

January 6, 2014

Ms. Delonda Alexander
State of North Carolina
Department of Environment and Natural Resources
Division of Waste Management, Superfund Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

RE: Risk Management Plan
Cole Park Cleaners
11552 US Highway 15-501 North
Chapel Hill, Chatham County, North Carolina
ATC Project No. 45.34341.1901
DSCA ID No. 19-0001

Dear Ms. Alexander:

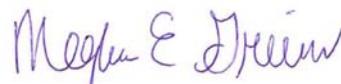
ATC Associates of North Carolina, P.C. (ATC) is pleased to submit the enclosed Risk Management Plan (RMP) for the above referenced site. The results of a previous Risk Assessment indicated that contaminant concentrations at the site do not pose an unacceptable risk. The primary purpose of this RMP is to ensure that the assumptions made during the risk assessment remain valid in the future. Based on the documentation outlined in this report, ATC recommends issuance of a No Further Action letter for the site.

If you have questions or require additional information, please do not hesitate to contact Genna Olson at (919) 871-0999.

Sincerely,
ATC Associates of North Carolina, P.C.



Kristen Speight, P.G.
Staff Geologist



Meghan Greiner, P.E.
Project Manager



Genna K. Olson, P.G.
Program Manager

**RISK MANAGEMENT PLAN
COLE PARK CLEANERS
11552 US HIGHWAY 15-501 NORTH
CHAPEL HILL, CHATHAM COUNTY, NORTH CAROLINA
ATC PROJECT NO. 45.34341.1901
DSCA SITE IDENTIFICATION NO. 19-0001
JANUARY 6, 2014**

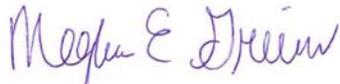
Risk Management Plan

Cole Park Cleaners
11552 US Highway 15-501 North
Chapel Hill, Chatham County, North Carolina
ATC Project No. 45.34341.1901
DSCA ID No. 19-0001

Prepared By:



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Submitted To:

**North Carolina Department of Environment
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January 6, 2014

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1.0 INTRODUCTION

ATC Associates of North Carolina, P.C. (ATC) has prepared this Risk Management Plan (RMP) for the Cole Park Cleaners site on behalf of the North Carolina Department of Environment and Natural Resources (NCDENR) Dry-Cleaning Solvent Cleanup Act (DSCA) Program. Cole Park Cleaners is located at 11552 US Highway 15-501 North in Chapel Hill, Chatham County, NC. Site assessment activities have confirmed that soil and groundwater contamination associated with the site is confined to the source property. This RMP is intended to comply with the requirements of the DSCA (N.C.G.S. 143-215.104A *et seqs*) and promulgated rules and follows the outline provided in the DSCA Program's risk-based corrective action (RBCA) guidance.

2.0 OBJECTIVES OF RMP

Assessment activities conducted at the site indicated no constituents in soil above unrestricted use levels and concentrations of tetrachloroethylene (PCE), 1,2-dichloroethane and benzene in groundwater above Title 15A NCAC 2L .0202 Groundwater Standards (2L Standards) on the source property. ATC completed a Risk Assessment for the site on July 1, 2013. The results of the Risk Assessment indicated that target risk levels are exceeded. However, the risks will be managed based on site-specific land-use conditions that have been selected as part of the evaluation and which require a RMP. Thus, the objective of the RMP is to ensure that those site-specific land-use conditions remain valid in the future.

3.0 SUMMARY OF APPROVED RISK ASSESSMENT REPORT

Based on groundwater impacts above the DSCA Program's risk based screening levels, a risk assessment was conducted to evaluate if an unacceptable risk is present at the site. This section summarizes the final risk assessment findings, which resulted in the recommendation for no further action status.

The first step in the risk assessment process included a development of an exposure model. Two exposure units were assigned, one on-site unit and one off-site unit. The on-site exposure unit encompasses the area in the immediate vicinity of the Cole Park Cleaners facility. The off-site

exposure unit encompasses the remaining area of the contaminant plume. Both exposure units are located within the site property boundary.

Complete exposure pathways identified for the on-site exposure unit include indoor inhalation of vapor emissions, outdoor inhalation of vapor emissions, and surficial soil exposure by a current or future non-residential worker, future resident, or construction worker. The indoor inhalation pathway was evaluated using representative concentrations calculated from averaging results for two sub-slab soil gas samples and the DSCA risk calculator. Indoor air samples have not been collected from the on-site exposure unit to the presence of an active dry-cleaning operation. The DSCA Program only covers assessment and remediation of dry-cleaning solvent contamination resulting from releases as defined in G.S. 143-215.104B(b)24. Because of the potential vapor emissions from day-to-day operations of the active dry-cleaning operation, no further risk evaluation was completed for the Cole Park Cleaners tenant space. However, the risk to future users of the building should be evaluated by re-testing the indoor air after the dry-cleaning business vacates the structure and prior to occupancy by subsequent tenants. ATC recommends that this issue be addressed in a land-use restriction (LUR) for the site. The remaining pathways were evaluated using selected soil and groundwater samples located in the area of maximum contaminant concentrations in the source area and the Groundwater Services Inc. (GSI) risk software.

The results of the modeling for the on-site exposure unit indicated no exceedences of acceptable risk levels for a non-residential land-use scenario. However, the results of the modeling under the residential land-use scenario indicated exceedences of acceptable risk levels for a future resident. The source of the exceedence was the indoor inhalation of vapor emissions pathway. To address this exceedence, ATC recommends a LUR specifying that no activities that cause or create vapor intrusion risk may occur on the source property without prior approval of NCDENR.

Soil contamination has not been documented in the off-site exposure unit. Complete exposure pathways for the off-site exposure unit include indoor and outdoor inhalation of vapor emissions from groundwater by a current or future non-residential worker or a future resident. The outdoor inhalation pathway was evaluated using the GSI software and representative concentrations calculated using groundwater data for the most highly impacted monitoring well within this

exposure unit. The indoor inhalation pathway was evaluated using the DSCA calculator and representative concentrations calculated using a sub-slab soil gas sample. It should be noted indoor air samples have been collected in the off-site exposure unit and indicated an exceedence of acceptable risk levels for a commercial land-use scenario. However, the exceedence is due to trichloroethylene (TCE) which is attributed to indoor sources rather than vapor intrusion. Refer to the Vapor Intrusion Assessment Report dated January 18, 2013, for details regarding indoor sources versus vapor intrusion.

The results of the modeling for the off-site exposure unit indicated no exceedences of acceptable risk levels for a non-residential land-use scenario. However, the results of the modeling under the residential land-use scenario indicated exceedences of acceptable risk levels for a future resident. The source of the exceedence for a future resident was the indoor inhalation of vapor emissions pathway. To address this exceedence, ATC recommends a land-use control specifying that no activities that cause or create vapor intrusion risk may occur on the source property without prior approval of NCDENR.

ATC also evaluated the protection of groundwater use pathway assuming a point-of-exposure (POE) at the downgradient property line. Modeling under this scenario assumes that land-use controls on the installation of water supply wells can be implemented for the source property. Representative concentrations were calculated using selected soil and groundwater samples located in the area of maximum contaminant concentrations in the source area. The modeling results for the protection of groundwater use evaluation indicated no exceedences of Site Specific Target Levels (SSTLs) for source soil. Because no exceedences were identified for source soil, a surface cover restriction does not appear warranted. PCE concentrations in source groundwater were found to exceed SSTLs for the protection of groundwater use pathway. However, plume stability monitoring has confirmed that the plume is stable and does not appear likely to impact the POE. As such, based upon this evaluation and the conceptual site model, the plume stability monitoring data appear more appropriate for use in determining future risk and the protection of groundwater pathway is not considered a significant concern.

ATC also evaluated the protection of surface water pathway assuming a POE at the nearest surface water body. The nearest surface water body is a tributary to Cub Creek, which is a Class

WS-IV surface water body and is approximately 1,280 feet from the site. The modeling results for the protection of surface water evaluation indicated no exceedences of SSTLs in source soil or groundwater.

The Risk Assessment concluded that the risks associated with the contamination could be managed through implementation of land-use controls, as detailed in this RMP. Therefore, the Risk Assessment recommended risk-based closure for the site. Land-use controls proposed for the site are discussed in Section 6.0.

4.0 RAP COMPONENTS

4.1 Summary of Prior Assessment and Interim Actions

The source property is located at 11552 US Highway 15-501 North in Chapel Hill, North Carolina in an area that is primarily characterized by commercial and residential development. The property is accessed from the west by US Highway 15-501 North or from the south through the shopping center. The property consists of an approximate 8.576-acre lot with an asphalt paved area and commercial buildings which comprise the Cole Park Plaza shopping center. The area topography slopes downward towards the east-southeast.

Cole Park Cleaners is located in the north end of the Cole Park Plaza shopping center and been in operation since 1983. The current tenant, Mr. Hang Lae Cho, has been operating Cole Park Cleaners since 1991.

