted Delivery
- Consult postmaster for fee.

3. Article Addressed to:

Mr. Michael Harper
Rocky Mount Charter School
c/o Advantage Schools, Inc.
205 Portland Street
Boston, MA 02114

4a. Article Number

Z 751 261 880

4b. Service Type

- Registered Certified
- Express Mail Insured
- Return Receipt for Merchandise COD

7. Date of Delivery

4/5

5. Received By: (Print Name)

6. Signature (Addressee or Agent)

X *Michael Harper*

8. Addressee's Address (Only if requested and fee is paid)

PS Form 8811, December 1994

102595-98-B-0229 Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 751 261 872



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Mr. Amos Jordan
J's 42nd trend
4020 Woodstock Road
Rocky Mount, North Carolina 27804

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 3.20
Postmark or Date	

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
 - Restricted Delivery
- Consult postmaster for fee.

3. Article Addressed to:

Mr. Amos Jordan
J's 42nd trend
4020 Woodstock Road
Rocky Mount, North Carolina 27804

4a. Article Number

Z 751 261 872

4b. Service Type

- Registered Certified
- Express Mail Insured
- Return Receipt for Merchandise COD

7. Date of Delivery

4.6.99

5. Received By: (Print Name)

6. Signature (Addressee or Agent)

X *Amos Jordan*

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-B-0229 Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 016 417 842



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail

Ms. Deborah W. McBride
A Cut Above
1721 Benvenue Forest Road
Rocky Mount, North Carolina 27804

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom, Date Delivered	1999 25
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 3.20
Postmark or Date	

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Ms. Deborah W. McBride
A Cut Above
1721 Benvenue Forest Road
Rocky Mount, North Carolina 27804

4a. Article Number

Z 016 417 842

4b. Service Type

- Registered Certified
- Express Mail Insured
- Return Receipt for Merchandise COD

7. Date of Delivery

4.12.99

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

Deborah W. McBride

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-08-B-0229

Domestic Return Receipt

Thank you for using Return Receipt Service.

Z 751 261 883



Receipt for Certified Mail

No Insurance Coverage Provided

Ms. Sherl Davis
Tarrytown Beach Bingo
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

Postage	\$.55
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom, Date Delivered	1999 25
Return Receipt Showing to Whom, Date, and Addressee's Address	1999 25
TOTAL Postage & Fees	\$ 3.20
Postmark or Date	

PS Form 3800, March 1993

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Ms. Sherl Davis
Tarrytown Beach Bingo
Tarrytown Mall
2320 Sunset Avenue
Rocky Mount, North Carolina 27804

4a. Article Number

Z 751 261 883

4b. Service Type

- Registered Certified
- Express Mail Insured
- Return Receipt for Merchandise COD

7. Date of Delivery

4.13.99

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

Robert Lee Davis

8. Addressee's Address (Only if requested and fee is paid)

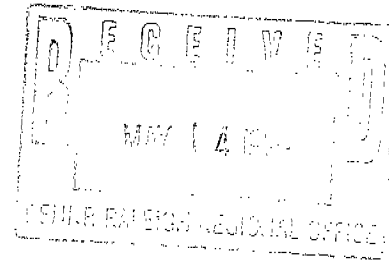
PS Form 3811, December 1994

102595-08-B-0229

Domestic Return Receipt

May 12, 1999

Robert K. Davies
North Carolina Department of
Environmental and Natural Resources
3800 Barrett Drive, Suite 101
Raleigh, North Carolina 27609



Subject: **SUBMITAL OF MONITORING WELL ABANDONMENTS RECORD IN
ACCORDANCE WITH THE LOW RISK CLASSIFICATION AND
NOTICE OF NO FURTHER ACTION
MONTGOMERY WARD
ROCKY MOUNT, NORTH CAROLINA
NCDEM GROUNDWATER INCIDENT #11742
LAW-JOB NO. 30741-9-3550**

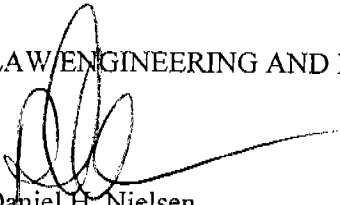
Dear Mr. Davies:

In accordance with the request of notice of No Further Action 15A NCAC 2L.0115 (K) dated March 5, 1999, Law Engineering and Environmental Services, Inc., (LAW) on behalf of Montgomery Ward and Co., Inc., is providing well abandonment records for the closure of wells associated with monitoring this incident. Enclosed is a copy of the well abandonment records and site map.

