DRAFT RESPONSE ACTION PLAN

107 N. Cross Street Chestertown, MD 21620

October 2021

Prepared For:

Maryland Department of the Environment

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INTERNAL QUALITY CONTROL SHEET

This Response Action Plan has been prepared by BrightFields, Inc. (BrightFields) following practices and policies as required by the Maryland Department of the Environment for the preparation of a Response Action Plan under the Voluntary Cleanup Program. The information presented within this report represents BrightFields' knowledge of conditions on the subject site at the time of preparation. This report was prepared and reviewed by the following BrightFields' personnel:



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RESPONSE ACTION PLAN

107 N. Cross Street

Chestertown, MD

1.0 INTRODUCTION

BrightFields, Inc. (BrightFields) was retained by 107 N. Cross Street, LLC, the developer, to prepare a Response Action Plan (RAP) for environmentally impacted soil, groundwater, and soil vapor associated with the 107 North Cross Street Site (Site) located in Chestertown, Maryland (**Figure 1**). The Site previously operated as a dry cleaning business. Several environmental investigations have been performed that indicate residual contamination associated with dry cleaning chemicals used at the facility are present in the subsurface.

BrightFields has prepared this RAP consistent with Section 7-508 of the Environment Article, <u>Annotated Code of Maryland</u>. The purpose of this RAP is to provide an overview of the Site and previous investigations, address supplemental investigations performed/required, assess current and future exposure pathways, develop cleanup criteria, select cleanup technologies/land use controls, set criteria for selected technologies, proposed response actions, and satisfy permitting, scheduling, and administrative requirements. The Site developer, 107 N. Cross Street, LLC, intends to redevelop the property/structure as a commercial market.



2.0 SITE OVERVIEW

The Site is located approximately 100 feet south of the southern corner of the intersection between North Cross Street and Maple Avenue in Chestertown, Maryland (**Figure 1**). The Site was historically operated as a dry cleaning business from 1963 through 2011 and utilized tetrachloroethene (PCE) as the primary dry cleaning solvent from 1963 through 1998. The Site is currently vacant and consists of a two-story building, a tin shed, a paved driveway with drivethru, and a parking lot. The proposed future use of the Site is a commercial market.

Investigations performed at the Site indicated chlorinated solvent contamination is present in soil, groundwater, and sub-slab soil gas at concentrations exceeding Maryland Department of the Environment (MDE) standards. Based on the proposed use of the Site, the criteria for soil cleanup are not exceeded and only groundwater and soil vapor have unacceptable impacts under MDE Groundwater / Tier 2 Commercial Target Soil Vapor Values. The approximate extent of the subsurface environmental impacts in groundwater and soil vapor are identified in **Figures 2** and **3**, respectively. The Site was accepted into the Maryland Voluntary Cleanup Program (VCP) on November 29, 2018.

2.1 INVESTIGATION & COMPLIANCE HISTORY

The Site has been the subject of several environmental investigations since the early 1990's. Green Street Environmental provided the 2008 Report of Indoor Air Quality Sampling and the 2018 Supplemental Phase II Environmental Site Assessment (ESA) to BrightFields in 2018. Note that these reports summarized several other investigations; however, BrightFields was not able to obtain full copies of the individual reports for review. On April 29, 2021, BrightFields submitted a Public Information Act (PIA) request to MDE to obtain additional Site information. Copies of the missing reports were not included in the PIA response. All investigations and findings known to BrightFields at the time of this report are summarized below. Relevant tables, figures, and oversight documentation available to BrightFields at the time of this report are included as **Appendix A**.



2.1.1 June 1991 Release and Associated Documents

These documents were obtained from the PIA request. An Underground Leak Summary and Tank Closure form documented a groundwater release at Park Rug & Dry Cleaners observed during removal of a 1,000-gallon #2 fuel oil tank that was abandoned in place. One monitoring well was installed in September 1991 between the building and the adjacent gas station. MDE requested sampling for benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, and PCE. In October 1991, PCE was detected at 5,200 μ g/L and benzene was detected at 1 μ g/L. Naphthalene and all other BTEX compounds were not detected above the method detection limit. Based on documents provided by MDE from the PIA request, measured PCE concentrations in the onsite monitoring well were 112 μ g/L in October 1993 and 3 μ g/L in April 1994. A June 1994 Notice of Compliance letter from MDE stated that the low level of dissolved petroleum in groundwater did not warrant any corrective action and the case was closed.

2.1.2 September 1992 Release

These documents were obtained from the PIA request. An Underground Leak Summary and Tank Closure form documented a surface spill from Park Rug & Dry Cleaners that affected the sidewalk, driveway, and road. The substance was described as an unknown dark, oily substance. The dry cleaner manager stated that the substance was residual soap (Soft Kleen) removed from the dry cleaning system. The National Pollutant Discharge Elimination System (NPDES) inspector instructed the manager to clean up the spill.

2.1.3 October 1993 Phase II Investigation (Environmental Consulting Services, Inc.)

This investigation was summarized in the 2008 Report of Indoor Air Quality Sampling and BrightFields was not able to review the full report. One well was installed onsite and sampled during the Phase II Investigation. Results showed evidence of low levels of PCE contamination.

2.1.4 October 1999 Inspection

The inspection report was obtained from the PIA request. An assessment of the Park Rug & Dry Cleaners, Corp. facility was performed on October 21, 1999. The record indicates that PCE was used onsite and the facility generated old PCE and filters as wastes. The floor drains and trench



system drained water and wash water to the Publicly Owned Treatment Works (POTW) and waste generated onsite was removed by a waste contractor.

2.1.5 August 2006 Phase II Investigation (BlueRidge Environmental, Inc.)

This investigation was summarized in the 2008 Report of Indoor Air Quality Sampling and BrightFields was not able to review the full report. PCE and its breakdown products, including trichloroethene (TCE) and cis-1,2-dichloroethene (DCE), were detected in soil and groundwater onsite.

2.1.6 September 2007 Membrane Interface Probe (MIP) Investigation (BlueRidge Environmental, Inc.)

This investigation was summarized in the 2008 Report of Indoor Air Quality Sampling and BrightFields was not able to review the full report. In June 2007, a MIP investigation was performed on the Site and the adjoining gasoline station property. The plume containing PCE and associated breakdown products was identified in the shallow groundwater underneath both properties.

2.1.7 March 2008 Report of Indoor Air Quality Sampling (BlueRidge Environmental, Inc.)

This report was provided to BrightFields by Green Street Environmental in 2018. Indoor air samples were collected from three locations within the Site building and one location in the gas station office. Samples were analyzed for PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE, and vinyl chloride (VC). PCE was detected in all three samples collected from the Site and TCE and cis-1,2-DCE was detected in two of the samples collected from the Site. No unacceptable indoor air impacts to commercial workers were identified based on the sampling. Site closure was requested at the time but was not granted.

2.1.8 May 2014 Hazardous Waste Inspection (MDE)

The inspection report was obtained from the PIA request. MDE performed an inspection of the Admiral Inc. #63 site based on the active site status. At the time of the inspection, the inspector was informed that dry cleaning operations were no longer performed onsite as of early 2013. The



inspector recommended removal of the site from the Resource Conservation and Recovery Act (RCRA) database.

2.1.9 November 2017 Limited On-Site Subsurface Investigation (Chesapeake GeoSciences, Inc.)

Sample location figures and boring logs from this investigation were provided to BrightFields by Green Street Environmental in 2018. Note that BrightFields was not able to review the full report. During the Limited On-Site Subsurface Investigation, soil samples and grab groundwater samples were collected from six locations. Groundwater was encountered between 15.5 and 18 feet below ground surface (bgs). PCE was present in soil and groundwater on the property above the respective screening levels. Additional volatile organic compounds (VOCs) detected include cis-1,2-DCE, TCE, and VC.

2.1.10 September 2018 Supplemental Phase II ESA (Green Street Environmental)

This report was provided to BrightFields by Green Street Environmental in 2018. During the Supplemental Phase II ESA, six sub-slab vapor samples were collected from within the building footprint. PCE and TCE exceeded the MDE Commercial Target Soil Vapor Standards in three sample locations (SV-1, SV-2, and SV-3). The consultant concluded that reductive dechlorination was occurring based on the presence of other chlorinated VOCs associated with the degradation of PCE and TCE.

2.1.11 May 2021 Facility Summary for Facility ID #11148 (MDE)

Information was obtained from the PIA request. The Facility Summary printout lists that one 1,000-gallon heating oil tank was installed in January 1964 and closed in place in June 1991.

2.2 FUTURE LAND USE

The proposed future use of the Site is a commercial market, which is considered Tier 2B – Restricted Commercial Use. It will be an open market utilizing the existing building structure. Redevelopment plans do not include disturbing the existing buildings, asphalt, or concrete on the property or regrading. However, the concrete floor will be cut, removed, and replaced during implementation of the proposed response action.



2.3 PROPOSED RESPONSE ACTIONS

To reduce human health risk to levels acceptable for commercial use, BrightFields recommends implementing the following to provide ongoing protection to building occupants:

- Installing a sub-slab depressurization system (SSDS) system within the existing building footprint to reduce migration of soil vapor into the building and to reduce the residual contaminant mass over time.
- Utilizing the existing cap (building footprint, asphalt, and concrete) to prevent contact with impacted soil and groundwater.
- Implementing deed restrictions to restrict groundwater use, restrict future site usage to commercial type uses, require continued operation of the SSDS system until cleanup criteria is met, and require inspection and maintenance of the cap.



3.0 ADDITIONAL INVESTIGATORY INFORMATION

Based on the results of the previous investigations, MDE requested delineation of chlorinated solvents in soil gas around the exterior of the building and additional assessment of the sub-slab soil gas beneath the building. A total of nine exterior soil gas points and nine interior sub-slab points were installed in August 2019. Exterior soil gas points were sampled by BrightFields, while MDE collected samples from all interior and exterior sub-slab points/soil gas points. Laboratory analytical results from this most recent sampling event indicated that unacceptable concentrations of PCE and TCE were detected in the subsurface soil vapor. The elevated concentrations of PCE and TCE exceeded their respective MDE Commercial Soil Vapor Values and concentrated in the center and east-central portions of the Site, below the building and extending outward. A draft report summarizing the soil gas point installation, sampling methods, and results was transmitted to MDE in March 2021. **Appendix B** includes results from the most recent soil gas sampling events.



4.0 EXPOSURE ASSESSMENT & PROPOSED REMEDY

4.1 MEDIA OF CONCERN

4.1.1 Soil

Previous investigations have indicated that soil at the Site is impacted. The Site is currently covered by asphalt parking and driving areas, concrete building slabs and curbs, and a brick parking area.

Construction workers will come in contact with impacted soil during implementation of the SSDS system. A site-specific Health and Safety Plan (HASP) will be used to protect construction workers and minimize risks associated with impacted soil. The current cap will prevent exposure to future site workers and visitors/patrons. Implementation of a deed restriction to inspect and maintain the cap will ensure that the remedy remains protective.

4.1.2 Groundwater

Previous investigations have indicated that groundwater at the Site is impacted. Water to the Site is publicly supplied and there are no onsite wells.

It is not anticipated that construction workers will come in contact with impacted groundwater during implantation of the SSDS system. A site-specific HASP will be used to protect construction workers and minimize risks associated with impacted groundwater. Implementation of a deed restriction to restrict use of groundwater beneath the Site will prevent future site workers and visitors/patrons from contacting groundwater.

4.1.3 Soil Gas

Previous investigations have indicated that soil gas at the Site is impacted. The primary exposure route for Site users to contaminants is in the form of soil vapor migrating into enclosed structures.

Construction workers will come in contact with impacted soil gas during implementation of the SSDS system. A site-specific HASP will be used to protect construction workers and minimize risks associated with impacted soil gas. A vapor mitigation system (SSDS) will be installed to minimize vapor intrusion into the building to protect future site workers and visitors/patrons.



Additionally, deed restrictions will require continued operation of the SSDS system until cleanup criteria is met and restrict future land use to commercial type uses.

4.1.3 Sediment/Surface Water

Sediment and surface water are not present on the Site. Therefore, they are not evaluated in this RAP.

4.2 POTENTIALLY EXPOSED POPULATIONS

Current exposed populations are limited to Site trespassers who may cross the property. Construction workers will be exposed for a limited time during future construction. Based on the proposed future use (Tier 2B – Restricted Commercial Use), future Site users include Site workers and visitors/patrons. These future users may include sensitive populations (children and the elderly). There are no known current or future on-site ecological receptors.

4.3 POTENTIAL EXPOSURE PATHWAYS

Potential exposure pathways include incidental ingestion, inhalation of dust particulates from soil, dermal contact with soil and groundwater, and inhalation of soil gas.

Redevelopment plans do not include any intrusive activities. Therefore, construction workers are not likely to come in contact with soil or groundwater during redevelopment. However, during implementation of the SSDS system as a remedy, construction workers will be exposed to impacted soil and soil gas. It is not anticipated that construction workers will come in contact with impacted groundwater due to the shallow installation depth of the SSDS system. In the absence of a remedy, future Site workers and visitors/patrons may be exposed to impacted soil, groundwater, and soil gas.

4.4 COMPLETE EXPOSURE PATHWAYS

The exposure pathways are identified below with the proposed response actions. As shown in the table, BrightFields recommends preparing and implementing a site-specific HASP, installing a vapor mitigation system (SSDS system), utilizing the existing cap, and implementing deed restrictions. Because most of the Site will remain paved, the primary exposure route will be indoor



air. While the SSDS will be designed to minimize vapor intrusion into the building, it will also function as a soil vapor extraction (SVE) system enhancing remediation of site soils, soil gas, and groundwater.

Summary of Exposure Pathways and Proposed Remedies			
Exposure Pathway Receptor		Proposed Response Actions	
Ingestion of Soil	Future Construction Workers	Administrative Control – A written site-specific HASP to outline risks associated with exposure and how to minimize them using work practices and personal protective equipment.	
	Current Trespassers, Future Site Workers, and Future Visitors/ Patrons	Engineering Control –The existing cap surrounding the existing Site structure will prevent further exposure via soil. Institutional Control – A deed restriction requiring inspection and maintenance of the cap to prevent future exposure.	
Inhalation of Fugitive Dust	Future Construction Workers	Administrative Control – A written site-specific HASP to outlin risks associated with exposure and how to minimize ther using work practices and personal protective equipment. The HASP will include a dust monitoring program.	
	Current Trespassers, Future Site Workers, and Future Visitors/ Patrons	Engineering Control –The existing cap surrounding the existing Site structure will prevent further exposure via soil. Institutional Control – A deed restriction requiring inspection and maintenance of the cap to prevent future exposure.	
Dermal Contact with Soil	Future Construction Workers	Administrative Control – A written site-specific HASP to outline risks associated with exposure and how to minimize them using work practices and personal protective equipment.	
Future Site Workers, and Future Visitors/		Engineering Control – The existing cap surrounding the existing Site structure will prevent further exposure via soil. Institutional Control – A deed restriction requiring inspection and maintenance of the cap to prevent future exposure.	
Dermal Contact with Groundwater	Future Construction Workers	Administrative Control – A written site-specific HASP to outline risks associated with exposure and how to minimize them using work practices and personal protective equipment.	
	Future Site Workers and Future Visitors/ Patrons	Institutional Control – A deed restriction restricting use of groundwater beneath the Site.	
Inhalation of Subsurface Gases during Construction	Future Construction Workers	Administrative Control – A written site-specific HASP to outline risks associated with exposure and how to minimize them using work practices and personal protective equipment.	



Summary of Exposure Pathways and Proposed Remedies			
Exposure Pathway Receptor		Proposed Response Actions	
Inhalation of Subsurface Gases in Indoor Air	Current Trespassers, Future Site Workers, and Future Visitors/ Patrons	Engineering Control – A vapor mitigation (SSDS system) in the existing structure to prevent vapor intrusion into the existing Site structure and reduce subsurface contaminant mass.	
		Institutional Control – A deed restriction requiring that future land use conform to commercial type uses.	



5.0 CLEANUP CRITERIA

Commercial cleanup standards for sub-slab soil gas and indoor air, established by MDE in the Technical Guidelines for Vapor Intrusion (MDE, 2019), will be used as the cleanup criteria for the Site. At these concentrations, the hazard index does not exceed 1 and the carcinogenic risk does not exceed 1x10⁻⁵ for either compound. The operational goal is to maintain indoor air contaminants below the threshold for unacceptable risk. 107 N. Cross Street, LLC will elect to adopt sub-slab soil gas target levels at or below 100 times the indoor air criteria to reduce long term monitoring requirements. Target cleanup concentrations for PCE and associated degradation products are shown in the table below.

Target Cleanup Goals			
Analyte	Indoor Air Commercial Concentration (µg/m³)	Sub-Slab Soil Gas Concentration (μg/m³)	
1,1-DCE	880	88,000	
cis-1,2-DCE	154	15,400	
trans-1,2-DCE	310	31,000	
PCE	180	18,000	
TCE	8.8	880	
VC	28	2,800	

During construction of the SSDS system, all work will be conducted in accordance with the site-specific HASP to ensure that construction workers are not exposed to an unacceptable risk. During operation of the SSDS system, 107 N. Cross Street, LLC proposes conducting quarterly effluent monitoring and comparing the analytical results to the sub-slab soil gas cleanup goals. Criteria for shutting down the system and post-treatment sampling is discussed in Section 7.2.



6.0 SELECTED TECHNOLOGIES & LAND USE CONTROLS

The proposed future use of the Site is considered Tier 2B – Restricted Commercial Use. Redevelopment plans do not include disturbing the existing buildings, asphalt, concrete, or brick hardscaping on the property, regrading, or filling.

6.1 SSDS SYSTEM

BrightFields proposes installation of a SSDS system to depressurize the sub-slab environment (thereby preventing vapor intrusion and protecting building occupants) and reduce existing contaminant mass through enhanced volatilization and treatment of chlorinated solvent vapors.

An SSDS system represents an appropriate remedy due to the relative risk associated with soil vapors within the building and the restrictive nature of the slab and sub-slab environment. Chlorinated solvents are volatile by nature, and the creation of a low-pressure region in the vadose zone will aid in the volatilization of contaminants sorbed to soil particles and dissolved in shallow groundwater. The effectiveness of SVE systems for addressing solvent contamination in the subsurface is thoroughly documented; the technology and its suitability/applicability is summarized in a United States Environmental Protection Agency (USEPA) document titled "Engineering Issue – Soil Vapor Extraction (SVE) Technology" (USEPA, 2018).

6.1.1 SSDS System Design

Seven extraction points or "sumps" are proposed below the building slab; each sump is connected to a lateral collector pipe that terminates in a manifold at the blower. The proposed SSDS system layout is depicted on **Figure 4**. The system piping design is shown in greater detail on **Figure 5** and a cross section is shown on **Figure 6**; each sump is connected to an individual pipe and vapors collected from the sumps are directed through a manifold that can be adjusted to change the relative draw from each location. From the manifold, vapors are drawn through a water knock-out which protects the downstream equipment from excessive moisture. The blower, a regenerative blower with a nominal power rating of three horsepower and 212 standard cubic feet per minute (scfm), provides the suction power for the system. At the blower discharge, drums of activated charcoal act as scrubbers to reduce the chlorinated solvents emissions. The manifold,



knock-out tank, blower, and activated carbon vessels will be secured in a locked shed/fence to prevent unauthorized tampering with the system.

Installation of the SSDS system will require saw cutting the concrete building slab and excavating along the lengths of the lateral collector pipes. Excavations will consist of 18-inch wide and 18-inch deep trenches for the lateral collector pipes and 3-foot cubic pits around each sump location. Lateral collector piping will be installed at approximately 18-inches below the top of the slab and backfilled with clean sand. Each sump will be installed at approximately 3 feet below the top of the slab with a metal screen to prevent drawing sediment into the system. Sump pits will be backfilled with clean #57 stone. All piping for the lateral collector piping and the sumps will be 2-inch diameter Schedule 80 polyvinyl chloride (PVC) piping. A 6-inch layer of concrete will be poured over the trenches and sump pits and then a sealer will be applied along the concrete seams to prevent breakthrough.

6.1.2 Soil Management and Disposal

Based on the proposed SSDS system design, approximately 25 tons of potentially chlorinated solvent-impacted soil will be excavated for SSDS system installation. Excavated soil will be staged securely onsite in a manner which will prevent offsite migration by wind or water erosion. One composite sample will be collected and analyzed based on the requirements for the selected disposal facility. It is anticipated that analysis requirements will consist of the following parameters: toxicity characteristic leaching procedure (TCLP) metals, polychlorinated biphenyls (PCBs), total VOCs, ignitability, corrosivity, and reactivity. Soil excavated from the Site will be disposed in accordance with applicable local, State, and federal laws and regulations. All waste manifests and the total volume of soil disposed will be included with the Response Action Completion Report and submitted to MDE.

Following excavation of chlorinated solvent-impacted soil, the excavator will be decontaminated by scraping off soil. Soiled personal protective equipment (PPE), such as disposable gloves, will be disposed along with other construction debris.



6.1.3 Excavation Backfill

All sand and #57 stone used to backfill the trenches and sump pits will be from MDE-approved clean fill sources. Fill material will not be transported to the Site unless it has been approved in writing by MDE.

6.1.4 SSDS System Monitoring

Continued protectiveness of the SSDS system will be ensured through a process of routine monitoring on a quarterly basis. Prior to beginning SSDS system monitoring, an Operations & Maintenance (O&M) Plan outlining procedures will be submitted to MDE for approval. At startup, pressure differentials between the indoor air and sub-slab environment will be evaluated to ensure that the system is effective. Ongoing routine monitoring will include measuring system parameters, preventative maintenance of the blower system, and evaluation/replacement of the carbon treatment units. 107 N. Cross Street, LLC will be responsible for performing routine SSDS system monitoring. If the person responsible for performing monitoring changes, the VCP project manager must be notified at 410-537-3493. All inspections will be documented on the form included as **Appendix C** and maintained for a minimum of five years.

Quarterly sampling of the recovered vapor will also be performed to determine overall changes in recovered contaminant mass over time and to evaluate the continued need/efficacy of the SSDS system. Samples will be analyzed at a laboratory for PCE and associated degradation products, including 1,1-DCE, cis-1,2-DCE trans-1,2-DCE, TCE, and VC. Once concentrations meet the sub-slab soil gas cleanup criteria for two consecutive quarters, 107 N. Cross Street, LLC may request from MDE approval to shut down SSDS system. Following system shutdown, post-treatment indoor air monitoring will be conducted at 30, 60, 180, 365, and 720 days after system shutdown to ensure treatment effectiveness.

6.2 MAINTENANCE OF THE EXISTING CAP

The Site is currently covered by impervious material, including buildings, asphalt, and concrete. There are currently no landscaped areas on the Site and redevelopment plans do not include landscaped areas in the future. This existing cap will be used to prevent exposure to impacted soil. The extent of the cap, as shown on **Figure 4**, must be inspected and maintained to ensure



long term protection of human health and the environment. A cross section is shown on **Figure** 7.

107 N. Cross Street, LLC will be responsible for performing annual cap inspections. If the person responsible for performing cap inspections changes, the VCP project manager must be notified at 410-537-3493. Prior to beginning annual cap inspections, an O&M Plan outlining procedures will be submitted to MDE for approval. All inspections will be documented on the form included as **Appendix D** and maintained for a minimum of five years. Any damaged areas will be repaired within five business days and MDE will be notified within ten business days following repair completion. MDE will be notified in writing at least 15 days prior to planned excavation activities that will penetrate the cap.