In May 2006, ATC completed a Limited Phase II Environmental Site Assessment at the site. During the assessment, four soil borings were advanced around the dry-cleaning facility. Laboratory analytical results indicated no target compounds in soil at concentrations above laboratory detection limits. Analysis of groundwater samples collected from three of the soil borings indicated a PCE concentration above the NC 2L Standard in one sample. Following the investigation, ATC installed and sampled three type II monitoring wells (MW-1 through MW-3). Laboratory analysis of the groundwater samples indicated PCE at concentrations above 2L

Standards in two of the monitoring wells. In September 2006, the site was enrolled in the DSCA Program.

In February 2007, Withers & Ravenel (W&R) completed a Prioritization Assessment Report which documented a receptor survey, the installation and sampling of two additional Type II monitoring wells (MW-4 and MW-5), and the advancement of six soil borings at the site. During the receptor survey, four community wells and three private water supply wells were observed within 1,500 feet of the site. Soil analytical results indicated no exceedences of Tier 1 Risk Based Screening Levels (RBSLs). Groundwater analytical results indicated that groundwater has been impacted by PCE at concentrations above 2L Standards.

W&R completed a Soil and Groundwater Monitoring Report in October 2008. The report documented the installation and sampling of three additional Type II monitoring wells (MW-6 through MW-8) and the sampling of the five existing monitoring wells. Laboratory analytical results indicated concentrations of PCE above 2L Standards in all eight samples collected from the monitoring wells.

W&R completed an annual Groundwater Monitoring Report in August 2009 which documented sampling of the eight monitoring wells over four quarterly sampling events. Laboratory analytical results indicated PCE concentrations over the four quarterly sampling events remained consistent, and exceeded the 2L Standard in all monitoring wells except upgradient monitoring well MW-6.

In December 2010, ATC completed an Assessment Report documenting the installation of three additional Type II monitoring wells (MW-9 through MW-11), collection of groundwater samples from monitoring wells MW-1 through MW-11, and collection of soil samples from two soil borings. The results of the groundwater sampling indicated no exceedences of 2L Standards in the new monitoring wells or existing monitoring wells MW-6 and MW-8. Soil samples collected from the soil borings also indicated no impacts above Tier 1 RBSLs. Based on the results of the assessment, ATC concluded that the extent of impacted soil and groundwater was adequately delineated.

In March 2010, ATC collected sub-slab soil gas samples (SGMP-1 and SGMP-2) in the dry-cleaning space. The results of the sampling indicated elevated concentrations of PCE and TCE. Based on the results, ATC proceeded with collection of sub-slab and indoor air samples in the adjacent hardware store tenant space. Per the DSCA Program's typical protocol, no samples were collected inside the dry-cleaning tenant space due to the potential for contributions from the active dry-cleaning operation. Indoor air samples collected in the hardware store tenant space initially indicated elevated concentrations of PCE and TCE. The dry-cleaner subsequently switched from PCE to petroleum based solvents. Subsequent indoor air sampling indicated reduced concentrations of PCE, but TCE concentrations remained above acceptable risk levels. Further sub-slab soil gas and indoor air sampling were performed to confirm the source for the TCE. TCE concentrations detected in indoor air in the hardware store were higher than concentrations detected in sub-slab soil gas. Therefore, ATC concluded that the TCE was associated with indoor sources rather than vapor intrusion and no further vapor intrusion investigation was recommended. The vapor intrusion sampling events at the site were documented in a Soil Gas and Air Sampling Report dated February 8, 2011, and a Vapor Intrusion Assessment Report dated January 18, 2013.

ATC submitted an Annual Groundwater Monitoring Report in July 2011 documenting three quarterly monitoring events completed in December 2010, March 2011 and June 2011. The report concluded that based on recent and historical groundwater monitoring data, the groundwater plume associated with Cole Park Cleaners appears to be adequately defined and generally stable. The report recommended conducting a Risk Assessment for the site. ATC completed a Risk Assessment for the site in July 2013. The results of the risk assessment indicated that the risk associated with the site contamination is below the risk levels considered acceptable by the DSCA Program. If land-use controls can be implemented to ensure the risk assessment assumptions remain valid in the future, no further action status is recommended for the site.

4.2 Remedial Action

According to the DSCA Program's RBCA guidance, no remedial action is necessary if four site conditions are met. Each of these conditions and their applicability to the subject site are addressed below.

Condition 1: The dissolved plume is stable or decreasing.

Periodic groundwater monitoring has been conducted at the site since 2006. Constituents of concern (COCs) detected at the site historically above 2L Standards include PCE, benzene and 1,2-dichloroethane. Benzene and 1,2-dichloroethane were each detected only once at a concentration slightly above the 2L Standard and are attributed to sources other than the dry-cleaning solvent release. As such, ATC focused on PCE for the plume stability evaluation.

ATC prepared concentration versus distance and concentration versus time graphs for sampling events conducted at the site for PCE. The concentration versus distance graph shows that concentrations decrease with distance from the source and have consistently been below the 2L Standard in the most downgradient wells. The concentration versus time graph shows a decreasing trend in PCE concentrations. Based on these data, ATC concludes that the plume is stable. Documentation of the plume stability evaluation, including a figure showing monitoring well locations, a table showing historical groundwater analytical data, a concentration versus distance graph, and a concentration versus time graph are included in **Appendix A**.

Condition 2: The maximum concentration within the exposure domain for every complete exposure pathway of any COC is less than ten times the representative concentration of that COC.

ATC evaluated the representative concentrations calculated during the Risk Assessment and found that this condition has been met for all COCs and exposure pathways.

Condition 3: Adequate assurance is provided that the land-use assumptions used in the DSCA Program's RBCA process are not violated for current or future conditions.

Land-use controls will be implemented for the source property to ensure the assumptions made in the Risk Assessment remain valid in the future. Refer to Section 6.0 for additional details regarding the proposed land-use controls for the site.

Condition 4: There are no ecological concerns at the site.

ATC completed a Level 1 Ecological Risk Assessment for the site in accordance with the DSCA Program's RBCA guidance. The results of the evaluation indicate that the release does not pose an unacceptable ecological risk. The completed Level 1 Ecological Risk Assessment Checklists A and B and associated attachments are included in *Appendix B*.

The site's compliance with the four above referenced conditions confirms that the contaminant concentrations are not likely to pose an unacceptable risk either at present or in the future. The plume is expected to naturally attenuate over time and the appropriate remedial action is to implement appropriate land-use controls on the site property where soil and/or groundwater contamination is present.

5.0 DATA COLLECTED DURING RMP IMPLEMENTATION

No further sampling or other data collection activities are proposed for the site, as long as the assumptions detailed in the Notices of Dry-Cleaning Solvent Remediation (NDCSRs) remain valid. As such, this section is not applicable.

6.0 LAND-USE CONTROLS

As discussed in detail in Section 3.0, the recommendation for closure in the Risk Assessment for the site was based on the following land-use conditions:

- Activities that cause or create a vapor intrusion risk may not occur on the source property without prior approval of NCDENR; and
- Groundwater will not be utilized on the source property.

Institutional controls will be implemented to ensure that land-use conditions are maintained and monitored until the land-use controls are no longer required for the site. A Notice of Dry-cleaning Solvent Remediation (NDCSR) was prepared for the source property to comply with the land-use control requirements. The NDCSR is included in *Appendix C*. Refer to the NDCSR for the specific language to be incorporated to address each of the risk assessment assumptions detailed above. A plat showing the locations and types of dry-cleaning solvent contamination is

included as an exhibit to the NDCSR. The locations of dry-cleaning solvent contamination are where contaminants have been detected above unrestricted use standards.

7.0 LONG-TERM STEWARDSHIP PLAN

The NDCSR contains a clause which requires that the owner of the property submit notarized “Annual Certification of Land-use Restrictions” to NCDENR on an annual basis certifying that the NDCSR remains recorded with the Register of Deeds and that land-use restrictions are being complied with. An example of such a certification is included in *Appendix D*.

8.0 RMP IMPLEMENTATION SCHEDULE

Because the contamination is stable and confined to the source property and possible exposure to the contamination is managed through the NDCSRs no additional site remediation activities are required to implement the RMP. A 30-day public comment period will be held to allow the community an opportunity to comment on the proposed strategy. *Appendix E* includes example documents used to announce the public comment period in the local newspaper and to inform local officials, nearby property owners, and interested parties. As such, upon completion of the public comment period and final approval of the RMP, the NDCSR will be filed with the Chatham County Register of Deeds and will complete the RMP schedule.

9.0 CRITERIA FOR DEMONSTRATING RMP SUCCESS

The RMP will be successfully implemented once the required NDCSR has been executed and recorded with the Chatham County Register of Deeds. The NDCSR for the property may, at the request of the owner of the property, be canceled by DENR after the risk to public health and the environment associated with the dry-cleaning solvent contamination and any other contaminants included in the dry-cleaning solvent assessment and remediation agreement has been eliminated as a result of remediation of the property. If DENR is notified of a change in site conditions, per the notification requirements detailed in the NDCSR, the RMP will be reviewed to determine if the site conditions have impacted the requirements set forth in each NDCSR and if changes are required. Enforcement of the RMP will be maintained through receipt of the “Annual DSCA Land-use Restrictions Certification” from the property owner as part of the NDCSR requirements.