If you have any questions or if we may be of further assistance, please contact us.

Sincerely,

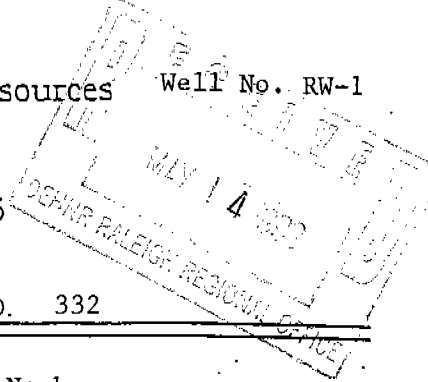
LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC


Daniel H. Nielsen
Principal Engineer

cc: Gary Pozzoulli

North Carolina
 Department of Environment, Health, & Natural Resources
 Division of Environmental Management
 Groundwater Section
 P.O. Box 29535 - Raleigh, N.C. 27626-0535

Well No. RW-1



WELL ABANDONMENT RECORD

CONTRACTOR Law Engineering, Raleigh, NC REG. NO. 332

1. WELL LOCATION: (Show a sketch of the location on back of form.)
 Nearest Town: Rocky Mount, NC County Nash

(Road, Community, Subdivision, Lot No.) _____ Quadrangle No. _____

2. OWNER: Montgomery Ward

3. ADDRESS: 2320 Sunset Ave.

4. TOPOGRAPHY: draw, slope, hilltop, valley, flat

5. USE OF WELL: Monitoring DATE: 4/7/99

6. TOTAL DEPTH: 7.5' DIAMETER: 4"

7. CASING REMOVED:
feet diameter
PVC casing wasn't removed, it was
grouted in place

8. SEALING MATERIAL:

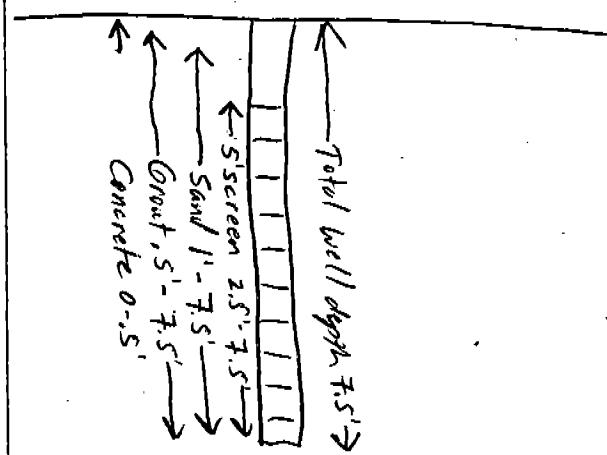
<u>Neat cement</u>	<u>Sand cement</u>
bags of cement <u>1.5</u>	bags of cement _____
<u>47#</u>	
gals. of water <u>10</u>	yds. of sand _____
	gals. of water _____

Other
 Type material Top 6" of well had a concrete
cap installed

Amount _____

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
The well was abandoned by the tremmie grout
method.

WELL DIAGRAM: Draw a detailed sketch of the well showing total depth, depth and diameter of screens remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.



I do hereby certify that this well abandonment record is true and exact.

