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October 17, 2024

Abdulla Elbuytari
NYSDEC Department of Remediation
Remedial Bureau B
625 Broadway, Albany, New York 12233

RE: NYSDEC Site No. 224197 Red Hook Park, Operable Unit 2 Additional Delineation Activities

Dear Abdulla,

In accordance with the New York State Department of Environmental Conservation (NYSDEC) approved Interim Remedial Measure (IRM) Work Plan (WP), Honeywell will complete remediation of surficial tar seeps for NYSDEC Site No. 224197, located in the Operable Unit 2 (OU2) area of Red Hook Park (OU2 Area). Through project planning activities, a tree inventory was completed within the remediation area and it was determined that 6 of the proposed tar seep removal limit areas intersect the critical root zones of live trees within the OU2 Area.

Based on the presence of critical root zones within previously estimated tar seep removal limits, additional subsurface data will be collected to further delineate the nature and extent of subsurface impacts to the depth of removal (4 feet below ground surface [bgs]). Additional delineation efforts will be completed in an effort to limit the potential impact of subsurface activities within the Critical Root Zone of the areas for removal associated with the upcoming IRM. As part of delineation efforts, hand clearances will be advanced via soft dig methods (e.g., hand augers) to an approximate depth of 4 bgs. A total of 13 keyholes will be advanced within the removal area(s) as follows, and as illustrated on the attached Figure 1:

- HSR and CSR1A – 4 keyholes will be advanced at each location in each cardinal direction approximately 2.5 feet from the location of the originally identified tar seep
    - If grossly contaminated material (GCM) is not identified (e.g., continuous tar saturated soils or continuous hardened tar), 1 additional keyhole will be advanced at the originally identified tar seep location
- SEEP1, SEEP4, SEEP5 – 1 keyhole will be advanced in each location on the boundary of the Critical Root Zone within the estimated seep removal limits, as illustrated on the attached figure
    - If GCM is identified, 1 additional keyhole will be advanced at an approximate distance of 2.5 feet towards the boundary of the estimated seep removal limits
- SEEP6B – 1 keyhole will be advanced in the location of the originally identified tar seep
    - If no GCM is identified, an additional keyhole will be advanced at the boundary of the critical root zone in the direction of SEEP6A, and will continue on 10 foot intervals in the direction of SEEP6A if GCM continues to be identified. Additional keyholes may be installed at 5 foot intervals between additional locations to further refine the presence of GCM if deemed necessary.

Soil samples retrieved from each keyhole will be photographed and visually classified for soil type, grain size, texture, moisture content, and visible evidence of GCM. All soils will be returned to the keyhole following characterization.

Air monitoring stations will be established in locations upwind and downwind of the active work area during intrusive activities to monitor for particulates and volatile organic compounds (VOCs). Additionally, air monitoring will be conducted within the worker breathing zone. Particulates will be monitored via DustTrak II (or equivalent capable of data logging)