10.0 CONTINGENCY PLAN IF RMP FAILS

As discussed above, unless the DSCA Program is notified of a change in land-use conditions at the site, per the notification requirements detailed in this plan, the RMP will remain in effect until the RMP has met its objectives and is considered a success. Pursuant to N.C.G.S. 143-215.104K, if any of the LURs set out in the NDCSR are violated, the owner of the site property at the time the LURs are violated, the owner's successors and assigns, and the owner's agents who direct or contract for alteration of the site in violation of the LURs, shall be held liable for the remediation of all contaminants to unrestricted use standards.

11.0 CONCLUSIONS AND RECOMMENDATIONS

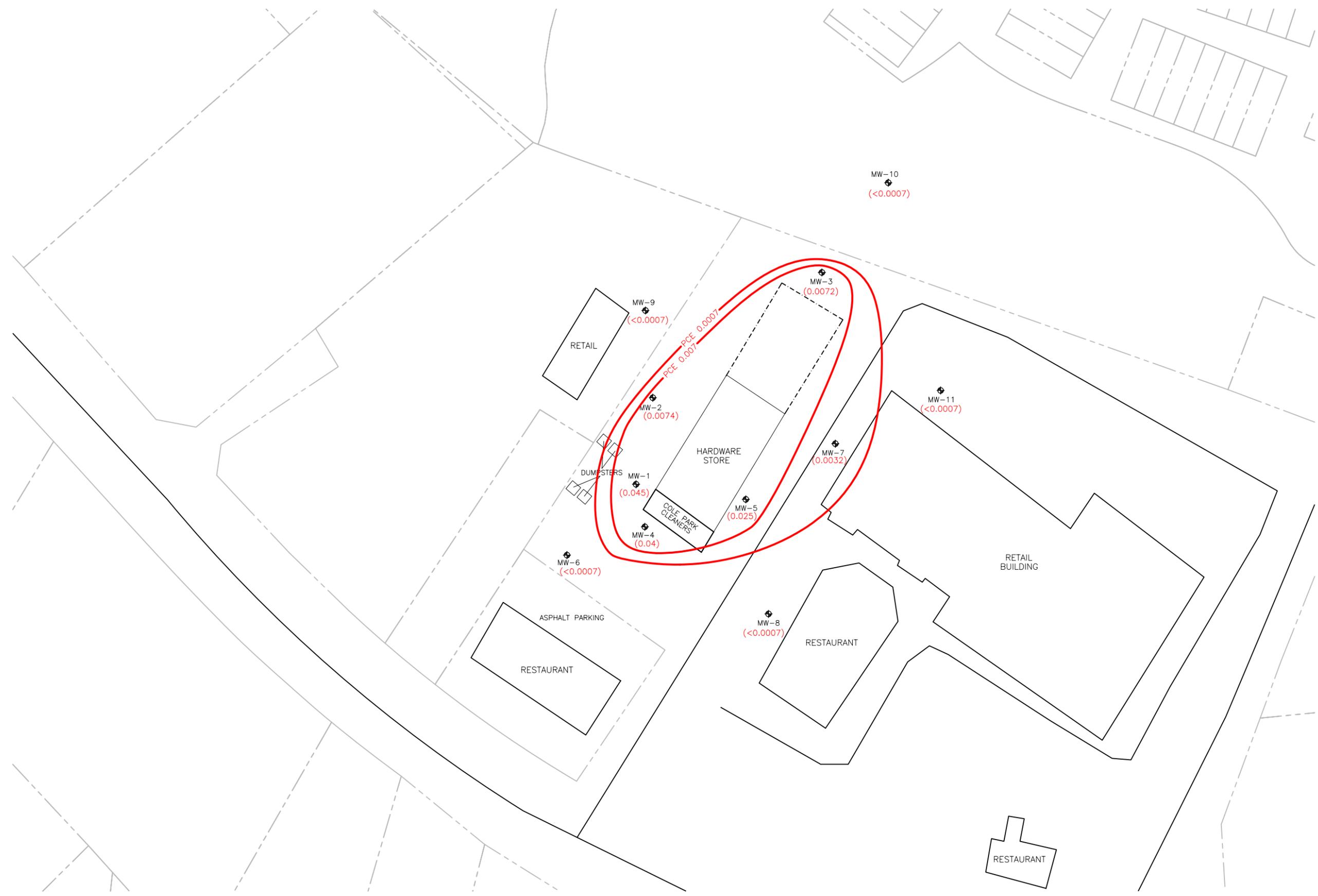
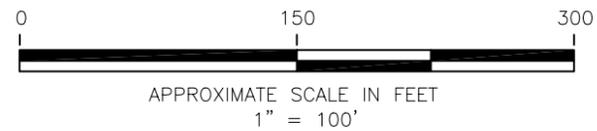
ATC has prepared this RMP for Cole Park Cleaners site on behalf of the NCDENR DSCA Program. The results of a Risk Assessment indicated that contaminant concentrations at the site do not pose an unacceptable risk. The contaminant plume associated with the site appears stable or decreasing. This RMP specifies that the NDCSR requirements provide notification that land-use conditions observed during the risk assessment evaluation remain valid in the future. Based on the documentation contained in this report, ATC recommends issuance of a "No Further Action" letter.

APPENDIX A

DOCUMENTATION OF PLUME STABILITY EVALUATION

LEGEND

- = PROPERTY BOUNDARY
- ⊕ = MONITORING WELL LOCATION
- (0.031) = PCE ISOCONCENTRATION CONTOUR (mg/L - DASHED WHERE APPROXIMATE)
- (0.031) = PCE CONCENTRATION

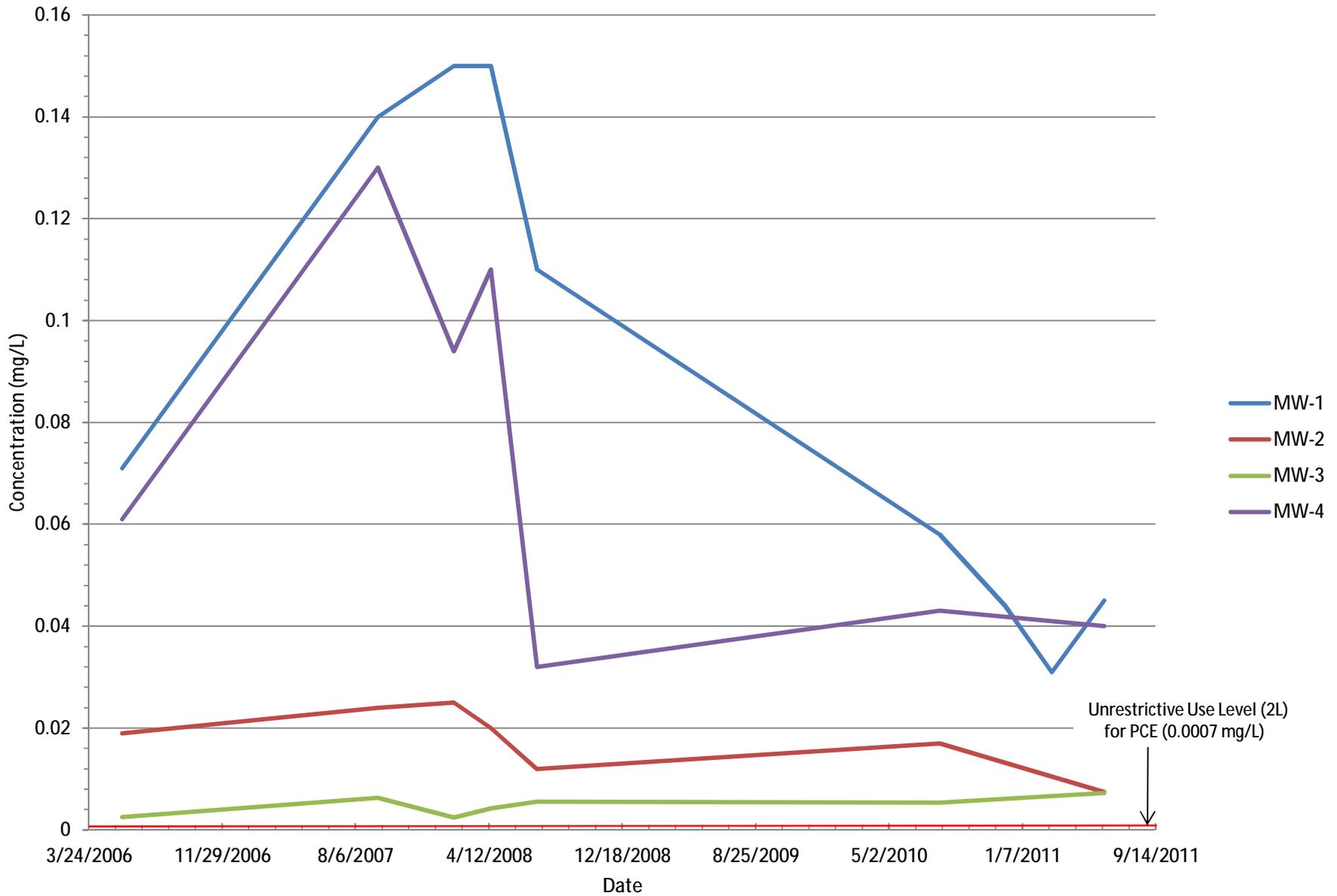


Project Number: 45.34341.1901	Drn. By: LB
Drawing File:	Ckd. By:
Date: 03/30/11	App'd By: NS
Scale: AS SHOWN	ATTACHMENT
VATC ASSOCIATES INC.	
7C	

