ecology and environment
engineering and geology, p.c.

May 22, 2024

Mr. Justin Starr
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233

Re: Surface Water and Sediment Sampling Plan
NYSDEC Site No. 360059, Rose Cleaners
500 Lexington Avenue, Mount Kisco, NY

Dear Justin Starr,

Ecology and Environment Engineering and Geology, P.C. (E & E) is conducting a remedial investigation (RI) at DEC State Superfund Program (SSF) Site No. 360059, Rose Cleaners, located at 500 Lexington Avenue, Mount Kisco, New York (the Site). As a part of RI activities, E & E has prepared the following sampling plan for the collection of surface water and sediment from the unnamed tributary adjacent to the Site (referred to as Lexington Creek) and the nearby Kisco River. The objective is to determine the extent of site-related contaminants, including tetrachloroethene (PCE) and trichloroethene (TCE), in these waterbodies in the vicinity of the Site. This plan will be utilized for any subsequent surface water and sediment sampling activities during the RI. A site plan showing the Site and proposed sampling locations is attached as Figure 1.

Background

The Site is bounded to the west by an unnamed tributary of the Kisco River that flows northward and converges with the Kisco River approximately 0.25 miles from the Site. This waterbody will be referred to as Lexington Creek during the RI activities, as has been done in past site-related reports. The Kisco River is located approximately 500 feet east of the Site and flows north/northwest to the New Croton Reservoir approximately 3.5 miles from the Site. Surface water and sediment samples have been collected from both waterbodies by other consultants during past environmental activities at the Site and surrounding area. The analytical results indicate PCE, TCE, and other chlorinated volatile organic compounds (VOCs) have been detected primarily in Lexington Creek samples in the vicinity of the Site.

Surface Water and Sediment Sampling Scope of Work

E & E presents this sampling plan for the collection of surface water and collocated sediment samples at 14 locations; eight (8) from Lexington Creek and six (6) from the Kisco River (refer to Figure 1). A summary of the proposed sampling protocol is attached as Table 1.

Sampling will be conducted during a period of dry weather to ensure the samples are not affected by stormwater influences. Sampling will be conducted from downstream to upstream for each of the

waterbodies to avoid resuspension and deposition of sediment between sampling locations. Field personnel will navigate to the planned sample location coordinates (refer to Table 1) using a Trimble handheld GPS or equivalent. Sampling locations may be adjusted based on field conditions.

Surface water samples will be collected using a peristaltic pump and dedicated tubing. The tubing intake will be placed in an area of moderate water flow at a depth approximately one half the total stream depth at that location. Care will be taken not to disturb the stream sediment during sampling. Surface water geochemical parameters will be measured at each sampling location using a Horiba U-53 water quality meter. All surface water samples will be submitted for laboratory analysis of VOCs by United States Environmental Protection Agency (USEPA) Method 8260. One of the samples will also be analyzed for the full analytical suite; including semivolatile organic compounds (SVOCs), total metals, polychlorinated biphenyls (PCBs), pesticides, herbicides, cyanide, 1,4-dioxane, and per- and polyfluoroalkyl substances (PFAS). The analytical methods are included on Table 1.

Sediment samples will be collected from the top two inches of the stream bed using dedicated sampling trowels. A decontaminated stainless-steel mixing bowl and spoon may be used to homogenize sediment as needed to meet laboratory sample volume requirements. The sediment will be screened for the presence of VOCs using a photoionization detector (PID). All sediment samples will be submitted for laboratory analysis of VOCs by USEPA Method 8260. One of the samples will also be analyzed for the full analytical suite as stated above.

Sample Quality Assurance/Quality Control (QA/QC) will be performed in accordance with E & E's 2020 *Master Quality Assurance Project Plan for New York State Department of Environmental Conservation Projects, Contract No. D009807*. Field duplicate and matrix spike/matrix spike duplicate (MS/MSD) samples will be collected for both surface water and sediment. Trip blanks will be included in each cooler containing VOC samples for both water and sediment. Rinse blanks will be collected as needed from sampling equipment using laboratory-supplied, analyte-free water for analysis of PFAS. All samples will be stored on ice in a cooler and will be transported under chain-of-custody documentation to the Phoenix Environmental Laboratories, Inc. of Manchester, Connecticut.

Decontamination Procedures

This surface water and sediment sampling plan is designed for use of dedicated, disposable materials; thereby minimizing the need for decontamination procedures. Stainless steel mixing bowls, spoons, and any other re-usable items will be decontaminated using a scrub brush and Alconox and rinsed with DI water. The decontamination wastewater will be handled as investigation derived waste (IDW); described below.

Investigation Derived Waste

Investigation derived waste (IDW) generated during sampling will be transferred to a 55-gallon US DOT-rated steel drum staged at the SSF site. The drum will be sealed and labeled, and all waste will be characterized and transported for off-site disposal in accordance with applicable requirements. Used

personal protective equipment (PPE) and disposable sampling equipment that is not grossly contaminated (e.g., no detectable odors, staining, or NAPL presence) will be bagged and disposed of as municipal solid waste.

Health and Safety

Level D Personal Protective Equipment (PPE) will be required for field personnel, including nitrile gloves, safety glasses, and safety vest. Sampling will occur in during a period of dry weather conditions. Field personnel will not enter the waterbodies if water is fast-flowing/turbulent or if water depth is greater than 2 feet. The work zone will be monitored with a PID during sample collection and handling. All safety procedures are specified in the site-specific health and safety plan (HASP). A copy of the site-specific HASP will be on-site during all field activities.

Please contact me at (914) 461-2966 with any questions or comments.

Sincerely,

Ecology and Environmental Engineering and Geology, P.C.

Dave Morelli, PG
Project Manager

cc: R. Watt, E & E

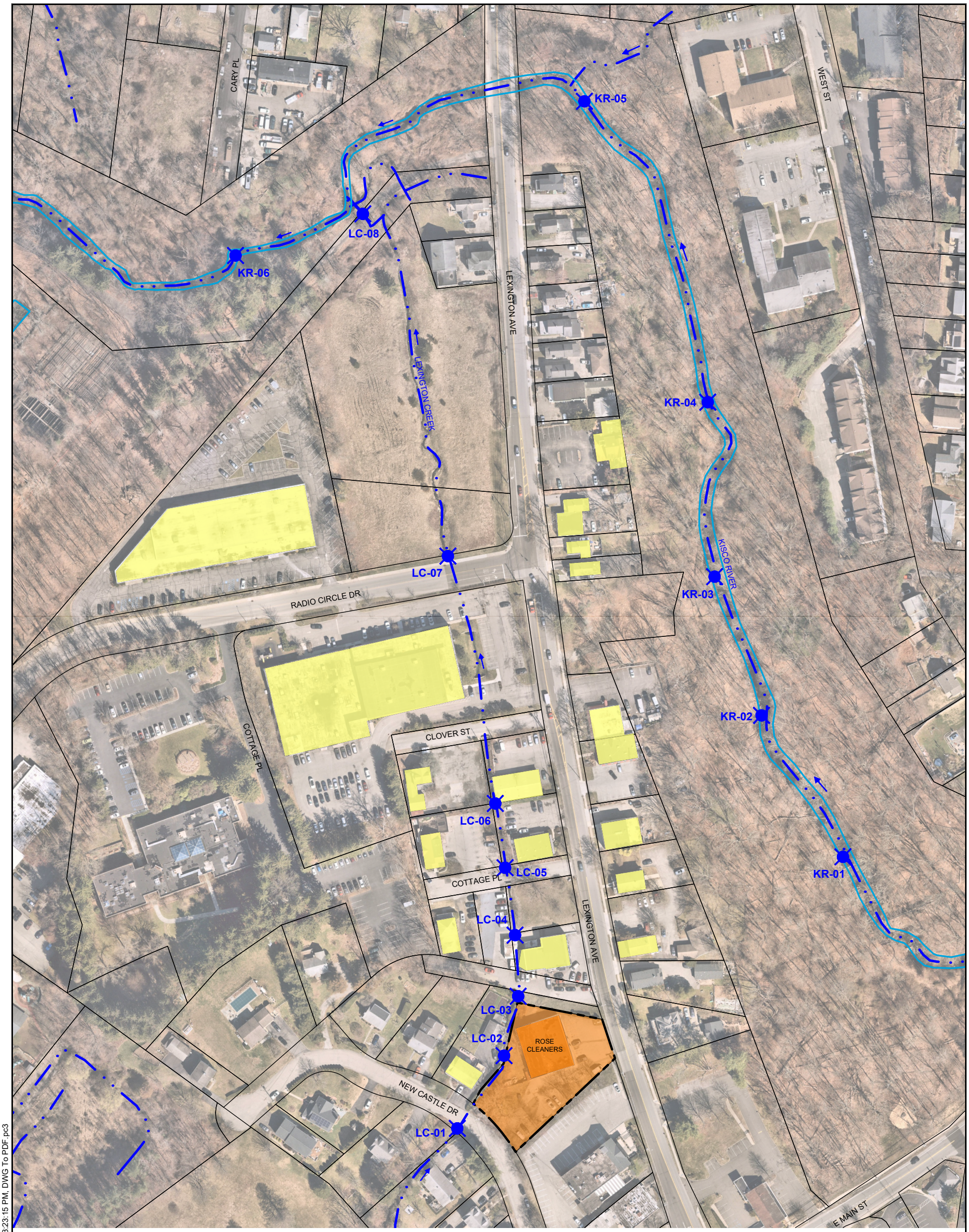
Table 1: Surface Water and Sediment Sampling Protocol

Location ID	Surface Water Sample ID	Sediment Sample ID	Analyses	QC Sample Location	Latitude	Longitude
Lexington Creek						
LC-01	LC-SW-01	LC-SD-01	VOCs	--	41.190175	-73.733302
LC-02	LC-SW-02	LC-SD-02	VOCs	--	41.190488	-73.733031
LC-03	LC-SW-03	LC-SD-03	VOCs	--	41.190743	-73.732948
LC-04	LC-SW-04	LC-SD-04	VOCs	--	41.191007	-73.732962
LC-05	LC-SW-05	LC-SD-05	VOCs	--	41.191298	-73.733016
LC-06	LC-SW-06	LC-SD-06	Full Suite*	Field Duplicate and Rinse Blank**	41.191576	-73.733069
LC-07	LC-SW-07	LC-SD-07	VOCs	--	41.192646	-73.733327
LC-08	LC-SW-08	LC-SD-08	VOCs	--	41.194126	-73.733796
Kisco River						
KR-01	KR-SW-01	KR-SD-01	VOCs	--	41.191333	-73.731084
KR-02	KR-SW-02	KR-SD-02	VOCs	--	41.191946	-73.731543
KR-03	KR-SW-03	KR-SD-03	VOCs	--	41.192547	-73.731804
KR-04	KR-SW-04	KR-SD-04	VOCs	--	41.193300	-73.731834
KR-05	KR-SW-05	KR-SD-05	VOCs	--	41.194604	-73.732524
KR-06	KR-SW-06	KR-SD-06	VOCs	MS/MSD	41.193951	-73.734526

*Full suite analyses of VOCs, SVOCs, TAL Metals, PCBs, Pesticides, Herbicides, Cyanide, PFAS, and 1,4-Dioxane.
**Sampling equipment rinse blank sample/s will be collected as needed for analysis of PFAS.

USEPA analytical methods:

VOCs -	SW-846 8260D
SVOCs -	SW-846 8270E
TAL Metals + Hg -	SW-846 6010D & 7140B
PCBs -	SW-846 8082A
Pesticides -	SW-846 8081B
Herbicides -	SW-846 8151A
Cyanide -	SW-846 9012B
1,4-Dioxane -	SW-846 8270D-SIM
PFAS -	EPA Method 1633



LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- STATE SUPERFUND PROGRAM SITE
- OFF-SITE STRUCTURE DESIGNATED FOR SOIL VAPOR INTRUSION SAMPLING
- STREAM
- SURFACE WATER AND SEDIMENT SAMPLING LOCATION

ACRONYMS:
KR - KISCO RIVER
LC - LEXINGTON CREEK (UNOFFICIAL DESIGNATION FOR UNNAMED TRIBUTARY)

0 150
SCALE IN FEET

WSP USA Inc.
40 La Riviere Drive
Suite 320
Buffalo, New York 14202
(716) 853-1220

Drawn By:	RAC
Checked:	DM
Approved:	RW
DWG Date:	01/25/24

Rose Cleaners
NYSDEC Site No. 360059
500 Lexington Avenue
Mount Kisco, New York

PROPOSED SURFACE WATER AND STREAM SEDIMENT SAMPLING LOCATIONS

FIGURE 1

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