Signature of Contractor or Agent Ray O. Fields Date 5/6/99

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

North Carolina
 Department of Environment, Health, & Natural Resources
 Division of Environmental Management
 Groundwater Section
 P.O. Box 29535 - Raleigh, N.C. 27626-0535

Well No.'s
 MW-1 thru MW-4

WELL ABANDONMENT RECORD

CONTRACTOR LAW Engineering, Raleigh, NC REG. NO. 332

1. WELL LOCATION: (Show a sketch of the location on back of form.)
 Nearest Town: Rocky Mount County Nash
 (Road, Community, Subdivision, Lot No.) _____ Quadrangle No. _____

2. OWNER: Montgomery Ward

3. ADDRESS: 2320 Sunset Ave.

4. TOPOGRAPHY: draw, slope, hilltop, valley, flat

5. USE OF WELL: Monitoring DATE: 4/7/99

6. TOTAL DEPTH: 15' DIAMETER: 2"

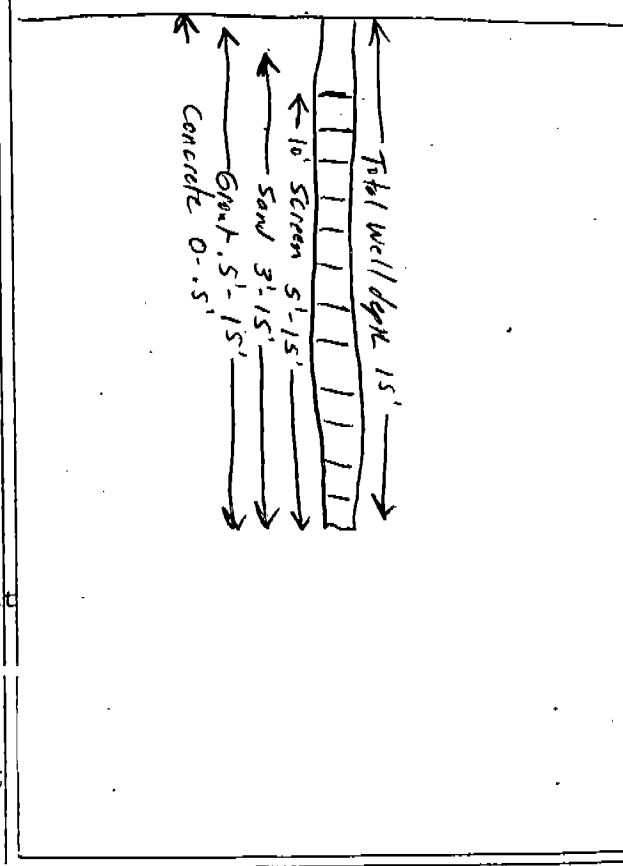
7. CASING REMOVED:
feet diameter
PVC casings
weren't removed they were grouted up
in place.

8. SEALING MATERIAL:
Neat cement Sand cement
 bags of cement 2.5 bags of cement _____
 # _____
 gals. of water 18 yds. of sand _____
 gals. of water _____

Other
 Type material Top 6" of the wells had a concrete
cap installed
 Amount _____

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
The wells were abandoned by tremmie grouting
them.

WELL DIAGRAM: Draw a detailed sketch of the well showing total depth, depth and diameter of screens remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