ATTACHMENT 7C
CHEMICALS OF CONCERN IN GROUNDWATER MAP
 COLE PARK CLEANERS DSCA# 19-0001
 11552 US HWY 15-501
 CHAPEL HILL, NORTH CAROLINA

NOTES:
 1. MAP BASED ON DRAWING BY WITHERS & RAVENEL DATED 11/12/07
 2. GROUNDWATER SAMPLES COLLECTED 06/09-10/11

PCE Concentration vs. Time



PCE Concentration vs. Distance

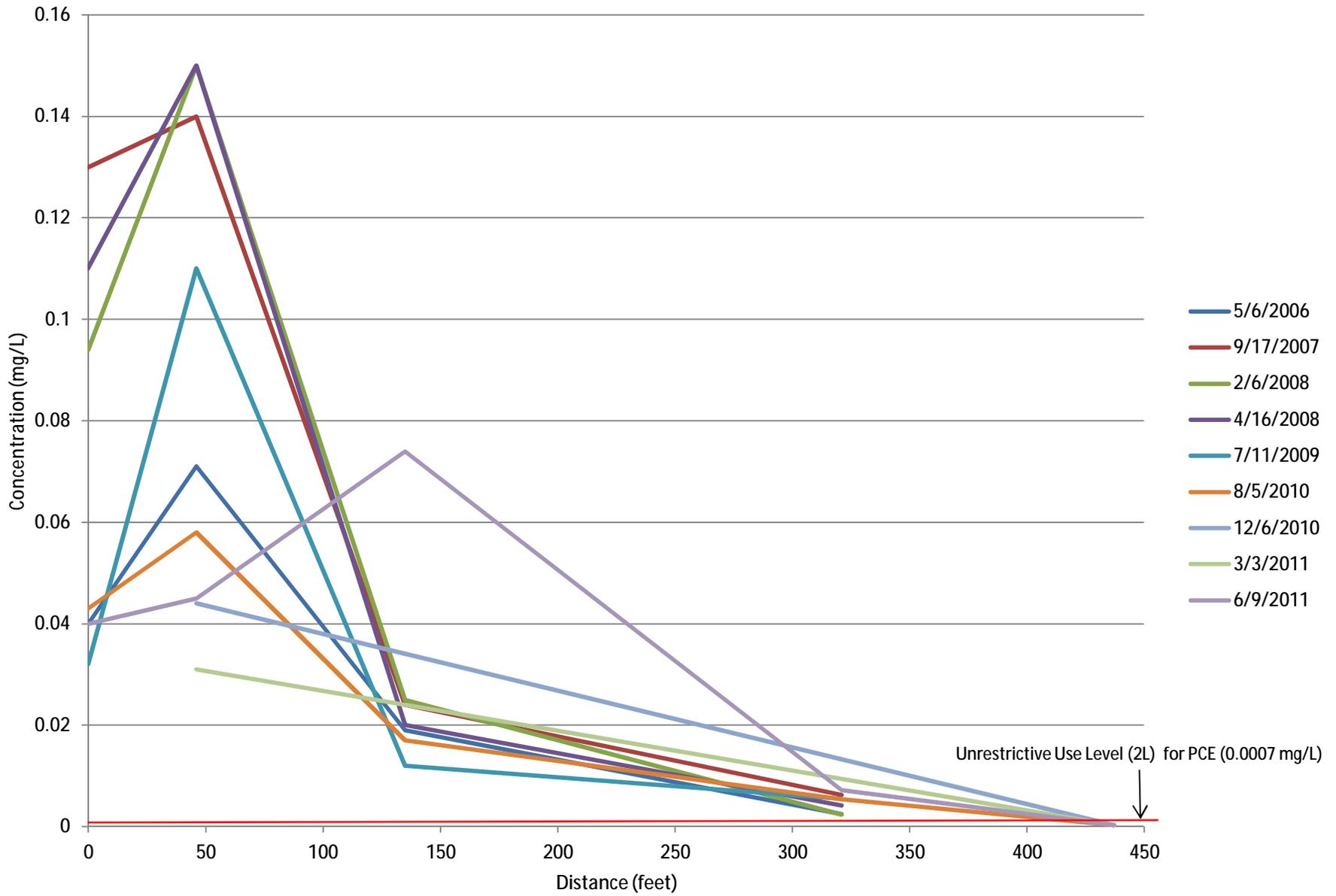


Table 1: Analytical Data for Groundwater

ADT 1

DSCA ID No.: 19-0001																										
Groundwater Sampling Point	Sampling Date (mm/dd/yy)	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane (EDC)	Benzene	Benzo(a)pyrene	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)	Acetone	Chloromethane	Methylene Chloride	Styrene	
		[mg/L]																								
GP-1	4/30/06	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0052	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005	<0.01	<0.005	<0.005	<0.005
GP-2	4/30/06	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005	<0.01	<0.005	<0.005	<0.005
GP-4	4/30/06	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005	<0.01	<0.0025	<0.005	<0.005
MW-1	5/26/06	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.071	<0.005	<0.005	<0.005	<0.002	<0.005	<0.01	<0.0025	<0.005	<0.005	
	9/17/07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.14	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001
	2/6/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.15	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001
	4/16/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.15	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001
	7/11/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.11	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001
	8/5/10	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	0.058	<0.005	<0.005	<0.0028	<0.0005	<0.005	<0.05	<0.0025	<0.005	<0.005	
	12/6/10	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	0.044	<0.005	<0.005	<0.0028	<0.0005	<0.005	0.002J	0.0011J	<0.005	<0.005	
	3/3/11	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	0.0019	NA	<0.0005	<0.005	<0.005	<0.005	0.00062J	0.002J	0.031	0.0048J	<0.005	<0.0028	<0.0005	0.0017J	<0.05	<0.005	<0.005	<0.005	
	6/9/11	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	0.00051J	<0.005	<0.005	0.045	0.0028J	<0.005	<0.0028	<0.0005	0.0029J	<0.05	<0.005	<0.005	<0.005	
MW-2	5/26/06	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.019	<0.005	<0.005	<0.005	<0.002	<0.005	<0.01	<0.0025	<0.005	<0.005	
	9/17/07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.024	<0.005	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001	
	2/6/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.025	<0.005	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001	
	4/15/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.02	<0.005	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001	
	7/11/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.012	<0.005	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001	
	8/4/10	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	0.017	<0.005	<0.005	<0.0028	<0.0005	<0.005	<0.05	<0.005	<0.005	<0.005	
	6/9/11	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0074	<0.005	<0.005	<0.0028	<0.0005	0.00115J	<0.05	<0.005	<0.005	<0.005	
NC 2L Standard		0.2	0.0002	NE	0.006	0.007	0.0004	0.001	5x10 ⁻⁶	0.0003	0.07	0.07	0.6	0.02	0.006	0.0007	0.6	0.1	0.003	3x10 ⁻⁵	0.5	6	3	5	70	

Table 1: Analytical Data for Groundwater

ADT 1

DSCA ID No.: 19-0001																										
Groundwater Sampling Point	Sampling Date (mm/dd/yy)	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane (EDC)	Benzene	Benzo(a)pyrene	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)	Acetone	Chloromethane	Methylene Chloride	Styrene	
		[mg/L]																								
MW-3	5/26/06	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005	<0.01	<0.0025	<0.005	<0.005
	9/17/07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.0063	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001
	2/6/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.0024	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001
	4/16/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.0042	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001
	7/11/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.0055	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001
	8/4/10	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0054	<0.005	<0.005	<0.0028	<0.0005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005
6/9/11	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0072	<0.005	<0.005	<0.0028	<0.0005	0.00071J	<0.05	<0.005	<0.005	<0.005	<0.005	
MW-4	1/12/07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.061	<0.001	<0.001	<0.001	<0.001	<0.002	<0.01	<0.0025	<0.005	<0.001	
	9/14/07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.13	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001	
	2/6/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.094	<0.005	<0.001	0.0011	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001	<0.001	
	4/15/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.11	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001	
	7/11/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.032	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001	
	8/5/10	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	0.043	<0.005	<0.005	<0.0028	<0.0005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005
6/9/11	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	0.04	<0.005	<0.005	<0.0028	<0.0005	0.00116J	<0.05	<0.005	<0.005	<0.005	<0.005	
MW-5	1/12/07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072	<0.001	<0.001	<0.001	<0.001	<0.002	<0.01	<0.0025	<0.005	<0.001	
	9/17/07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.032	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001	
	2/6/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.034	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001	
	4/15/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.037	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001	
	7/11/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.052	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001	
	8/5/10	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	0.018	<0.005	<0.005	<0.0028	<0.0005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005
6/9/11	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	0.025	<0.005	<0.005	<0.0028	<0.0005	0.00115J	<0.05	<0.005	<0.005	<0.005	<0.005	
MW-6	9/17/07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.0019	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001	
	2/6/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001	
	4/16/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001	
	7/11/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001	
	8/4/10	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	0.0012J	<0.005	<0.005	0.00057J	<0.005	0.00057J	<0.005	<0.005	<0.0028	<0.0005	<0.005	0.0049J	<0.005	<0.005	<0.005	<0.005
	6/9/11	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	0.0019J	<0.005	<0.005	<0.005	<0.005	<0.0007	<0.005	<0.005	<0.0028	<0.0005	0.00139J	0.036J	<0.005	<0.005	<0.005	0.00028J
NC 2L Standard	0.2	0.0002	NE	0.006	0.007	0.0004	0.001	5x10 ⁻⁶	0.0003	0.07	0.07	0.6	0.02	0.006	0.0007	0.6	0.1	0.003	3x10 ⁻⁵	0.5	6	3	5	70		