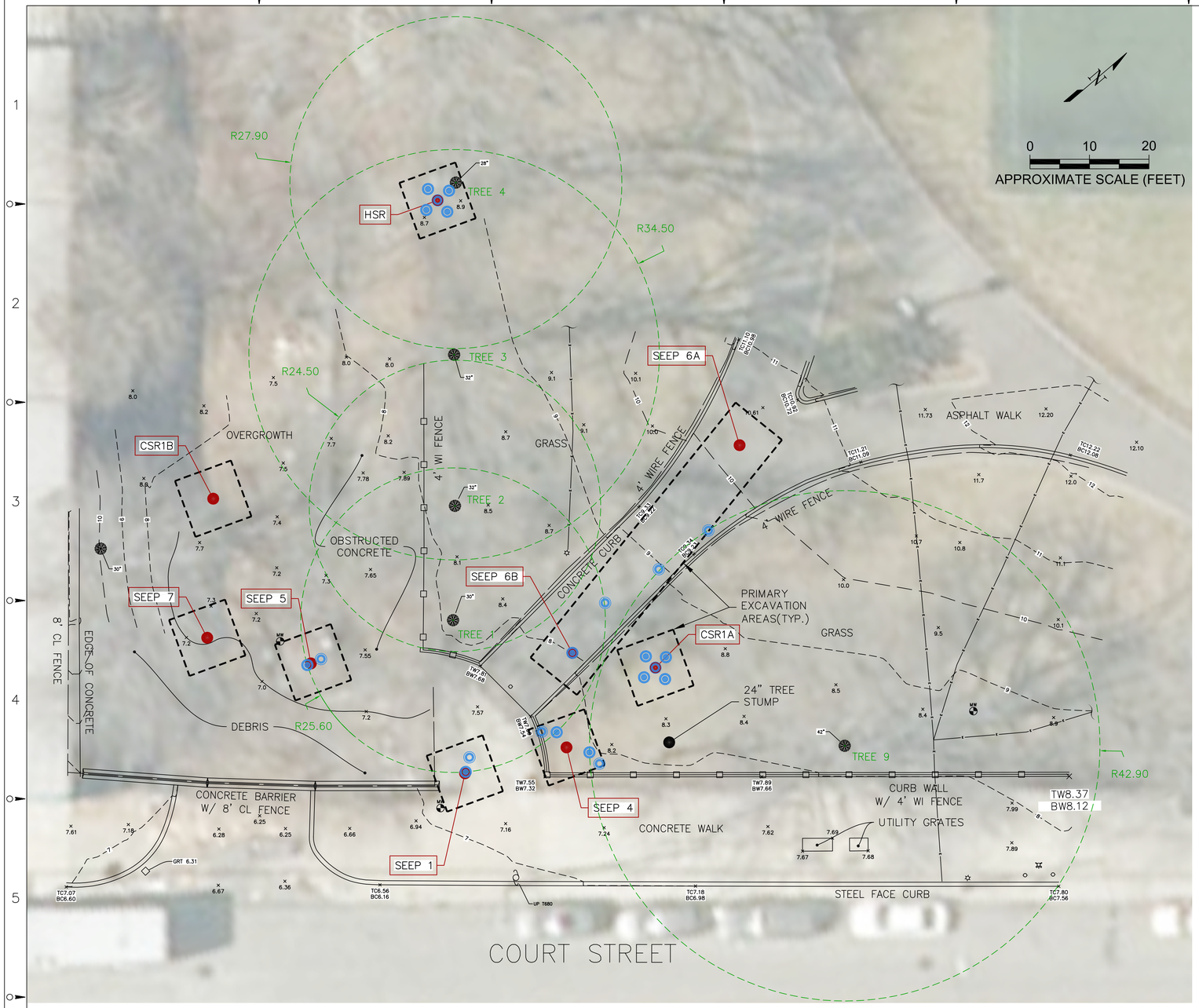
and VOCs will be monitored via MiniRAE 3000 (or equivalent capable of data logging). Should action levels be exceeded, vapor and/or dust will be mitigated via temporary work stoppage or abandonment of the soil boring.

All field activities will be conducted under the supervision of a Consulting Arborist (CA).

If you have any questions or need additional information, please feel free to call me at (315) 418-8767.

Sincerely,

Stephen Liberatore
Program Manager/Senior Project Manager



DATA SOURCES

1. AERIAL: NEW YORK STATE. "ORTHOIMAGERY FROM SPRING 2022." GIS, HTTPS://GIS.NY.GOV/2022-ORTHOIMAGERY.
2. BASE MAP: KSS KENNON SURVEY SERVICES INC. "PRE-CONSTRUCTION SURVEY." 24 AUGUST 2024.
   a. IMPROVEMENTS SHOWN HEREON ARE BASED ON ACTUAL FIELD MEASUREMENTS PERFORMED BY THIS FIRM THROUGH 11 JULY 2024. IMPROVEMENTS SHOWN HEREON ARE BASED ON ACTUAL FIELD MEASUREMENTS PERFORMED BY THIS FIRM THROUGH 11 JULY 2024.
   b. HORIZONTAL DATUM IS NEW YORK STATE PLANE, ZONE 3104, CORS2011(EPSG:6539). ESTABLISHED VIA GNSS OBSERVATIONS. HORIZONTAL DATUM IS NEW YORK STATE PLANE, ZONE 3104, CORS2011(EPSG:6539). ESTABLISHED VIA GNSS OBSERVATIONS.
   c. VERTICAL DATUM IS NAVD88, ESTABLISHED VIA GNSS OBSERVATIONS. VERTICAL DATUM IS NAVD88, ESTABLISHED VIA GNSS OBSERVATIONS.
   d. PROPERTY IS SUBJECT TO THE FINDINGS OF AN ACCURATE TITLE REPORT, WHICH WAS NOT PROVIDED AT THE TIME OF THIS SURVEY.PROPERTY IS SUBJECT TO THE FINDINGS OF AN ACCURATE TITLE REPORT, WHICH WAS NOT PROVIDED AT THE TIME OF THIS SURVEY.
3. CRITICAL ROOT ZONE: AKRF ENVIRONMENTAL, PLANNING, AND ENGINEERING CONSULTANTS. "RED HOOK PARK, BROOKLYN, NY - TREE INVENTORY RESULTS AND TREE PROTECTION PLAN." TREE INVENTORY, CONDUCTED BY CERTIFIED ARBORIST, 22 JULY 2024.

LEGEND

- BOLLARD
- CRITICAL ROOT ZONE
- 10 — ELEVATION CONTOURS
- FENCE
- FIRE HYDRANT
- MW — MONITORING WELL
- PROPOSED EXCAVATION
- SAMPLE LOCATION - INITIAL
- SAMPLE LOCATION - SUBSEQUENT
- TREE
- UNDERGROUND ELECTRIC
- UTILITY POLES

SAMPLING PLAN

OBJECTIVE:

FURTHER DELINEATION OF SUBSURFACE IMPACTS (GROSSLY CONTAMINATED MATERIAL [GCM]) VIA SOIL BORING INSTALLATION (KEYHOLES) 4 FEET BELOW GROUND SURFACE (BGS) AND VISUAL CLASSIFICATION OF SUBSURFACE MATERIALS FOR THE PURPOSE OF LIMITING IMPACTS TO CRITICAL ROOT ZONE.

KEYHOLE ADVANCEMENT APPROACH:

HSR & CSR1A

- INITIAL BORINGS: 4 KEYHOLES IN EACH CARDINAL DIRECTION, 2.5 FEET FROM ORIGINAL TAR SEEP.
- SUBSEQUENT BORING (IF NEEDED): IF NO GCM IS IDENTIFIED, INSTALL 1 ADDITIONAL KEYHOLE AT THE ORIGINAL TAR SEEP LOCATION.

SEEP 1, SEEP 4, SEEP 5

- INITIAL BORING: 1 KEYHOLE AT THE BOUNDARY OF THE CRITICAL ROOT ZONE WITHIN SEEP REMOVAL LIMITS.
- SUBSEQUENT BORING (IF NEEDED): IF GCM IS IDENTIFIED, INSTALL 1 ADDITIONAL KEYHOLE 2.5 FEET TOWARDS THE REMOVAL LIMITS BOUNDARY WITHIN THE CRITICAL ROOT ZONE.

SEEP 6B

- INITIAL BORING: 1 KEYHOLE AT THE ORIGINAL TAR SEEP LOCATION.
- SUBSEQUENT BORING (IF NEEDED): IF NO GCM IS IDENTIFIED AT THE INITIAL KEYHOLE, INSTALL ADDITIONAL KEYHOLES AT THE BOUNDARIES OF THE CRITICAL ROOT ZONES AT 10-FOOT INTERVALS TOWARDS SEEP6A.
- ADDITIONAL KEYHOLES: AT 5-FOOT INTERVALS BETWEEN TWO 10-FOOT INTERVAL KEYHOLES MAY BE INSTALLED TO FURTHER REFINE THE DELINEATION, AS NEEDED (E.G., IF ONE BORING IS CLEAR OF GCM AND THE NEXT 10-FOOT INTERVAL IS OBSERVED TO HAVE GCM).

SOIL SAMPLE CHARACTERIZATION & DOCUMENTATION:

- SOIL OBTAINED FROM EACH KEYHOLE SHALL BE PHOTOGRAPHED.
- VISUALLY CLASSIFY SOIL FOR TYPE, GRAIN SIZE, TEXTURE, MOISTURE CONTENT, AND EVIDENCE OF GCM, AND RECORD ALL OBSERVATIONS.

RESTORATION:

- SOILS SHALL BE RETURNED TO THE KEYHOLE AS ORIGINALLY OBTAINED AFTER CHARACTERIZATION.

SEEP ID	NORTHING	EASTING	NOTES
CSR1A	183477.145	983714.069	SEEP; SUBSEQUENT SAMPLE LOCATION, AS NEEDED
	183479.409	983713.010	INITIAL SAMPLE LOCATION
	183478.005	983716.416	INITIAL SAMPLE LOCATION
	183474.797	983714.929	INITIAL SAMPLE LOCATION
	183476.284	983711.722	INITIAL SAMPLE LOCATION
HSR	183469.790	983627.741	SEEP; SUBSEQUENT, AS NEEDED
	183472.171	983626.842	INITIAL SAMPLE LOCATION
	183470.684	983630.050	INITIAL SAMPLE LOCATION
	183467.476	983628.563	INITIAL SAMPLE LOCATION
	183468.963	983625.355	INITIAL SAMPLE LOCATION
SEEP 1	183440.942	983719.739	SEEP; INITIAL SAMPLE LOCATION
	183442.613	983717.454	SUBSEQUENT SAMPLE LOCATION, AS NEEDED
SEEP 4	183458.479	983721.512	SEEP; OUTSIDE OF CRITICAL ROOT ZONE; NO SAMPLE
	183457.830	983718.531	INITIAL SAMPLE LOCATION
	183461.836	983723.613	INITIAL SAMPLE LOCATION
	183455.482	983717.582	SUBSEQUENT SAMPLE LOCATION, AS NEEDED
	183462.760	983725.965	SUBSEQUENT SAMPLE LOCATION, AS NEEDED
SEEP 5	183423.430	983693.413	SEEP; INITIAL SAMPLE LOCATION
	183424.873	983693.359	SUBSEQUENT SAMPLE LOCATION, AS NEEDED
SEEP 6B	183464.879	983706.938	SEEP; INITIAL SAMPLE LOCATION
	183472.955	983700.918	SUBSEQUENT SAMPLE LOCATION, AS NEEDED
	183483.381	983698.720	SUBSEQUENT SAMPLE LOCATION, AS NEEDED
	183493.429	983695.459	SUBSEQUENT SAMPLE LOCATION, AS NEEDED

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPV'D

SEAL

NOT FOR CONSTRUCTION

PARSONS

OFFICE
1011 US-22W
SUITE 201
BRIDGEWATER, NJ

JOB
452577

COA

PROJECT TITLE

Honeywell

IRM WORKPLAN OU2 (OFF-SITE)
BROOKLYN, NEW YORK

DRAWING TITLE

RED HOOK AND HALLECK STREET (PAPER STREET) TAR SEEP DELINEATION PLAN

SCALE
1" = 10'

DRAWING NO.

REV.

FILE NAME: \\NYSYR04FS01\PROJECTS\HONEYWELL\452577 BROOKLYN TAR POST-CONSTR MONITORING AND SITE MANAG\10.0 TECHNICAL CATEGORIES\10.03 RED HOOK PARK OU2 IRM\CAD\CIVIL\452577 BKTAR_RHP_PRELIMSAMP.DWG
PLOT DATE: 10/8/2024 3:43 PM PLOTTED BY: SALAZAR, ANNE [NN-US]