6.3 INSTITUTIONAL CONTROLS (FUTURE LAND USE CONTROLS)

The SSDS system should be implemented in tandem with a deed restriction requiring that future land use conform to commercial type uses only, which will aid in preventing long-term exposure to impacted indoor air that might occur under a residential use scenario. Water is publicly supplied to the Site and groundwater is not used. To ensure that future Site users do not come in contact with impacted groundwater, a deed restriction will restrict groundwater use. In addition, deed restrictions will require continued operation of the SSDS system until cleanup criteria is met and require inspection and maintenance of the cap.

6.4 POST-REMEDIATION REQUIREMENTS

Post-remediation requirements will include compliance with conditions placed on the COC and compliance with the deed restrictions recorded for the Site. Deed restrictions will be recorded within 30 days of the issuance of the COC.

Ongoing SSDS system monitoring and annual cap inspections will be conducted, as discussed in Sections 6.1.4 and 6.2 and in accordance with the O&M Plan.



7.0 EVALUATION CRITERIA FOR THE SELECTED TECHNOLOGIES

7.1 CRITERIA FOR CERTIFICATE OF COMPLETION (COC)

The following criteria must be met and documented prior to issuance of the COC:

- <u>Implementation Schedule:</u> Submission of the RAP implementation schedule to MDE prior to starting RAP activities.
- Health and Safety Briefing: Prior to beginning work onsite, all contractors that will encounter impacted media will receive a health and safety briefing and sign the sitespecific HASP. Documentation will be maintained with the HASP onsite during intrusive RAP activities.
- <u>SSDS System Installation:</u> Installation of the SSDS system as described in this Report. Environmental health and safety oversight will be conducted during all intrusive RAP activities.
- <u>SSDS System Testing:</u> The SSDS system will be tested for 30 days prior to occupancy to ensure that the system is effective. Testing will consist of evaluating pressure differentials between the indoor air and sub-slab environment.
- <u>Sampling:</u> The SSDS system effluent will be sampled at least once prior to requesting a COC.
- <u>O&M Plan:</u> Submission of an O&M Plan to MDE to outline long-term monitoring requirements, including SSDS system monitoring until remediation completion and inspection and maintenance of the cap.
- <u>Cap Inspection and Repair:</u> Inspection of the cap to ensure that it is in good condition. Repair damaged areas if necessary.
- <u>Completion Report:</u> Submission of a Response Action Completion Report to MDE for review and approval.
- <u>Deed Restrictions:</u> Documentation of the recorded deed restrictions will be submitted to MDE within 30 days of issuance of the COC.

7.2 CRITERIA FOR REMEDIATION COMPLETION

During operation of the SSDS system, 107 N. Cross Street, LLC proposes conducting quarterly effluent sampling and comparing the analytical results to the sub-slab soil gas cleanup goals. Once concentrations meet the sub-slab soil gas cleanup criteria for two consecutive quarters, 107 N. Cross Street, LLC may request from MDE approval to shut down SSDS system. Following system shutdown, post-treatment indoor air monitoring will be conducted at 30, 60, 180, 365, and 720 days after system shutdown to ensure treatment effectiveness. Remediation will be considered complete if all monitoring results meet the indoor air cleanup criteria in Section 5.0.



7.3 CRITERIA FOR CONTINGENCY MEASURES

If the SSDS system remains operational, changes in subsurface concentrations (including increasing concentrations of contaminants) will not result in an increased risk to Site users. However, if the SSDS system is unable to maintain sufficient negative pressure across the building footprint relative to the indoor air pressure, contingency measures will be enacted. First, the Department will be notified. Additional measures may include increasing the output of the blower system, more frequent monitoring/adjustment of the suction points to target withdraw areas, and additional indoor air sampling to ensure building occupant health and safety. If deemed necessary, a RAP addendum will be prepared to outline additional measures.

The Department must be notified immediately of any previously undiscovered contamination, changes to the RAP schedule, previously undiscovered storage tanks and other oil-related issues, and citations from regulatory entities related to health and safety practices. 107 N. Cross Street, LLC will notify MDE within one business day and discuss appropriate measures. All documentation and analytical reports generated as a result of any previously unidentified contamination will be submitted to the Department. Note that previously undiscovered contamination and/or previously undiscovered storage tanks or other oil-related issues may require an amendment to this RAP. If a RAP amendment is required, all work onsite will be stopped and 107 N. Cross Street, LLC will work with MDE to determine a schedule to complete the amendment and proposed additional RAP activities.



8.0 PROPOSED RESPONSE ACTION IMPLEMENTATION

8.1 GENERAL HEALTH AND SAFETY PROTOCOLS

All applicable Occupational Safety and Health Administration (OSHA) regulations will be followed during the implementation of this RAP. A site-specific HASP for all personnel will be developed, implemented, and maintained onsite. All onsite personnel must be made aware of and sign the HASP. The development of the HASP is the responsibility of the participant. Onsite records of HASP signatures must be available to the Department upon request.

Information in the HASP will include, but not be limited to, the following:

- Appropriate PPE and monitoring devices that must be utilized by workers to ensure that all worker protection requirements are met, and the rationale for the PPE selected.
- Site control measures that will be maintained during RAP implementation to restrict access (e.g., security guards, warning fences).
- Dust abatement or suppression methods.
- Compliance by all on-site workers with OSHA guidelines for managing contaminated material regardless of its characterization as hazardous or nonhazardous waste. The remedial contractor must possess the necessary certification for the transportation of any controlled hazardous substance.

8.2 REPORTING REQUIREMENTS

Reporting required for the Site include RAP addendums (if necessary), the initial notification and construction schedule, HASP, O&M Plan, monthly status reports, quarterly SSDS operation reports, and the Response Action Completion Report. Monthly status reports will be submitted during RAP implementation activities and will summarize activities completed during the previous month and activities anticipated for the next month. Once the SSDS system is operating, quarterly operation reports will replace monthly status reports. Quarterly reports will detail ongoing operations of the SSDS system, including results of routine inspections, pressure monitoring, discharge vapor sampling, and used carbon disposal/knock-out water disposal. Quarterly reports will include laboratory data from sampling and disposal documentation. If contact information for the participant or environmental consultant changes, it will be documented in the monthly or quarterly report.



MDE will be provided with 30-day notice prior to the shut-down of the SSDS system for major service or closure sampling. MDE will be notified within 72 hours of any system malfunction or upset resulting in an extended (greater than 48 hour) shutdown of the SSDS system.

8.3 INSPECTION AND MAINTENANCE REQUIREMENTS

Inspection and maintenance requirements will be outlined in the O&M Plan and submitted to MDE for approval.

Concurrent with routine pressure inspections and discharge vapor sampling, the SSDS system will be visually inspected and the blower will be serviced at regular intervals according to the manufacturer's specifications. The water knock-out drum will be drained and the carbon treatment units will be refreshed as required.

The existing cap will be inspected annually and maintained as outlined in Section 6.2.

8.4 GROUNDWATER MANAGEMENT

Groundwater dewatering is not anticipated as part of the SSDS installation or redevelopment plans. Intrusive activities are limited to trench and sump pit excavation, to a maximum depth of 3 feet bgs.

8.5 ASBESTOS, LEAD, AND OIL

Demolition is not planned as part of redevelopment, therefore contact with asbestos and leadbased paint is not anticipated.

Previously undiscovered contamination, storage tanks, and other oil-related issues must be reported to the VCP project manager at 410-537-3493. Contact the MDE Oil Control Program at 410-537-3442 for guidance on the proper abandonment and removal of storage tanks.



9.0 PERMITS, NOTIFICATIONS, & CONTINGENCIES

The participant will comply with all federal, State, and local laws and regulations by obtaining all necessary approvals and permits to conduct all activities and implement this RAP. The VCP will be verbally notified within 48 hours (72 hours in writing) of any changes (planned or emergency) to the RAP implementation schedule, any previously undiscovered contamination, any previously undiscovered storage tanks and other oil-related issues, and citations from regulatory entities related to health and safety practices. All notifications shall be made to the VCP project manager at 410-537-3493. If the VCP project manager is unavailable, the notifications must be made to another VCP staff member.

The VCP must be provided with all documentation and analytical reports generated from previously unidentified contamination. The participant understands that previously undiscovered contamination and/or previously undiscovered storage tanks or other oil-related issues may require an amendment to this RAP.

Due to the anticipated volume of the blower and existing concentrations of subsurface contaminants, an air emissions permit may be required. MDE will be provided with supporting documentation and calculations once the blower specifications are finalized to assist with deciding on the need for an emissions permit.

Although unlikely, in the event conditions not previously identified by past environmental investigations are encountered, the Site will be temporarily secured and MDE will be notified of the nature of the unexpected condition. The RAP will then be revised to incorporate the new information and work will resume as soon as possible.

9.1 IMPLEMENTATION SCHEDULE

The proposed implementation schedule is shown in the table below. Upon RAP approval, the schedule will be finalized with actual anticipated dates for each phase of work. If these timelines must be adjusted, MDE will be given advance notice in writing along with a new proposed timeline.



RAP Milestone	Start Date	Completion Date
Submit Performance Bond	Within 10 days of RAP Approval	Within 10 days of RAP Approval
Develop site-specific HASP	Within 30 days of RAP approval	Within 60 days of RAP approval
Notify VCP Project Manager	At Least 5 days Prior to Start of Activities	At Least 5 days Prior to Start of Activities
Perform Health and Safety Meeting	Prior to SSDS Installation	Prior to SSDS Installation
Install SSDS System	Within 90 days of RAP Approval	120 days from RAP Approval
Test SSDS System for 30 Days Prior to Occupancy	120 days from RAP Approval	150 days from RAP Approval
Develop O&M Plan	120 days from RAP Approval	150 days from RAP Approval
Conduct Quarterly SSDS Monitoring	Within First Quarter from Completion of SSDS System Testing	Ongoing Until System Shutdown (Two Consecutive Quarters of Meeting Cleanup Criteria)
Prepare and Submit Completion Report	Upon Completing First Quarter of SSDS Monitoring	Within 60 days of Completing First Quarter of SSDS Monitoring
Issue COC (MDE)	Following Approval of Completion Report	Following Approval of Completion Report
Sign and Return Certification to MDE	Within 10 days of Receiving COC	Within 10 days of Receiving COC
Record the COC in the Land Records and File Deed Restrictions	Within 30 days of Issuing COC	Within 30 days of Issuing COC
Conduct Post-Treatment Indoor Air Monitoring	30 days after SSDS Shutdown	30 days after SSDS Shutdown
Conduct Post-Treatment Indoor Air Monitoring	60 days after SSDS Shutdown	60 days after SSDS Shutdown
Conduct Post-Treatment Indoor Air Monitoring	180 days after SSDS Shutdown	180 days after SSDS Shutdown



RAP Milestone	Start Date	Completion Date
Conduct Post-Treatment Indoor Air Monitoring	365 days after SSDS Shutdown	365 days after SSDS Shutdown
Conduct Post-Treatment Indoor Air Monitoring	720 days after SSDS Shutdown	720 days after SSDS Shutdown

9.2 ADMINISTRATIVE REQUIREMENTS

Pursuant to the Section 7-508 of the Environment Article, <u>Annotated Code of Maryland</u>, 107 N. Cross Street, LLC agrees to comply with the provisions of the RAP approved by MDE and certifies that the proposed use of the Site meets all applicable zoning requirements. Signed certifications are included as **Appendix E**.

Consistent with Maryland Code, 107 N. Cross Street, LLC will issue a performance bond in the amount of \$10,000. If the remedial action(s) specified in this RAP cannot be executed, the performance bond will cover costs required to stabilize and secure the Site. Activities to be covered under the performance bond include the following:

- Posting appropriate warnings and notices about conditions on the property.
- Restricting access to the SSDS system.
- Importing and placing crushed stone within open trenches.



10.0 REFERENCES

BlueRidge Environmental, Inc, 2008, Report of Indoor Air Quality Sampling, March 2008.

BrightFields, Inc. (BrightFields), 2019, Soil Gas Sampling Report, October 2019.

Chesapeake GeoSciences, Inc., 2017, Figures 2 through 7 and Table 1: Photoionization Detector (PID) Readings in Macrocore Soil Sample Cores from Limited On-Site Subsurface Investigation, December 2017.

Green Street Environmental, 2018, Supplemental Phase II Environmental Site Assessment, September 2018.

Maryland Department of the Environment (MDE), 2021, Facility Summary for Facility ID #11148, May 2021.

MDE, 2019, Technical Guidelines for Vapor Intrusion, September 2019.

MDE, 2017, Facts About: Voluntary Cleanup Program Response Action Plans, August 2017.

MDE, 1999, Assessment Record, Document Number 1999-1021aWH, October 1999.

MDE Hazardous and Solid Waste Management Administration, 1994, Underground Leak Summary and Tank Closure and Associated Documents, May 1994.

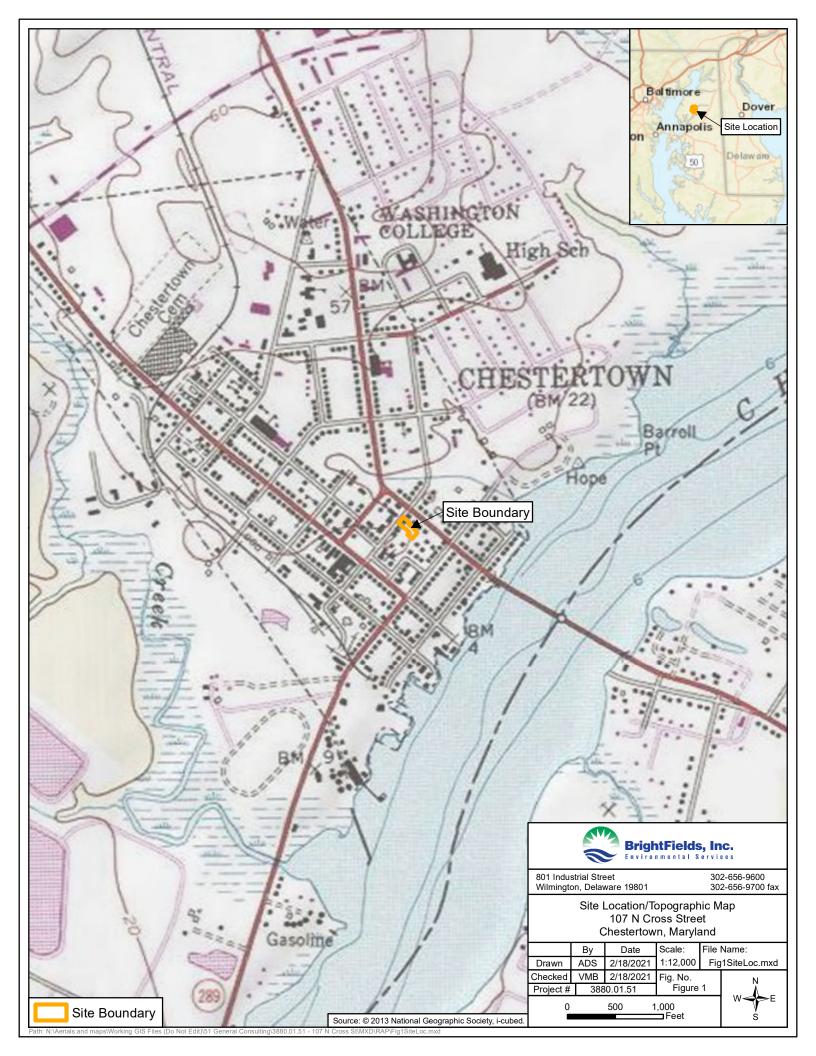
MDE Hazardous and Solid Waste Management Administration, 1992, Underground Leak Summary and Tank Closure, September 1992.

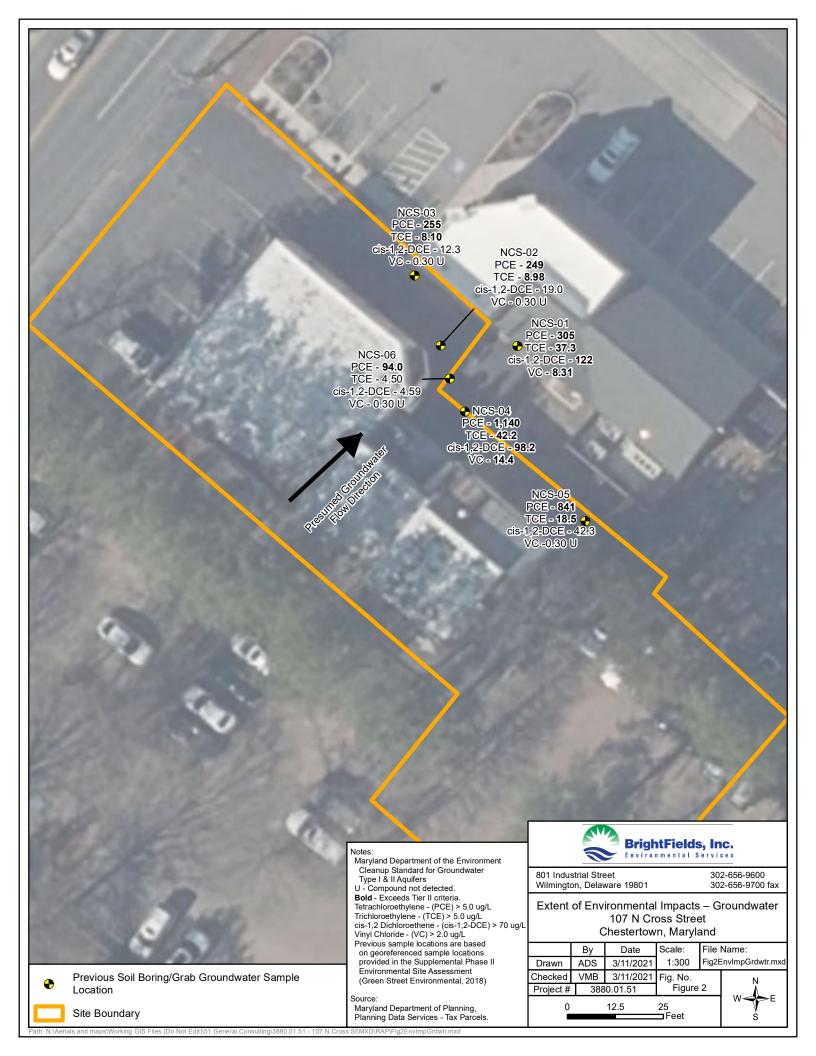
MDE Land Management Administration, Hazardous Waste Program, 2014, Hazardous Waste Field Inspection Report, May 2014.

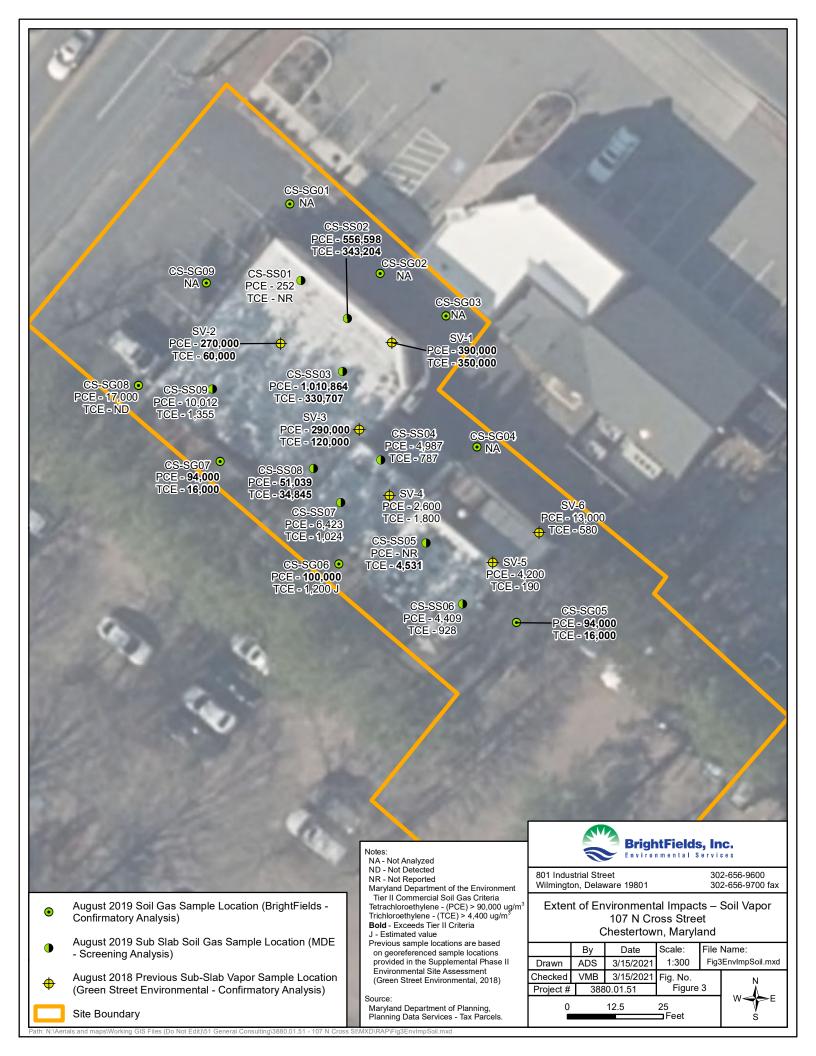
United States Environmental Protection Agency (USEPA), 2018, Engineering Issue - Soil Vapor Extraction (SVE) Technology, February 2018.

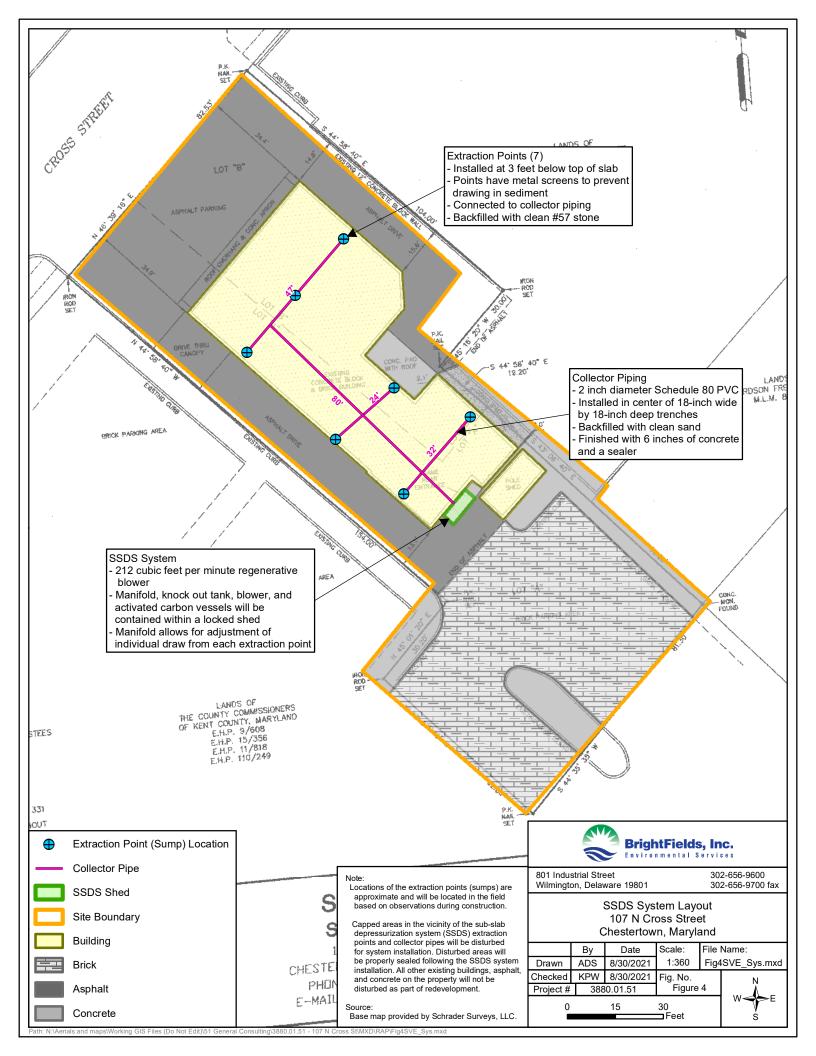


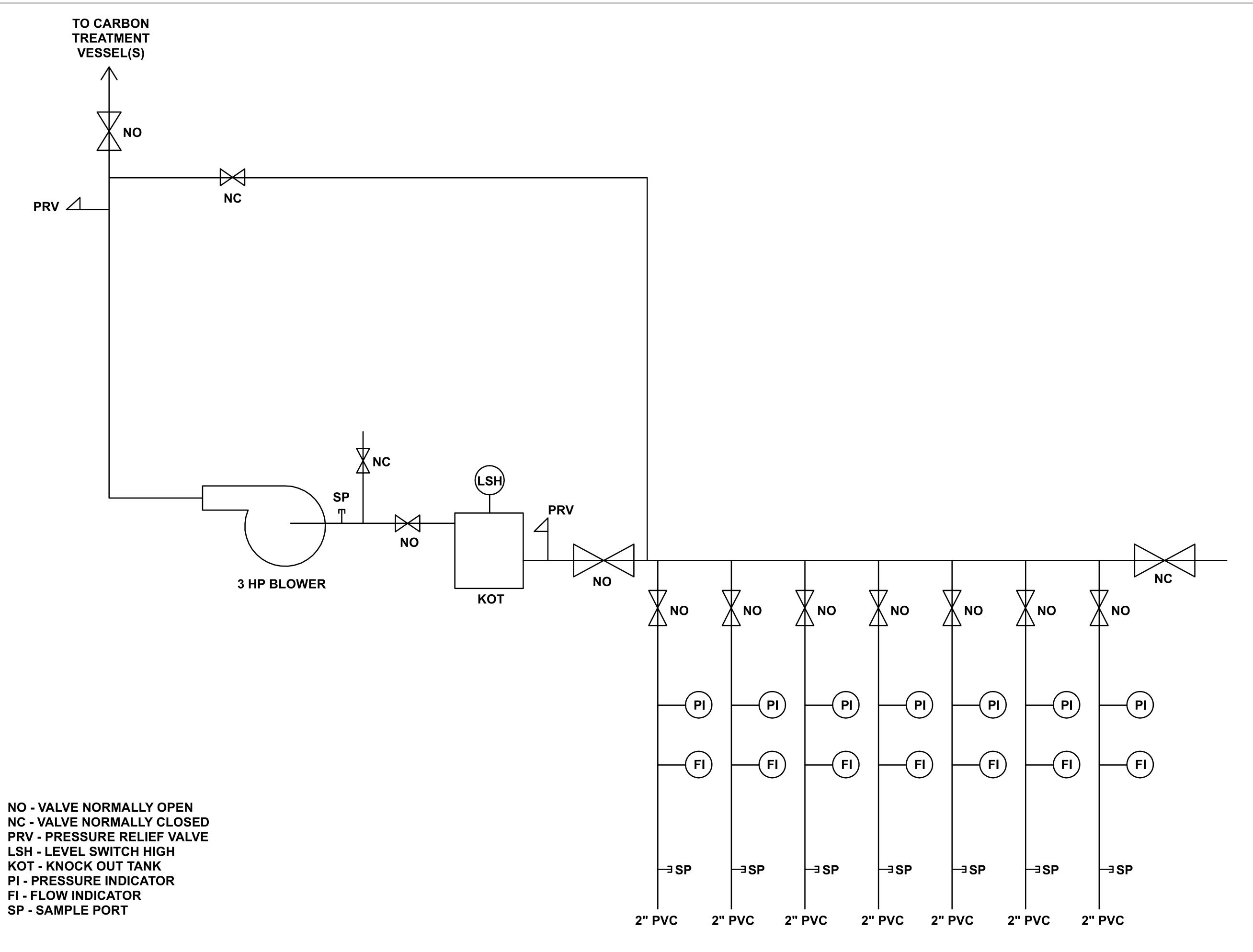
FIGURES







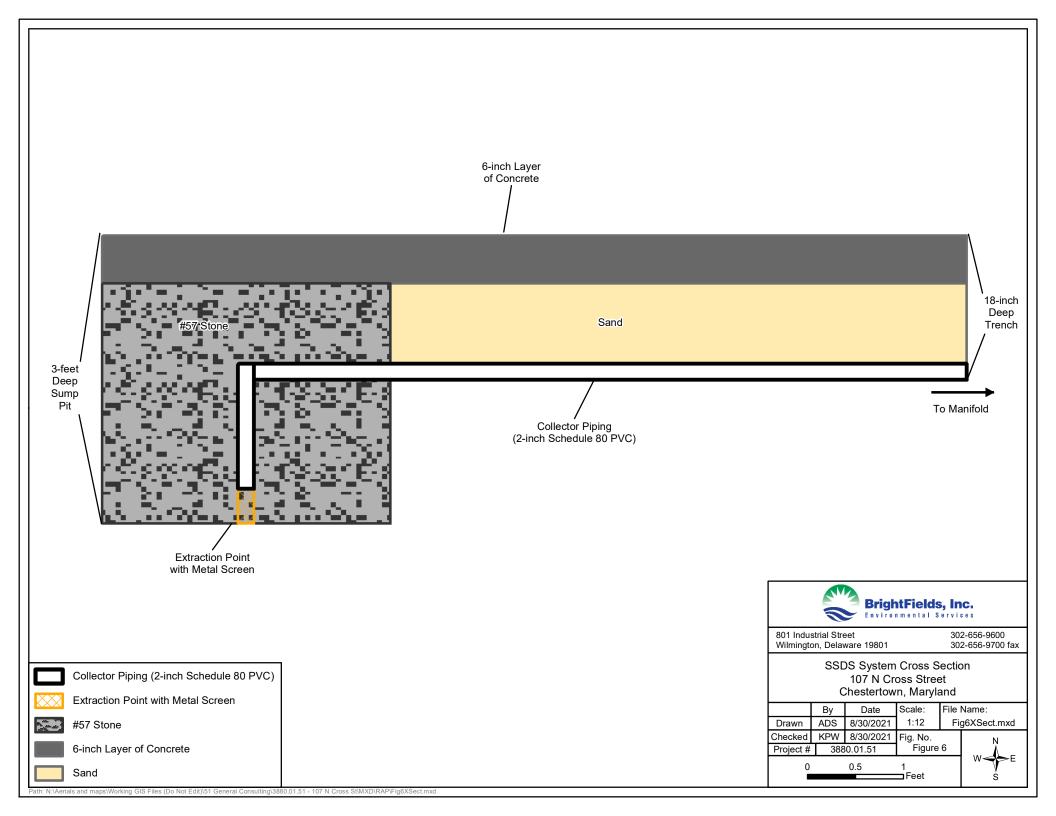


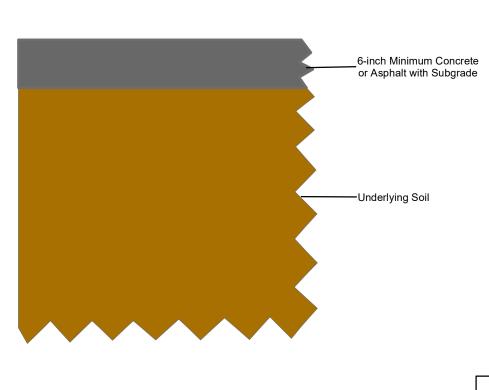


DRAFT



NOT TO SCALE









801 Industrial Street Wilmington, Delaware 19801 302-656-9600 302-656-9700 fax

Cap Repair Cross Section 107 N Cross Street Chestertown, Maryland

	Ву	Date	Scale:	File	Name:
Drawn	ADS	8/30/2021	1:12	Fig7	CapXSect.mxd
Checked	KPW	8/30/2021	Fig. No.		N
Project #	388	0.01.51	Figure	7	l li
					W ≪ ⊳E

6-inch Minimum Concrete or Asphalt with Subgrade



Path: N:\Aerials and maps\Working GIS Files (Do Not Edit)\51 General Consulting\3880.01.51 - 107 N Cross St\MXD\RAP\Fig7CapXSect.mxd



APPENDICES



Appendix A

Documentation from Previous Investigations

					••		
_	<u>.</u>		Marian par	RE	GISTRATION	#	
	•	 UNDERGROU	ND LEAK SU	MMARY &	TANK CLOSU	RE	
CAS	= = 91-1	1420 KE	DATE OPE	NED Cell	3/91 DAT	E CLOSED_S	5/4/94
	E NAME PARK				' INSPECTOR'	•	
A) B)	E OF CASE: PULL INSTALLATI SURFACE LEAK INVES		<u>×</u>	F) TAN	PLIANCE CH K TEST FAI NDONMENT I ER	LURE .	******
A) 3) C)	LL AFFECTED GROUNDWATES DOMESTIC WESTIC WAS SURFACE WAS A BUILDING "STORM DRAIN	RS ELLS TERS		G) UTI:	ITARY LINE LITY WORK (CHED ADJOINT E/OTHER (SINCE)	N. PROPERT	*****
A) B) C) D) E) ***	ER OF SYSTEM MAJOR OIL (LOCAL OIL (PRIVATELY (SERVICE (GOVERNMENT MARINA ************************************	COMPANY COMPANY COMPER STATION FACILITY ************************************		G) APAI H) SCHO I) COM J) OTHI	DOL MERCIAL BUS ER (SPECIFY ************************************	SINISS () *********	
BEL	OW. OBSERVI	ATION WELLS	S INSTALLE	o? (YES)	NO	∮ OF WELL	s <u>/</u>
	CAPACITY OF TANK	TYPE	LINE TYPE	AGE	PRODUCT	STATUS OF TANK	LEAK FOUND
1	1000	Α	A	E 3	B	C	7
2 ·							
3							
4 _							
5							
5							
7							
8	I						
9							

REVIEWED BY REVIEWED

10

CODES ON REVERSE SIDE

CODES FOR USE ON REVERSE SIDE

TYPE:

A) Steel D)

Other Clad Steel

Fiberglass B) Cathodically-Protected Steel C)

E)

F) Copper

AGE:

B)

A) 1-5 years

16-20 years D)

6-10 years

Over 20 years E)

11-15 years C)

PRODUCT:

Gasoline A)

Jet Fuel G)

B) · #2 Oil

Waste Oil H)

C) Kerosene I) Asphalt

#4 Oil D)

Other J)

E) #5 Oil

Diesel K)

#6 Oil F)

LEAK FOUND IN:

Tank A)

Fill Pipe F)

Supply Line B)

Air Pocket G)

Return Line C)

None H)

Vent Line D)

Other I)

E) Fittings

Flex Connector J)

STATUS:

- A) In Service
- Removed B)
- C) Abandoned-In-Place



MARYLAND DEPARTMENT OF THE ENVIRONMENT

2500 Broening Highway • Baltimore, Maryland 21224

(410) 631-3000

William Donald Schaefer Governor

June 1, 1994

David A.C. Carroll Secretary

NOTICE OF COMPLIANCE

Mr. Mark Carroll Park Rug & Dry Cleaners Corporation 107 North Cross Street Chestertown MD 21620

RR: Park Rug & Dry Cleaners Cross Street Chestertown, Maryland Case #91-2420 KE

Dear Mr. Carroll:

On May 4, 1994, a representative of the Waste Management Administration's Oil Control Program reviewed the Administration's case and the report submitted by ECS, Inc. dated April 26, 1994 on the above-referenced property.

Based on this review and information, it has been determined that one (1) underground storage tank has been removed and one (1) monitoring well has been installed and sampled. The Administration does not require any corrective action at this site based on the low level of dissolved petroleum in groundwater and site characteristics. Thus, the above-referenced property is now in compliance with Code of Maryland Regulations 26.10.10.01-03.

The Administration hereby closes its case in reference to this site. This Notice should not be construed as a waiver of the Administration's right to take any other enforcement action it deems appropriate with respect to this site. This notice is not intended to address tetrachloroethane contamination which may have originate from this site.

If you have any questions concerning this matter, please telephone this office at (410) 631-3442.

Sincerely,

Ross Kelly, Regional Supervisor Compliance/Remediation Division

Oil Control Program

ST:rdm

cc: Mr. Richard Collins

Mr. Harold Dye

Mr. John Grace

Mr. Herbert Meade

Mr. Horacio Tablada

MEMORANDUM

Copies 91-2420KE

From S. Tiffany Subject Well amalysis / Phone Conversation On this Dote this Inspector Spoke w/ MR. David Carroll, of Park Rug & Dry Cleaners, u Reference Ao the Re-Sarphy of their mw for PCS.
Previous Results in Oct. 91 were 5200 ppb. Oct 5, 1993 Results are 112 Ppb. This inspector Requested the mw be Resampled Co mos. from hast date (march, 94) W/a Copy of the Results forwarded to this office.

Mr. Carroll Stotaed the world pass the Info.

Clong to his father (President-alon Corroll)



CASE # 91-2420 KE

Type of Inspection/Observation: Meeting Proposed Well Fretallation Date 8 13 91
Facility Name: Park Rug + Dry Cleaners Corp. 107 North Cross St. Chesterton
Remarks: Inspector, Mr. Thomas Walter Cregional Supervisor) and Mr. Lanny Helms
(Earth Data) visited above site to meet with Mr. Alan Carroll (preside
Park Rug and Dry Cleaners Exp.) to mark proposed manitoring well
16cdion due to abandonment in place of Wasoo gallon#2 heating oil
tank. Upon arrival proposal location for well has been marked.
Inspector odvised Mr. Carrolland Mr. Helms that well is to be sampled
and analysed for BTEX, Nagthalene, and PCE. Mr. Carroll stated no
exact date has been scheduled at present time, but exputs to
tenatively have As'T installed next week. Mr. Carroll stated that
inspector's office will be notified when abandonment of UST has
been scheduled. 48 how notification prive to abandonment
is preferred. Upon receiving sumple results and observing touk
abandonment, case status will be updated.
Left copy of report with Mr. Carroll & Mr. Helms
TIME IN: 1100 TIME OUT: 130 Alan Canoll
Observer: Brown Kal Blood Person Interviewed: Mr. Alan Carroll Oresident Part
ME The ras watter I have Walte me John Helms (East Day loop
REV. 1/11/88



CASE # 91-2420 KE

Type of Inspection/Observation: Follow-up Fourive Inspection Date 3 191
Facility Name: Park Rug and Dry Eleaners Corp. 107 N. Eross st. Chesterton
Remarks: Inspector visited above site to follow-up on visit mode
on 6/13/91. Upon arrival inspector spoke with Mr. Alan Carroll
(president, Park Rug + Bry Cleaners Corp.) who stated + hat an above
ground storage tank has been obtained and coastal Primp and Tank
Inc. (Harrington DE) has been contracted to abandon existing
Newting oil took in place. Tenative scheduling for tank abandoment
is approximately (2) weeks. Inspecies also ravised Mr. Carroll that
an environmental assessment must be performed via installation of (1)
H" puc groundwater monitoring well in order to determine if any
Teleculario of product has occurred and imported the grown juster Well'is
to be kinstalled in a location acceptable to the Administration.
Well is to be sampled and analysed for B.T.E.X. and Naphalene.
Inspector hand delivered to Mr. Carroll a list of oil spill
Ebrations and advised Wir Samol to contact inspected
Office HE hours prior to abandoning tout. Inspector will
also refer findings to Mr. Herbert Mercle Conferencement
chief and Mr. Thomas Walter- (regional 3 upenison).
Left zepy of report with M. Zarroll
TIME IN: 1400 TIME OUT: 1500
Observer: Brown Rac Brown Person Interviewed: Mr. Alan Earrall president, Par MDE 111
Alexanders Co.
REV. 1/11/88



CASE # 91-2420 KE

Type of Inspection/Observation: Pout in Inspection	Date 6 / 13 / 91
Facility Name: Park Rug and Dry Cleaners Copp. 107	
Remarks: Inspecier visited above site in reference	
concerning contamination of chestertown Municipalis	
inspector spoke with Mr. Alan Carroll (president, Pa	
Carp.) who state hat there is (1) was on site	used for heating purposes.
Mr. Carroll also stated that the ust was installed	
copacity. Tank is registered but has not been	
tossilsono color code what or identificat	
(1) 80 sallon AST which is located inside the br	y cleaning facility which
is used for storage of perchloroethylene. Mr. C.	word stated that a bulk
addivaries are made directly into the storage t	
Carnisters (silters are changed monthly and one	Lisposail of through Safety-
Kleen comp. Hazurious Waste Manifests and	on site. Inspector hard
delivered to Mr. Carroll a copy of Md. State re	
Festers. Inspector advises Mr. Carroll of the	- tollowing requirements:
) On onby 1636 hrs. 7/13/9/ precision test h	esting oil storage tack system.
Contact inspector concerning results of pracis	· · · · · · · · · · · · · · · · · · ·
2) Partier Color coding of storage tank Fill	
include type of product stored and cupacit	of tank. This is also to
De performed enorby 1636 hrs. 7/13/91.	
Return visit will be made to verily	· · · · · · · · · · · · · · · · · · ·
Constell. Inspector will also refer tirdi	• •
(enforcement thief) and Mr. Thomas Walt	er(regional supervisor)
Left zery of report with Mr.	Canoll
	
TIME IN: \\30 TIME OUT: \\330	
Observer: Brown Rose Brown Interviewed:	Mr. Alan Corroll (freithert, Fork Rug and Try Cleaners Coff.) (Carroll
Observer: VI COA FOR Person Interviewed:	and they cleaned cottis)
MDE 111	1 Parall
REV. 1/11/88	

UNDERGROUND STORAGE TANK DIVISION INITIAL REPORT OF ENCIDENT CASE NO: 91-2420 KE

	_	CALLER
١.	Name of MSUMU personnel taking report:	
2.	Date of report: 6/13/91	3. Time of reports
4.	Hame of caller:	5. Telephone #:
6.	What agency or company is caller with:	
***	******************************	**************************************
	BETAIL	. SOF SPILL
7.	Date of Incident	8. Time of incident:
٥.	Has product been released? YESNO	
11.	Tank test failure? YES NO	12. tank fallure rate:
13.	Precise location of the release or incident: Carl	LRugist Dry Cleaners Corp. 107 North
	Cross st. Chestertown	county: KE
14.	•	
15.	Type of product involved:	
16.		17. Age of tank system:
18.		a color waity, precision texting
	(rell head prote	Low pregram)
		•
19.	Has product entered water? YESNO	20. Name of Waterway:
****	******************************	·
	R E S P O N S	SIBLE PARTY
21.	Responsible party's name:	
72.		
3.		War and the second of the seco
4.	Has responsible party taken any action to control the	problem? YES NO
5.		

	4 6 + 1	ON TAKEN
		THE.
	TRANSFERRED CALL TO:	
	DISPATCHED:	
	OTHER:	INITIALS:



Park Cleaners Report October 14, 1993 page 2

The sample collected was shipped to an independent laboratory for analysis for the presence and concentration of tetrachloroethene (PCE). The sample was accompanied by a properly maintained chain of custody form throughout the sample collection, transportation and analytic process. Copies of the laboratory report and chain of custody form are included in the appendix for your review and records. The results of the laboratory testing are presented in Table 2, Ground Water Analytical Test Results.

Table 2: Ground Water Analytical Test Results					
Monitoring Well MW-1					
Date	10/05/93				
PCE	112 ug/L				
ug/L - micrograms per liter or parts per billion (ppb).					

Limitations

The scope of work completed is limited to the activities and results contained in this report. Industry standard hydrogeologic investigative procedures and protocol were employed in the completion of the scope of work. No other warranty expressed or implied is made. The chemical analysis services contained in this report were performed by Phase Separation Science, Inc. of Baltimore, Maryland.

The information presented in this report should be provided to:

Maryland Department of the Environment Hazardous & Solid Waste Management Administration Oil Control Program 2500 Broening Highway Baltimore, Maryland 21224

Attn: Ms. Susan Tiffany

ECS thanks you for the opportunity to be of service. If you have any questions, please contact our offices at (410) 543-0068.

Sincerely

Jonathan Kniskern

Staff Geologist

Bob Orgain

President



REPORT OF GROUND WATER SAMPLING AND LABORATORY TESTING PARK RUG AND DRY CLEANERS CORPORATION

Chestertown, Maryland April 26, 1994

prepared for

Park Rug and Dry Cleaners Corp. 107 North Cross Street Chestertown, Maryland 21620



ENVIRONMENTAL CONSULTING SERVICES, INC. P.O. BOX 1615, SALISBURY, MARYLAND 21802-1615 (410) 543-0068 FAX (410) 742-5089



April 26, 1994

Park Rug and Dry Cleaners Corp. 107 North Cross Street Chestertown, Maryland 21620

Attn: Mr. A. Carroll

Subject: Report of Ground Water Monitoring Well

Sampling and Testing

Park Cleaners

Chestertown, Maryland ECS Project No. 160400193

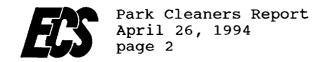
MDE Case #91-2420 KE

Dear Mr. Carroll:

Environmental Consulting Services, Inc. (ECS) has completed the scope of work to collect and chemically analyze one (1) ground water sample from the monitoring well located at Park Cleaners in Chestertown, Maryland (see Project Location Map, drawing no. 160400193A, in the appendix). The scope of work conducted was completed in accordance with the specifications presented in our proposal dated April 7, 1994.

On Monday, April 18, 1994 one (1) monitoring well at the project site was gauged, purged, and sampled in accordance with Maryland Department of the Environment (MDE) guidelines. The monitoring well location is indicated on drawing number 160400193B, Project Site Diagram, in the appendix. The data collected from the well gauging activity is presented in Table 1, Monitoring Well Gauging Data.

Table 1: Monitoring Well Gauging Data							
Well ID Kent Co. Well Tag No.	Depth to Ground Water	Total Depth	Water Layer Thickness	Well Vol. (Gal.)	Purge Vol. (Gal.)		
MW-1 KE-88-0273	15.09′	23.70′	8.61′	5.68	17.04		



The ground water sample collected was shipped to an independent laboratory for analysis for the presence and concentration of tetrachloroethene (PCE). The sample was accompanied by a properly maintained chain of custody form throughout the sample collection, transportation and analytic process. Copies of the laboratory report and chain of custody form are included in the appendix for your review and records. The results of the laboratory testing are presented in Table 2: Ground Water Analytical Test Results along with the previous sampling data.

Table 2: Ground Water Analytical Test Results						
Monitoring Well MW-1						
Date	10/05/93	04/18/94				
PCE	112 ug/L	3 ug/l				
ug/L - micrograms per liter or parts per billion (ppb).						

The PCE concentration reported from the laboratory analysis of the ground water sample collected on April 18, 1994 was three (3) micrograms per liter (ug/L) or parts per billion. The limit of quantitation for United States Environmental Protection Agency (USEPA) analytic method 8260 is five (5) parts per billion (ug/l). Concentrations which are detected at concentrations below the USEPA method limit of quantitation are reported as estimates.

Limitations

The scope of work completed is limited to the activities and results contained in this report. Industry standard hydrogeologic investigative procedures and protocol were employed in the completion of the scope of work. No other warranty expressed or implied is made. The chemical analysis services contained in this report were performed by Phase Separation Science, Inc. of Baltimore, Maryland.



Park Cleaners Report April 26, 1994 page 3

The information presented in this report should be provided to:

Maryland Department of the Environment Waste Management Administration Oil Control Program 2500 Broening Highway Baltimore, Maryland 21224

Attn: Ms. Susan Tiffany

ECS thanks you for the opportunity to be of service. If you have any questions, please contact our offices at (410) 543-0068.

Sincerely,

Darren Ryan

Staff Engineer

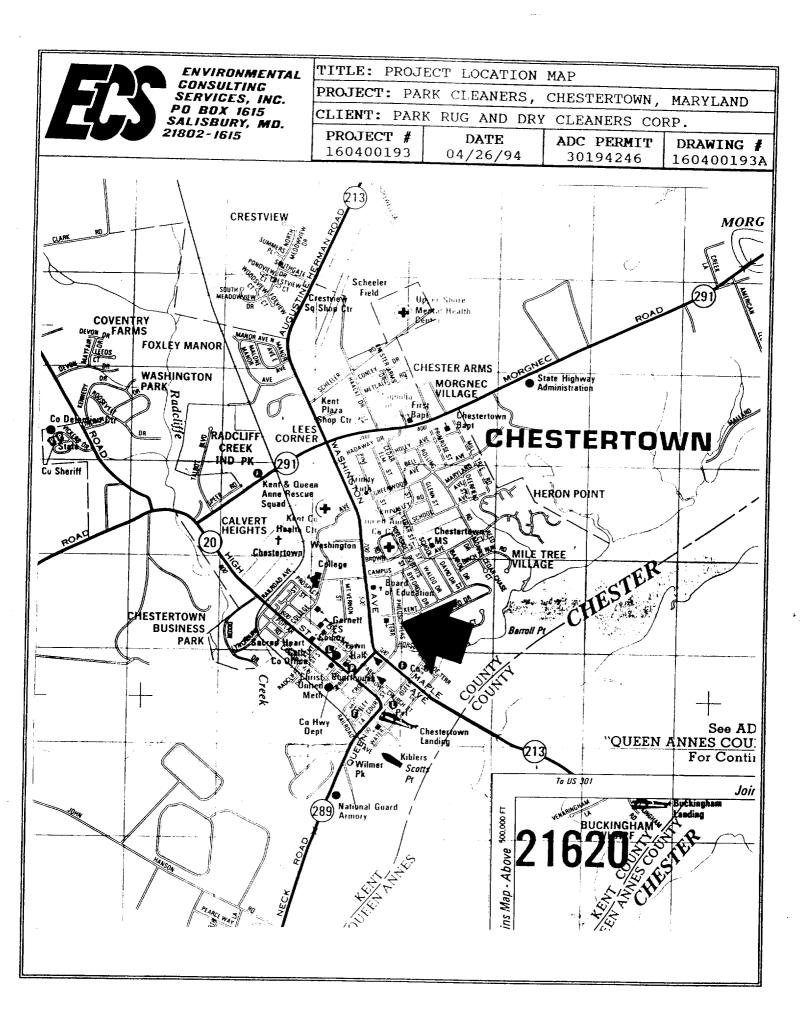
Bob Orgain

President



Appendix

	drawing no	٠.
Project Location Map	.160400193A	L
Project Site Diagram	.160400193B	;
Laboratory Reports and Chain of Custody Forms		





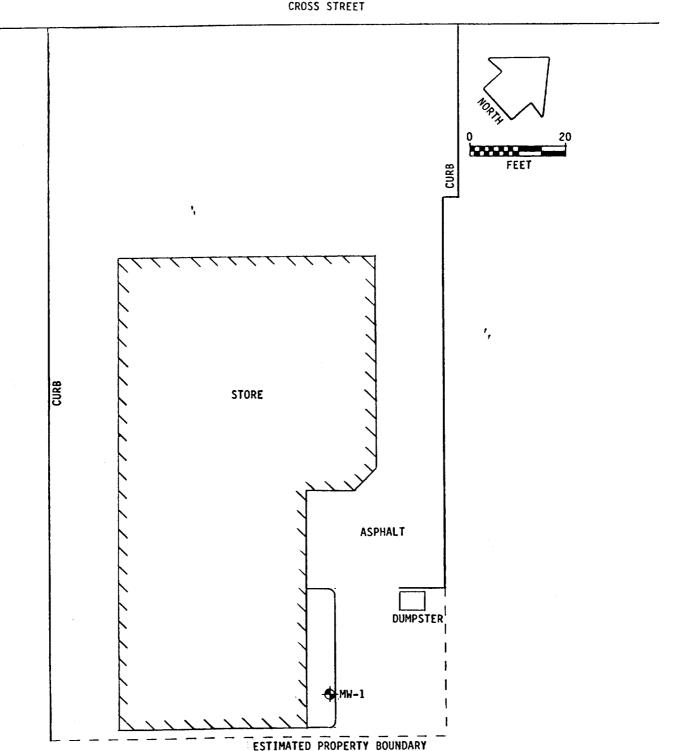
TITLE: PROJECT SITE DIAGRAM PROJECT: PARK CLEANERS, CHESTERTOWN, MARYLAND PARK CLEANERS CLIENT:

PROJECT NO. SCALE

160400193

1" = 20'

DATE 04/26/94 DRAWING NO. 160400193B



OFFICES: 6630 BALTIMORE NAT'L PIKE ROUTE 40 WEST BALTIMORE, MD 21228 410-747-8770 800-932-9047 FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 940419-01 001
Environmental Consulting Services, Inc.
April 26, 1994

Analysis of: Water Sample MW-1

Project: Park Cleaners

Site Location: Chestertown, Maryland

Project Number: 160400193

Analysis of Tetrachloroethene

Date Sampled: 4-18-94 Date Received: 4-19-94 Date Analyzed: 4-21-94

Tetrachloroethene

e 3 ug/L

e-estimated value

The above analysis was performed according to procedures described in the following EPA methods:

EPA 8260: Volatile Organic Compounds by GC/MS

Reviewed by:

Quality Assurance Chemist

PHASE SEPARATION SCIENCE, INC. Analytical Chemistry-Environmental Science Sample Chain of Custody Form

6630 Baltimore National Pike Baltimore, Maryland 21228

Phone: 410-747-8770/800-932-9047Fax: 410-788-8723

Client Name	T.	. 1.0	· ·	Project Ma	2225	Mr. Bob	Organia		
Chicat Ivanic		ental Consultin	g	Project Madaget		MIL. BOO	O. gam		
	Services, I	nc.							
Project Name				Project Nu	mber				
	PARK CLEANERS				160400193				
Site Location				Laboratury	Number				
	CHESTER TOWN .	MARYLAND				į	940419	-01	
							110 110		
Sample II)	Matrix	Sample Date	Prese	rvative	Analyti	cal Param	octers		
mw-1	H.O	4-18-94	WH	1	PLE (TENLACHU	OROETHYLENE:) (xx4	10m1)
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extraction procedures. Picuse Rostine 48 hr						24 hr	~	days	j
contact the lab for pplicability						1			}
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MEMORANDUM

Copies 91-2420KE

To File From S. Tiffany Date 10/25/93
Subject Well amalysis Phone Conversation on this Dote this Inspector Spoke w/ mr. David Carroll, of Park Rug + Dry Cleaners, in Reference do the Re-Sarphy of their mw for PCS.
Previous Results in Oct. 91 were 5200 ppb. Oct 5, 1993 Results are 112 ppb. This inspector Requested the mw be Resampled Co mos from hast date (march, 94) W/a Copy of the Results forwarded to this office. Me. Carroll Stoteed the world pass the lufs. Along to his father (President-alon Carroll)



CASE # 91-2420KE

	Report of Observations	FACILITY I.D. #	
Type of Inspection/Observation: _	Follow-up-	Date 9 / <u>/ 4</u> /	93
Facility Name: Park Rug.	+ Dry Cleaners, 107	N. Cross St. Chestuto	
Remarks:			
onthis Date +	this Inspector Met	W/me Wan Car	roll
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Montoon mell	and Have it and	alized Ofor Tetrachlo	roethe
(PCB).	0.100		7
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Additional Env	<u> </u>		
HULLIAMON CITY	11200.		
IN House	s + assoc - 410-541	e 6462 (John Hynes	Γ
ECS-	410-543-0068	(Bob ORgain)	/
L	nc - 416. 224-9300	(Sonny Beard)	
		C Sime Security	
TIME IN: 1330	TIME O		
Observer: Olsa /	Hay Person Interview	wed: Alan-Carroll - Tres. Tark	Kindon
MDE 111 REV. 4/92	シ ()	Akin / Townsell	₩
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CASE # 91-2420 KE

Type of Inspection/Observation: Meeting Proposed Well Installation Date 3 13 91
Facility Name: Pork Rug + Dry Cleaners Corp. 107 North Cross St. Chesterton
Remarks: Inspector, Mr. Thomas Walter (regional supervisor) and Mr. Lanny Helms
(Earth Data) visited above site to meet with Mr. Alan Carroll (president
Park Rug and Dry Cleaners Esop.) to mark proposed manitoring well
16ction due to abandonment in place of (Depoogallon#2 heating oil
tank. Upon arrival proposal location for well has been marked.
Inspector advised Mr. Carroll and Mr. Helms that well is to be sampled
and analysed for BTEX, Napithalene, and PCE. Mr. Carroll Stated no
exact date has been scheduled at present time, but expects to
tenalisely have AST installed next week. Mr. Carroll Stated that
tenatively have AST installed next week. Mr. Carroll Stated that inspector's office will be notified when abandonment of UST has
bear scheduled. 48 how notification prior to abandonment
is preferred. Upon receiving sample results and observing took
abandonment, case status will be updated.
,
Left copy of report with Mr. Carroll & Mr. Helms
TIME IN: 1100 TIME OUT: 130 Alan Carvoll
Observer: Brown Rea Blace Person Interviewed: Mr. Alan Carroll (President, Park
me Thomas water Thome Walt me Lanny Helm (Earth Del Korp
MDE 111



CASE	#	\ \	

Report of Observations

		Date
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MDE 111 REV. 1/11/88



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Observer : Person Interviewed :	



REPORT OF GROUND WATER MONITORING WELL

SAMPLING AND TESTING

PARK CLEANERS

CHESTERTOWN, MARYLAND

OCTOBER 14, 1993

OCT 2 1993

prepared for

Park Cleaners 107 North Cross Street Chestertown, Maryland 21260

prepared by

Environmental Consulting Services, Inc. P.O. Box 1615 Salisbury, Maryland 21802-1615



October 14, 1993

Park Cleaners 107 North Cross Street Chestertown, Maryland 21620

Attn: Mr. A. Carroll

Subject: Report of Ground Water Monitoring Well

Sampling and Testing

Park Cleaners

Chestertown, Maryland ECS Project No. 160400193

MDE Case #91-2420 KE

Dear Mr. Carroll:

Environmental Consulting Services, Inc. (ECS) has completed the scope of work to collect and chemically analyze one ground water sample from the monitoring well located at Park Cleaners in Chestertown, Maryland (see Project Location Map, drawing no. 160400193A, in the appendix). The scope of work conducted was completed in accordance with the specifications presented in our proposal dated september 17, 1993.

On Tuesday, October 5, 1993 one (1) monitoring well at the project site was gauged, purged, and sampled in accordance with Maryland Department of the Environment (MDE) guidelines. The monitoring well location is indicated on drawing number 160400193B, Project Site Diagram, in the appendix. The data collected from the well gauging activity is presented in Table 1, Monitoring Well Gauging Data.

Table 1: Monitoring Well Gauging Data									
Well ID (Kent Co. Well Tag No.)	Depth to Ground Water	Total Depth	Water Layer Thickness	Well Vol. (Gal.)	Purge Vol. (Gal.)				
MW-1 (KE-88-0273)	19.10'	23.70'	4.60'	3.04	9.12				



Park Cleaners Report October 14, 1993 page 2

The sample collected was shipped to an independent laboratory for analysis for the presence and concentration of tetrachloroethene (PCE). The sample was accompanied by a properly maintained chain of custody form throughout the sample collection, transportation and analytic process. Copies of the laboratory report and chain of custody form are included in the appendix for your review and records. The results of the laboratory testing are presented in Table 2, Ground Water Analytical Test Results.

Table 2: Ground Water Analytical Test Results								
Monitoring Well MW-1								
Date	10/05/93							
PCE 112 ug/L								
ug/L - micrograms per liter or parts per billion (ppb).								

Limitations

The scope of work completed is limited to the activities and results contained in this report. Industry standard hydrogeologic investigative procedures and protocol were employed in the completion of the scope of work. No other warranty expressed or implied is made. The chemical analysis services contained in this report were performed by Phase Separation Science, Inc. of Baltimore, Maryland.

The information presented in this report should be provided to:

Maryland Department of the Environment Hazardous & Solid Waste Management Administration Oil Control Program 2500 Broening Highway Baltimore, Maryland 21224

Attn: Ms. Susan Tiffany

ECS thanks you for the opportunity to be of service. If you have any questions, please contact our offices at (410) 543-0068.

Sincerely

Jonathan Kniskern Staff Geologist Bob Orgain

President



Appendix

	drawing no.
Project Location Map	160 400193A
Project Site Diagram	160400 193B
Laboratory Reports and Chain of Custody Form	



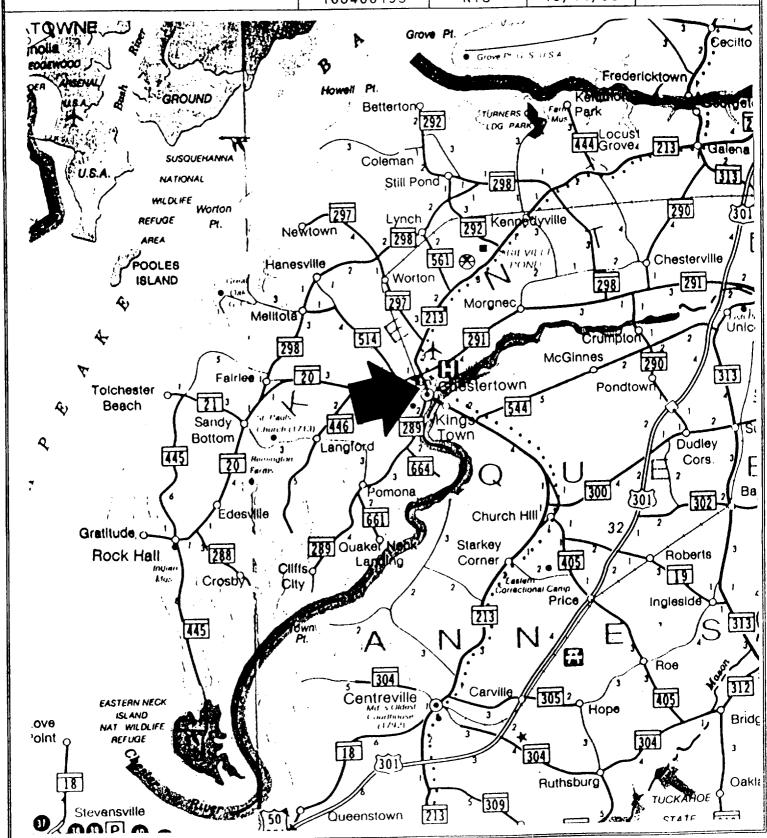
TITLE: PROJECT LOCATION MAP

PROJECT: PARK CLEANERS, CHESTERTOWN, MARYLAND

CLIENT: PARK CLEANERS

PROJECT NO. SCALE
160400193 NTS

ALE | DATE | NTS | 10/14/93 DRAWING NO. 160400193A





TITLE: PROJECT SITE DIAGRAM

PROJECT: PARK CLEANERS, CHESTERTOWN, MARYLAND

CLIENT: PARK CLEANERS

PROJECT NO.

SCALE

DATE

DRAWING NO.

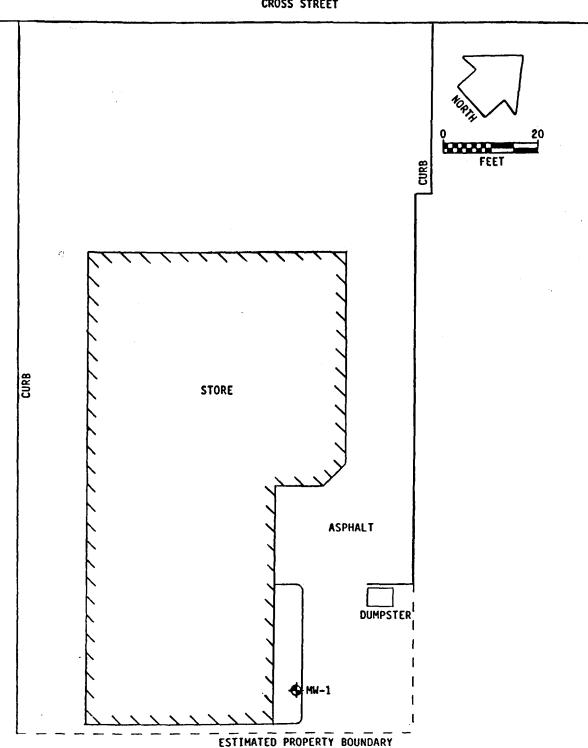
160400193

1" = 20'

10/14/93

160400193B

CROSS STREET



OFFICES: 6630 BALTIMORE NAT'L PIKE ROUTE 40 WEST BALTIMORE, MD 21228 410-747-8770 800-932-9047 FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



STORES LANG

CERTIFICATE OF ANALYSIS
No. 931006-02
Environmental Consulting Services, Inc.
October 13, 1993

Analysis of: Water Sample MW-1

Project: Park Cleaners

Site Location: Chestertown, Maryland

Project Number: 160400193

Analysis of Tetrachloroethene by GC/MS

Date Sampled: 10-5-93 Date Received: 10-6-93 Date Analyzed: 10-12-93

Tetrachloroethene

112 ug/L

The above analysis was performed according to procedures described in the following EPA method(s): EPA 8260: Volatile Organic Compounds by GC/MS

Reviewed by:

Quality Assurance Chemist

10/13/1993 15:1/ 410- -8723

PHASE SEPARATION SCIENCE, INC. Analytical Chemistry-Environmental Science Sample Chain of Custody Form

6630 Baltimore National Pike Baltimore, Maryland 21228

Client Name	Environmental Consulting Services, Inc.			Project Manager		Mr. Bob Orgain				
Project Name	Name Park Cleaners			Project Number		160400193				
Site Location	Chamberto	oun, Maryland	L	Laboratory Number		160400193 931006-02				
Sample II)	Matrix	Sample Date	Pros	ervative	Analyti	cal Par	ameter	8		
MW-1	H20	10/5/93	2	/A	PCE	(Tetro	chlere	oethylene	2)(2	x 40ml)
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Earth Data, Inc.-St. Michaels 605 S. Talbot Street St. Michaels, MD 21663

MW-1 Water Sample Parks Rug & Dry Cleaners

ANALYSIS Tetrachloroethene BTEX Scan & Naphthalene

1 COPY TO Earth Data, Inc.

The state of the s Date Reported Date Submitted 10/3/91 Discard Date 10/18/91 Collected 10/ 2/91 by CW Time Collected 0700 P.O. 970 Rel.

> RESULT AS RECEIVED 5,200.

ug/l attached

LIMIT OF QUANTITATION LAB CODE 042000500 30. 426410000

ATTN: Tucker Mooreshead

Method # 502.2 (Drinking Water)

The American Association for Laboratory Accreditation at Biological & Environmental



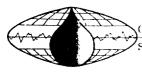
Questions? Contact Environmental Client Services at (717) 656-2301 0.00 010500 330 03193

> See Reverse Side For Explanation Of Symbols And Abbreviations And Our Standard Terms And Conditions

Respectfully Submitted Lancaster Laboratories, Inc. Reviewed and Approved by:

Judy A. Colello, A.S. Group Leader, Volatiles by GC





GROUND WATER AND ENVIRONMENTAL CONSULTANTS

ST. MICHAELS & ANNAPOLIS, MARYLAND AND EXTON. PENNSYLVANIA

October 21, 1991

Mr. Alan Carroll Park Rug and Dry Cleaners Corp. 107 N. Cross Street Chestertown, MD 21620

Subject: Park Rug and Dry Cleaners Corp., 107 N. Cross Street,

Chestertown, MD

Dear Mr. Carroll:

As requested, one monitoring well was constructed at the location shown on the attached sketch at the above mentioned facility. Driller's log, well completion report, water level data and a site sketch are attached.

Water samples were collected from the monitoring well on October 2, 1991 according to our standard protocol. Analysis for BTEX, Naphthalene and tetrachloroethene (PCE) were performed on the samples as requested. The laboratory analysis reports are attached.

If you have any questions concerning the results of this investigation or we can be of further assistance, please do not hesitate to contact us.

Sincerely,

I. L. Helms

Senior Engineering Geologist

ILH:bjs - 970

cc: MDE UST Division

Attn: Mr. Tom Walters Earth Data - Exton Office

Enclosures

The second secon	and the second second	to an artificial condition of State and Constitution of the Consti	
C 1 3202 SEQUE		STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN
1. 2 3 GOENVUS (THIS NUMBER IS TO BE PUNCHED	SE ONLY)	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY	JNTY //
IN COLS. 3-6 ON ALL CARDS)		PLEASE PRINT OR TYPE	NUMBER 14
ST/CO USE ONLY DATE Received DATE WELL	COMPLETED	Depth of Well	PERMIT NO. FROM "PERMIT TO DRILL WELL"
	1971	22 2 4 26	WL-88-0273
8 13 15	20	(TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 37
OWNER A last name		first name	- 7 22 21 21 26
STREET OR RED //	1.10 · C · ·	SECTIONTOWN	LOT
SUBDIVISION		GROUTING RECORD TO NO	C 3
Not required for driven wells		WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2
STATE THE KIND OF FORMATIO PENETRATED, THEIR COLOR, D		TYPE OF GROUTING MATERIAL	PUMPING TEST
THICKNESS AND IF WATER BEA	RING Check	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
520011111111111111111111111111111111111	if water bearing	NO. OF BAGS 5 NO. OF POUNDS 45. 46	PUMPING RATE (gal. per min. // 11 15
1		GALLONS OF WATER	METHOD USED TO
	/	DEPTH OF GROUT SEAL (to nearest foot) from 1 ft. to 1 ft.	MEASURE PUMPING RATE L
		from 1 ft. to 1 BOTTOM 58 ft. (enter 0 if from surface)	BEFORE PUMPING
	_	casing <u>CASING RECORD</u>	17 20
1/3347/14)	types insert ST CO	WHEN PUMPING 122 25
		(appropriate) STEEL CONCRETE	TYPE OF PUMP USED (for test)
1/1/1/1/5/		code below PL OT	
100000000000000000000000000000000000000		PLASTIC OTHER	other
		MAIN Nominal diameter Total depth CASING top (main) casing of main casing	C centrifugal R rotary (describe 27 below)
		TYPE (nearest inch) (nearest foot)	J jet S submersible
	4 10		27 27
,		60 61 65 64 66 70 E OTHER CASING (if used)	
		diameter depth (feet) c inch from to	PUMP INSTALLED
		С	DRILLER WILL INSTALL PUMP YES (NO)
		A L	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
		Z G	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
		screen type SCREEN RECORD	TYPE OF PUMP INSTALLED
		SI BR HO	PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE:
		appropriate BRONZE HOLE	CAPACITY:
1		below / PL OI	GALLONS PER MINUTE (to nearest gallon)
		PLASTIC OTHER	PUMP HORSE POWER 137 41
		1 2	PUMP COLUMN LENGTH (nearest ft.)
		DEPTH (nearest ft.)	CASING HEIGHT (circle appropriate box
		A 8 9 11 15 17 21	and enter casing height)
:		H 2	LAND SURFACE (nearest
	TED	S 23 24 26 30 32 36	below (foot)
CIRCLE APPROPRIATE LET A A WELL WAS ABANDONED AN		E 3 47 51	LOCATION OF WELL ON LOT
WHEN THIS WELL WAS COMP		N 30 39 41	A SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR
E ELECTRIC LOG OBTAINED		SLOT SIZE 1 2 3 (NEAREST	N LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
P WELL CONVERTED TO F	RODUCTION	DIAMETER (NEAREST INCH)	(MEASUREMENTS TO WELL)
THEREBY CERTIFY THAT THIS WELL HAS BEEN ACCORDANCE WITH COMAR 26.04.04 "WELL	CONSTRUCTION"	from to 7.4	1" (-115'-) (B)
AND IN CONFORMANCE WITH ALL CONDITION	S STATED IN THE	GRAVEL PACK L. // L. 3.7 L. 3.	1 21
SENTED HEREINIS ACCURATE AND COMPLETE MY KNOWLEDGE.	TO THE BEST OF	FLOWING WELL INSERT	140
DRILLERS 1DENT. NO. 4116		OFP USE ONLY	
1 11/11/20 + 20 Ca	مسب، ر	(NOT TO BE FILLED IN BY DRILLER)	
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APP	ICATION)	T (E.R.O.S.) W Q	D. Cv T
(WOST WATON GIGNATURE ON ACT		70 72	
SITE SUPERVISOR (sign. of driller or	journeyman	TELESCOPE LOG OTHER DATA CASING INDICATOR	1
responsible for sitework if different fr	om permittee)	CASING INDICATOR	

		•			
Project:	Project: PARK CLEANERS	aners		DETAILED DESCRIPTION We OF CUTTINGS Ea	ample Num
w. o.: 970		Date: 9/19/91			Described by TED IKOMBOCK
DEPTH I	DEPTH INTERVAL	COLOR	SIZE	TYPE MATERIAL	SPECIAL FEATURES
FROM	TO				
0	1.0	BLACK		LOAMY SAND + GRAVEL	
1.0	3.0	TAM- ORANGE		FILL	BRICKS+CONCRETE
3.0	5.0	TAN-oamice	:	CLAYEY SICT	
5.0	25	TAN-GRAY		CLAY	
7.5	10.0	orance		CLAY	
70.0	12.0	TAN	MEDIUM	SAND	
ه.دا	17.0	ORANGE	me Dium	SAND	
17.0	24.0	orance-jeust	MEDIUM	SAND	18.5 WATER.

KE-88-0273

EARTH DATA INCORPORATED

#970

PROJECT_PARK CLEANERS WELL NO. MW-1 KE-88-0273 CONSTRUCTION ANNULAR SPACE PEPTH LOG PROFILE FILLED WITH: DESCRIPTION OF MEASURING PTS: G.S. M.P. ELEVATION: Method of Drilling: AUGER DATE(S) DRILLED: 9/19/91 CEMENT DEPTH DRILLED: - 24.0 DEPTH OF WELL: - 24.0 DRILLER: TED. TRUMBULL STICKUP: -0.5 CASING HOLEPLUG. PUC MATERIAL 4" DIAMETER -0.5 TOP -14.0 BOTTOM WELL SCREEN MATERIAL PUC 44 DIAMETER graver .020 SLOT SIZE -14.0 TOP 18-BOTTOM -24.0 SAND OR GRAVEL SIZE: #2 GROUTING DETAILS: 24-11 GRAVEZ 22-11-7 HOLEPLUG 7-0 CEMENT PROTECTIVE CASING: flush cover 24 -LOCKING CAP? (YES) INITIAL YIELD: 39PM DEVELOPMENT DETAILS: pumper for 1/2 her PUMPING TEST DETAILS: STILL CLOUDY AFTER 1/2 hR. pumping STATIC WATER LEVEL: 18.5 DATE: 7/19

Field PETROLEUM LEVELS

W.O. 970

Project PARK Cheaners

Weather Now Chear Cool

Location Chesks Hown MD

Prior Weather Chear

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pata collected by: C.N:pe

Earth Data

PROJECT Park Cleaners W.O.

MW-1



DESCRIPTION sketch map of DATE 8 115191

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AN YSIS REPORT

Lancaster Laboratories

ASR000 03193

Earth Data, Inc.-St. Michaels 605 S. Talbot Street St. Michaels, MD 21663

MW-1 Water Sample Parks Rug & Dry Cleaners

ANALYSIS Tetrachloroethene BTEX Scan & Naphthalene

1 COPY TO Earth Data, Inc.

LLI Sample No. WW 1722906
Date Reported 10/10/91
Date Submitted 10/ 3/91
Discard Date 10/18/91
Collected 10/ 2/91 by CW
Time Collected 0700
P.O. 970
Rel.

RESULT
AS RECEIVED 0
5,200 ug/l
attached

LIMIT OF QUANTITATION LAB CODE 30. 042000500 426410000

ATTN: Tucker Mooreshead

Method # 502.2 (Drinking Water)

The American Association for Laboratory Accreditation Chemical, Biological & Environmental fields of testing. Questions? Contact Environmental Client Services at (717) 656-2301 330 03193 0.00 010500

See Reverse Side For Explanation Of Symbols And Abbreviations And Our Standard Terms And Conditions Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, A.S. Group Leader, Volatiles by GC



Member American Council of Independent Laboratories Inc



ANAYSIS REPORT

Lancaster Laboratories NCORPORATE

VSEC 0

03193

Earth Data, Inc.-St. Michaels 605 S. Talbot Street St. Michaels, MD 21663

MW-l Water Sample Parks Rug & Dry Cleaners LLI Sample No. WW 1722906

Date Reported 10/10/91

Date Submitted 10/ 3/91

Discard Date 10/18/91

Collected 10/ 2/91 by CW

Time Collected 0700

P.O. 970

Rel.

	RESULT		LIMIT OF	
BTEX Scan & Naphthalene	AS RECEI	VED	QUANTITATION	LAB CODE
Benzene	1.	ug/l	1.	313300000N
Toluene	< 10.	ug/l	10.	313400000N
o-Xylene	< 1.	ug/l	1.	080800000N
m-Xylene	< 1.	ug/l	1.	080900000N
p-Xylene	< 1.	ug/l	1.	081000000N
Ethylbenzene	< 1.	ug/l	1.	313500000N
Naphthalene	< 5.	ug/l	5.	426500000N

Due to the presence of an interferent near its retention time, normal reporting limit was not attained for Toluene.

1 COPY TO Earth Data, Inc.

ATTN: Tucker Mooreshead

The American Association for Laboratory Accreditation Chemical, Biological & Environmental fields of testing.



Questions? Contact Environmental Client Services at (717) 656-2301

See Reverse Side For Explanation Of Symbols And Abbreviations And Our Standard Terms And Conditions Respectfully Submitted Lancaster Laboratories, Inc. Reviewed and Approved by:

Judy A. Colello, A.S. Group Leader, Volatiles by GC

		UNDBI	edround Le	AR BUHMA	RT AND TAN	R CLOSURE	. 1
IIS	WMA CASE	13-04	BKE	DATE	OPENED <\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>	E CLOSED 9 4 92
FI	LE NAME PO	ex Rug	3 Dry C	1/501/04	<u> </u>	SPECTOR'S II	VITIALS BR
TY A) B) C)	PE OF CASE: PULL INSTALLATI SURFACE LEAR INVES	ton Stigation		生) す) g) H)	CUMPLIANCE TANK TEST ABANDONMEN OTHER	CHECK FAILURE T IN PLACE	
** SP: B) C) D)	ILL AFFECTED GROUNDWATE DOMESTIC W SURFACE WA)! CRS CELLS CTERS N		<i>P</i> 1	timtt.tmv W o	DV NO LINES	PERTY
Λ) B) C)	VER OF SYSTE MAJOR OIL LOCAL OIL PRIVATELY SERVICE GOVERNMENT MARINA	COMPANY COMPANY OWNED STATION		F) G) H) i) J)	PRIVATE RE APARTMENT SCHOOL COMMERCIAL OTHER (SPE	sident Business Cify)	
WER	F UNDER TYP	e of case on wells i	i tem b , c NSTALLED?	OR # 18 Yes	CHECKED.	DO NOT FILL NUMBER O	IN CHART BELOW F WELLS
	CAPACTIY OF TANK	TANK	LINE	λge	PRODUCT	STATUS OF TANK	LEAK FOUND
1				,			
2							
3			<u> </u>				
4				<u> </u>			,
5				1	1		
6							
7							
8							
9				· · · · · · · · · · · · · · · · · · ·			
10							
11							
		Rlb		,		all proper	athe
PEV	TEWED BY	NY		-	CODES	ON REVERSE	SIDE

REGISTRATION #_____

CODES FOR USE ON REVERSE SIDE

TYPE:

A) Steel

D) Other

B) Fiberglass

- E) Clad Steel
- C) Cathodically-Protected Steel
- F) Copper

AGE:

A) 1-5 years

D) 16-20 years

B) 6-10 years

E) Over 20 years

C) 11-15 years

PRODUCT:

A) Gasoline

G) Jet Fuel

B) #2 Oil

H) Waste Oil

C) Kerosene

I) Asphalt

D) #4 Oil

J) Other

E) #5 Oil

K) Diesel

F) #6 Oil

K) Diese

LEAK FOUND IN:

A) Tank

F) Fill Pipe

B) Supply Line

G) Air Pocket

C) Return Line

H) None

D) Vent Line

I) Other

E) Fittings

J) Flex Connector

- **STATUS:**
- A) In Service
- B) Removed
- C) Abandoned-In-Place



State of Maryland Department of the Environment Hazardous and Solid Waste Management Administration 2500 Broening Highway, Baltimore, Maryland 21224

CASE # 93-0478 KE

Report of Observations

Type of Inspection/Observation: 5 w-face 5pill	Date 9 4 92
Facility Name: Park Rug & Dry Cleaners 107 N. Cross St.	Chestertown
Remarks: Inspector responded to above site upon rea	calving page from
office regarding unknown spill reported by Mr. William	Ingersell Upon
ATTICK INSPECTOTAL BOOK, thick substance locatedin	drive between
backentrance of Dry Eleaning building and combed go	rass median of
City 2 Station. Inspector used Scibert port to determine	a 11 substance
would be absorbed. Upon Observing "Saturation of	stragent bog (1)
Contacted Wr. Larry Schultz (NPDES) to respond. IN	sporter was met
Dy Mr. David Carroll (manager, Park Ruga Dry Cleaners)	who odvised that
Substance was residual soop removed from "still" asso	with dry
Jeaning System. Mr. Carroll stated that it affroximate	hy 1630 hrs. 1093, he
abserved that W25 gallon drum that contained approx	: mately 15 gallons
of soop had been knocked over and soopherd leake	al toundram
opening, which were Eapped. Drum has been put a	int side for
pick-up by Safety-Kleen. Due to heavy rains, Mr.	Carroll advised
that he was not aware that so of has affected	that was
observed by inspector. Mr. Carroll provided inspector	with Eopy of
material safety Data Sheet For soap product know	V AS SCHE KIRE ".
ad term good total Horrow 7m Carrow Studies 12 M	it all in
modiately Mr. Carroll agreed to be so, Mr. Schollet he was a Calland - a Divit to de	- L. C. 1111 11
been properly cleaned up.	=12 36:11 Mas
State of the state	
Copy of report provided to Mr. Sch	show
4 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
TIME IN: 1200 TIME OUT: 1500	
Observer: Brown Roe Blos Person Interviewed: Mr. Paril C	-ar-ull (manager,
Roc-	KRuga Dry Cleany
REV. 1/11/88	₩

WASTE MANAGEMENT ADMINISTRATION DIL CONTROL DIVISION INITIAL REPORT OF DIL SPILL

CASE NO. 93-0478 K	CASE	NO.	93	-04"	78	<	Y.
--------------------	------	-----	----	------	----	---	----

C	1	. Name of MMA personnel taking reports <u>C</u>	, Q
A L	2.	Date of Reports 9 14 192	3. Time of Reports 1 2 00 24 HOUR
E	4.	Name of Callers Bill Ingersoil	5. Telephone 1: 778 - 050%
F.	á.	What Agency or Company is Caller withs	motopotano forma
8 (1111	1++1++1++1+++++++++++++++++++++++++++++	***************************************
	1.	Date of Spills A / 4 /92	8. fine of Spills 24 Hour
D	Ŷ,	Precise Location of the Spill or Incidents	10. Tank Test Failure? YES NO
1		Pork Rugalong (lea	mers (2055 5)
A 1			County: XX
Į S	11.		
F			14. Amount Spilleds
\$			
F I	15.		oily substance ansiderall
į.		1. 4 20 Charro las	9 10+.
L			
	16.	Has Product Entered Water: Tes No	17. Name of Waterwayt
- •			
5	18.	Spillers Name:	***************************************
ŀ	19.	Spillers Address:	
r L	20.	Spillers Telephone Numbers	
Ē		Has Spiller taken any action to control the pi	
•	22.	18 une. Whate	•
1 8 8			
		ON TAKEN TRANSFERRED CALL 10:	Time: 24 ADUR
		DISPATCHED:	
		NO RESPONSE: Explain Why	
	1	OTHER:	INITIALS:

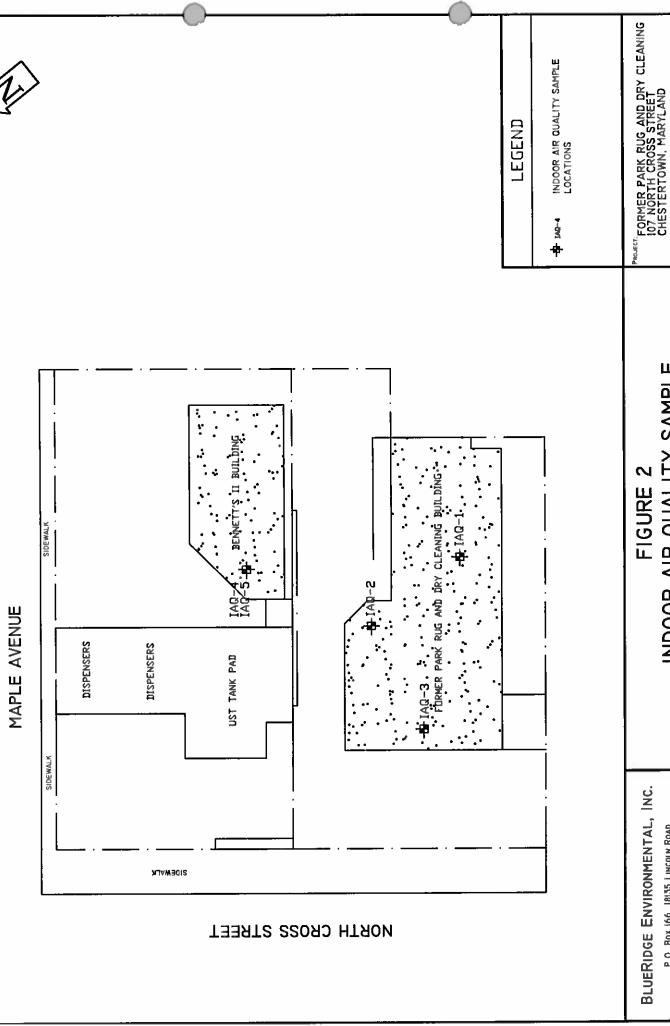
the contract of the second section of the contract of the second section will be second section with the second section with the second section will be second section with the second section with the second section will be second section with the second section section

***	INITIAL REPORT OF INCIDENT CASE NO:
,	Dane d 13:05
1.	Name of HSWMA personnel taking report:
2.	Date of report: $9.4-92$ 3. Time of report: 12.05
4.	Name of caller: Siel Argersall 5. Telephone #: 301-778-0500
6.	What agency or company is caller with: tour my many company is caller with:
****	······································
	DETAILS OF SPILL
7.	Date of incident 9-4-92 8. Time of incident: 12-00
۶.	Has product been released? YES NO 10. Amount released: 2 gol.
11.	
13.	Precise location of the release or incident: Conface of Cross &
	Precise location of the release or incident: Corper of Choose & Ch
14.	Nearest crossroad or other identifying mark:
15.	Type of product involved: uped / Bel
16.	Quantity on board:
18.	Details of release:
19.	Has product entered water? YESNO

	RESPONSIBLE PARTY
21.	
	Responsible party's name:
22.	Responsible party's address:
23.	Responsible party's telephone number:
24.	Nas responsible party taken any action to control the problem? YES NO
25.	If yes, what:

	ACTION TAKEN
	UST INSPECTOR ASSIGNED CASE:
	TRANSFERRED CAUL TO:
	DISPATCHED:DATE:
	NO RESPONSE; Explain why:
	OTHER:[NITIALS:

	Document Numb	oer: 1999	9-1021aWH				
Type of Inspection	Assessment	In	spection Date	Thurs	day, Oct	ober 21, 1	1999
Flag/NOV		<u> </u>	m-compliance				
Compliance Action		o n					1
General Facility Information			minimente mane	<u> </u>			
	Park Rug & Dry Cleaners	Corp					
Type of Business		, сегр.	SIC	Code	7212		
Contact Person					Owner		
				Title	Owner		
Street Address							
City		ip Code 210				410-778	
County	Kent	atitude 39°	° 12.591' N	Lon	gitude	76° 04.0)48' W
Current Permits	none			E	PSC Nu	ımber	
	mestic Discharge Information						
Types of Chemicals Used	PCE	Тур	oes of Wastes Generated	old PC	E, filter	'S	
Manifests/Records			sekeeping Sco				
	Public/Community Supply	y Se _l	otic or Sewered	1? Pu	blic San	itary Sev	ver
Industrial Discharge Inform			aw um	,			
Surface Discharge		UI	C Well Type				
	hauled away by waste contractor	v	Industrial Vastes Going	water,	wash w	ater	
and On-site Disposal			Into Drains				
Inspection Information							
	None.						
-	their floor drains and trend	ch system are	e connected tot	he PO	TW.		
Narrative							
Inspector's Name	John Handy	Ph	otos/Documen	its?	Follov	w-Up Ne	eded?



ARK IAG SAMP

8

03/06/08

INDOOR AIR QUALITY SAMPLE LOCATIONS

BLUERIDGE ENVIRONMENTAL, INC.

P.O. Box 166 18135 LINCOLN ROAD

BLUERIDGE ENVIRONMENTAL, INC.

Table 1

Indoor Air Sample Results Park Rug and Dry Cleaning Chestertown, Maryland February 2008

Sample Number	Sample Date	Location	Analytical Results (ug/M³)¹
IAQ-1	2/13/08	Rear press room – dry cleaners space	PERC – 3.45 TCE – ND ² cis-1,2-Dichloroethene – ND Trans 1,2-Dichloroethene – ND 1,1-Dichloroethene – ND Vinyl chloride – ND
IAQ-2	2/13/08	Adjacent to dry cleaning plant – dry cleaners space	PERC – 36.5 TCE – 2.08 cis-1,2-Dichloroethene – 2.78 Trans 1,2-Dichloroethene – ND 1,1-Dichloroethene – ND Vinyl chloride – ND
IAQ-3	2/13/08	Front counter – dry cleaners space	PERC – 17.9 TCE – 1.15 cis-1,2-Dichloroethene – 1.73 Trans 1,2-Dichloroethene – ND 1,1-Dichloroethene – ND Vinyl chloride – ND
IAQ-4	2/13/08	Bennett's I! Office	PERC – 0.827J ³ TCE – ND cis-1,2-Dichloroethene – ND Trans 1,2-Dichloroethene – ND 1,1-Dichloroethene – ND Vinyl chloride – ND
IAQ-5	2/13/08	Blind duplicate of IAQ-4	PERC – ND TCE – ND cis-1,2-Dichloroethene – ND Trans 1,2-Dichloroethene – ND 1,1-Dichloroethene – ND Vinyl chloride – ND

Notes:

 ^{1 -} ug/M³ = micrograms per cubic meter
 2 - ND = not detected above the method quantitation limit
 3 - J = estimated concentration with analyte detected below the method quantitation limit

Table 2

Analytical Data vs. Applicable Standards Park Rug and Dry Cleaning Chestertown, Maryland February 2008

Analyte	Maximum Concentration (ug/M3)¹	Concentration (ppm) ²	AÇGIH TLV (ppm)	OSHA PEL ³ (ppm)	NIOSH REL ⁴ (ppm)
Tetrachloroethene	36.5	0.0005294	25	100	SN
Trichloroethene	2.08	0.0003808	10	100	25
Cis-1,2-Dichloroethene	2.78	0.0006898	200	100	200

Notes:

1 - ug/M3 = micrograms per cubic meter

2 ppm = parts per million
 3 ACGIH TLV = American Council of Government Industrial Hygienists Threshold Limit Value
 4 - OSHA PEL = Occupational Safety and Health Administration Permissible Exposure Limit
 5 - NIOSH REL = National Institute for Occupational Safety and Health Recommended Exposure Limit



Maryland Department of the Environment Land Management Administration, Hazardous Waste Program 1800 Washington Blvd, Suite 605 Baltimore, MD 21230-1719 410-537-3000, 1-800-633-6101

Field Inspection Report by: Richard Vandegrift

Media Type (s): Hazardous Waste

Inspection Date: 5-21-2014

Site Name: Admiral Inc. #63

Facility Address: 107 N Cross St Chestertown MD, 21620

County: Kent

Hazardous Waste Program

EPA / Identification Number / Waste Designation: MDD022564074 / CESQG

Site Status: Active under new process non- hazardous

Site Condition: Remove from RCRA list no longer generate haz waste

Contact (s): Dave Clokey – Vice President / Mrs. Kim Smith store clerk

Recommended Action: Remove from EPA waste list – non generator now

Inspection Reason: Random

Evidence Collected: Pictures / Documentation / Interview

Site History

Admiral Cleaners has been in business as a retail dry cleaners dating back to the late 80's. RCRA records show that a Mr. Scott Kerridge applied for the original EPA ID number back in December of 2001 at this location. Mr. Kerridge was the company

operations manager for all 18 locations back then, as I found out via interviewing the clerk on duty. Mrs. Smith the clerk on duty was kind enough to help this inspector create a timeline for when Admiral stopped using perchoetloelen in their dry cleaning operation. Mrs. Smith told this inspector that Mr. Dave Clokey was the Vice President and that she would call him to help with my questions. As for my research before inspection there is no evidence that Admiral Cleaners had ever received a hazardous waste inspection since its inception. On this date when I pulled into the location the sign on the business clearly stated Admiral Cleaners.

Physical Inspection

Upon entrance at the address it was plain to see that the location is a dry cleaner. On entrance I was greeted by Mrs. Smith as mentioned above. After introduction and giving Mrs. Smith my explanation for the visit she agreed to my questioning. Mrs. Smith quickly stated that they no longer operate the actual dry cleaning facility at this location. Mrs. Smith went on to say that they take all clothes from this location and process them in their Easton MD facility. Mrs. Smith stated that they have been practicing this since early in 2013. At this point as earlier mentioned Mrs. Smith told this inspector that she would be more comfortable if I spoke with the Vice President of the company a Mr. Dave Clokey. I told Mrs. Smith that would be fine and she then started to locate Mr. Clokey on the phone. She left Mr. Clokey a voice mail stating I was at the location and needed to speak with him right away. After a period of about forty five minutes Mr. Clokey returned the phone call to Mrs. Smith and then began to speak with me..

After introductions on the phone I began to ask Mr. Clokey about the timeline of the processing plant closure at the location of today's inspection. Mr. Clokey went on to explain via the phone that all of Admiral Cleaners location went hazardous waste free over a year ago and that he had personally written a letter to the Maryland Department of the Environment stating such. Mr. Clokey told this inspector that he thought he had sent the letter back in March of 2013 if his memory was correct. He then stated he was surprised by Mrs. Mullins voice mail stating I was at the location to conduct a hazardous waste inspection after sending the letter some 15 months prior. I stated at this time to Mr. Clokey that I referenced the RCRA database recently to acquire inspection locations and that this Admiral location was still clearly active. I then told Mr. Clokey that I would make every effort to see that his letter would be addressed as for the generator status of his 18 locations. Memo to MDE staff please research and locate Mr. Clokeys letter stating that all of his Admiral Cleaner locations are now hazardous waste free and should be removed from the RCCRA database completely. At this point I told Mr. Clokey via the phone that I would enter the back portion of the building to ascertain if his claim of a non processing plant at this location was correct. I thanked Mr. Clokey for his time and told him that I would call him back if I had any other questions during my walk around.

During my walk around there was no indication what so ever that a dry cleaning processing operation currently on the premises. Picture evidence provided with this report will show a shuttered dry cleaning system empty of any cleaning solutions and shut

down. At this point after documenting the location via pictures I thanked Mrs. Smith for her time and exited the building. Picture evidence provided with this report will show what used to be an active dry cleaning processing plant is now just a drop off point for the actual cleaning done at another location.

Records Inspection

Due to the change of processing in the business type of the original inspection target of Admiral Cleaners no record inspection was conducted on this date. The processing plant was for all purpose closed back in 2013.

Inspection Findings

This inspector on this date and time deems this location to have no violations as it pertains to COMAR under the ownership of Admiral Inc.

Site Recommendation

Admiral Inc #63, after this inspection and interview with the company employees deems that the facility is currently a non generator of hazardous waste. It is the recommendation of this inspector on this date that Admiral Inc. the actual inspection target originally today be removed from the RCRA database under RCRA ID number MDD022564074 all together.

Richard Vandegrift ECS III Hazardous Waste Office Number 410-819-4065 Cell Number 443-569-1162





STATE OF MARYLAND DEPARTMENT OF THE ENVIRONMENT LAND MANAGEMENT ADMINISTRATION HAZARDOUS WASTE PROGRAM

1800 Washington Boulevard BALTIMORE, MARYLAND 21230 (410)537-3400

Been at This Location? - (410)537-3400	
FI Inspector: RAV Date: 5-21-2014	
GENERATOR CHECKLIST	
Facility Name: Admiral Inc #63	
Address: LOTN Cross St CHesterform Ml 21620	
Facility Representative: Telephone No.:	
Description of Work Activity: Dry Cleaner's	
EPA Identification Number: MOD 02256 4074 CESQL?	
Section A - Hazardous Waste Determination Does facility generate hazardous waste(s) as defined in COMAR 26.13.02.1019?	Yes No
IgnitableCorrosiveReactiveTC ToxicRCRA Listed	
Describe the amount of waste generated (day, week or month).	
ction B - Manifest (26.13.03.04)	
Does generator ship waste off-site?(If no, do not complete section B and C)	Yes No
Does generator use manifest?	Yes No
If no, explain:	
Does generator retain copies of manifest?	_YesNoN/A
If yes, does the manifest include the following information?	
(26.13.03.04C)	Van Na NUA
-Manifest document number?	_ i esNoN/A
number?	_YesNoN/A

·	•
-Generator's EPA I.D. number?	
-Transporter name(s) & EPA I.D. number(s)?	<u>Y</u> es_No_N/A
-Designated TSDF name, address, & EPA I.D. number?	Yes_No_N/A
-Alternate TSDF name, address, & EPA I.D. number?	Yes_No_N/A
-Instructions to return waste to generator if undeliverable?	Yes No N/A
-Description of the waste required by DOT regulations?	
-Quantity of each hazardous waste by units of weight or volume?	
-Total number & types of containers given to transporter?	
-Is the proper certification noted on each manifest?	
Has the generator signed & dated manifests (26.13.03.04E)?	
Did the generator obtain initial transporter's signature	
and date of acceptance?	Yes No N/A
Do returned copies of manifest include facility owner/	
operation signature and date of acceptance?	Yes No N/A
Have manifests been retained for three years?	
ction C - Pre-Transport Requirements (26.13.03.05) N/A	
Does generator package wastes in accordance with DOT	
requirements?	Yes No
Are containers in good condition?	Yes No
If no, explain:	/
Is the date that accumulation time began clearly marked	
and visible for inspection on each container?	
. Is period of accumulation less than 90 days?	
-If no, is amount accumulated less than 500 kg or	4/
less than 1 kg of acute hazardous waste?	Yes No N/A
-If no, explain:	<u> </u>
Is "SATELLITE ACCUMULATION" no more than 55 gallons of	•
hazardous waste or I quart of acutely hazardous waste?	Yes No N/A
i. Are containers in good condition, closed, and clearly	
marked "HAZARDOUS WASTE"?	Yes No N/A
	
Section D - Recordkeeping and Reporting (26.13.03.06)	
 Does the generator keep the following reports for three years? 	
-Manifests & signed copies from designated facilities?	
-Annual Reports?	Yes_No
-Exception Reports?	Yes_No_N/A
-Waste Analyses?	Yes_No_N/A
Section E - Special Conditions (26.13.03.07)	
1. Has the generator received from or transported to a	
foreign country any hazardous waste(s)?	Yes_\Nd
-If yes, has a notice been filed with MDE and EPA?	Yes No VA
-Is this waste manifested & signed by a foreign consignee?	Yes_No_ \/A
-If generator transported wastes out of the county	
has confirmation of delivery been received?	Yes_No_ I/A
	· - /-

Section F - General Requirements (26.13.03.05E)

Personnel Training (26.13.05.02G)	
1. Does the owner/operator maintain personnel training records?	
If yes, do they include:	*
-Job title & written job description of each position?	Yes No
-Description of type and amount of training?	
-Records of training given to facility personnel?	
records of daming groun to facility personales.	
Preparedness and Prevention (26.13.05.03)	
1. Is there evidence of fire, explosion, or contamination of the environment?	Yes 🔀
2. Is the facility equipped with:	
a) Internal communication or alarm system?	Yes No
b) Telephone or two-way radio to call emergency response	
personnel?	
c) Portable fire extinguishers, fire control equipment,	7 55
spill control equipment, & decontamination equipment?	
d) Water of adequate volume for hoses, sprinklers, or water spray system?	ves No
a in there shirtcher anne noace in abow uncontinued	,
movement of personnel and equipment in an emergency?	
4. Has the owner/operator made arrangements with the	······································
	-
characteristics of the facility?	ين» No
local authorities to familiarize them with characteristics of the facility?	7/2 =
might respond, is there a designated primary authority?	
6. If State or local authorities decline to enter into	
these arrangements, has this been documented in the	<u>.</u>
operating log?	
	/
Contingency Plan and Emergency Procedures (26.13.05.04)	%
1. Is a contingency plan maintained at the facility?	
If yes, does contingency plan include:	•
-Arrangements with local emergency response	1
organizations?	
-Emergency coordinators' names, phone numbers, and	
addresses?	Yes_No
-List of all emergency equipment at the facility and	, , , , , ,
description of equipment?	
-Evacuation plan for facility personnel	Vs_No
Is there an emergency coordinator on site or on call at	
all times?	\/:sNo
Has a copy of the contingency plan been submitted to	,
local or State agencies that may be asked to provide	/.
emergency services?	Yes_XVo
Has the plan ever been implemented?	
-If so, was the plan appropriate?	
- If the plan was <u>not</u> appropriate, has it been amended?	Yes_No_ I/A
-If the plan was implemented, was the incident recorded	
in the operating log and was a written report submitted to MDE?	Yes_No_ /A
	4

and Management of Containers (26.13.05.09)	
Are containers in good condition?	Yes_No
s container made of a material that will not react with the waste which it stores?	Yes_No_N/A
Are containers always closed when holding hazardous waste?	
Are containers handled so that they will not be opened,	7 —
handled, or stored in a manner which may rupture them or cause them to leak?	/es_No
Does owner/operator inspect containers at least weekly for leaks and deterioration?	
Do container storage areas have adequate containment systems?	
Are containers holding ignitable and reactive waste	. , —
located at least 15m (50 ft) from facility property lines?	Yes_No_N/A
Are incompatible wastes or materials placed in the same containers?	Yes_No_N/A
Are hazardous wastes placed in washed, clean	-
Are hazardous wastes placed in washed, clean containers when they previously held incompatible waste?	yes_No_N/A
). Are incompatible hazardous wastes separated from each	
other by a berm, dike, wall, or other device?	_\subsection = \sqrt{es_No_N/A}
	·1
nnual Reports (26.13.03.06B)	
Does the facility submit annual reports to MDE?	_Yes_No
If yes, do reports contain the following information?	
a) Name, address and EPA I.D. number of facility?	
b) Date and year covered by report?	. y es_No
c) Description/quantity of hazardous waste?	. yes_No
d) Description of efforts to reduce volume/toxicity	,
of waste generated, and actual comparisons with	
previous year?	_ ys_No
e) Certification signed by owner/operator?	(es_No
Section G - Other Checklists Completed: _N/A	11
section of Checkrisis CompletedIVA	
/_Tanks	
TransporterLand Disposal RestrictionsTSD Facility	
TSD Facility	
Surface Impoundment	
Waste Pile _	
Land Treatment	
Landfill	
Incinerator	
Thermal Treatment	
Groundwater Monitoring	

Section H - Additional Comments

Inspection Item	Status	WP) - Inspection Checklist Comments
Waste generation description: [Info]	Information	
Weather Description: [Info]	Information	Sunny, warm, 73 Degrees
1.Faciltiy made hazardous waste	Yes	
determination: [COMAR 26.13.03.02A ref		
3.02		
2. Does the generator use manifest (s)?	Yes	Copy of last bill of lading / manifest attached
[COMAR 26.13.03.04A (1) ref 3.04		
3. Instructions to return waste to generator if	Yes	
undeliverable is available [COMAR		
26.13.03.04A (5) ref 3.04 4. Manifest has document number [COMAR]	Yes	
26.13.03.04C (1)(a) 3.04	res	
5. Generators name, mailing address and	Yes	
telephone number is on the manifest?	103	. *
[COMAR 26.13.03.04C(1)(B) 3.04		
6. Generators EPA ID number is on manifest?	No violations	
[COMAR 26.08.04.09N, COMAR	observed	
26.13.03.04C(1)(B) 3.04		
	No violations	
in manifest? [COMAR 26.13.03.04C (1)(C)	observed	
8. Designated TSDF name, address and EPA	No violations	
ID number is on manifest (COMAR	observed	
26.13.03.04C(1)(D) 3.04	observed	
	Not	
number is on manifest? [COMAR	Applicable	
26.13.03.04C(1)(D) 3.04		
10. Descriptions of the waste required by DOT		
regulations are on the manifest? [COMAR	observed	
26.13.03.004C(1)(E)	NT 11.1	
11. Quantity of each hazardous waste by units of weight or volume is on the manifest?	No violations observed	
[COMAR 26.13.03.04C(1)(F) 3.04	observed	
12. Total number and types of containers	No violations	
given to transporter is on-manifest? [COMAR	observed	
26.13.03.04C(1)(F) 3.04		
13. Proper certification is noted on each	No violations	
manifest. Generator has the returned copies of	observed	
manifest to include facility owner/operator?		
[COMAR 26.13.03.04C(2) & [COMAR		
26.13.03.04D(2)(D) 3.04	No violations	
14. Signature and date of acceptance? [COMAR 26.13.03.04E(1)(A), 3.04	No violations observed	
15. Generator signed and dated each manifest?	1	
[COMAR 26.13.03.04E(1)(A) 3.04	observed	
10		

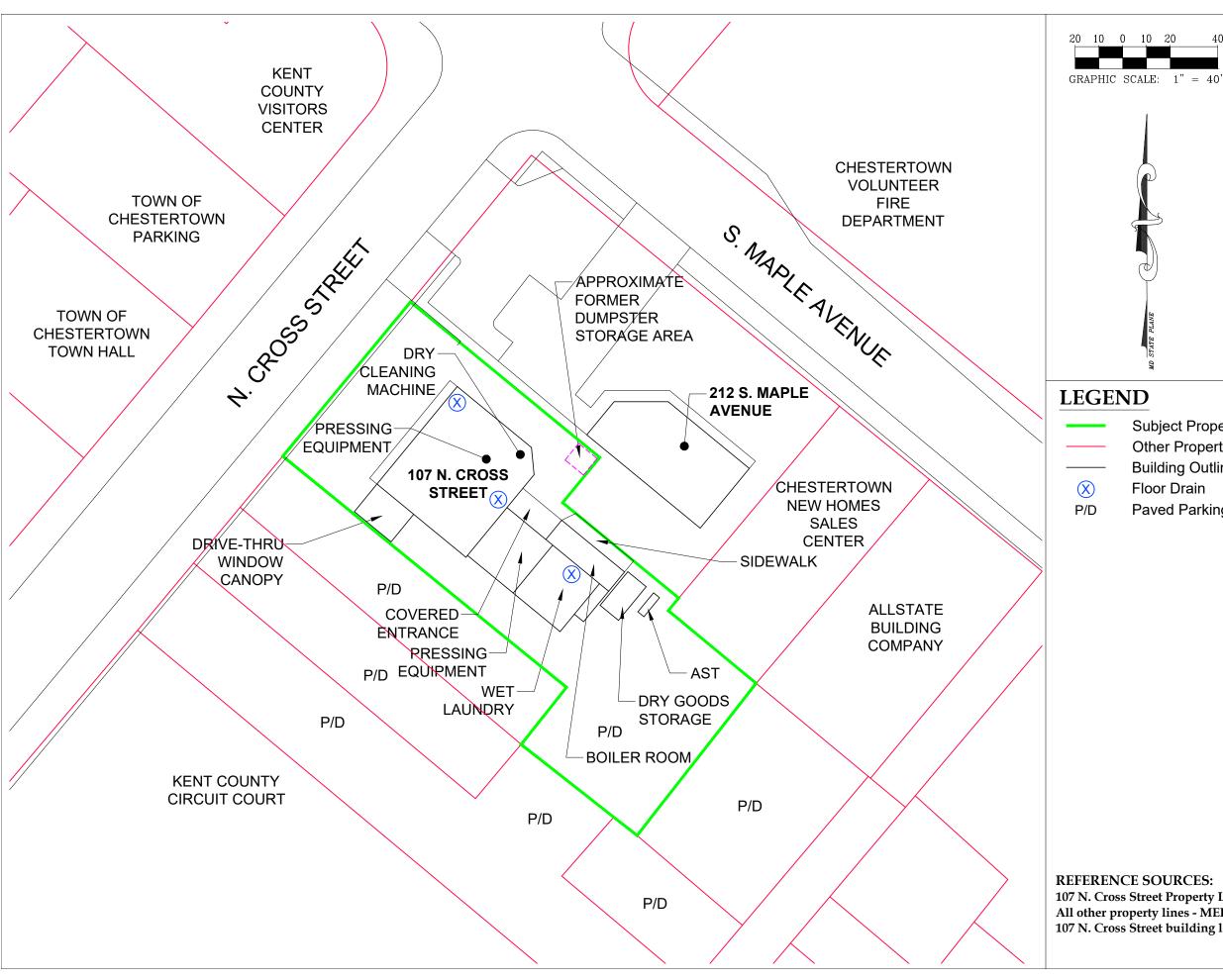
		WP) - Inspection Checklist
Inspection Item	Status	Comments
16. Generator obtained initial transporters	No violations	
signature and date of acceptance? [COMAR	observed	
26.13.03.04E(1)(B) 3.04		
17. Generator packaged the waste in	No violations	
accordance with DOT requirements under	observed	
49CFR 173,178 and 179? [COMAR		
26.13.03.05A 3.05		
18. The containers used to accumulate waste	No violations	
are in good condition? [COMAR	observed	
26.13.03.05E(1)(D) 3.05		•
19. Date that accumulation began is clearly	Out of	This was corrected as it was found. Almost immediately
marked and visible for each container?	compliance	at time of inspection.
[COMAR 26.13.03.05E(1)(D) 3.05		•
20. Generator is complying with permit	Not	
exemption for storage of waste? [COMAR	Applicable	
26.13.03.05E(2) 3.05		
21. Satellite accumulation is within maximum	No violations	
quantity limits (55 gallons of hazardous, 1	observed	
quart of acute waste? [COMAR	1	
26.13.03.05E(3) 3.05		
22. Containers used for satellite accumulation	No violations	
are closed? [COMAR 26.13.03.05E (3)(A)	observed	
3.05		
23. Containers used for satellite accumulation	No violations	
are clearly marked "HAZARDOUS	observed	
WASTE"? [COMAR 26.13.03.05E(3)(B) 3.05		,
24. Manifest has been retained for three years?	No violations	In excess of three years
[COMAR 26.13.03.06A(1) 3.06	observed	
25. Copy of biennial reports is kept on file for	No violations	-
at least three years? [COMAR	observed	
26.13.03,06A(2) 3.06		
26. Copy of exceptions is kept on file for at	No violations	
least three years? [COMAR 26.13.03.06A(2)	observed	
3.06		
27. Waste analysis reports are on file for at	No violations	As to waste derived from paint process.
least three years? [COMAR 26.13.03.06A(3)	observed	
3.06		
28. Name, address, EPA ID number are on	No violations	
biennial reports? [COMAR	observed	·
26.13.03.06B(1)(D)(i) 3.06		
29. Date and year are on biennial reports?	No violations	
[COMAR 26.13.03.06B(1)(D)(ii) 3.06	observed	
30. Description/quantity of hazardous waste is	No violations	
in biennial reports? [COMAR	observed	
26.13.03.06B(1)(D))ii)(v) 3.06		
31. Description of waste minimization efforts	No violations	
included in biennial reports? [COMAR	observed	
26.13.03.06B(1)(D)(vi) 3.06		
32. Biennial reports include the certification?	No violations	
[COMAR 26.13.03.06B(1)(d) viii 3.06	observed.	

	<u>`</u>	(WP) - Inspection Checklist
Inspection Item	Status	Comments
33. Job title and description are present in	No violations	
personnel training records? [COMAR	observed	
26.13.05.02G(4)(a-b) 5.02		
	No violations	
personnel training records? [COMAR	observed	
26.13.05.02G(4)(c) 5.02		
35. Copy of training records given to	No violations	
personnel? [COMAR 26.13.05.02G(4)(D)	observed	
5.02		
36. Personnel training records kept by	No violations	
generator for at least three years for former	observed	·
employees and on file for current employees?		
[COMAR 26.08.03.01C] 5.02		
37. Facility is designed, constructed and	No violations	
operated to minimize the possibility of a fire,	observed	
explosion, or any unplanned, sudden or non		
sudden release of hazardous waste or		
hazardous constituents to air, soil or water		
which could threaten human health or the		
environment? [COMAR 26.13.05.03B 5.03		
38. Generator has an internal communication	No violations	
or alarm system? [COMAR 26.13.05.03C(1)	observed	
5.03		
39. Generator has a telephone or two way	No violations	
radio for emergency response? [COMAR	observed ·	
26.13.05.03C(2) 5.03		
40. Generator has fire and spill control	No violations	
equipment? [COMAR 26.13.05.03C(3) 5.03	observed	
41. Generator has adequate water supply for	No violations	
emergency response? [COMAR	observed	
26.13.05.03C(4) 5.03		
42. Generator complies with required aisle	No violations	
space restrictions? [COMAR 26.13.05.03F	observed	
5.03		
43. The owner or operator shall take	No violations	
precautions to prevent accidental ignition or	observed	
reaction of ignitable or reactive waste, specify		
a designated area for smoking and open flame		
during material handling, and shall post "NO SMOKING" signs conspicuously wherever		
there is a hazard from ignitable or reactive		
waste? [COMAR 26.13.05.03G 5.03 44. Arrangements with local authorities for	No violations	
emergency procedures have been made?	observed	
[COMAR 26.13.05.03H(1)(a-c) 5.03	observed	
45. Primary local authority has been	No violations	
determined? [COMAR 26.13.05.03H(1)(b)	observed	
5.03	ODSELVEU	·
46. Local authority entrance refusals	No violations	
documented? [COMAR 26.13.05.03H(2) 5.03	observed	
47. Generator maintains a contingency plan?	No violations	
[COMAR 26.13.05.04A 5.04	observed	
[[CONAN 20.13.03.04A 3.04	lonsei ven	

		IWP) - Inspection Checklist
Inspection Item	Status	Comments
	No violations	
with local authorities for emergency	observed	
procedures? [COMAR 26.13.05.04C(3) 5.04		
49. Contingency plan contains emergency	No violations	
coordinator names, phone numbers and	observed	·
addresses? [COMAR 26.13.05.04C(4) 5.04		
50. Contingency plan contains listing and	No violations	
description of emergency equipment?	observed	
[COMAR 26.13.05.04C(5) 5.04	00001100	
51. Contingency plan contains evacuation	No violations	
plan? [COMAR 26.13.05.04C(6) 5.04	observed	
52. Copy of contingency plan sent to local or	No violations	
state agencies? [COMAR 26.13.05.04D(2)	observed	
5.04	00001104	
53. Implementation of the contingency plan	No violations	
had failed in emergency and subsequently	observed	
amended? [COMAR 26.13.05.04E(2) 5.04	observed	
54. Emergency coordinator is onsite or on	No violations	
call? [COMAR 26.13.05.04F 5.04	observed	
	No violations	
in facility log and the department notified that		
the plan was implemented? [COMAR	obsci ved	
26.13.05.04G(4, 10) 5.04		
	NT - 1 - 1 - 1	
56. The containers are in good condition? [COMAR 26.13.05.09B 5.09	No violations observed	
57. Container and waste are compatible?	No violations	· · · · · · · · · · · · · · · · · · ·
[COMAR 26.13.05.09C 5.09	observed	
58. Containers are closed? [COMAR	N o violations	
26.13.05.09D 5.09	observed	
59. Containers managed properly to prevent	No violations	
rupture and releases? [COMAR 26.13.05.09D	observed	
5.09	observed	
	NT ' 1 .'	
60. Containers are inspected regularly?	No violations observed	
[COMAR 26.13.05.09E 5.09		
61. Containers holding ignitable and reactive	No violations	
waste are located at least 15m (50ft) from	observed	
property line? [COMAR 26.13.05.09F 5.09		
62. Incompatible waste and materials are not	No violations	
placed in the same containers? [COMAR	observed	
26.13.05.09G(1) 5.09	N7:- 4	
63. Waste is placed in clean and washed	Not	
containers? [COMAR 26.13.05.09G(2) 5.09	Applicable	
64. Containers containing incompatible waste	No violations	
are separated? [COMAR 26.13.05.09G(3)	observed	
5.09	NI- minimize	
65. There is an adequate containment system	No violations	
in place? [COMAR 26.13.05.09H 5.09	observed	
66. Is the facility in compliance with conditions of the Code of Maryland	Yes	
	1	
Hazardous Waste Regulations? [COMAR 26.13.05.09G 5.09		
20.13.03.030 3.03	1	

67. Are corrective actions required with follow up inspections? [COMAR 26.08.0301 5.09	Yes	
Inspector:		Received by:

Richard A. Vandegrift ECS III Hazardous Waste Program Maryland Department of the Environment





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FIGURE 2

SITE MAP

Former Park Rug and Dry Cleaners **107 North Cross Street** Chestertown, MD 21620

Job #: CG-15-1060.04	Date:	12/04/2017
Drawn By: M. Walsh	Scale:	1" = 40'
Project Manager:	N. Love	

LEGEND

Subject Property Line

Other Property Line **Building Outline**

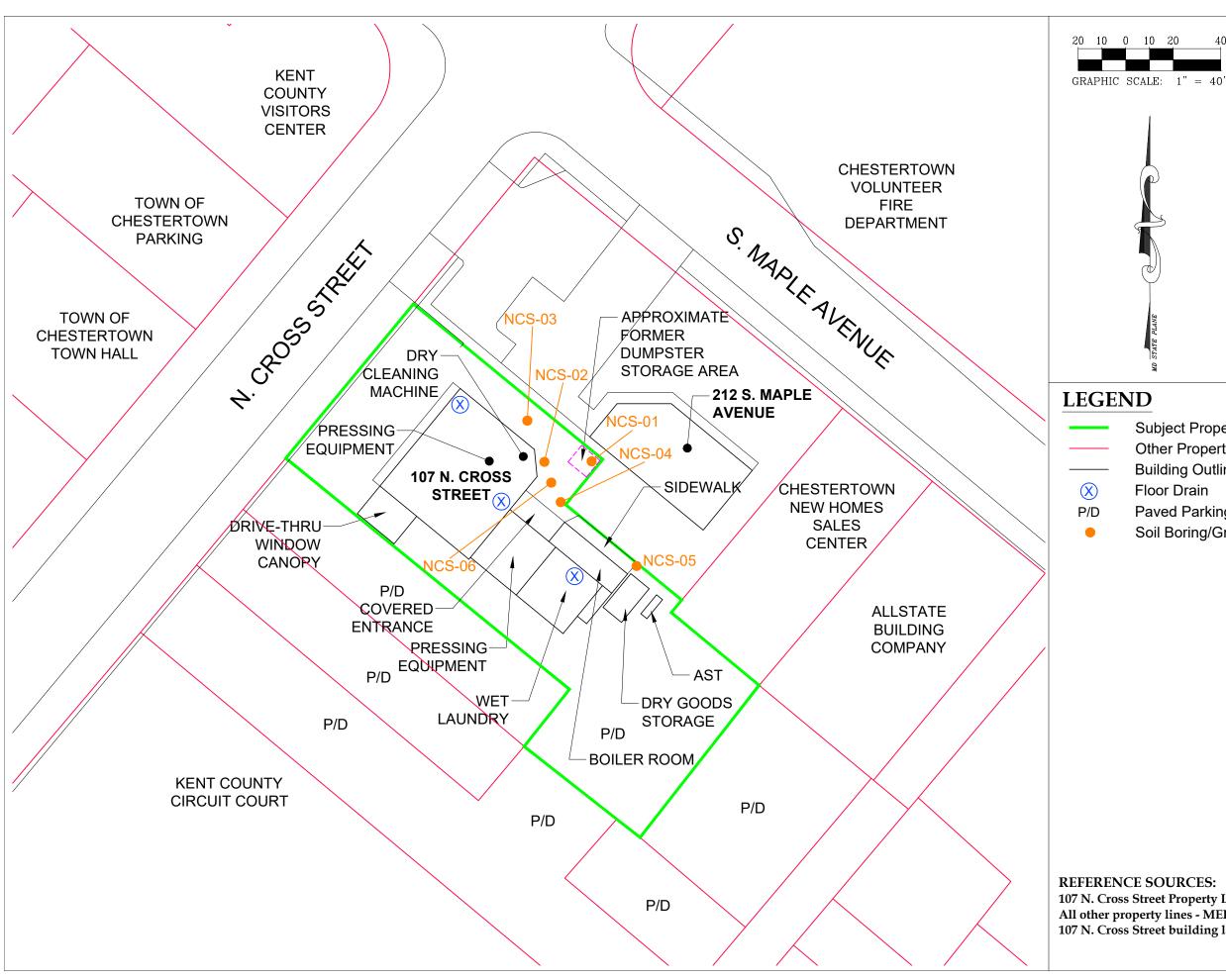
Floor Drain

X P/D Paved Parking/Driveway

REFERENCE SOURCES:

107 N. Cross Street Property Line - Environmental Covenant Exhibit A, 11/05/2008. All other property lines - MERLIN.

107 N. Cross Street building layout - BlueRidge, 08/16/2006.





5405 Twin Knolls Road, Suite 1 Columbia, Maryland 21045

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Soil Boring Location Map

Former Park Rug and Dry Cleaners **107 North Cross Street** Chestertown, MD 21620

Job #: CG-15-1060.04	Date:	12/04/2017
Drawn By: M. Walsh	Scale:	1" = 40'
Project Manager:	N Love	

LEGEND

P/D

Subject Property Line

Other Property Line **Building Outline**

X Floor Drain

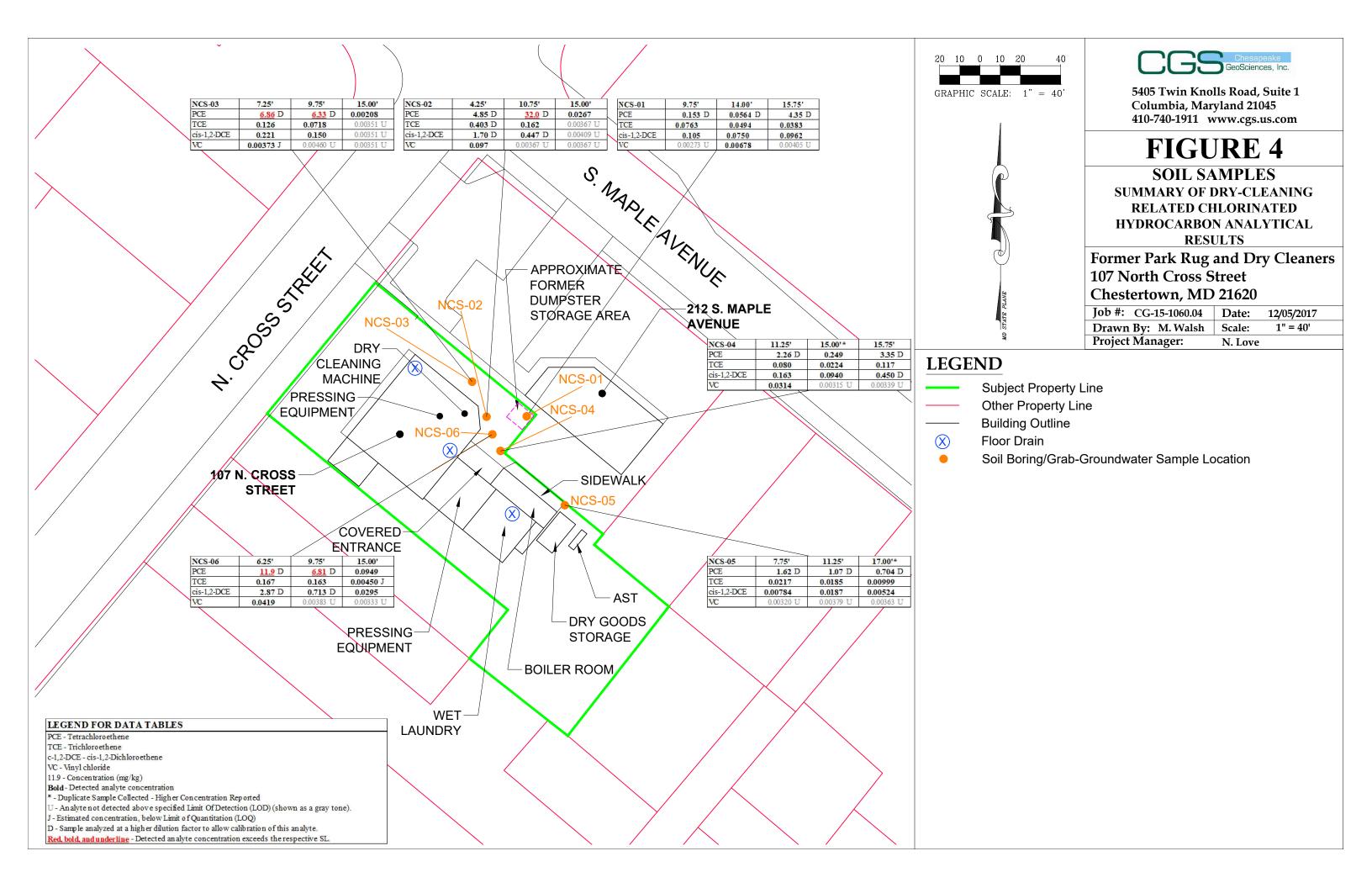
Paved Parking/Driveway

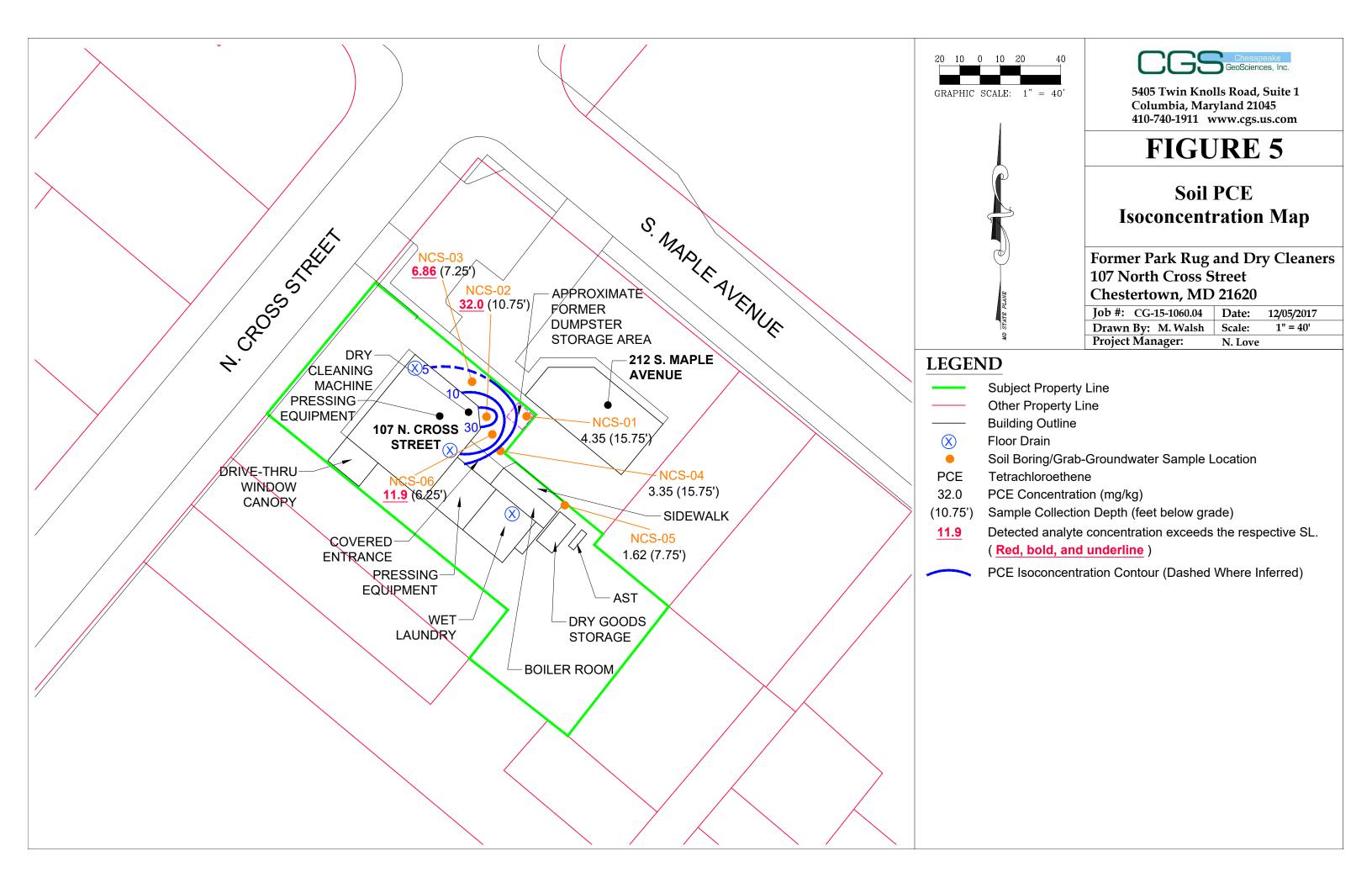
Soil Boring/Grab-Groundwater Sample Location

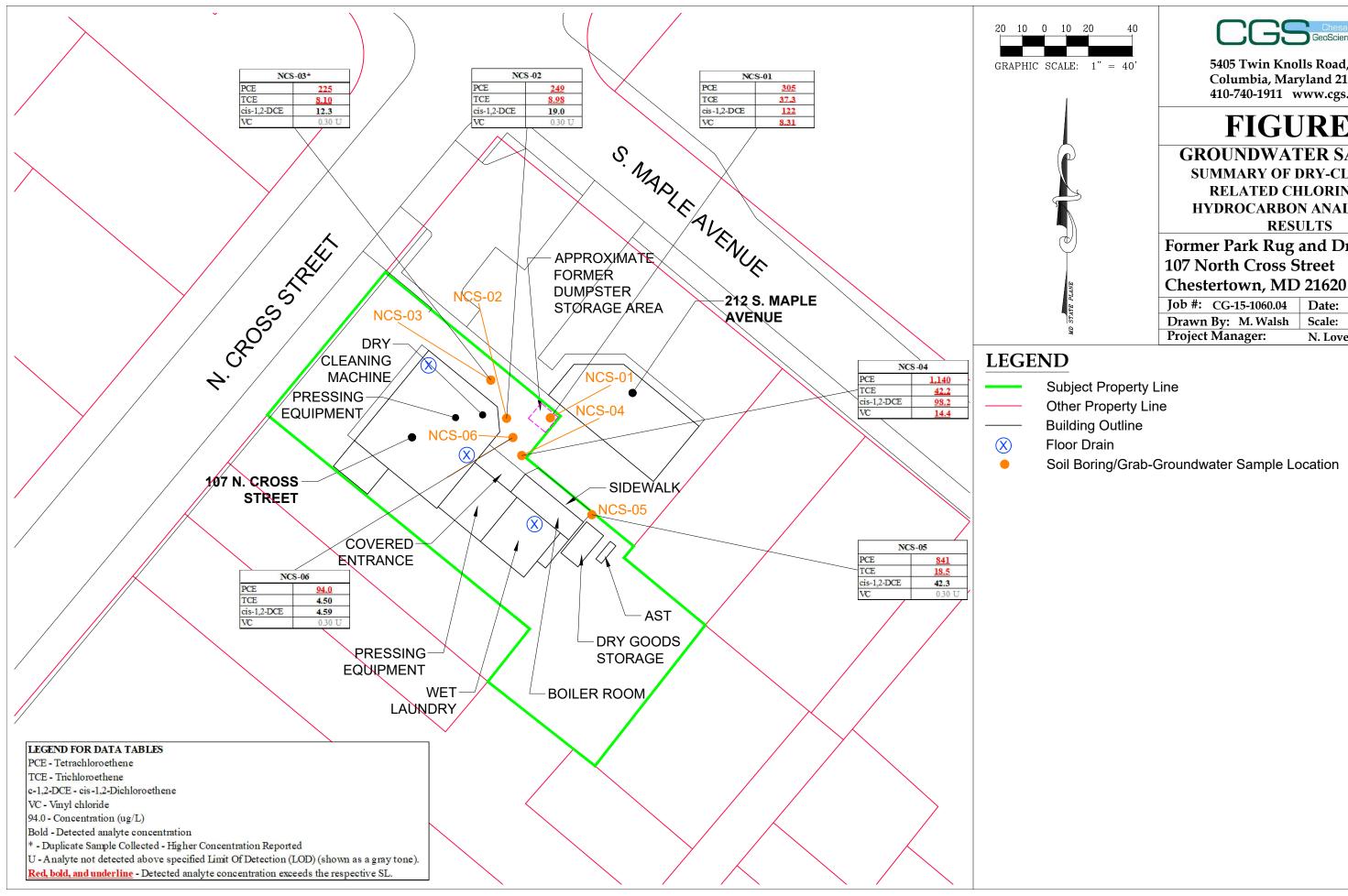
REFERENCE SOURCES:

107 N. Cross Street Property Line - Environmental Covenant Exhibit A, 11/05/2008. All other property lines - MERLIN.

107 N. Cross Street building layout - BlueRidge, 08/16/2006.









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FIGURE 6

GROUNDWATER SAMPLES SUMMARY OF DRY-CLEANING RELATED CHLORINATED HYDROCARBON ANALYTICAL

Former Park Rug and Dry Cleaners

Job #: CG-15-1060.04	Date:	12/05/2017
Drawn By: M. Walsh	Scale:	1" = 40'
Project Manager:	N. Love	

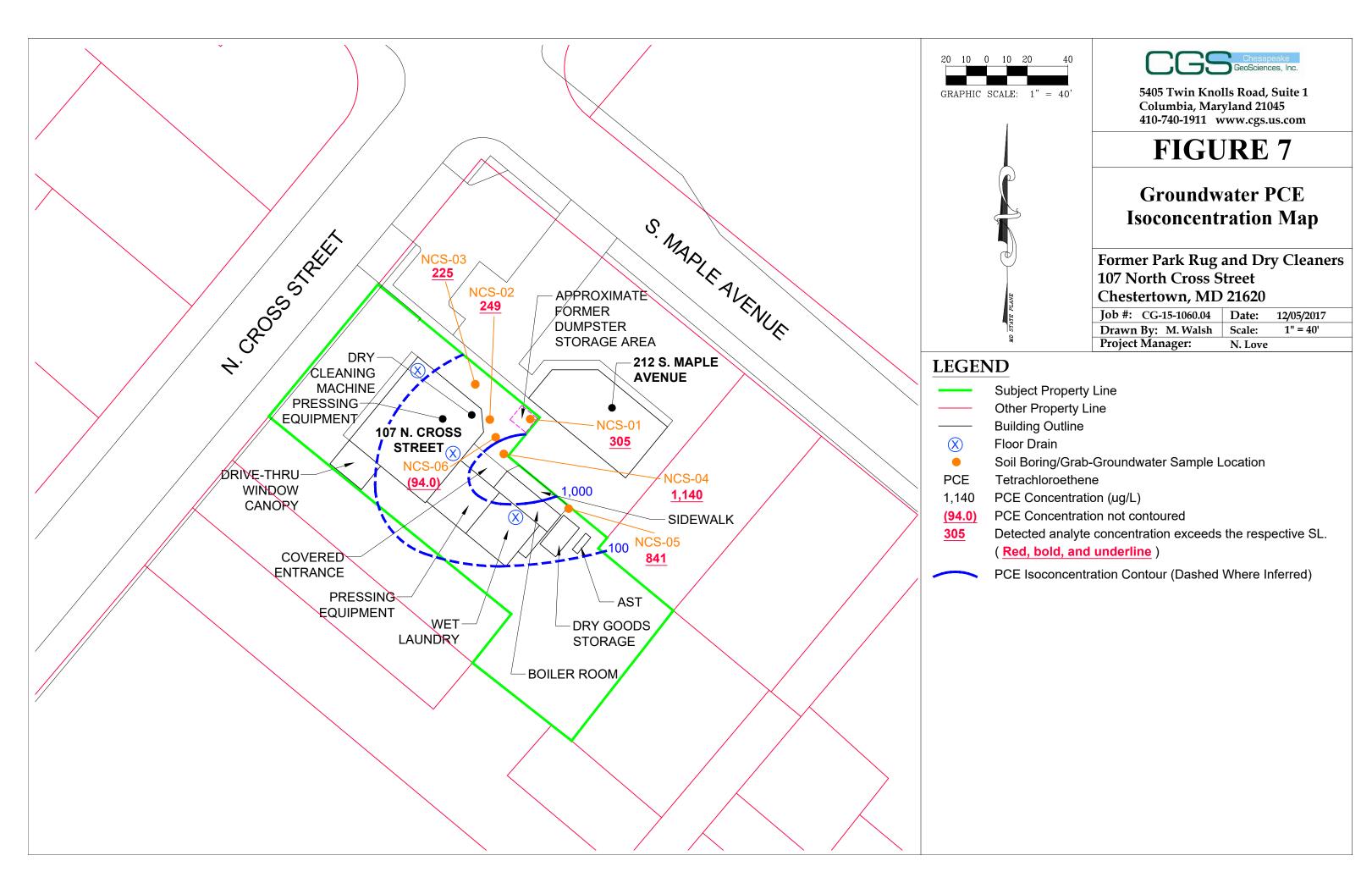


Table 1 Former Park Rug & Dry Cleaners, 107 N. Cross Street, Chestertown, Maryland Limited On-Site Subsurface Investigation

Photoionization Detector (PID) Readings in Macrocore Soil Sample Cores November 1, 2017

	Soil Boring / Temporary Well ID						
Depth (Feet BG)	NCS-01	NCS-02	NCS-03	NCS-04	NCS-05	NCS-06	
(Feet BG)	PID Readings (ppm) (white) and Brief Lithological Notes (grey)						
0.00	Asphalt	Asphalt	Asphalt	Asphalt	Soil/Asphalt Mixture	Asphalt	
0.25	0.5	0.0	40.6	53.6	0.0	0.3	
0.75	2.0	0.0	31.0	156.2	0.0	3.5	
1.00	Residual Asphalt	Gravel	Fill	Fill	Fill	Fill	
1.25	10.1	0.7	6.7	28.9	0.0	26.2	
1.75	7.3	3.6	12.0	4.7	0.0	2.6	
2.00	Fill	Wood & Clayey Silt	Wood	Fill	Fill	Fill	
2.25	0.8	10.1	2.0	2.4	0.0	7.5	
2.75	0.5	47.1	15.9	1.4	0.0	5.0	
3.00	Sand/Silt	Clayey Silt	Clayey Silt	Clayey Silt	Clayey Sand	Brick Fill	
3.25	1.2	66.4	43.8	3.2	0.0	9.9	
3.75	2.4	42.9	31.9	3.9	0.2	15.9	
4.00	Silt; Perched GW 4-4.5 ft	Clayey Silt	Clayey Silt	Clayey Silt	Silty Clay	Clayey Silt	
4.25	0.7	268.6	21.4	0.6	0.3	12.5	
4.75	0.7	81.3	14.8	3.1	0.7	13.2	
5.00	Silty Clay	Clayey Silt	Clayey Silt	Clayey Silt	Silty Clay	Silty Clay	
5.25	2.8	19.3	43.5	3.5	0.4	45.7	
5.75	2.7	54.7	12.9	4.0	0.9	51.4	
6.00	Silty Clay	Clayey Silt	Clayey Silt	Clayey Silt	Silty Clay	Silty Clay	
6.25	2.1	41.2	56.2	5.0	0.3	198.3	
6.75	1.3	119.3	31.8	9.2	2.2	122.4	
7.00	Silty Clay	Clayey Silt	Clayey Silt	Clayey Silt	Silty Clay	Silty Clay	
7.25	4.0	81.6	157.6	5.2	3.2	87.3	
7.75	13.2	229.5	37.1	8.5	5.8	16.1	
8.00	Silty Clay	Clayey Silt	Clayey Silt	Clayey Silt	Silty Clay	Silty Clay	
8.25	2.3	65.2	5.0	0.3	0.1	4.7	
8.75	1.2	95.1	15.2	2.1	0.2	18.6	
9.00	Perched GW 8- 10 ft	Clayey Silt	Clayey Silt	Clayey Silt & Wood	Silty Clay	Silty Clay	
9.25	0.4	93.6	46.3	2.2	0.1	13.1	
9.75	0.5	60.5	65.2	0.8	2.3	104.6	

Table 1 Former Park Rug & Dry Cleaners, 107 N. Cross Street, Chestertown, Maryland Limited On-Site Subsurface Investigation

Photoionization Detector (PID) Readings in Macrocore Soil Sample Cores November 1, 2017

	Soil Boring / Temporary Well ID					
Depth (Feet BG)	NCS-01	NCS-02	NCS-03	NCS-04	NCS-05	NCS-06
(Feet BG)	PID Readings (ppm) (white) and Brief Lithological Notes (grey)					
10.00	Clayey Silt	Clayey Silt	Clayey Silt	Clayey Silt & Wood	Silty Clay	Silty Clay
10.25	11.6	115.7	28.8	1.0	6.6	9.7
10.75	10.3	2,761	52.6	0.8	4.3	57.2
11.00	Sand	Sand	Sand	Sand & Wood	Silty Clay	Sand
11.25	92.7	100.1	54.1	10.2	24.0	42.8
11.75	84.5	45.7	24.2	3.8	8.8	15.7
12.00	Sand	Sand	Sand	Sand	Sand	Sand
12.25	4.4	43.1	24.9	7.6	0.7	45.1
12.75	1.5	27.3	37.6	5.2	1.0	30.3
13.00	Clayey Silt	Silt	Clayey Silt	Clayey Silt	Clayey Silt	Silty Clay
13.25	5.2	24.5	38.0	1.1	0.7	45.5
13.75	5.6	8.7	9.5	0.7	1.3	29.1
14.00	Clayey Silt	Sand	Clayey Silt	Clayey Silt	Sand	Sand
14.25	2.4	6.6	25.7	2.7	0.1	17.1
14.75	8.2	155.2	4.2	12.0	0.8	88.6
15.00	Sand	Sand	Sand	Sand	Sand	Sand
15.25	9.6	63.9	12.9	37.9	3.8	106.4
15.75	159.2	28.7	12.5	137.8	0.5	63.1
16.00	Sand	Sand	Sand	Sand	Sand	Sand
16.25	6.1	94.5	7.0	16.2	1.5	7.7
16.75	48.9	46.2	23.5	4.9	1.5	19.5
17.00	Sand	Sand	Sand	Sand	Sand	Clayey Sand
17.25	24.3	22.5	28.8	11.4	3.8	17.4
17.75	24.8	74.7	27.1	7.6	3.5	86.7
18.00	Sand	Sand	Sand	Sand	Silty Clay	Clayey Sand
18.25	3.0	34.9	27.5	12.8	1.0	16.7
18.75	2.7	26.4	11.6	16.7	0.3	1.8
19.00	Sand	Sand	Sand	Sand	Sand	Sand-Silt Mixture
19.25	1.8	5.8	4.7	34.0	5.1	1.0
19.75	0.5	1.8	0.3	11.1	9.3	1.0
20.00	Sand	Sand	Sand	Sand	Sand	Sand-Silt Mixture

Table 1 Former Park Rug & Dry Cleaners, 107 N. Cross Street, Chestertown, Maryland Limited On-Site Subsurface Investigation

Photoionization Detector (PID) Readings in Macrocore Soil Sample Cores November 1, 2017

Devide (Fred			Soil Boring / Ter	nporary Well ID		
Depth (Feet BG)	NCS-01	NCS-02	NCS-03	NCS-04	NCS-05	NCS-06
D (3)		R	ationale for Selec	ted Sample Dept	hs	
Shallow	9.75': Above Higher PID Readings	4.25': 2nd Highest PID Reading	7.25': Highest PID Reading	11.25': 2nd Highest PID Reading	7.75': PID Response at Mid- Depth	6.25': Highest PID Reading
Middle	14': Interval Above GW	10.75': Highest PID Reading	9.75': 2nd Highest PID Reading	15': Interval Above GW	11.25': Highest PID Reading	9.75': PID Response at Mid- Depth
Deep	15.75': Highest PID Reading	15': Interval Above GW	15': Interval Above GW	15.75': Highest PID Reading	17': Interval Above GW	15': Interval Above GW
Grab-GW Sample Type	1" PVC Well	Stainless Steel Screened Sampler	Stainless Steel Screened Sampler	Stainless Steel Screened Sampler	Stainless Steel Screened Sampler	Stainless Steel Screened Sampler
		Soil Boring / GV	V Sample Summ	ary Information		
			Feet Below	Grade (BG)		
Soil Boring Depth	21.0	20.0	20.0	20.0	22.0	20.0
Screened Interval Depth	11-21	16-20	16-20	16-20	18-22	16-20
Depth GW Encountered	15.5	16	16	16	18	16

Table Notes:

Lithologic Observation
 Soil Sample Collected Based on PID Reading
 Soil Sample Collected Based on Depth that
 Groundwater was Encountered

BG - Below Grade NCS - North Cross Street PID - Photoionization Detector ppm - Parts per Million

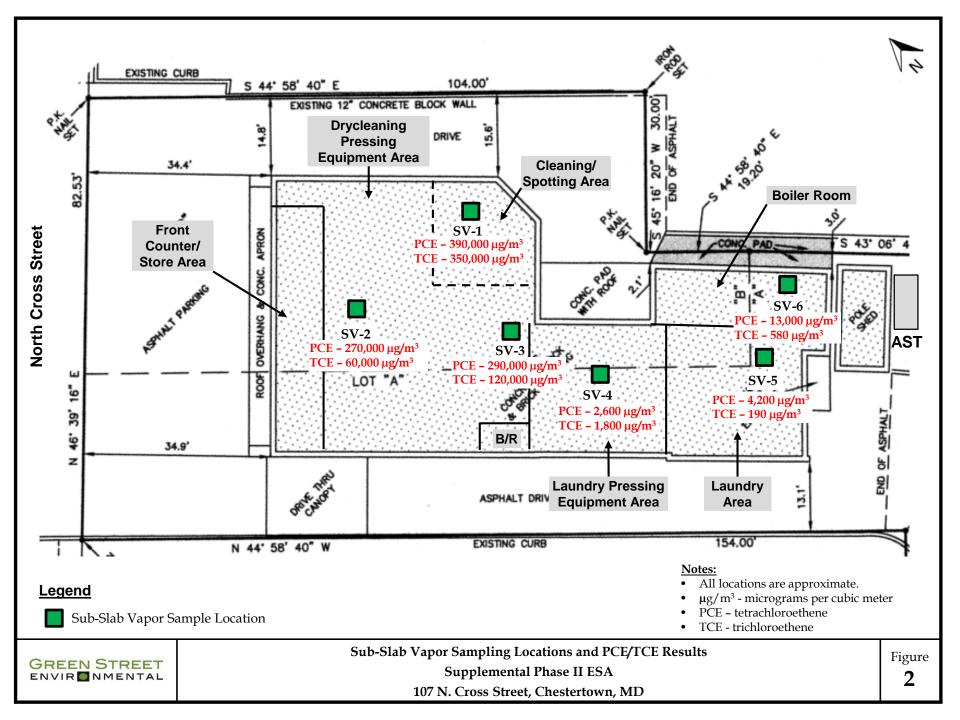


Table 1 - Analytes Detected in Sub-Slab Vapor Samples Supplemental Phase II ESA 107 North Cross Street Chestertown, Maryland

	May 2018	SV-1	SV-2	SV-3	SV-4	SV-5	SV-6	Maximum Site Concentration		ercial Target or Values
Analyte	EPA RSL							(μg/m³)	Tier 1 (2018)	Tier 2 (2018)
1,1-Dichloroethene	880	8,200	<2,000	<2,000	<20	<2.0	<2.0	8,200	88,000	440,000
2-Butanone (MEK)	22,000	<3,700	<3,700	<3,700	<37	40	7.3	40	2,200,000	11,000,000
Acetone	140,000	<24,000	<24,000	<24,000	<240	270	<24	270	14,000,000	70,000,000
Benzene	130	<800	<800	<800	<8.0	5.7	3.3	5.7	13,000	65,000
Carbon Disulfide	3,100	<31,000	<31,000	<31,000	<310	43	<31	43	310,000	1,550,000
Chloroform	430	<2,400	<2,400	<2,400	<24	5.5	220	5.5	43,000	215,000
Cyclohexane	26,000	<1,700	<1,700	<1,700	<17	8.2	<1.7	8.2	2,600,000	13,000,000
Propylene	13,000	<4,300	<4,300	<4,300	56	140	23	140	1,300,000	6,500,000
Tetrachloroethene	180	390,000	270,000	290,000	2,600	4,200	13,000	390,000	18,000	90,000
Toluene	22,000	<940	1,400	<940	36	4.7	4.3	1,400	2,200,000	11,000,000
Trichloroethene	8.8	350,000	60,000	120,000	1,800	190	580	350,000	880	4,400
Trichlorofluoromethane		<2,800	<2,800	<2,800	<28	7.4	<2.8	7.4		
Vinyl chloride	440	26,000	<1,300	<1,300	31	330	<1.3	26,000	44,000	220,000
cis-1,2-Dichloroethene		1,500,000	210,000	510,000	330	1,500	110	1,500,000		
m&p-Xylene	440	<2,200	<2,200	<2,200	<22	<2.2	2.7	2.7	44,000	220,000
o-Xylene	440	<1,100	<1,100	<1,100	<11	<1.1	1.2	1.2	44,000	220,000
trans-1,2-Dichloroethene		64,000	6,800	13,000	<20	58	2.7	64,000		

Notes:

- 1. Only detected analytes are presented in the table.
- 2. Samples were collected on August 28 and 29, 2018.
- 3. Bolded results indicate the analyte was detected in the sample
- 4. All values have units of micrograms per cubic meter.
- 5. -- indicates no screening level is available for the analyte.
- 6. EPA Regional Screening Levels (RSLs) are from the May 2018 RSL table for commercial air.
- 7. 2018 Tier 1 and Tier 2 commercial target soil vapor values were calculated using 100x and 500x the EPA RSL (per MDE guidance), respectively.

	Legend
40	Analyte detected
1,800	Exceeds Tier 1
60,000	Exceeds Tier 2



Facility Summary for Facility ID #11148

Owner Name and Address: Alan Carroll Owner Type: Commercial

107 N. Cross Street Chestertown, MD 21620

David Carroll (410) 778-3181

Facility ID	County	Location Name	Location Street Address	Location City	Zip
11148	Kent	Park Rug & Dry Cleaners Corp.	107 N. Cross Street	Chestertown	21620

Tank ID	Date Installed	Product	Tank Mat'l of Contruction	Piping Material	Primary - Tank Release Detection	СР	RD	FR
Status	Age (yr)	Total Capacity	Secondary Option	Secondary Option	Primary - Piping Release Detection	Over	Spill	
Closure Status	Closure Date	Compartment		Piping Type	Sec - Interstitial Monitoring Tank/Piping	Mnfd	EG	В/НО
1	1/1/1964	Heating Oil	Asphalt Coated or Bare Steel	Bare or Galvanized Steel	R	No	No	Yes
Permanently Out of Use	57	1,000	None	None	R	No	No	
Tank closed in place	6/13/1991			Not Listed	No/No	No	No	No

Total Tanks: 1

Tank/Piping Release Detection Codes

Α	Manual Tank Gauging	В	Tank Tightness Testing	С	Inventory Control	D	ATG/Auto Line LD	E	ATG 0.2 GPH Test	F	Safe Suction
G	Gravity Feed	Н	Elect ALLD Testing 0.2 GPH	ı	Line Tightness Annual	7	Line Tightness Every 2 Yrs.	K	Vapor monitoring	L	Groundwater monitoring
M	Inventory SIR	N	Interstit. Dbl-wall Monitor	0	Interstit. Sec. Con. Monitor	Р	Other method	Q	Deferred	R	Not listed
N/A	Heating Oil/Emergency Generator		-						-		

Tank/Piping Codes

СР	Corrosion Protection Met	Over	Overfill Protected	Mnfd	Manifold	FR	Financial Responsibility Met
RD	Release Detection Met	Spill	Spill Protected	EG	Emergency Power Generation	В/НО	Bulk Heating Oil

Report Generation Date: 5/12/2021

Page 1 of 1



Appendix B

August 2019 Supplemental Sampling Data

TABLE 1 MDE Screening Results for Sub-Slab and Soil Gas Sampling

107 N. Cross Street Site Chestertown, Maryland

Sample ID Sampling Date Sample Depth/Height Units Matrix	Maryland Department of Environment Commercial Target Soil Vapor Values Tier 1 μg/m³	Maryland Department of Environment Commercial Target Soil Vapor Values Tier 2 μg/m³	SS-1 8/22/2019 Sub Slab µg/m³	SS-2 8/22/2019 Sub Slab µg/m³	SS-3 8/22/2019 Sub Slab µg/m³	SS-4 8/22/2019 Sub Slab µg/m³	SS-5 8/22/2019 Sub Slab µg/m³	SS-6 8/22/2019 Sub Slab µg/m³	SS-7 8/22/2019 Sub Slab µg/m³	SS-8 8/22/2019 Sub Slab µg/m³	SS-9 8/22/2019 Sub Slab µg/m³
Analyte	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Benzene	1,600	8,000	216	-	-	75	-	-	-	-	-
1,1-Dichloroethene	44,000	220,000	-	2,171	4,040	-	-	-	-	-	-
cis-1,2-Dichloroethene	nca	nca	-	545,226	598,187	479	4,113	837	554	81,836	1,085
trans-1,2-Dichloroethene	27,000	135,000	-	29,421	28,433	-	135	61	537	1,961	-
4-Isopropyltoluene	nca	nca	-	-		-	-	-	-	-	-
Tetrachloroethene	18,000	90,000	252	556,598	1,010,864	4,987	-	4,409	6,423	51,039	10,012
Toluene	2,200,000	11,000,000	447	-	-	-	-	-	-	-	-
Trichloroethene	880	4,400	-	343,204	330,707	787	4,531	928	1,024	34,845	1,355
No other compounds reported by	by MDE.										
	PID Reading		-	-	-	-	-	-	-	-	-

Notes:

bgs - below ground surface.

Bold - Concentration exceeds the Maryland Department of Environment Commercial Target Soil Vapor Values Tier 2.

Shaded - Concentration exceeds the Maryland Department of Environment Commercial Target Soil Vapor Values Tier 1.

nca - No criteria available.

MDE - Maryland Depatment of the Environment.

-- - Data not reported by MDE.

MDE - Maryland Department of the Environment.

PID - Photoionization Detector.

This table was generated using EPA Method TO-17 screening data provided by MDE.

TABLE 1 MDE Screening Results for Sub-Slab and Soil Gas Sampling 107 N. Cross Street Site Chestertown, Maryland

Sample ID Sampling Date Sample Depth/Height Units Matrix Analyte	Maryland Department of Environment Commercial Target Soil Vapor Values Tier 1 µg/m³ Soil Gas	Maryland Department of Environment Commercial Target Soil Vapor Values Tier 2 μg/m³ Soil Gas	CS-SG01-G001 8/22/2019 3 ft bgs µg/m³ Soil Gas	CS-SG02-G001 8/22/2019 6 ft bgs µg/m³ Soil Gas	CS-SG03-G001 8/22/2019 6 ft bgs µg/m³ Soil Gas	CS-SG04-G001 8/22/2019 6 ft bgs µg/m³ Soil Gas	CS-SG05-G001 8/22/2019 6 ft bgs µg/m³ Soil Gas	CS-SG06-G001 8/22/2019 6 ft bgs µg/m³ Soil Gas	CS-SG07-G001 8/22/2019 6 ft bgs µg/m³ Soil Gas	CS-SG08-G001 8/22/2019 6 ft bgs µg/m³ Soil Gas	CS-SG09-G001 8/22/2019 6 ft bgs µg/m³ Soil Gas
Benzene	1,600	8,000	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	44,000	220,000	-	-	-	-	-	-	=	-	-
cis-1,2-Dichloroethene	nca	nca	-	-	-	-	-	-	8,942	-	-
trans-1,2-Dichloroethene	27,000	135,000	-	-	-	-	-	-	537	-	-
4-Isopropyltoluene	nca	nca	-	-	-	-	-	-	-	1,690	-
Tetrachloroethene	18,000	90,000	300	902	1,741	2,114	23,521	109,906	127,112	28,158	176
Toluene	2,200,000	11,000,000	-	-	-	-	-	-	-	-	-
Trichloroethene	880	4,400	-	257	269	193	1,241	1,461	20,813	297	-
No other compounds reported by	y MDE.	_		•			•		•		
	PID Reading		78.5	26.2	103	71.8	32.5	92.7	108.7	201.3	11.3

Notes:

bgs - below ground surface.

Bold - Concentration exceeds the Maryland Department of Environment Commercial Target Soil Vapor

Shaded - Concentration exceeds the Maryland Department of Environment Commercial Target Soil Vap

nca - No criteria available.

MDE - Maryland Department of the Environment.

-- - Data not reported by MDE.

MDE - Maryland Department of the Environment.

PID - Photoionization Detector.

This table was generated using EPA Method TO-17 screening data provided by MDE.

TABLE 2 Eurofins Analytical Results for Soil Gas 107 N. Cross Street Site Chestertown, Maryland

Sample ID Sampling Date Sample Depth Dilution Factor Units Matrix Analyte	Maryland Department of Environment Commercial Target Soil Vapor Values Tier 1 µg/m³ Soil Gas	Maryland Department of Environment Commercial Target Soil Vapor Values Tier 2 µg/m³ Soil Gas	8/22/2019 6 ft bgs 200 µg/m³ Soil Gas	01	CS-SG06-G0 8/22/2019 6 ft bgs 500 μg/m ³ Soil Gas	01	CS-SG07-G00 8/22/2019 6 ft bgs 500 μg/m³ Soil Gas	01	8/22/2019 6 ft bgs 200 µg/m³ Soil Gas	01	8/22/2019 6 ft bgs 200 µg/m³ Soil Gas)1
Cumene	180,000	900,000	770	J	1,200	J	770	J	5,200		4,600	
cis-1,2-Dichloroethene	nca	nca	6,600		N.D.		6,600		N.D.		N.D.	
trans-1,2-Dichloroethene	27,000	135,000	330	J	N.D.		330	J	N.D.		N.D.	
Hexachloroethane	nca	nca	N.D.		N.D.		N.D.		N.D.		1,200	J
Isooctane	nca	nca	N.D.		N.D.		N.D.		N.D.		360	J
Octane	nca	nca	N.D.		N.D.		N.D.		N.D.		390	J
Tetrachloroethene	18,000	90,000	94,000		100,000		94,000		17,000		16,000	
Trichloroethene	880	4,400	16,000		1,200	J	16,000		N.D.		N.D.	

Notes:

Shaded - Concentration exceeds the Maryland Department of Environment Commercial Target Soil Vapor Values Tier 1.

Bold - Concentration exceeds the Maryland Department of Environment Commercial Target Soil Vapor Values Tier 2.

bgs - below ground surface.

nca - No criteria available.

J - Result is less than the RL but greater than or equal to the MDL and concentration is an approximate value.

N.D. - Analyte was not detected above method detection limit



Appendix C

SSDS Inspection Sheet

107 N Cross Street Chestertown, MD System Check Sheet

ss		
ss		
SS		
33	DS SYSTEM	
Status	Arrival	Departure
circle one)	ON / OFF	ON / OFF
	,	3.1, 3.1
% Onon	Flow	Vacuum
70 Ореп	110₩	Vacuum
_		
Additio	onal Data	Reading
Run Time (hours)		
Manual Valve Percentaç	ge Open	
Knock Out Tank Water I	Level Check	
Samp	ole Data	
lected in order below fro	om least contaminated to n	nost contaminated.
2nd Carbon Effluent PID	D: ppm	Time:
2nd Carbon Effluent Lab		Time:
1st Carbon Effluent PID:	: ppm	Time:
1st Carbon Effluent Lab		Time:
1st Carbon Influent PID:	: ppm	Time:
1st Carbon Influent Lab	Sample (if collected)	Time:
	Run Time (hours) Manual Valve Percentae Knock Out Tank Water Samp Mected in order below from 2nd Carbon Effluent PID 2nd Carbon Effluent PID 1st Carbon Effluent Lab 1st Carbon Influent PID	Additional Data Run Time (hours) Manual Valve Percentage Open Knock Out Tank Water Level Check Sample Data Ilected in order below from least contaminated to m 2nd Carbon Effluent PID: ppm 2nd Carbon Effluent Lab Sample (if collected) 1st Carbon Effluent Lab Sample (if collected)



Appendix D

Cap Inspection Sheet

Cap Inspection Sheet 107 N. Cross Street Chestertown, MD

A. Paved Areas				
Asphalt Condition	G	nod	Fair	Poor
Cracks in asphalt greater than 0.25 inch will				
3. Potholes?				
4. Deterioration, cracking, lifting, settlement,			_110	_
or any abnormal conditions?	V	26	No	
Describe maintenance needed				
Comments				
D. Hardacaning (Brick/Mallausus)				
B. Hardscaping (Brick/Walkways)	0	aad	Foir	Door
1. Hardscape Condition				
2. Cracks in brick or concrete?				
3. Loose or missing bricks?	Y 6	2 8	_INU	_
4. Deterioration, cracking, lifting, settlement,	V		Ma	
or any abnormal conditions?				
Describe maintenance needed				
Comments				
Inspection Performed By:				
Print:	Signature:			
Print:	Signature:			
	Signature:			
Print: D. Describe Maintenance Completed:	Signature:			
	Signature:			
D. Describe Maintenance Completed:	Signature:			
D. Describe Maintenance Completed:	Signature:			
D. Describe Maintenance Completed:	Signature:			
D. Describe Maintenance Completed:	Signature:			



Appendix E

Compliance Certifications

STATEMENT OF RESPONSE ACTION PLAN COMPLIANCE

If the Response Action Plan is approved by the Maryland Department of the Environment, 107 N. Cross Street, LLC agrees, subject to the withdrawal provisions of Section 7-512 of the Environment Article, to comply with the provisions of the Response Action Plan. 107 N. Cross Street, LLC understands that if it fails to implement and complete the requirements of the approved plan and schedule, the Maryland Department of the Environment may reach an agreement with 107 N. Cross Street, LLC to revise the schedule of completion in the approved Response Action Plan or, if an agreement cannot be reached, the Department may withdraw approval of the plan.

Signed:	Date:
Agent for 107 N. Cross Street, LLC	
STATEMENT OF ZONING COMPLIANCE	
107 N. Cross Street, LLC hereby certifies that the pro-	perty meets all applicable county and
municipal zoning requirements. 107 N. Cross Street, LLC	acknowledges that there are significant
penalties for falsifying any information required by M	IDE under Title 7, Subtitle 5 of the
Environment Article, Annotated Code of Maryland, and	that this certification is required to be
included in a response action plan for the Voluntary Clean	up Program pursuant to Title 7, Subtitle
5 of the Environment Article, Annotated Code of Marylan	d.
Signed:	Date:

Agent for 107 N. Cross Street, LLC