Table 1: Analytical Data for Groundwater

ADT 1

DSCA ID No.: 19-0001																										
Groundwater Sampling Point	Sampling Date (mm/dd/yy)	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane (EDC)	Benzene	Benzo(a)pyrene	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)	Acetone	Chloromethane	Methylene Chloride	Styrene	
		[mg/L]																								
MW-7	9/14/07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.0046	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001
	2/6/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.0027	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001
	4/15/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.0031	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001
	7/11/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.0027	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001
	8/4/10	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0016	<0.005	<0.005	<0.0028	<0.0005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
	6/10/11	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0032	0.00038J	<0.005	<0.0028	<0.0005	0.00094J	<0.05	<0.005	<0.005	<0.005	<0.005
MW-8	9/17/07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.0012	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001
	2/6/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001
	4/15/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	0.11	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001
	7/11/08	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.003	<0.05	<0.0025	<0.005	<0.001
	8/4/10	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00049J	<0.005	<0.005	<0.0028	<0.0005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005
	6/9/11	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0007	0.00069J	<0.005	<0.0028	<0.0005	0.00113J	<0.05	<0.005	<0.005	<0.005	<0.005
MW-9	8/4/10	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0007	<0.005	<0.005	<0.0028	<0.0005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	
	12/6/10	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00046J	<0.0007	<0.005	<0.005	<0.0028	<0.0005	<0.005	<0.05	0.0015J	0.00084J	<0.005	
	3/3/11	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.0005	0.00038J	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0007	0.0012J	<0.005	<0.0028	<0.0005	<0.005	<0.05	<0.005	<0.005	<0.005	
	6/10/11	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0007	0.00046J	<0.005	<0.0028	<0.0005	0.00105J	0.006J	<0.005	<0.005	<0.005	
MW-10	8/5/10	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0007	<0.005	<0.005	<0.0028	<0.0005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	
	12/6/10	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0007	<0.005	<0.005	<0.0028	<0.0005	<0.005	0.0023J	0.0012J	<0.005	<0.005	<0.005	
	3/3/11	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0005J	<0.0007	<0.005	<0.005	<0.0028	<0.0005	<0.005	<0.05	<0.005	<0.005	<0.005	
	6/10/11	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0007	0.00034J	<0.005	<0.0028	<0.0005	0.00106J	0.0067J	<0.005	<0.005	<0.005	<0.005	
MW-11	8/4/10	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0007	<0.005	<0.005	<0.0028	<0.0005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	
	12/6/10	<0.005	<0.0005	<0.005	<0.0005	<0.005	0.0037J	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.0007	<0.005	<0.005	<0.0028	<0.0005	<0.005	0.0021J	0.001J	<0.005	<0.005	<0.005	
	3/3/11	<0.005	<0.0005	<0.005	<0.0005	<0.005	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0007	<0.005	<0.005	<0.0028	<0.0005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	
	6/10/11	<0.005	<0.0005	<0.005	<0.0005	<0.005	0.0014J	<0.0005	NA	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.0007	0.00067J	<0.005	<0.0028	<0.0005	0.00094J	<0.05	<0.005	<0.005	<0.005	<0.005	
NC 2L Standard		0.2	0.0002	NE	0.006	0.007	0.0004	0.001	5x10 ⁻⁶	0.0003	0.07	0.07	0.6	0.02	0.006	0.0007	0.6	0.1	0.003	3x10 ⁻⁵	0.5	6	3	5	70	

APPENDIX B

LEVEL 1 ECOLOGICAL RISK ASSESSMENT CHECKLISTS

Appendix B
Ecological Risk Assessment – Level 1
Cole Park Cleaners
11552 US Highway 15-501 North
Chapel Hill, Chatham County, NC
ATC Project No: 45.34341.1901
DSCA Site ID: 19-0001

Checklist A

1. Are there navigable water bodies or tributaries to a navigable water body on or within the one-half mile of the site?

Based on the Farrington Quadrangle Topographic map and the United States Fish and Wildlife Service (USFWS), several small ponds and tributaries are located within one-half mile of the site. The closest is a tributary to Cub Creek located approximately 1,280 feet southeast of the site. See the topographic map in **Attachment 1** and the USFWS Wetlands Map in **Attachment 2**.

2. Are there any water bodies anywhere on or within the one-half mile of the site?

Based on the Farrington Quadrangle Topographic map and the USFWS, several small ponds and tributaries are located within one-half mile of the site. The closest is a tributary to Cub Creek located approximately 1,280 feet southeast of the site.

3. Are there any wetland areas such as marshes or swamps on or within one-half mile of the site?

Based on the USFWS Wetland Map, wetland areas are associated with the various ponds and tributaries within one-half mile of the site. The closest is associated with a tributary to Cub Creek located approximately 1,280 feet southeast of the site.

4. Are there any sensitive environmental areas on or within one-half mile of the site?

Based on a review of the USFWS online database, no critical habitats or significant natural areas are located within one-half mile of the site. However, wetlands associated with area surface water bodies are considered a sensitive environment.

5. Are there any areas on or within one-half mile of the site owned or used by local tribes?

Based on site observations and the North Carolina Department of Cultural Resources, no tribal artifacts or lands have been identified on or within one-half mile of the site.

6. Are there any habitat, foraging area or refuge by rare, threatened, endangered, candidate and/or proposed species (plants or animals), or any otherwise protected species on or within one-half of the site?

Based on the USFWS online databases, there are no wilderness areas or wildlife refuges within one-half mile of the site.

7. Are there any breeding, roosting or feeding areas by migratory bird species on or within one-half of the site?

The Migratory Bird Treaty Act was developed to help reduce potential migratory bird strikes with aircraft, wind turbines and towers. Many species of birds are protected that are common to the United States, Canada, and Mexico. Therefore, many species of birds in Chatham County (e.g., Bald Eagle, Canadian Goose, Mourning Dove) are likely to be within one-half mile of the site.

8. Are there any ecologically, recreationally, or commercially important species on or within one-half mile of the site?

The site is located in an urban setting with mostly commercial and residential properties surrounding the property. It is unlikely that recreational or commercially important species are within one-half mile of the site. However, ecologically important species may exist in the area of surface water bodies in the site vicinity.

9. Are there any threatened and/or endangered species (plant or animal) on or within one-half mile of the site?

ATC reviewed the USFWS online species list. Several species were identified within Chatham County including the red-cockaded woodpecker, the Cape Fear shiner fish and a Harperella flowering plant.

ATC also reviewed the North Carolina Heritage Program online Farrington Quadrangle species list. Several species were identified within the Farrington Quadrangle including several types of vascular plants, hardwood trees, birds and freshwater species. Types of species identified by the investigation include the Carolina Ladle Crayfish, Ringed Witch Grass, Yellow Lampmussel freshwater bivalve, and the Bald Eagle.

Checklist B

1A. Can chemicals associated with the site leach, dissolve, or otherwise migrate to groundwater?

Yes. The primary constituent of concern is tetrachloroethylene (PCE). Based on published references (EPA, 2006), PCE is leachable to groundwater and is slightly soluble in groundwater. Furthermore, impacted groundwater has been confirmed at the site.

1B. Are chemicals associated with the site mobile in groundwater?

Yes. Chemical mobility is primarily influenced by the chemical solubility and soil-water partition coefficient. Based on these values, PCE is classified as moderately mobile (Fetter, 1988).

1C. Does groundwater from the site discharge to an ecological receptor habitat?

The primary ecological receptor habitat identified in the site vicinity is a small tributary to Cub Creek located approximately 1,280 feet southeast of the site. However, the plume has been defined and the impacted groundwater does not appear likely to reach this ecological receptor habitat.

1. Could chemicals associated with the site reach ecological receptors through groundwater?

No. The plume is confined to the source property and does not appear likely to reach the nearest ecological receptor habitats.

2A. Are chemicals present in surface soils on the site?

Yes. Surficial soils have been impacted at the site. PCE has been detected at a concentration of 0.0034 milligrams per kilogram (mg/kg) in surficial soil.

2B. Can chemicals be leached from or be transported by erosion of surface soil on the site?

No. The impacted surficial soils at the site are covered by concrete or asphalt. As such, erosion and transport of impacted surficial soils from the site does not appear likely.

2. Could chemicals associated with the site reach ecological receptors through runoff or erosion?

Because impacted soil at the site is overlain by asphalt, it is unlikely that runoff or erosion of the soil would occur or reach ecological receptors.

3A. Are chemicals present in the surface soil or on the surface of the ground?

Chemicals are present in surface soils on the site. Impacted soil at the site is overlain by asphalt.

3B. Are potential ecological receptors on the site?

Ecological receptors are unlikely to be present on the source property. The primary ecological receptor identified in the site vicinity is a small tributary to Cub Creek approximately 1,280 feet southeast of the site. Several bird species were identified to be associated with wetland areas, but the site is an active shopping center so these species appear unlikely to be present on the site property.

3. Could chemicals associated with the site reach ecological receptors through direct contact?

It is unlikely that chemicals associated with the site would reach ecological receptors through direct contact. Surficial impacted soil is overlain by asphalt and ecological receptors are unlikely to be present in the area.

4A. Are chemicals on the site volatile?

Yes. Chlorinated solvents are considered volatile organic compounds.

4B. Could chemicals on the site be transported in air as dust or particulate matter?

It is unlikely that chemicals on the site be transported in air or as particulate matter. Impacted soil located on the site is overlain by asphalt.

4. Could chemicals associated with the site reach ecological receptors through inhalation of volatilized chemicals or adhered chemicals to dust in ambient air or in subsurface burrows?

As discussed above, impacted soils are overlain by asphalt.

5A. Is Non-Aqueous Phase Liquid (NAPL) present at the site?

No. NAPL has not been encountered at the site.

5B. Is NAPL migrating?

No. NAPL has not been encountered at the site.

5C. Could NAPL discharge occur where ecological receptors are found?

No. NAPL has not been encountered at the site.

5. Could chemicals associated with the site reach ecological receptors through migration of NAPL?

No. NAPL has not been encountered at the site.

6A. Are chemicals present in surface and shallow subsurface soils or on the surface of the ground?

Impacted surficial soils at the site are overlain by asphalt.

6B. Are chemicals found in the soil on the site taken up by plants growing on the site?

Impacted surficial soils are overlain by asphalt. Therefore, no plants are present that might take up chemicals.

6C. Do potential ecological receptors on or near the site feed on plants (e.g., grasses, shrubs, forbs, trees, etc.) found on the site?

The site is located in a large shopping center and significant ecological receptors are unlikely to be present for a significant time period.

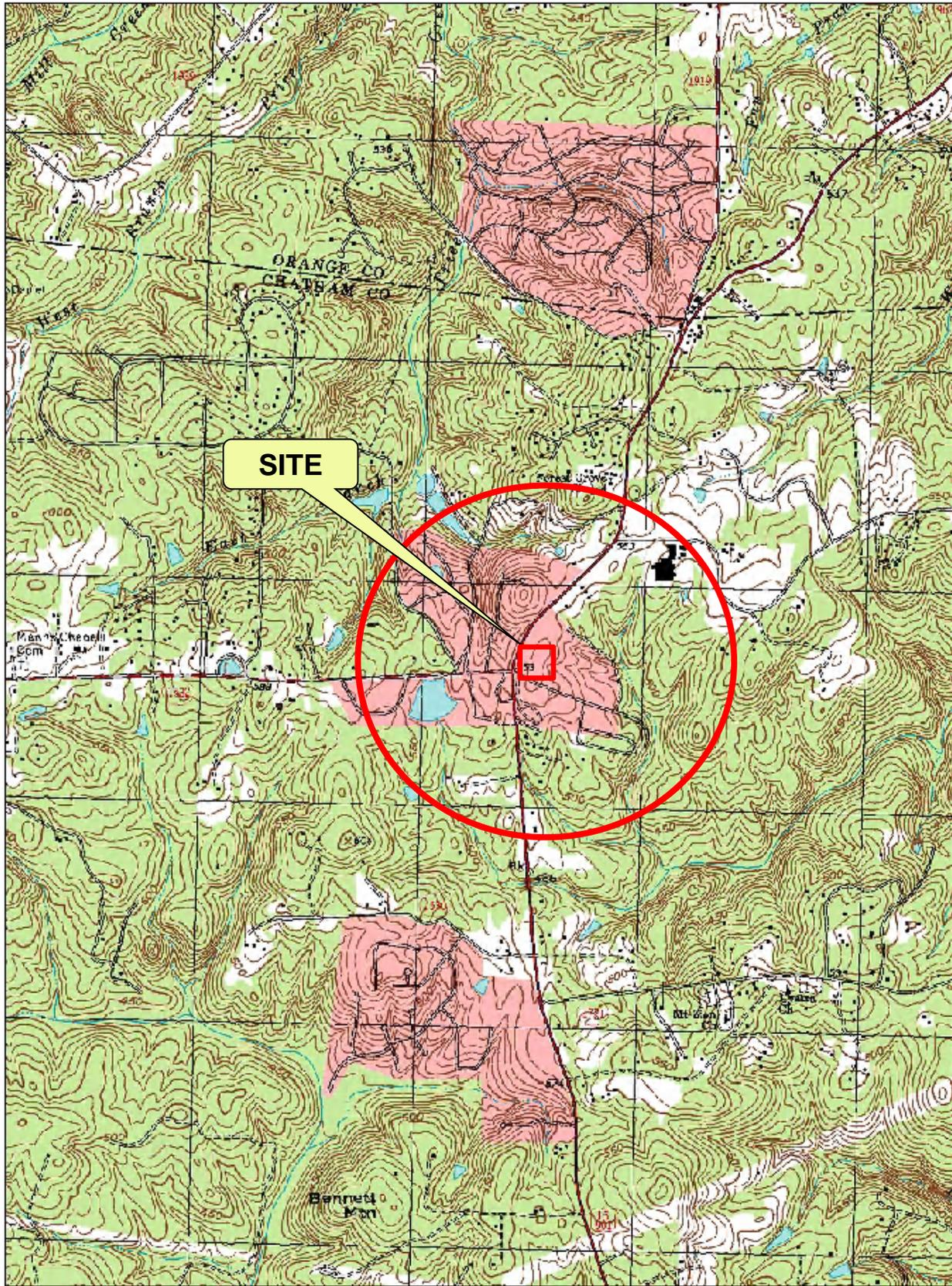
6D. Do chemicals found on the site bioaccumulate?

Based on published references (U.S. Agency for Toxic Substances and Disease Registry, 1997), PCE does not significantly bioaccumulate.

6. Could chemicals associated with the site reach ecological receptors through direct ingestion of soil, plants, animals, or contaminants?

Because impacted surficial soils at the site are overlain by asphalt, the minimal vegetation at the site, the commercial environment of the source property, and the absence of bioaccumulation for the chemicals of concern, it is not anticipated that chemicals associated with the site would reach ecological receptors through direct ingestion of soil, plants, animals, or contaminants.

**Attachment 1: Topographic Map, Farrington Quadrangle
Cole Park Cleaners, DSCA Site ID #19-0001**



— 1/2 mile radius



U.S. Fish and Wildlife Service National Wetlands Inventory

Cole Park Cleaners

May 9, 2013



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

Riparian

- Herbaceous
- Forested/Shrub

Riparian Status

- Digital Data

User Remarks:

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper website.

APPENDIX C

NOTICE OF DRY-CLEANING SOLVENT REMEDIATION FOR SOURCE PROPERTY

NOTICE OF DRY-CLEANING SOLVENT REMEDIATION

Property Owner: TKC CXLIII LLC
Recorded in Book _____, Page _____
Associated plat recorded in Plat Book _____, Page _____

This documentary component of a Notice of Dry-Cleaning Solvent Remediation (hereinafter "Notice") is hereby recorded on this ____ day of _____, 20____ by TKC CXLIII LLC (hereinafter "Property Owner"). The survey plat component of the Notice is being recorded concurrently with this documentary component. The real property (hereinafter "Property") which is the subject of this Notice is located at 11552 US Highway 15-501 North, Chapel Hill, Chatham County, North Carolina, Parcel Identification Number (PIN) 9776-33-5210.

The Property is contaminated with dry-cleaning solvent, as defined at North Carolina General Statutes (hereinafter "N.C.G.S."), Section (hereinafter "§") 143-215.104B(b)(9) and other contaminants, and is one of two parcels that make up the dry-cleaning solvent contamination site (hereinafter "Contamination Site"). This Notice has been approved by the North Carolina Department of Environment and Natural Resources, or its successor in function (hereinafter "DENR") under the authority of the Dry-Cleaning Solvent Cleanup Act of 1997, as amended, N.C.G.S. § 143-215.104A *et seq.* (hereinafter "DSCA"), and is required to be filed in the Register of Deeds' Office in the county or counties in which the land is located, pursuant to NCGS § 143-215.104M. A Notice will be recorded separately in each chain of title of the Contamination Site.

Soil and groundwater at the Property are contaminated with dry-cleaning solvents associated with dry-cleaning operations at Cole Park Cleaners (DSCA Site 19-0001) located at 11552 US Highway 15-501 North, in the Cole Park Plaza. Dry-cleaning operations have been conducted on the Property since approximately 1983.

Pursuant to N.C.G.S. § 143-215.104M, this Notice is being filed in order to reduce or eliminate the danger to public health or the environment posed by the Property. Attached hereto as **Exhibit A** is a reduction, to 8 1/2" x 11", of the survey plat component of the Notice required

by N.C.G.S. § 143-215.104M. The survey plat has been prepared and certified by a professional land surveyor and meets the requirements of G.S. 47-30, and contains the following information required by N.C.G.S. § 143-215.104M:

- (1) A description of the location and dimensions of the areas of potential environmental concern with respect to permanently surveyed benchmarks; and
- (2) The type, location and quantity of regulated dry-cleaning solvent contamination and other contaminants known to exist on the Property.

Attached hereto as **Exhibit B**, is a legal description of the Property that would be sufficient as a description in an instrument of conveyance.

Pursuant to NCGS § 143-215.104M, a certified copy of this Notice must be filed within 15 days of receipt of DENR's approval of the Notice or the effective date of the dry-cleaning solvent remediation agreement, whichever is later. Pursuant to NCGS § 143-215.104M, the copy of the Notice certified by DENR must be recorded in the grantor index under the names of the owners of the land.

LAND-USE RESTRICTIONS

NCGS § 143-215.104M requires that the Notice identify any restrictions on the current and future use of the Property that are necessary or useful to maintain the level of protection appropriate for the designated current or future use of the Property and that are designated in the dry-cleaning remediation agreement. The restrictions shall remain in force in perpetuity unless canceled by the Secretary of DENR, or his/her designee, after the hazards have been eliminated, pursuant to NCGS §143-215.104M. Those restrictions are hereby imposed on the Property, and are as follows:

- 1. No activities that cause or create a vapor intrusion risk (for example, construction of sub-grade structures that encounter contaminated soil or construction that places building users in close proximity to contaminated groundwater) may occur on the Property without prior approval of DENR.**
- 2. Without prior written approval from DENR, the Property shall not be used for:**
 - a. child care centers or schools; or**
 - b. mining or extraction of coal, oil, gas or any mineral or non-mineral substances.**
- 3. No activities that encounter, expose, remove or use groundwater (for example, installation of water supply wells, fountains, ponds, lakes or swimming pools that use groundwater, or construction or excavation activities that encounter or expose groundwater) may occur on the Property without prior approval of DENR.**
- 4. In January of each year, on or before January 31st, the owner of any portion of the Property shall submit a notarized Annual DSCA Land-Use Restrictions**

Certification to DENR certifying that this Notice remains recorded at the Register of Deeds' office, and that the Land-Use Restrictions are being complied with.

- 5. No person conducting environmental assessment or remediation at the Property or involved in determining compliance with applicable land-use restrictions, at the direction of, or pursuant to a permit or order issued by DENR may be denied access to the Property for the purpose of conducting such activities.**
- 6. The owner of any portion of the Property shall cause the instrument of any sale, lease, grant, or other transfer of any interest in the property to include a provision expressly requiring the lessee, grantee, or transferee to comply with this Notice. The failure to include such a provision shall not affect the validity or applicability of any land-use restriction in this Notice.**

EASEMENT (RIGHT OF ENTRY)

The property owner grants and conveys to DENR, its agents, contractors, and employees, and any person performing pollution remediation activities under the direction of DENR, access at reasonable times and under reasonable security requirements to the Property to determine and monitor compliance with the land-use restrictions set forth in this Notice. Such investigations and actions are necessary by DENR to ensure that use, occupancy, and activities of and at the Property are consistent with the land-use restrictions and to ensure that the structural integrity and continued effectiveness of any engineering controls (if appropriate) described in the Notice are maintained. Whenever possible, at least 48 hours advance notice will be given to the Property Owner prior to entry. Advance notice may not always be possible due to conditions such as response time to complaints and emergency situations.

REPRESENTATIONS AND WARRANTIES

The Property Owner hereby represents and warrants to the other signatories hereto:

- i) that the Property Owner is the sole owner of the Property; **or** that the Property Owner has provided to DENR the names of all other persons that own an interest in or hold an encumbrance on the Property and have notified such persons of the Property Owner's intention to enter into this Notice;
- ii) that the Property Owner has the power and authority to enter into this Notice, to grant the rights and interests herein provided and to carry out all obligations hereunder; and
- iii) that this Notice will not materially violate or contravene or constitute a material default under any other agreement, document or instrument to which the Property Owner is a party or by which the Property Owner may be bound or affected.

ENFORCEMENT

The above land-use restrictions shall be enforceable without regard to lack of privity of estate or contract, lack of benefit to particular land, or lack of any property interest in particular land. The land-use restrictions shall be enforced by any owner of the Property. The land-use restrictions may also be enforced by DENR through the remedies provided in NCGS § 143-215.104P or by means of a civil action; by any unit of local government having jurisdiction over any part of the Property; and by any person eligible for liability protection under the DSCA who will lose liability protection if the restrictions are violated. Any attempt to cancel any or all of this Declaration without the approval of the Secretary of DENR (or its successor in function), or his/her delegate, shall be subject to enforcement by DENR to the full extent of the law. Failure by any party required-or authorized to enforce any of the above restrictions shall in no event be deemed a waiver of the right to do so thereafter as to the same violation or as to one occurring prior or subsequent thereto.

If a land-use restriction set out in this Notice required under NCGS § 143-215.104.M is violated, the owner of the Property at the time the land-use restriction is violated, the owner's successors and assigns, and the owner's agents who direct or contract for alteration of the contamination site in violation of a land-use restriction shall be liable for remediation of all contaminants to unrestricted use standards.

FUTURE SALES, LEASES, CONVEYANCES AND TRANSFERS

When any portion of the Property is sold, leased, conveyed or transferred, pursuant to NCGS § 143-215.104M the deed or other instrument of transfer shall contain in the description section, in no smaller type than that used in the body of the deed or instrument, a statement that the Property has been contaminated with dry-cleaning solvent and, if appropriate, cleaned up under the DSCA.

The Property Owner shall notify DENR within fourteen (14) calendar days of the effective date of any conveyance, grant, gift, or other transfer, whole or in part, of the Owner's interest in the property, but such notification requirement does not apply with regard to the Property Owner's execution of a lease of any portion of the Property. This Notice shall include the name, business address and phone number of the transferee and the expected date of transfer.

The Property Owner shall notify DENR within thirty (30) days following the petitioning or filing of any document by any person initiating a rezoning of the Property that would change the base zone of the Property.

PROPERTY OWNER SIGNATURE

IN WITNESS WHEREOF, Property Owner has caused this instrument to be duly executed this ___ day of _____, 20__.

TKC CXLIII LLC

By:

Name of contact

STATE OF _____
COUNTY OF _____

I, _____, a Notary Public of the county and state aforesaid, certify that _____ personally came before me this day and acknowledged that he/she is a Member of TKC CXLIII LLC, and its Manager, and that by authority duly given and as the act of the company, the foregoing Notice of Dry-Cleaning Solvent Remediation was signed in its name by him.

WITNESS my hand and official stamp or seal, this ___ day of _____, 20__.

Name typed or printed
Notary Public

My Commission expires: _____
[Stamp/Seal]

APPROVAL AND CERTIFICATION

The foregoing Notice of Dry-Cleaning Solvent Remediation is hereby approved and certified.

North Carolina Department of Environment and Natural Resources

By: _____
Jim Bateson, LG
Chief, Superfund Section
Division of Waste Management

Date

LIMITED POWER OF ATTORNEY

I _____ “Property Owner”, do hereby grant a limited power of attorney to DENR and to DENR’s independent contractors, as follows:

DENR and DENR’s independent contractors shall have the limited power of attorney to record this Notice, including its documentary and survey plat components, in accordance with N.C.G.S. § 143-215.104M on my “Property Owner” behalf. This limited power of attorney shall terminate upon completion of the recordation of the Notice.

Signature of Property Owner _____
Dated this ____ day of _____, 20__.

STATE OF _____
COUNTY OF _____

I, _____, a Notary Public, do hereby certify that _____ personally appeared before me this day and signed this “Limited Power of Attorney”.

WITNESS my hand and official stamp or seal, this ____ day of _____, 20__.

Name typed or printed
Notary Public

My Commission expires: _____
[Stamp/Seal]

EXHIBIT A
REDUCTION OF SURVEY PLAT

EXHIBIT B

LEGAL DESCRIPTION FOR PROPERTY

That certain piece, parcel or tract of land, lying and being situated in Williams Township, Chatham County, North Carolina, and being more particularly described as follows:

BEGINNING at a railroad spike set in the eastern right-of-way of U.S. Highway 15-501, which railroad spike is located South 80° 36' 30" East 51.80 feet from a PK nail found at the point of intersection of the centerline of U.S. Highway 15-501 and State Road 1532, said spike also being the northwestern corner of property now or formerly owned by J H H Associates, Ltd. (a/k/a J. H. H. Associates, Ltd., and J H H Associates, Ltd.) (Deed Book 372, at Page 816, and Deed Book 384, at Page 3); and running thence, with the eastern right-of-way of U.S. Highway 15-501 and along the arc of a curve to the right, having a radius of 1,531.19 feet, a chord bearing of North 24° 08' 35" East, and a chord distance of 577.11 feet, an arc distance of 580.58 feet to an iron, said iron being the southwestern corner of property now or formerly owned by Hudson Cole Development Company, Inc. (a/k/a Hudson-Cole Development Co. [Company], Inc.) (Deed Book 592, at Page 685); thence, with said line of Hudson Cole Development Company, Inc., South 51° 25' 47" East 163.43 feet to a railroad spike set in an asphalt parking lot; thence, continuing with the line of Hudson Cole Development Company, Inc., North 38° 30' 00" East 175.00 feet to a railroad spike set in an asphalt parking lot; thence, with the line of additional property now or formerly owned by Hudson Cole Development Company, Inc. (Deed Book 473, at Page 378), and with the line of additional property now or formerly owned by Gray and Bradley Moody (Deed Book 548, at Page 843), South 51° 25' 47" East 411.90 feet to an iron pipe found (control corner) in the line of property now or formerly owned by Elwood and Mary P. Hardin (Deed Book 549, Page 291), which iron pipe marks the southeastern corner of the above-referenced Moody property; thence with the line of Elwood and Mary P. Hardin, South 24° 35' 30" West 453.47 feet to an iron found; thence with the line of Elwood and Mary P. Hardin and along the western boundary of the property of Hudson Cole Water and Sewer Company (now or formerly) South 26° 56' 43" West 179.93 feet to an iron found in the line of the above-referenced property now or formerly owned by J H H Associates, Ltd.; thence, with said line of J H H Associates, Ltd., North 62° 56' 59" West 588.99 feet to a railroad spike, the point and place of BEGINNING, containing 9.04 acres, more or less, according to survey by Charles R. Billings, Registered Land Surveyor, Freehold Land Surveys, Inc., dated August 29, 1997, and entitled ALTA/ACSM Land Title Survey of Cole Park Plaza. Reference is hereby made to Plat Book 37, at Page 53, of the Chatham County Registry, North Carolina, for further description.

The above-described property is the same as that property conveyed in Deed Book 490, at Page 124, SAVE AND EXCEPT the property conveyed in Deed Book 592, at Page 685, all Chatham County Registry, North Carolina.

SAVE AND EXCEPT FROM THE ABOVE DESCRIBED PROPERTY, that portion of the property taken by the Department of Transportation pursuant to that certain Judgment filed by the Department of Transportation, Plaintiff, v. Glenwood Triangle Company, L.L.C., W. Alan Nichols, Trustee, and Protective Life Insurance Company, Defendants, recorded May 8, 2002, in Book 932, Page 180, in the Office of the Register of Deeds of Chatham County, North Carolina.

APPENDIX D

EXAMPLE ANNUAL CERTIFICATION OF DSCA LAND-USE RESTRICTIONS

Annual Certification of Land-Use Restrictions

Site Name: Cole Park Cleaners
Site Address: 11552 US Highway 15-501 North, Chapel Hill, Chatham County
DSCA ID No: 19-0001

ANNUAL CERTIFICATION of LAND-USE RESTRICTIONS

Pursuant to Condition #4 in the Notice of Dry-Cleaning Solvent Remediation (Notice) signed by WRI-SRP Cole Park Plaza, LLC and recorded in Deed Book __ Page __ on <date> at the Chatham County Register of Deeds Office, TKC CXLIII LLC hereby certifies, as an owner of at least part of the property that is the subject of the Notice, that the Notice remains recorded at the Chatham County Register of Deeds office and the land-use restrictions therein are being complied with.

Duly executed this ____ day of _____, 20__.

TKC CXLIII LLC
By: _____
Name typed or printed:

STATE OF _____
COUNTY OF _____

I, _____, a Notary Public of the county and state aforesaid, certify that _____ personally came before me this day and the foregoing certification was signed by him/her.

WITNESS my hand and official stamp or seal, this ____ day of _____, 20__.

Name typed or printed:
Notary Public

My Commission expires: _____
[Stamp/Seal]

APPENDIX E
EXAMPLE DOCUMENTS ANNOUNCING THE PUBLIC COMMENT PERIOD



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Pat McCrory
Governor

Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

<Date>

<property owner>
<mailing address>
<city, state, zip>

Subj: Dry-Cleaning Solvent Contamination at 11552 US Highway 15-501 North
Chapel Hill, NC

Dear <property owner>:

You are receiving this letter because your property at <adjacent property address> is adjacent to an area contaminated with dry-cleaning solvents. The Dry-Cleaning Solvent Clean-up Act (DSCA) Program has completed an assessment of the dry-cleaning solvent contamination associated with the Cole Park Cleaners at 11552 US Highway 15-501 North in Chapel Hill. A remedial strategy to address the site contamination has been prepared, and in accordance with our program's statutes, the community has an opportunity to review and comment on the proposed strategy.

The attached Summary of the Notice of Intent to Remediate a Dry-Cleaning Solvent Facility or Abandoned Site (NOI) provides a brief description of the proposed remedy, a web link to the complete NOI, and the dates and procedures for commenting on the proposed remedy. If you do not have access to the internet, we ask that you contact us to request a hard copy of the complete NOI.

If you have questions, please contact me at (919) 707-8365.

Sincerely,

Delonda Alexander, Unit Supervisor
DSCA Remediation Unit
Delonda.Alexander@ncdenr.gov

Attachments: Summary of the NOI

Cc: DSCA Site # 19-0001 File



North Carolina Department of Environment and Natural Resources
Division of Waste Management
Dexter R. Matthews
Director

Pat McCrory
Governor

John E. Skvarla, III
Secretary

<Date>

<name>, <City Manager/County Health Director>
<address>
<city>, NC <zip>

Subj: Remediation of Dry-Cleaning Solvent Contamination
DSCA Site # 19-0001
Cole Park Cleaners, 11552 US Highway 15-501 North, Chapel Hill, NC

Dear <name>:

The Dry-Cleaning Solvent Cleanup Act of 1997 (DSCA), North Carolina General Statutes (N.C.G.S.) Sections 143-215.104A through 143-215.104U, provides for the assessment and remediation of properties that may have been or were contaminated by chlorinated solvents. To satisfy the requirements of N.C.G.S. 143-215.104L, this letter serves as the **Notice of Intent to Remediate a Dry-Cleaning Solvent Facility or Abandoned Site** (NOI) approved by the North Carolina Department of Environment and Natural Resources (DENR).

The NOI must provide, to the extent known, a legal description of the location of the DSCA Site, a map showing the location of the DSCA Site, a description of the contaminants involved and their concentrations in the media of the DSCA Site, a description of the intended future use of the DSCA Site, any proposed investigation and remediation, and a proposed Notice of Dry-Cleaning Solvent Remediation (NDCSR) prepared in accordance with N.C.G.S. Section 143-215.104M. The required components of the NOI are included in the attached Risk Management Plan, and are available on our website at www.ncdscs.org, under "Public Notices" during the public comment period.

The DSCA Program is providing a copy of the NOI to all local governments having jurisdiction over the DSCA Site. A 30-day public comment period is being held from <date>, until <date>. Written comments may be submitted to DENR no later than <date>. Written requests for a public meeting may be submitted to DENR no later than <date>. All such comments and requests should be sent to:

Delonda Alexander, DSCA Remediation Unit
Division of Waste Management, NC DENR
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Remediation of Dry-Cleaning Solvent Contamination

<date>

DSCA Site # 19-0001

Cole Park Cleaners, 11552 US Highway 15-501 North, Chapel Hill

Page 2

A Summary of the NOI is being published in The Chapel Hill News, copies are being sent to owners of property within and contiguous with the area of contamination, and a copy of the Summary will be conspicuously posted at the Site during the public comment period.

If you have any questions, please feel free to contact me at (919)707-8365.

Sincerely,

Delonda Alexander, Unit Supervisor

DSCA Remediation Unit

Delonda.Alexander@ncdenr.gov

Attachments: Risk Management Plan

Cc: DSCA Site # 19-0001 File

Public Notice

SUMMARY OF NOTICE OF INTENT TO REMEDIATE A DRY-CLEANING SOLVENT FACILITY OR ABANDONED SITE

Cole Park Cleaners
DSCA Site # 19-0001

Pursuant to N.C.G.S. §143-215.104L, on behalf of WRI-SRP Cole Park Plaza, LLC, the North Carolina Department of Environment and Natural Resources' (DENR's) private contractor has prepared a Notice of Intent to Remediate a Dry-Cleaning Solvent Facility or Abandoned Site (NOI). The purpose of this Summary of the NOI is to notify the community of the proposed remedy for the contamination site and invite comment on the proposed remedy.

Cole Park Cleaners conducts dry-cleaning operations in the Cole Park Plaza at 11552 US Highway 15-501 North in Chapel Hill, North Carolina. Dry-cleaning solvent contamination in soil and ground water has been identified at the following parcel:

11552 US Highway 15-501 North, in Chapel Hill; Parcel No. 9776-33-5210

An investigation of the extent of contamination has been completed. A risk assessment of the contaminated property concluded that the contamination poses no unacceptable risks. A Risk Management Plan has been prepared which proposes using land-use controls to prevent current and future risks at the affected property.

The elements of the complete NOI are included in the Risk Management Plan (RMP) which is available online at <http://portal.ncdenr.org/web/wm/DSCA/PublicNotices>.

The public comment period begins _____, 20__, and ends _____, 20__.

Comments must be in writing and submitted to DENR no later than _____, 20__. Written requests for a public meeting may be submitted to DENR no later than _____, 20__. Requests for additional information should be directed to Delonda Alexander at (919) 707-8365.

All comments and requests should be sent to:

Delonda Alexander, DSCA Remediation Unit
Division of Waste Management, NC DENR
1646 Mail Service Center
Raleigh, North Carolina 27699-1646