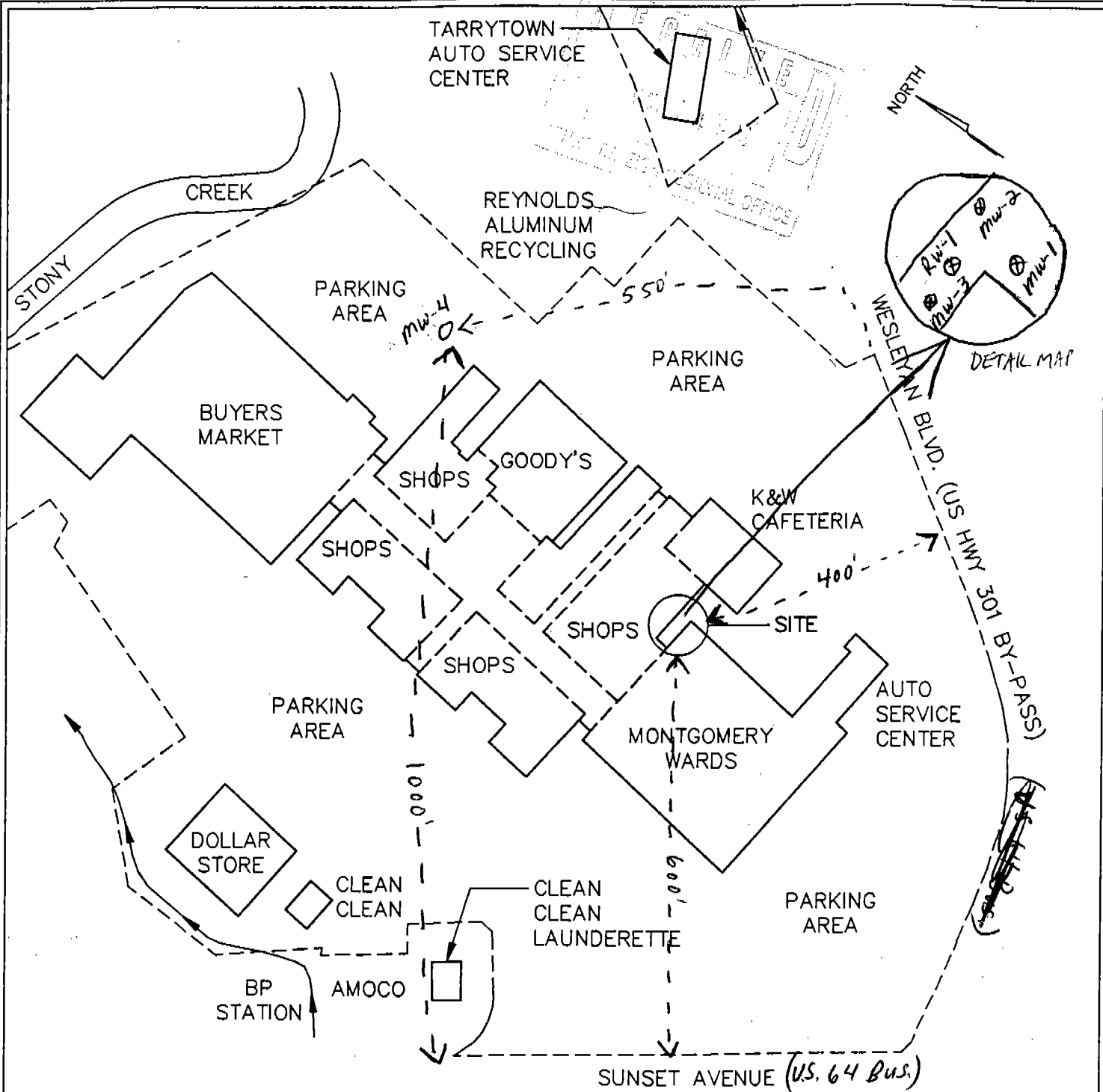


I do hereby certify that this well abandonment record is true and exact.

Signature of Contractor or Agent Jay A. Fuchs Date 5/6/99

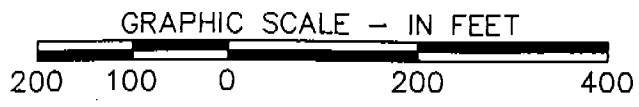
WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.



LEGEND

← DRAINAGE FEATURE



NOTE: SITE LOCATIONS ARE APPROXIMATE.

LAW ENGINEERING
RALEIGH, NORTH CAROLINA

SITE LOCATION MAP
 MONTGOMERY WARD
 ROCKY MOUNT, NORTH CAROLINA

DRAWN: RRF	DATE: SEPTEMBER 1995
DFT CHECK: JJB	SCALE: 1"=200'
ENG CHECK: SLW	JOB: 47542-5-0173
APPROVAL: <i>[Signature]</i>	DWG: 1.2

REFERENCE: