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Engineers and
Scientists

Periodic Review Report August 2023 NYSDEC Site No. 344014

West Nyack Operating Center

766 West Nyack Road, West Nyack, NY (Formerly 180 West Nyack Road)

Submitted to:

Orange and Rockland Utilities, Inc. c/o Consolidated Edison Company of New York, Inc. 31-01 20th Avenue, Building 138, 2nd Floor Long Island City, NY 11105-2048

Submitted by:

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August 2023 Project 2101712

We Pro

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Executive Summary

GEI Consultants, Inc. (GEI) has prepared this Periodic Review Report (PRR) on behalf of Orange and Rockland Utilities, Inc (O&R) for the West Nyack Operating Center (WNOC). This document is required as an element of the remedial program under the New York State Inactive Hazardous Waste Disposal Site Remedial Program, administered by New York State Department of Environmental Conservation (NYSDEC).

The O&R WNOC facility is currently used as a satellite service center for O&R line crews. The facility includes a fueling station for utility service trucks, parking space for O&R vehicles, equipment storage, and office space for personnel. The Site was remediated in 1998 in accordance with the NYSDEC-approved Remedial Action Work Plan (RAWP). The remedial actions included:

- Excavation of soil containing petroleum-related volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs) greater than NYSDEC recommended cleanup levels.
- Placement of a composite cover system over remaining soil impacts at the Site.
- Development and implementation of a Site Management Plan (SMP).

As part of the remedy, institutional and engineering controls, including a deed restriction and periodic inspection and monitoring requirements, were put in place to prevent uncontrolled exposure to remaining subsurface impacts on Site.

Annual Site-wide inspections and annual cover system monitoring are performed in accordance with the SMP to document the condition of the institutional and engineering controls. The annual inspections and monitoring have concluded that the institutional and engineering controls remain effective, with some minor repairs being made on an as-needed basis. Specifically, the condition of the asphalt cover in the parking and driveway areas throughout the Site is functioning as designed; no full-depth cracks were identified within the asphalt (i.e., minimal cracking exists, but do not extend to the sub-base). The areas of the surface cover consisting of oil stone chips remains functional, although replenishment of the oil stone layer is recommended in some areas (i.e., on slope behind building and under the northeastern transmission tower). The perimeter fencing is functioning as designed.

Annual Site-wide inspections and annual cover system monitoring will continue to be performed in accordance with the SMP unless or until NYSDEC authorizes modification to the SMP. The next Site-wide inspection and cover system monitoring will be performed during the 2024 construction season. The SMP states that a PRR will be submitted to the

NYSDEC every fifth year. The next PRR submittal will be in August 2028. The results of the 2024 through 2028 annual Site-wide inspections and annual cover system monitoring will be provided to the NYSDEC in the August 2028 PRR.

1. Introduction

1.1 General

This Periodic Review Report (PRR) for the West Nyack Operating Center (WNOC) has been prepared on behalf of Orange and Rockland Utilities, Inc (O&R). This document is required as an element of the post-remedial program under the New York State Inactive Hazardous Waste Disposal Site Remedial Program, administered by New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with Order on Consent Index # W3-0508-93-12, Site # 344014, which was executed on August 2, 1994.

This report documents the Site-wide inspection and surface cover system monitoring performed during the subject reporting period (i.e., 2019 through 2023) and the current Site conditions relative to the institutional and engineering controls established for the Site. This report has been prepared in accordance with the requirements of Chapter 6 of Division of Environmental Remediation (DER)-10, Technical Guidance for Site Investigation and Remediation, dated May 2010 and the guidance provided in a NYSDEC letter to O&R dated June 20, 2023.

1.2 Site Overview

The Site is located at 766 West Nyack Rd., (formerly 180 West Nyack Rd.) in the Town of Clarkstown, County of Rockland, New York and is identified as Block 2 and Lots 47 and 48 on the Clarkstown Tax Map. **Figure 1** shows the Site location. The Site is an approximately 3-acre area bounded by Hackensack River to the north and east, Old Nyack Turnpike (also called West Nyack Road) to the south, and Consolidated Rail Corporation (Conrail) rail tracks to the west (**Figure 2**). O&R also owns Lot 43 south of West Nyack Road; however, this property is used for employee parking for the O&R facility, was not part of the remedial actions for the Site and is not included in the engineering controls described in the Site Management Plan (SMP). South of the WNOC Site, directly across Route 59, is the Grant Hardware Site (NYSDEC # 344031).

The WNOC facility is currently used as a satellite service center for O&R line crews. The facility includes a fueling station for utility service trucks, parking space for O&R vehicles, equipment storage, and office space for personnel. From the 1920s to approximately 1981, transformers, capacitors, and other electrical equipment were stored and repaired at the facility. Two underground storage tanks (USTs) were previously located near the center of the Site and used to store gasoline for fueling O&R's utility vehicles.

One tank was identified as leaking and was removed in 1989. The second tank was removed during the 1997 to 1998 remedial actions.

A Remedial Investigation (Rust Environment & Infrastructure, [RUST], 1996), a Feasibility Study (RUST, 1997a), and additional Supplemental Subsurface Investigation (Tetra Tech, 2005) were performed to characterize the nature and extent of Site impacts. The results of these investigations indicated the subsurface soil in the vicinity of the UST area exhibited elevated petroleum-related volatile organic compound (VOC) concentrations. The depth of petroleum impacted soil ranged from 1 foot to 14 feet. Limited polychlorinated biphenyl (PCB) impacts in subsurface soil were also identified.

Quarterly groundwater sampling performed from 2006 through 2011 indicated that concentrations of chlorinated VOCs and their breakdown products remained generally consistent. Wells showing the highest concentrations of chlorinated VOCs were located along the southern, upgradient, boundary of the Site. The upgradient former Grant Hardware Site was identified as the source of these impacts and they are not attributed to O&R.

The WNOC Site was remediated in accordance with the NYSDEC-approved Remedial Action Work Plan (RAWP) (RUST, 1997b). A Record of Decision (ROD) was issued in October 1997. The remedial action included:

- Excavation of 9,328 cubic yards of soil from areas on the Site containing petroleum related VOCs and PCBs in excess of NYSDEC recommended cleanup levels (0.06 mg/kg benzene and 1.2 mg/kg xylene and 10 mg/kg PCBs).
- Placement of a composite cover system over remaining soil impacts at the Site.
- Development and implementation of a SMP for long term management of remaining contamination.

Remedial activities were initiated by O&R in November 1997 and completed in April 1998 as documented in the Remedial Action Work Plan and Final Engineering Report for Orange & Rockland, Inc (RUST, 1997b and 1998). The SMP was finalized in July 2012 (AECOM, 2012). The SMP identified the long-term Site monitoring and inspection tasks that are required to continue following completion of the remedial action, including annual Site inspections and surface cover monitoring, as further described in Section 4.3.

2. Evaluation of Remedy

Components of the remedy identified in the ROD have been implemented. Based on the information collected as part of the long-term inspections, the remedy continues to operate as designed and has been effective in preventing uncontrolled exposure to remaining subsurface impacts on Site. Specifically:

- As documented in the Final Engineering Report (Certification Report; RUST, 1998)
 the remedy was successful in removing soil from areas containing petroleum-related
 VOCs and PCBs in excess of NYSDEC recommended cleanup levels (0.06 mg/kg
 benzene and 1.2 mg/kg xylene and 10 mg/kg PCBs).
- A deed restriction to limit the use and development of the Site to commercial or industrial uses only is in place.
- The surface cover system has been maintained to prevent exposure to remaining subsurface contamination.
- The NYSDEC has been notified of potential subsurface disturbances in accordance with the SMP.

3. Institutional and Engineering Control Compliance

3.1 General

Because impacts remain in the subsurface as described above, institutional and engineering controls have been implemented to protect human health and the environment, as further discussed below.

3.2 Institutional Controls

A series of institutional controls is required by the ROD to: (1) implement, maintain, and monitor engineering control systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and (3) limit the use and development of the Site to commercial or industrial uses. The deed restriction requires adherence to these institutional controls and the SMP provides implementation details. A summary of the institutional controls that are detailed in the SMP are provided below. (The complete detailed listing of the institutional controls is provided in Section 2.3 of the SMP.)

- Compliance with the deed restriction and the SMP;
- The engineering control (soil cap/composite cover system) must be operated and maintained as specified in the SMP;
- The integrity of surface cover system must be visually inspected annually;
- Data and information pertinent to management of the Site must be reported at the frequency and in a manner defined in the SMP (PRRs will be submitted to the NYSDEC every fifth year, beginning eighteen months after the Certificate of Completion or Satisfactory Completion Letter is issued);
- The property may only be used for industrial or commercial use provided that the long-term engineering and institutional controls included in this SMP are employed;
- Future activities on the property that will disturb remaining contaminated material
 must be conducted in accordance with the Excavation Work Plan provided in the
 SMP;
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;

- The potential for vapor intrusion must be evaluated for any buildings developed in the
 area while groundwater impacts are still present and any potential impacts that are
 identified must be monitored or mitigated; and
- Vegetable gardens and farming on the property are prohibited.

Site-wide inspections have been conducted by O&R and GEI annually during the reporting period (2019 through 2023). The associated annual inspection reports are provided in **Appendix A**, each of which includes photographs and a copy of the Annual Inspection and Certification Checklist. The most recent Site-wide inspection was conducted on July 31, 2023.

Site usage and ownership has not changed as of the date of the 2023 inspection. The Site continues to be industrial/commercial use as a satellite service center for O&R line crews with a fueling station for utility service vehicles, parking space for O&R vehicles, equipment storage, and office space for personnel. The surface cover has been maintained and remains operational with some additional maintenance recommended (Section 3.3). Except as described below, there has been no evidence of groundwater use, development (i.e., no new or removed structures) or use of on-Site soil for vegetable gardens or farming throughout the current reporting period. There was no evidence of unauthorized entry, damage to entrances or exits, illegal dumping, or unusual odors. There were some housekeeping issues identified but none of the housekeeping issues impacted the effectiveness of the institutional controls.

During the July 2023 inspection, it was noted that raised bed gardens has been added under the northwestern transmission tower; however, these gardens are wholly contained within planters (i.e., galvanized steel water trough/stock tanks) and are not in contact with on-Site soil, nor were any intrusive activities conducted during their installation.

In July 2021, four electric car charging stations were installed in the unpaved area adjacent to the asphalt along the southeastern fence line. The asphalt was not disturbed during installation of the charging stations, bollards, utility pole, or associated electrical components.

No additional intrusive activities were performed between July 2019 and August 2023.

In summary, based on conditions observed during the annual Site inspections, the institutional controls identified in the SMP are consistent with the deed restriction requirements, remain in place and are effective, as further described in the reports included in **Appendix A**. The remedy continues to be protective of public health and the environment as described in the Final Engineering Report (RUST, 1998).

3.3 Engineering Controls

Engineering controls consist of a surface cover system (**Figure 2**). Specifically, exposure to remaining impacts in soil/fill is prevented by a surface cover system placed over the Site. Following remedial actions, the excavated area (**Figure 3**) was backfilled with a combination of clean fill and reused thermally treated soils. An impermeable asphalt cover was then placed over the remainder of the WNOC property. This cover consists of 3 inches of binder course and 1 ½ inches of wearing course placed over all paved parking areas., In addition to the asphalt layer in areas that were excavated as part of the remedial action, 12 inches of structural subbase were placed beneath the asphalt layer. In the driveway areas which were already paved, Petro- Mats® were laid over the existing pavement and covered with approximately 1 ½ inches of wearing course. Additionally, several inches of oiled stone chips were placed beneath the transmission towers in the northernmost portion of the Site, as well as in the areas immediately adjacent to the rear of the building in order to protect the integrity of the asphalt cover. Security fencing was also replaced around the WNOC facility.

The SMP specifies that a visual inspection of the complete surface cover system will be conducted on an annual basis concurrently with the Site-wide inspection. Components of the surface cover system are inspected for the following:

- Integrity of asphalt covered roads (specifically, paved roads and parking areas, as well as the oil stone chips);
- Integrity of sidewalks;
- Integrity of concrete building slabs; and
- Integrity of "clean surface cover/cap" (i.e., 12 inches clean soil below asphalt and oil stone chips in excavation areas [Figure 3])

If any of the components of the composite cover system are not functioning as designed, maintenance and repair are required to restore the integrity of the surface cover system as soon as practical.

Formal annual Site-wide inspections and surface cover system monitoring were performed between July 2018 and August 2023. Copies of the associated annual Site wide inspection reports are included in **Appendix A**.

As indicated on the 2023 inspection report, the cover system remains in place and continues to be effective at preventing direct exposure to impacts remaining in the subsurface. Certain conditions were identified during the most recent Site inspection (conducted July 31, 2023), which are summarized below. (The photographs referenced below are provided in the 2023 inspection report included in **Appendix A.**)

- The asphalt cover in the facility parking and driveway areas is in overall good condition. Some settlement cracks were identified within the asphalt during the 2020 inspection and remain present as of the 2023 inspection. However, the cracks remain surficial and there is no exposure to the sub-base or subsurface material. (Photographs 1-8, Photograph 16).
- The oil stone chips are present beneath the transmission towers. The oil stone cover preventing exposure to subsurface soil at these locations appears to be intact. It appears that the oil stone chips have been replenished under the northwestern tower, but not the northeastern tower. Replacement of oil stone chips under the northeastern tower should be considered to prevent exposure of soil in the future (Photograph 10). Raised-bed gardens have been added under the northwestern transmission tower (Photograph 9); however, these gardens are wholly contained within planters (i.e., galvanized steel water trough/stock tanks) and are not filled with or in contact with on-Site soil.
- The pole rack along the northwestern fence line was covered with equipment and the oil stone chips in area beneath were minimally visible. The condition of the oil stone chips, and possible vegetation growth was assessed to the extent possible and found to be competent based on visual observations (Photograph 17).
- Consistent with previous inspections, there is some erosion of the oil stone chips on the sloped areas adjacent to the southwestern side of the building (Photograph 11). Soil is exposed in this area where there appears to be further erosion of the concrete platform above the slope. Vegetation was present during the 2023 inspection, along with debris and equipment. The oil stone chips, asphalt, and concrete are still present and preventing exposure to the underlying soil at most locations. However, because the oil chips were placed in this area to protect the integrity of the asphalt cover, future maintenance and/or replacement of the oil chips in this area should be considered to prevent further erosion.
- The pavement patch for the emergency generator installed in 2017 continues to be maintained in good condition (Photograph 13).
- The pavement on Lot 48 west of the fence-line and east of the railroad is in overall good condition. Minor cracks were observed consistent with observations during recent annual inspections. However, the cracks remain surficial and there is no exposure to the subsurface soil.
- The concrete floor of the facility building is in good condition (Photograph 14).
- The perimeter fence is in good condition (Photograph 1, 12, 16).
- There was no evidence of unauthorized use (i.e., no evidence of excavation, construction, groundwater use, or farming in the Site soil, etc.).

Although not a part of the surface cover inspection, the on-Site monitoring wells were also observed. The concrete pad and well cap at MW-10S are cracked (Photograph 15) such that the well's surface completion components should be replaced. The concrete pad for monitoring well MW-5B is also cracked but remains competent. MW-8S, MW-8B, and MW-11S were uncovered from under accumulated soil/debris, but competent. Monitoring well EXW5 could not be found in 2023.

Overall, the surface cover system was found to be functioning as designed in accordance with the details provided in the Final Engineering Report (RUST, 1998).

Additional "as needed" controls are also identified in the SMP, including provisions for intrusive work. Specifically, the Excavation Work Plan provided as Appendix A of the SMP outlines the procedures required to be implemented in the event the cover system is breached, penetrated, or temporarily removed, and any underlying remaining contamination is disturbed. Work conducted pursuant to the Excavation Work Plan must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP), and Community Air Monitoring Plan (CAMP) prepared for the Site.

4. Monitoring Compliance

4.1 Groundwater Monitoring

Based on the Record of Decision for the Former Grant Hardware Facility Site (NYSDEC # 344031) and investigation findings related to the WNOC Site, groundwater impacts on the WNOC Site are from this off-Site upgradient source. The WNOC SMP states that any further groundwater monitoring will be completed by the Potentially Responsible Party (PRP) for the Grant Hardware Site. Therefore, groundwater sampling is not part of the WNOC SMP and is not conducted by O&R. Site access will be provided to the potentially responsible party for the Former Grant Hardware Site and their representatives to complete any required groundwater sampling, if/when needed.

Access to the WNOC Site for groundwater monitoring has not been requested during this reporting period.

4.2 Monitoring Well Repairs, Replacement, and Decommissioning

A network of monitoring wells was installed to monitor both upgradient and downgradient groundwater conditions at the Site. As noted in Section 4.1, Site access will be provided to the PRP for the former Grant Hardware Site and their representatives to complete any required groundwater sampling.

In the meantime, the surface conditions of the on-Site monitoring wells are assessed during Site inspection and cover monitoring events. Most recently in 2023, a damaged protective casing for groundwater monitoring well MW-10S (**Figure 2**) was identified and will be repaired. The remainder of the on-Site monitoring wells were observed in functional condition.

4.3 Soil Vapor Intrusion Monitoring

No new structures were built; therefore, no soil vapor intrusion sampling was conducted during this reporting period.

5. Conclusions and Recommendations

5.1 Conclusions

A copy of the NYSDEC Institutional and Engineering Controls Certification Form is included as **Appendix B**. The institutional and engineering controls established in the SMP were complied with during the reporting period, as discussed in Section 4. The institutional and engineering controls have proved effective in preventing uncontrolled exposure to remaining subsurface impacts on Site.

5.2 Recommendations

The engineering controls are in overall good condition and functioning as designed. Certain maintenance activities are recommended based on the most recent annual inspection to maintain the engineering controls and prevent future potential exposures. These recommendations are summarized below:

- Continued control of vegetation in all oil stone chip areas to prevent it from compromising the integrity of the cover material; and
- Replacement or future maintenance of the oil chips on the sloped areas adjacent to the southwestern side of the building and beneath the northeastern transmission tower to prevent further erosion.

5.3 Schedule of Future Activities

O&R will perform the recommended maintenance at their earliest availably, no later than the next annual inspection in 2024.

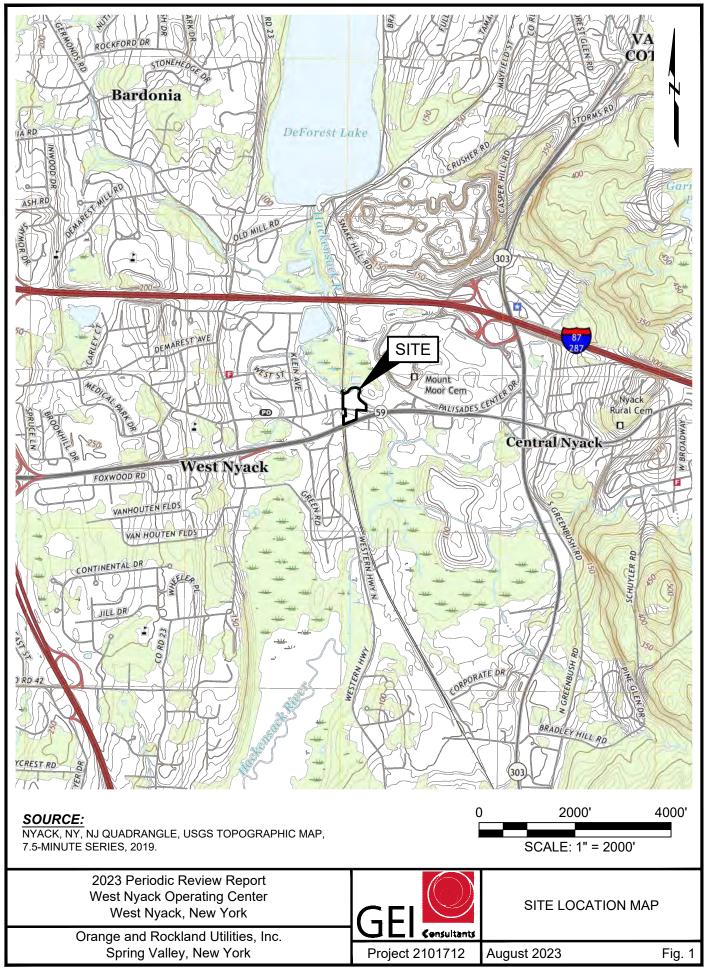
Annual Site-wide inspections and annual cover system monitoring will continue to be performed in accordance with the SMP unless or until NYSDEC authorizes modification to the SMP. The next planned Site-wide inspection and cover system monitoring will be performed during the summer of 2024.

The SMP states that a PRR will be submitted to the NYSDEC every fifth year. The next PRR submittal will be in August 2028. The results of the 2024 through 2028 annual Sitewide inspections and annual cover system monitoring will be provided to the NYSDEC in the August 2028 PRR.

6. References

- Rust Environment and Infrastructure (RUST), 1996. Remedial Investigation Report, Orange and Rockland Utilities, Inc., Inactive Hazardous Waste Disposal (I.D. # 344014), West Nyack, NY, July 1996.
- RUST, 1997a. Feasibility Study Report, Orange and Rockland Utilities, Inc., West Nyack, New York, Inactive Hazardous Waste Disposal Site (I.D. # 344014), March 1997; Amended July 1997.
- RUST, 1997b. Remedial Plan, O&R Inactive Hazardous Waste Disposal Site (ID #344014, West Nyack, NY, September 1997.
- RUST, 1998, Certification Report, O&R Inactive Hazardous Waste
- Disposal Site (I.D. # 344014), West Nyack, NY, June 1998.
- Tetra Tech EC, Inc., 2005. Supplemental Subsurface Investigation, Orange and Rockland Utilities, Inc., West Nyack Operating Center, 766 West Nyack Road, West Nyack, New York, August 2005.
- AECOM, 2012, Site Management Plan Orange and Rockland Utilities (West Nyack Operating Center) 180 West Nyack Road, West Nyack, NY 10994, NYSDEC Site Number: 344014, July 2012.

Figures



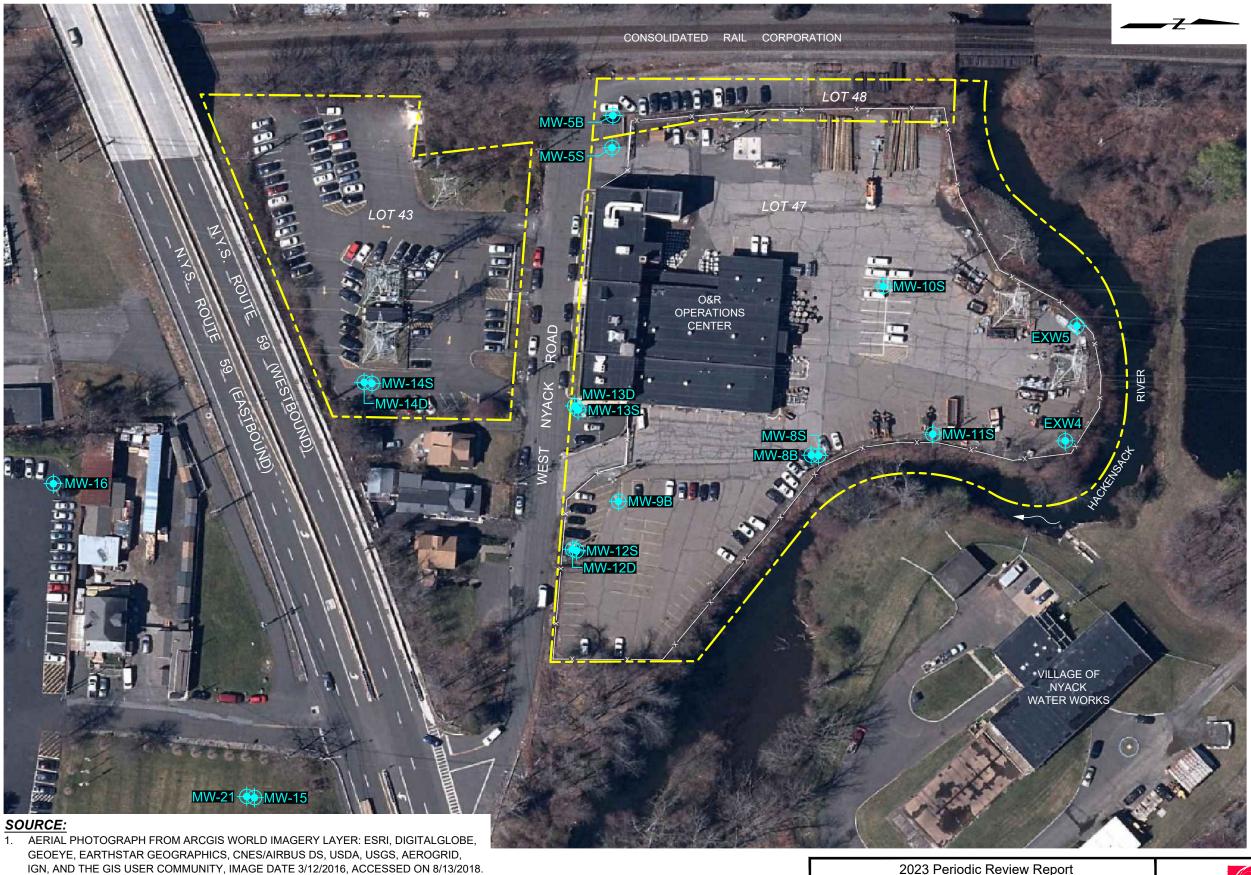


FIGURE 1-2: CURRENT SITE LAYOUT AND MONITORING WELL LOCATIONS, PREPARED

3. TAX MAP, SHEET 65.05, TOWN OF CLARKSON, ROCKLAND COUNTY, NEW YORK,

BY AECOM, DATE: 3/25/09, SCALE: 1" = 140'.

REVISED THROUGH FEBRUARY 28, 2018, SCAKE: 1" = 100'.

MONITORING WELL
PROPERTY BOUNDARY
CHAIN-LINK FENCE

2023 Periodic Review Report West Nyack Operating Center West Nyack, New York

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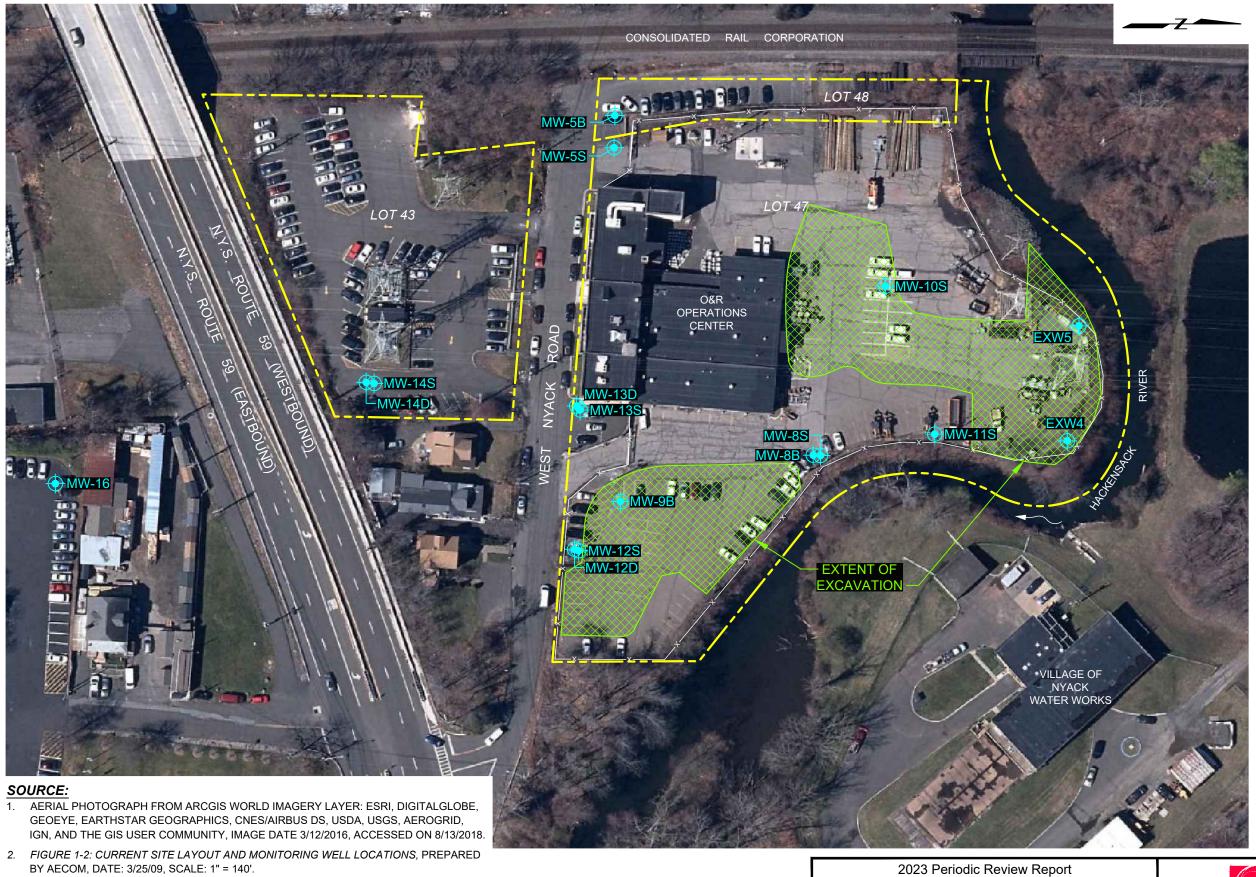
SCALE: 1" = 80'

Orange and Rockland Utilities, Inc. Spring Valley, New York GEI Consultants

SITE LAYOUT MAP

Project 2101712 August 2023

Fig



TAX MAP, SHEET 65.05, TOWN OF CLARKSON, ROCKLAND COUNTY, NEW YORK,

EXCAVATION EXTENTS FROM FIGURE 2: SITE LAYOUT, PREPARED BY AECOM, SCALE:

REVISED THROUGH FEBRUARY 28, 2018, SCAKE: 1" = 100'.

1" = 120', DATE: 2/15/2012.

West Nyack Operating Center West Nyack, New York

Orange and Rockland Utilities, Inc. Spring Valley, New York

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SCALE: 1" = 80'

REMEDIAL ACTION **EXCAVATION EXTENT**

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LEGEND:

MONITORING WELL

EXTENT OF EXCAVATION

PROPERTY BOUNDARY

CHAIN-LINK FENCE

Appendix A

Site-Wide Inspection and Surface Cover System Monitoring Reports

- 2023 Report
- 2022 Report
- 2020 Report
- 2021 Report
- 2019 Report



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August 28, 2023 Project 2101712

Mr. Matthew Levinson Senior Scientist - EH&S Remediation Consolidated Edison Company of New York, Inc. 31-01 20th Avenue, Building 138, 2nd Floor Long Island City, NY 11105-2048

Dear Mr. Levinson:

Re: 2023 Annual Inspection Report West Nyack Operating Center 766 West Nyack Road, West Nyack, New York NYSDEC Site No. 344031

GEI Consultants, Inc., P.C. has prepared this Annual Inspection Report on behalf of Consolidated Edison Company of New York (Con Edison) for the Orange and Rockland Utilities, Inc. (O&R) West Nyack Operating Center (WNOC). This letter documents the results of the annual Site-Wide Inspection and annual Composite Cover System Monitoring that was performed on July 31, 2023. The inspection and monitoring were performed in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved WNOC Site Management Plan (SMP), dated July 2012.

Project Background

The Site is located at 766 West Nyack Road (formerly 180 West Nyack Road) in the Town of Clarkstown, Village of West Nyack, County of Rockland, New York, and is identified as Block 2 and Lots 47 and 48 on the Clarkstown Tax Map.¹ Figure 1 shows the Site location. The Site is an approximately 3-acre area bounded by Hackensack River to the north and east, Old Nyack Turnpike (also called West Nyack Road) to the south, and Consolidated Rail Corporation (Conrail) rail tracks to the west (Figure 2). South of the Site, directly across Route 59, is the Grant Hardware Site (NYSDEC # 344031).

The O&R WNOC facility is currently used as a satellite service center for O&R line crews. The facility includes a fueling station for utility service trucks, parking space for O&R vehicles, equipment storage, and office space for personnel. From the 1920s to approximately 1981, transformers, capacitors and other electrical equipment were stored and repaired at the facility. Two underground storage tanks (USTs) were previously located in the center of the Site and used to store gasoline for fueling O&R's utility vehicles. One tank was identified as leaking and was removed in 1989. The second tank was removed during remedial actions conducted in 1997 and 1998.

¹ O&R also owns Lot 43 south of West Nyack Road. This property is used for employee parking for the O&R facility and was not part of the remedial actions for the Site. Lot 43 is not included in the engineering controls described in the Site Management Plan (SMP) and is not further discussed herein.

The Site was investigated and remediated in accordance with Order on Consent Index # W3-0508-93-12, Site # 344014, which was executed on August 2, 1994. A Remedial Investigation (RUST, 1996), a Feasibility Study (RUST, 1997a) and an additional Supplemental Subsurface Investigation (Tetra Tech, 2005) were performed to characterize the nature and extent of impacts. The results of these investigations indicated the subsurface soil in the vicinity of the UST area exhibited elevated petroleum-related volatile organic compound (VOC) concentrations. The depth of petroleum-impacted soil ranged from 1 foot to 14 feet below grade. Limited Polychlorinated Biphenyl (PCB) impacts in subsurface soil were also identified.

The Site was remediated in 1997 and 1998 in accordance with the NYSDEC-approved Remedial Action Work Plan (RAWP) dated September 1997 (RUST, 1997b). A Record of Decision (ROD) was issued in October 1997. Remedial activities were initiated in November 1997 and completed in April 1998 (RUST, 1998), and included:

- Excavation of 9,328 cubic yards of soil containing petroleum-related VOCs and PCBs in excess of NYSDEC recommended cleanup levels (0.06 mg/kg benzene and 1.2 mg/kg xylene and 10 mg/kg PCBs). The extent of excavation is shown on Figure 3.
- Placement of a composite cover system over remaining soil impacts. This cover consists of 12 inches of structural sub-base, 3 inches of binder course, and 1½ inches of wearing course placed in the excavated areas, and 3 inches of binder course and 1½ inches of wearing course placed over the majority of the remainder of the Site. In driveway areas that were already paved, Petro- Mats® were laid over the existing pavement and covered with approximately 1½ inches of wearing course. Additionally, several inches of oil stone chips were placed in areas where asphalt was not used, including beneath the transmission towers in the northernmost portion of the Site, the pole rack on western side of the Site, and areas immediately adjacent to the rear of the facility building to protect the integrity of the cover system. Security fencing was also replaced around the Site.
- Development and implementation of a SMP for long term management of remaining contamination (AECOM, 2012).

2023 Site-Wide Inspection

The SMP specifies that Site-wide inspections be performed a minimum of once per year and documented on a Site-wide inspection form (Annual Site-Wide Inspection and Cover System Monitoring Checklist). The inspection assesses the following:

- Compliance with Institutional Controls (ICs), including Site usage
- Condition and continued effectiveness of Environmental Controls (ECs)
- General Site conditions at the time of the inspection
- That Site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection
- That Site records are up to date

The 2023 annual inspection was conducted by GEI and O&R on July 31, 2023. Appendix A includes a copy of the completed 2023 Annual Site-Wide Inspection and Cover System Monitoring Checklist .

There was no evidence of new or removed structures, unauthorized entry, damage to entrances or exits, illegal dumping, or unusual odors.

There were some housekeeping issues identified but none of the housekeeping issues impacted the effectiveness of the Institutional or Engineering Controls. Site usage and ownership has not changed as of the date of the 2023 inspection.

Cover System Monitoring

The SMP specifies that a visual inspection of the complete cover system will also be conducted on an annual basis concurrently with the Site-wide inspection. The composite cover system inspection assesses the following:

- Integrity of asphalt-covered roads (specifically, paved roadways and parking areas, as well as oil stone chips);
- Integrity of sidewalks;
- Integrity of concrete building slabs
- Integrity of "clean soil cover/cap" (i.e., 12 inches clean soil below asphalt and oil stone chips in excavation areas [Figure 3])

The following visual observations of the cover system integrity were made during the August 2023 monitoring event. The photographs referenced below are provided in Appendix B.

- The asphalt cover in the facility parking and driveway areas is in overall good condition. Some settlement cracks were identified within the asphalt during the 2020 inspection and remain present as of the 2023 inspection. However, the cracks remain surficial and there is no exposure to the sub-base or subsurface material. (Photographs 1-8, Photograph 16).
- The oil stone chips are present beneath the transmission towers. The oil stone cover preventing exposure to subsurface soil at these locations appears to be intact. It appears that the oil stone chips have been replenished under the northwestern tower, but not the northeastern tower. Replacement of oil stone chips under the northeastern tower should be considered to prevent exposure of soil in the future (Photograph 10). Raised-bed gardens have been added under the northwestern transmission tower (Photograph 9); however, these gardens are wholly contained within planters (i.e., galvanized steel water trough/stock tanks) and are not filled with or in contact with on-Site soil.
- The pole rack along the northwestern fence line was covered with equipment and the oil stone chips in area beneath were minimally visible. The condition of the oil stone chips, and possible vegetation growth was assessed to the extent possible and found to be competent based on visual observations (Photograph 17).
- Consistent with previous inspections, there is some erosion of the oil stone chips on the sloped areas adjacent to the southwestern side of the building (Photograph 11). Soil is exposed in this area where there appears to be further erosion of the concrete platform above the slope. Vegetation was present during the 2023 inspection, along with debris and equipment. The oil stone chips, asphalt, and concrete are still present and preventing exposure to the underlying soil at most locations. However, because the oil chips were placed in this area to protect the integrity of the asphalt cover, future maintenance and/or replacement of the oil chips in this area should be considered to prevent further erosion.
- The pavement patch for the emergency generator installed in 2017 continues to be maintained in good condition (Photograph 13).
- The pavement on Lot 48 west of the fence-line and east of the railroad is in overall good condition.

- Minor cracks were observed consistent with observations during recent annual
 inspections. However, the cracks remain surficial and there is no exposure to the
 subsurface soil.
- The concrete floor of the facility building is in good condition (Photograph 14).
- The perimeter fence is in good condition (Photograph 1, 12, 16).
- There was no evidence of unauthorized use (i.e., no evidence of excavation, construction, groundwater use, or farming in the Site soil, etc.).
- Although not a part of the surface cover inspection, the surface conditions of the on-Site
 monitoring wells were also observed. The concrete pad and well cap at MW-10S are
 cracked (Photograph 15) such that the well's surface completion components should be
 replaced. The concrete pad for monitoring well MW-5B is also cracked, but remains
 competent. MW-8S, MW-8B, and MW-11S were uncovered from under accumulated
 soil/debris, but competent. Monitoring well EXW5 could not be found in 2023.

Compliance with SMP

The institutional and engineering controls established in the SMP were complied with during this reporting period. Site-wide inspections and cover system monitoring will continue to be performed annually in accordance with the SMP. The results of the annual Site-wide inspections and cover system monitoring conducted from 2019 through present will be provided to the NYSDEC in the next Periodic Review Report (PRR) (see below).

IC/EC Compliance

The cover system remains largely intact. The institutional and engineering controls appear to remain effective in preventing uncontrolled exposure to remaining subsurface impacts beneath the cover system.

Some exposure of soil due to the erosion of oil stone chips on a sloped area adjacent to the building was identified. Additionally, the oil stone chips under the northeastern transmission tower are thinning. Repair/replenishment of the oil stone chips should be considered in these areas, as further discussed above. The damaged MW-10S surface completion should also be replaced.

Future Inspections and Periodic Review Report Submittals

The next Site-wide inspection and cover system monitoring will be performed during summer 2024.

In accordance with the SMP, a PRR will be submitted to the Department every fifth year; with the next PRR submittal scheduled for August 2023. The 2019 through 2023 annual Site-wide inspection and cover system monitoring reports will be attached to this PRR.

If you have any questions, please feel free to contact us at (607) 216-8966.

Sincerely,

GEI CONSULTANTS, INC., P.C.

Wendy Moore, P.E. Project Manager

Matthew O'Neil, P.E. Senior Engineer

WM/MO:tc Attachments:

Figures

- 1. Site Location Map
- 2. Site Layout Map
- 3. Remedial Action Excavation Extent

Appendices

- A. Annual Site-Wide Inspection and Cover System Monitoring Checklist
- B. Photo Documentation (including photolog and photo location map)

2023 Annual Inspection Report West Nyack Operating Center 766 West Nyack Road, West Nyack, New York

References

Rust Environment and Infrastructure (RUST), 1996. Remedial Investigation Report, Orange and Rockland Utilities, Inc., Inactive Hazardous Waste Disposal (I.D. # 344014), West Nyack, NY, July 1996.

RUST, 1997a. Feasibility Study Report, Orange and Rockland Utilities, Inc., West Nyack, New York, Inactive Hazardous Waste Disposal Site (I.D. # 344014), March 1997; Amended July 1997.

RUST, 1997b. Remedial Plan, O&R Inactive Hazardous Waste Disposal Site (ID #344014, West Nyack, NY, September 1997.

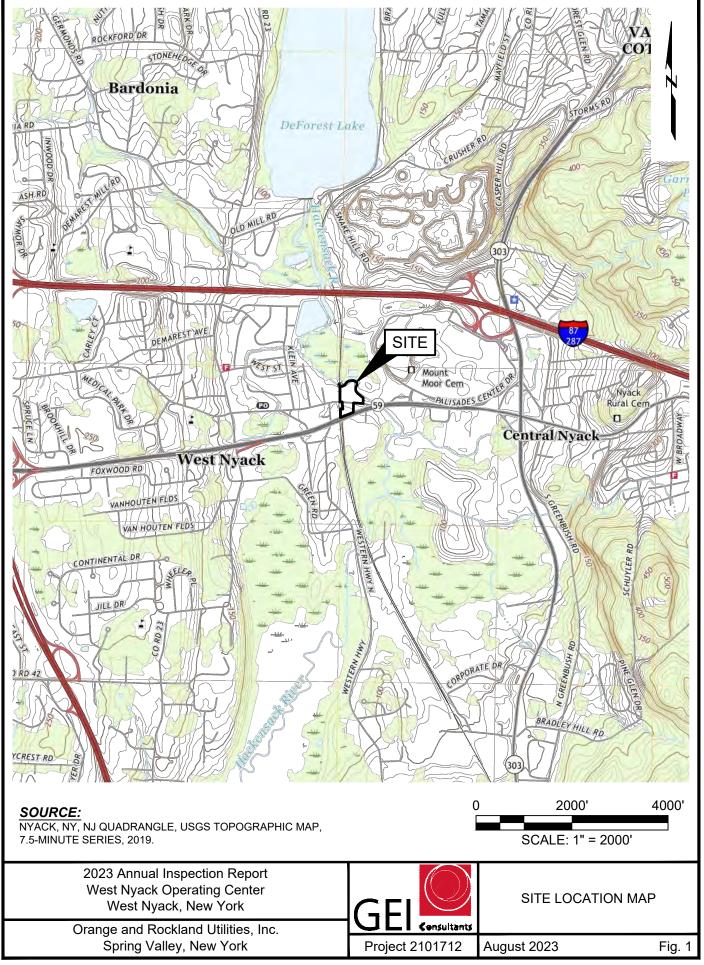
RUST, 1998, Certification Report, O&R Inactive Hazardous Waste Disposal Site (I.D. # 344014), West Nyack, NY, June 1998.

Tetra Tech EC, Inc., 2005. Supplemental Subsurface Investigation, Orange and Rockland Utilities, Inc., West Nyack Operating Center, 766 West Nyack Road, West Nyack, New York, August 2005.

AECOM, 2012, Site Management Plan Orange and Rockland Utilities (West Nyack Operating Center) 180 West Nyack Road, West Nyack, NY 10994, NYSDEC Site Number: 344014, July 2012.

2023 Annual Inspection Report West Nyack Operating Center 766 West Nyack Road, West Nyack, New York

Figures



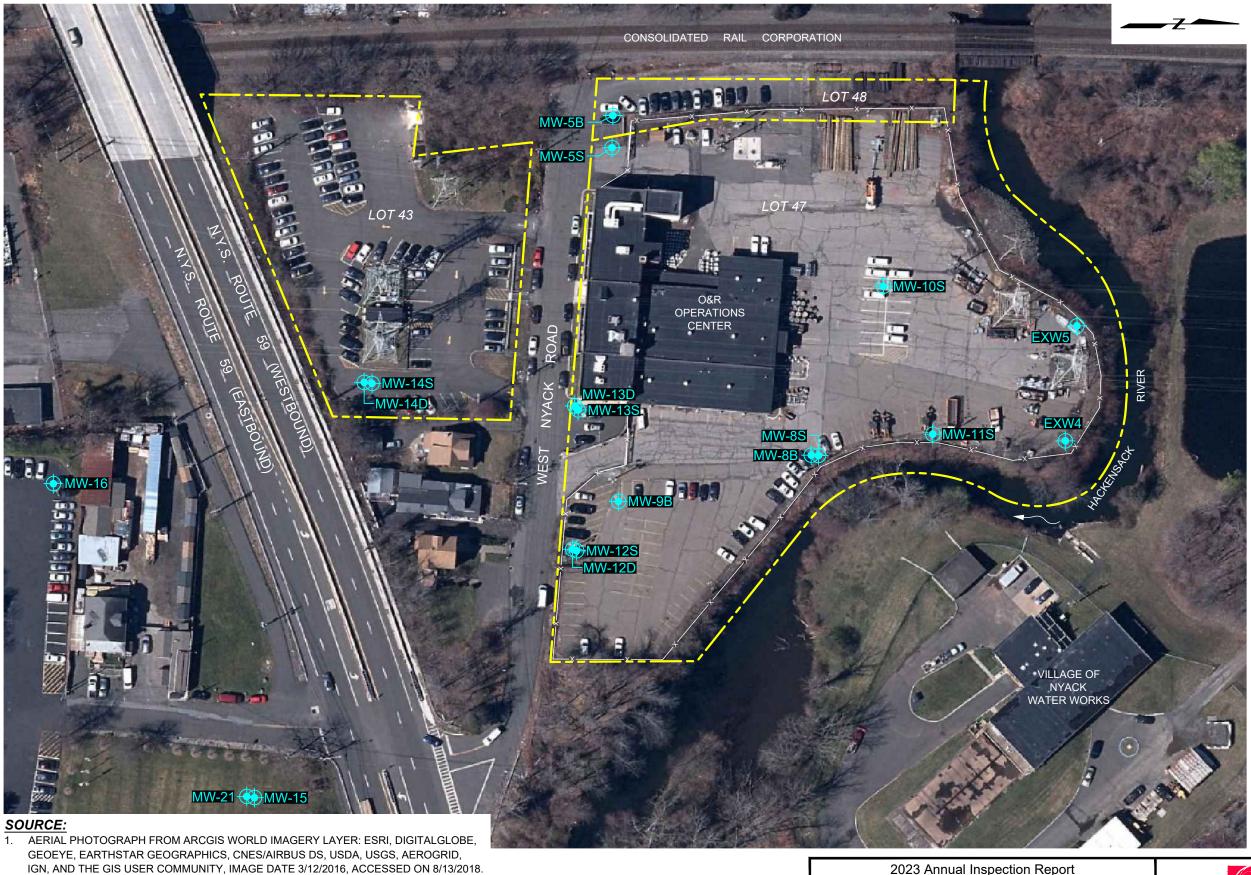


FIGURE 1-2: CURRENT SITE LAYOUT AND MONITORING WELL LOCATIONS, PREPARED

3. TAX MAP, SHEET 65.05, TOWN OF CLARKSON, ROCKLAND COUNTY, NEW YORK,

BY AECOM, DATE: 3/25/09, SCALE: 1" = 140'.

REVISED THROUGH FEBRUARY 28, 2018, SCAKE: 1" = 100'.

MONITORING WELL
PROPERTY BOUNDARY
CHAIN-LINK FENCE

2023 Annual Inspection Report West Nyack Operating Center West Nyack, New York

160

SCALE: 1" = 80'

Orange and Rockland Utilities, Inc. Spring Valley, New York GEI Consultants

SITE LAYOUT MAP

Project 2101712 August 2023

Fig



TAX MAP, SHEET 65.05, TOWN OF CLARKSON, ROCKLAND COUNTY, NEW YORK,

EXCAVATION EXTENTS FROM FIGURE 2: SITE LAYOUT, PREPARED BY AECOM, SCALE:

REVISED THROUGH FEBRUARY 28, 2018, SCAKE: 1" = 100'.

1" = 120', DATE: 2/15/2012.

2023 Annual Inspection Report
West Nyack Operating Center
West Nyack, New York

Orange and Rockland Utilities, Inc. Spring Valley, New York

160

SCALE: 1" = 80'



REMEDIAL ACTION EXCAVATION EXTENT

Project 2101712 August 2023

LEGEND:

MONITORING WELL

EXTENT OF EXCAVATION

PROPERTY BOUNDARY

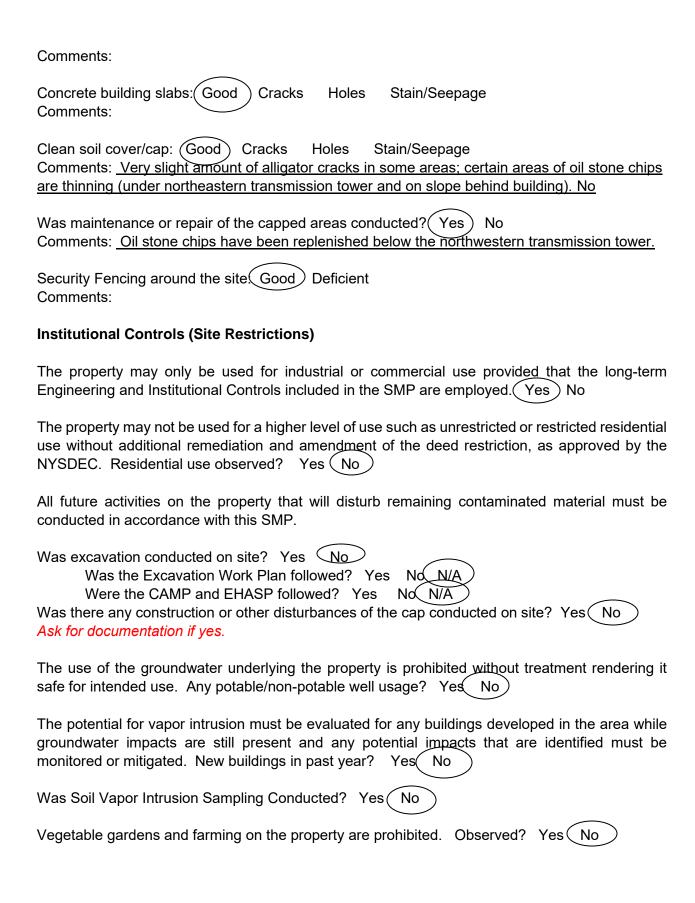
CHAIN-LINK FENCE

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Appendix A

Annual Site-Wide Inspection and Cover System Monitoring Checklist

Address: 766 West Nyack Road, West Nyack, NY 10994
Date of Inspection: 07/31/23
Weather: <u>77°F, Cloudy</u>
Inspector: Francisco Mateo Company: GEI Consultants, Inc.
O&R Representative: <u>Matthew Levinson</u>
General Site Conditions Are there any new or removed structures: YesNo Comments:
Does the site have proper up keep Yes No Comments:
Evidence of unauthorized entry: Yes No Comments:
Damage to entrances/exits: YesNo Comments:
Any illegally dumped materials: YesNo Comments:
Any unusual odors: YesNo Comments:
Are any monitoring wells opened or damaged: Yes No Comments: MW-10S has a cracked head and pad; MW-5B has a cracked but still competent pad; EXW5
could not be located during this inspection.
Engineering Control Systems
The site engineering control systems is a soil cap (composite cover system). Exposure to remaining contamination is soil/fill at the site is prevented by a soil cover system placed over the site. Following remedial actions, the excavate area was backfilled with a combination of clean fill and thermally-treated soils. An impermeable asphalt cap was the placed over the entire site. This cap consists of 12 inches of structural sub-base, 3 inches of binder course, and 1 ½ inches of wearing course placed in the excavated areas, and 3 inches of binder course and 1 ½ inches of wearing course placed over the majority of the remainder of the site. In the driveway areas which were already paved, Petro-Mats were laid over the existing pavement and covered with approximately 1 ½ inches of wearing course. Additionally, several inches of oiled stone chips were placed beneath the transmission towers in the northernmost portion of the site, as we as in the areas immediately adjacent to the rear of the building in order to protect the integrity of the asphalt cap.
Note Integrity of:
Asphalt covered roads. Good Cracks Holes Stain/Seepage



Comments: Raised bed gardens have been installed under one of the transmission towers; however, these gardens are wholly contained within planters (galvanized steel water trough/stock tanks) and are not in contact with on-Site soil.

The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation of failure to comply with the SMP. Yes No Ask for documentation if no.

Groundwater Sampling:

	granted to	representatives	of the Former	Grant H	Hardware I	Facility S	Site for	sampling?
Yes No						-		
Comments:	N/A - No	ne Requested	- no sampling r	<u>iecessa</u>	ry/schedul	<u>ed</u>		

Were monitoring well repairs, replacement or decommissioning required? Yes No Comments:

Notifications Required Yes(No

60-day advance notice of any proposed changes in site use that are required under the terms of the Orders on Consent, 6NYCRR Part 375, and/or Environmental Conservation Law. Yes No N/A

7-day advance notice of any proposed ground-intrusive activities pursuant to the Excavation Work Plan. Yes No N/A

Notice within 48-hours of any damage or defect to the foundations structures that reduced or has the potential to reduce the effectiveness of the Engineering Control and likewise any action to be taken to mitigate the damage or defect. Yes No (N/A)

Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of the Engineering Control in place at the site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public. Yes No (N/A)

Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs. Yes No (N/A)

Any change in the ownership of the site or the responsibility for implementing this SMP will include the following notifications:

At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the Orders on Consent, and all approved work plans and reports, including this SMP. Yes No (N/A)

Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing. Yes No N/A Ask for documentation if yes.

Contingency Plan

In the event of an emergency condition impacting the Engineering Control or building, O&R will follow its existing emergency procedures and evacuation plan for this facility. As appropriate, the fire department and other emergency response group will be notified immediately by telephone of the emergency.

Did an emergency occur in the past year? Yes No
Was the fire department or other emergency response group notified immediately?
Yes No

Appendix B

Photo Documentation



FIGURE 1-2: CURRENT SITE LAYOUT AND MONITORING WELL LOCATIONS, PREPARED

3. TAX MAP, SHEET 65.05, TOWN OF CLARKSON, ROCKLAND COUNTY, NEW YORK,

BY AECOM, DATE: 3/25/09, SCALE: 1" = 140'.

REVISED THROUGH FEBRUARY 28, 2018, SCAKE: 1" = 100'.

LEGEND:



MONITORING WELL
PROPERTY BOUNDARY
CHAIN-LINK FENCE

LOCATION AND
ORIENTATION OF PHOTO
DESCRIBED IN PHOTOLOG

2023 Annual Inspection Report West Nyack Operating Center West Nyack, New York

160

SCALE: 1" = 80'

Orange and Rockland Utilities, Inc. Spring Valley, New York



PHOTO LAYOUT MAP

Project 2101712 August 2023

Fig. B

Appendix B
Photo Documentation – July 2023 Site Inspection
O&R West Nyack Operations Center



PHOTOGRAPH 1
Pavement and fence in front parking area, fencing – View looking southwest



PHOTOGRAPH 2
Pavement in parking area – View looking northeast



PHOTOGRAPH 3
Pavement in rear parking lot –View looking north behind buildings



PHOTOGRAPH 4

Pavement in rear of facility – View looking south from behind west side of buildings



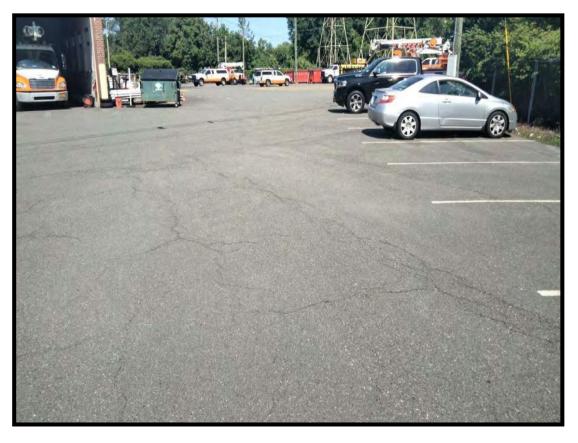
PHOTOGRAPH 5
Pavement behind facility buildings – View looking southwest



PHOTOGRAPH 6
Pavement on east side of facility buildings – View looking north



PHOTOGRAPH 7
Pavement behind facility buildings– View looking northeast, transmission towers in background



PHOTOGRAPH 8Pavement to east of buildings – View looking northeast, fence at right



PHOTOGRAPH 9
Base of northwestern transmission tower – Oil & stone chips present



PHOTOGRAPH 10

Base of northeastern transmission tower – Oil & stone chips present, minimal erosion and vegetation



PHOTOGRAPH 11

Southwest side of building, eastern corner - - Oil & stone chips present, minimal erosion and vegetation



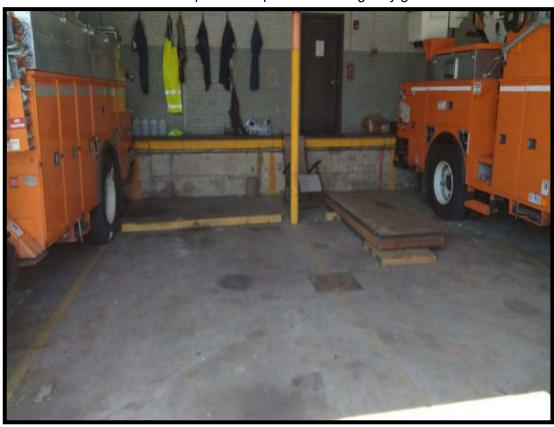
PHOTOGRAPH 12

Western side of building, fencing – Oil & stone chips present, minimal vegetation



PHOTOGRAPH 13

Maintained pavement patch for emergency generator



PHOTOGRAPH 14
Concrete surface inside building



PHOTOGRAPH 15
MW-10S – Crack in concrete pad and cover



PHOTOGRAPH 16
Fencing in front parking area - view facing east



PHOTOGRAPH 17South side of pole rack – View looking east, oil & stone chips present - minimal visibility



Consulting
Engineers and
Scientists

December 12, 2022 Project 2101712

Mr. Raphael Rosenbaum Scientist - EH&S, MGP Remediation Consolidated Edison Company of New York 31-01 20th Avenue, Building 138, 2nd Floor Long Island City, NY 11105-2048

Dear Mr. Rosenbaum:

Re: 2022 Annual Inspection Report
West Nyack Operating Center
766 West Nyack Road, West Nyack, New York

GEI Consultants, Inc., P.C. has prepared this Annual Inspection Report on behalf of Consolidated Edison Company of New York (Con Edison) Orange and Rockland Utilities, Inc. (O&R) West Nyack Operating Center (WNOC). This letter documents the results of the annual Site-Wide Inspection and annual Composite Cover System Monitoring that was performed on August 24, 2022 in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved WNOC Site Management Plan (SMP), dated July 2012.

Project Background

The Site is located at 766 West Nyack Road (formerly 180 West Nyack Road) in the Town of Clarkstown, Village of West Nyack, County of Rockland, New York, and is identified as Block 2 and Lots 47 and 48 on the Clarkstown Tax Map.¹ Figure 1 shows the Site location. The Site is an approximately 3-acre area bounded by Hackensack River to the north and east, Old Nyack Turnpike (also called West Nyack Road) to the south, and Consolidated Rail Corporation (Conrail) rail tracks to the west (Figure 2). South of the Site, directly across Route 59, is the Grant Hardware Site (NYSDEC # 344031).

The O&R WNOC facility is currently used as a satellite service center for O&R line crews with garage facilities and a fueling station for utility service trucks, parking space for O&R vehicles, equipment storage, as well as office space. From the 1920s to approximately 1981, transformers, capacitors and other electrical equipment were stored and repaired at the facility. Two underground storage tanks (USTs) were located in the center of the Site and were used to store gasoline for fueling O&R's utility vehicles. One tank was identified as leaking and was removed in 1989. The second tank was removed during remedial actions conducted in 1997 and 1998.

The site was investigated and remediated in accordance with Order on Consent Index # W3-0508-93-12, Site # 344014, which was executed on August 2, 1994. A Remedial Investigation (Rust, July 1996), a Feasibility Study (Rust, July 1997) and an additional Supplemental Subsurface

¹ O&R also owns Lot 43 south of West Nyack Road. This property is used for employee parking for the O&R facility and was not part of the remedial actions for the Site. Lot 43 is not included in the engineering controls described in the Site Management Plan (SMP).

Investigation (Tetra Tech, 2005) were performed to characterize the nature and extent of contamination at the site. The results of these investigations indicated the subsurface soil in the vicinity of the UST area exhibited elevated petroleum-related volatile organic compound (VOC) concentrations. The depth of petroleum-impacted soil ranged from 1 foot to 14 feet. Limited Polychlorinated Biphenyl (PCB) impacts in subsurface soil were also identified.

The site was remediated in 1997 and 1998 in accordance with the NYSDEC-approved Remedial Action Work Plan (RAWP) dated September 1997. A Record of Decision (ROD) was issued in October 1997. Remedial activities were initiated by O&R in November 1997 and completed in April 1998 (RUST, 1998),and included:

- Excavation of 9,328 cubic yards of soil containing petroleum-related VOCs and PCBs in excess of NYSDEC recommended cleanup levels (0.06 mg/kg benzene and 1.2 mg/kg xylene and 10 mg/kg PCBs). The extent of excavation is shown on Figure 3.
- Placement of a composite cover system over remaining soil impacts. This cap consists of 12 inches of structural sub-base, 3 inches of binder course, and 1 ½ inches of wearing course placed in the excavated areas, and 3 inches of binder course and 1 ½ inches of wearing course placed over the majority of the remainder of the Site. In driveway areas that were already paved, Petro- Mats® were laid over the existing pavement and covered with approximately 1 ½ inches of wearing course. Additionally, several inches of oiled stone chips were placed beneath the transmission towers in the northernmost portion of the Site, as well as in the pole rack and areas immediately adjacent to the rear of the building in order to protect the integrity of the cover system. Security fencing was replaced around the Site as well.
- Development and implementation of a SMP for long term management of remaining contamination (AECOM, July 2012).

2022 Site-Wide Inspection

The SMP specifies that site-wide inspections be performed a minimum of once per year and documented on a site-wide inspection form (Annual Site-Wide Inspection and Cover System Monitoring Checklist). The inspection assesses the following:

- Compliance with Institutional Controls (ICs), including Site usage
- Condition and continued effectiveness of Environmental Controls (ECs)
- General Site conditions at the time of the inspection
- That Site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection
- That Site records are up to date

The 2022 annual inspection was conducted by GEI on August 24, 2022. A copy of the Annual Site-Wide Inspection and Cover System Monitoring Checklist is included in Appendix A.

There was no evidence of unauthorized entry, damage to entrances or exits, illegal dumping, or unusual odors. There were some housekeeping issues identified but none of the housekeeping issues impacted the effectiveness of the Institutional or Engineering Controls. Site usage and ownership has not changed as of the date of the 2022 inspection.

A damaged protective casing for groundwater monitoring well MW-5B located outside the fence line on the southern portion of Lot 48 was repaired in 2022. Specifically, the damaged road box

was removed and a replacement riser, cement box, J-plug, and steel cap were installed (Photograph 16 in Appendix B). The PVC riser pipe is slightly cracked but intact. Air Monitoring was implemented within the work zone, with no observed impacts.

Cover System Monitoring

The SMP specifies that a visual inspection of the complete cover system will also be conducted on an annual basis concurrently with the Site-wide inspection. The composite cover system inspection assesses the following:

- Integrity of asphalt-covered roads
- Integrity of sidewalks
- Integrity of concrete building slabs
- Integrity of "clean soil cover/cap"

The following visual observations of the cover system integrity were made during the August 2022 site walk. The photographs referenced below are provided in Appendix B.

- The asphalt cap in the parking and driveway areas is in overall good condition. Some settlement cracks were identified within the asphalt during the 2020 inspection and remain present as of the 2022 inspection. However, the cracks remain surficial and there is no exposure to the sub-base or subsurface material. (Photographs 1 through 8, and 14).
- The oil stone chips are present beneath the transmission towers. The cap preventing exposure to subsurface soil at these locations appears to be intact; however, the oil stone chips are starting to erode. There are some equipment and debris in these areas. Replacement of oil chips in this area should be considered to prevent further erosion and exposure of soil (Photograph 9).
- The oil stone chips are present beneath the pole rack along the northwestern fence line. There is vegetation in this area. Vegetation removal should be considered to prevent compromising the integrity of this cover material (Photograph 10).
- Consistent with previous inspections, there is erosion of the oil stone chips on the sloped areas adjacent to the southwestern side of the building. Brown soil is exposed in this area where there appears to be further erosion of the concrete platform above the slope (Photograph 11 and 12). Vegetation was present during the 2022 inspection (Photographs 11 and 12). The oil stone chips, asphalt and concrete are still present and preventing exposure to the underlying soil at most locations. However, because the oil chips were placed in the rear of the building to protect the integrity of the asphalt cap, future maintenance and/or replacement of the oil chips in this area should be considered to prevent further erosion.
- The pavement patch for the emergency generator installed in 2017 has been repaired and is in good condition. The settlement along the edges of a subsurface structure and a small depression/crack in the southwest area of the pavement that were identified in prior inspections have since been repaired and depression has been patched with new asphalt (Photograph 13).
- The pavement on Lot 48 west of the fence-line and east of the railroad is in overall good condition. Minor cracks were observed consistent with observations during the 2020 and 2021 inspections (Photograph 14). However, the cracks remain surficial and there is no exposure to the subsurface soil.
- The concrete floor of the garage is in good condition (Photograph 15).

Compliance with SMP

The institutional and engineering controls established in the SMP were complied with during this reporting period. Site-wide inspections and cover system monitoring will continue to be performed annually in accordance with the SMP. The results of the annual site-wide inspections and cover system monitoring conducted from 2019 through present will be provided to the NYSDEC in the next Periodic Review Report (PRR) (see below).

IC/EC Compliance

The cover system remains largely intact. The institutional and engineering controls appear to remain effective in preventing uncontrolled exposure to remaining subsurface impacts beneath the cover system. Some exposure of soil due to the erosion of oil stoned chips on a sloped area adjacent to the building was identified. Repair/replacement of the oil stoned chips should be considered in this area, as further discussed above.

Future Inspections and Periodic Review Report Submittals

The next site-wide inspection and cover system monitoring will be performed during summer 2023.

In accordance with the SMP, a PRR will be submitted to the Department every fifth year; with the next PRR submittal scheduled for August 2023. The PRR will include the results of the 2019 through 2023 annual site-wide inspection and cover system monitoring reports.

Matthew O'Neil, P.E. Senior Engineer

If you have any questions, please feel free to contact us at (607) 216-8966.

Sincerely,

GEI CONSULTANTS, INC., P.C.

Wendy Moore, P.E.

Project Manager

WM\MO:jam Attachments:

Figures

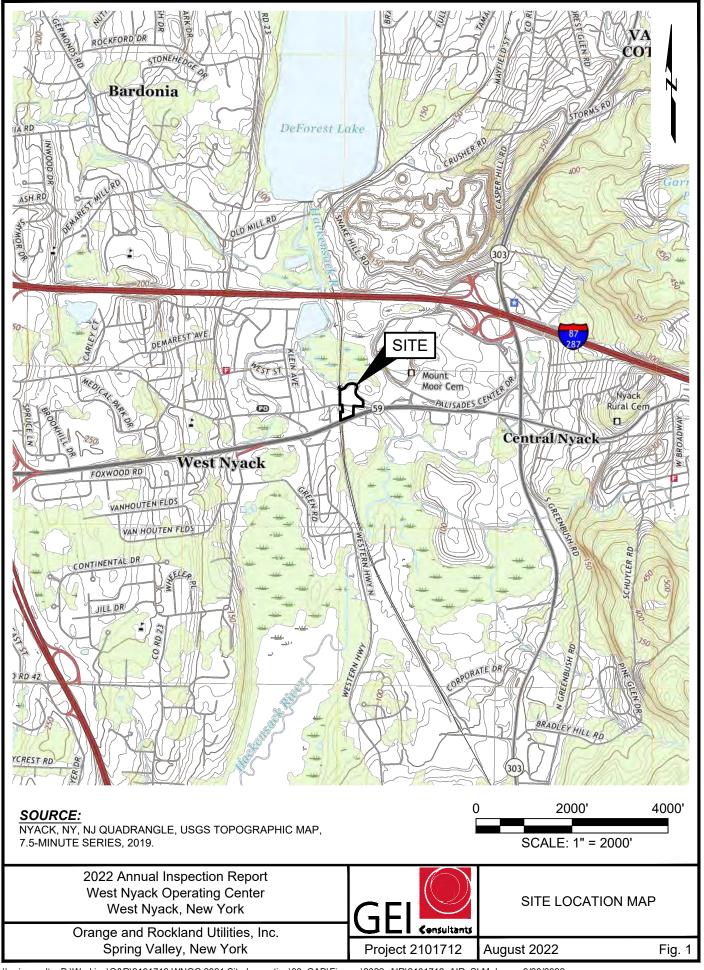
- 1. Site Location Map
- 2. Site Layout Map
- 3. Remedial Action Excavation Extent

Appendices

- A. Annual Site-Wide Inspection and Cover System Monitoring Checklist
- B. Photo Documentation

2022 Annual Inspection Report West Nyack Operating Center 766 West Nyack Road, West Nyack, New York December 12, 2022

Figures



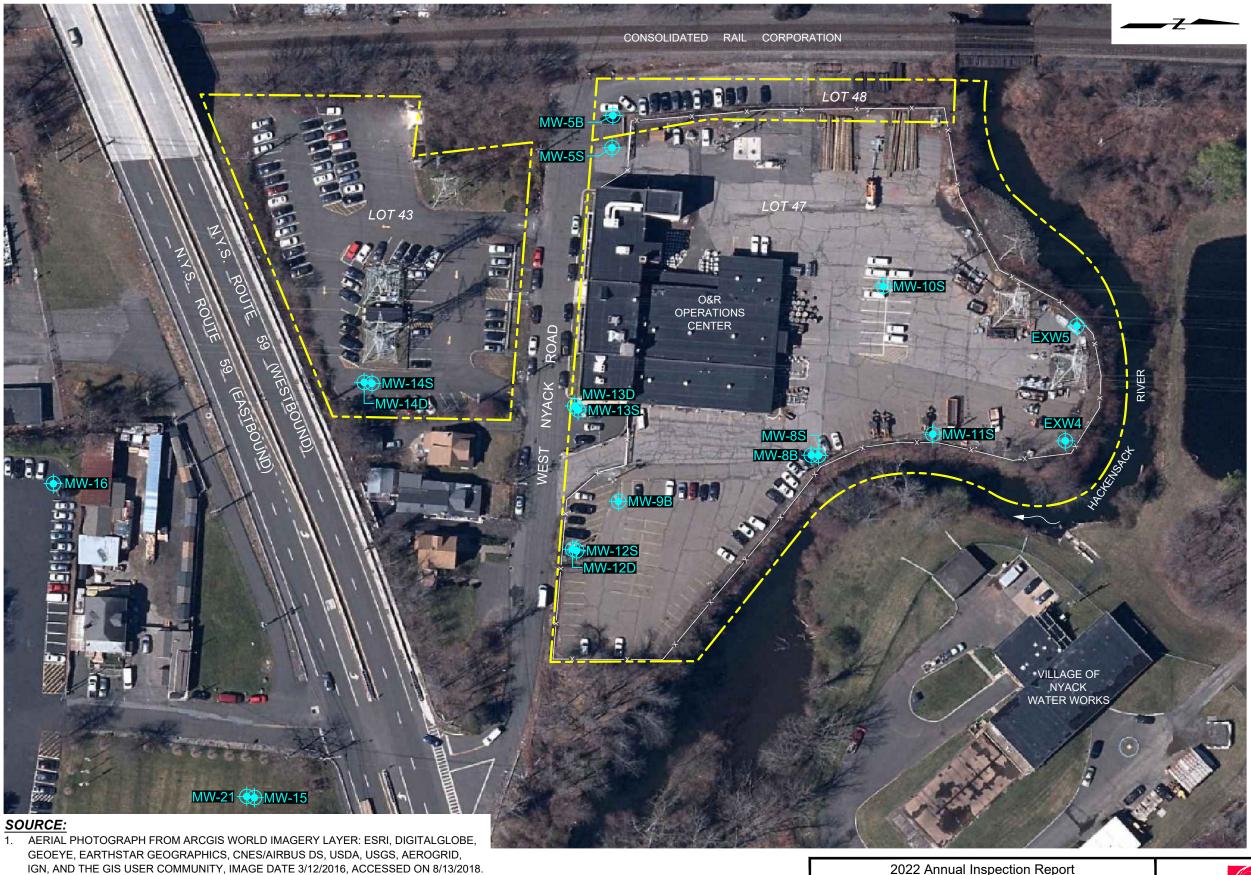


FIGURE 1-2: CURRENT SITE LAYOUT AND MONITORING WELL LOCATIONS, PREPARED

3. TAX MAP, SHEET 65.05, TOWN OF CLARKSON, ROCKLAND COUNTY, NEW YORK,

BY AECOM, DATE: 3/25/09, SCALE: 1" = 140'.

REVISED THROUGH FEBRUARY 28, 2018, SCAKE: 1" = 100'.

MONITORING WELL
PROPERTY BOUNDARY
CHAIN-LINK FENCE

2022 Annual Inspection Report West Nyack Operating Center West Nyack, New York

160

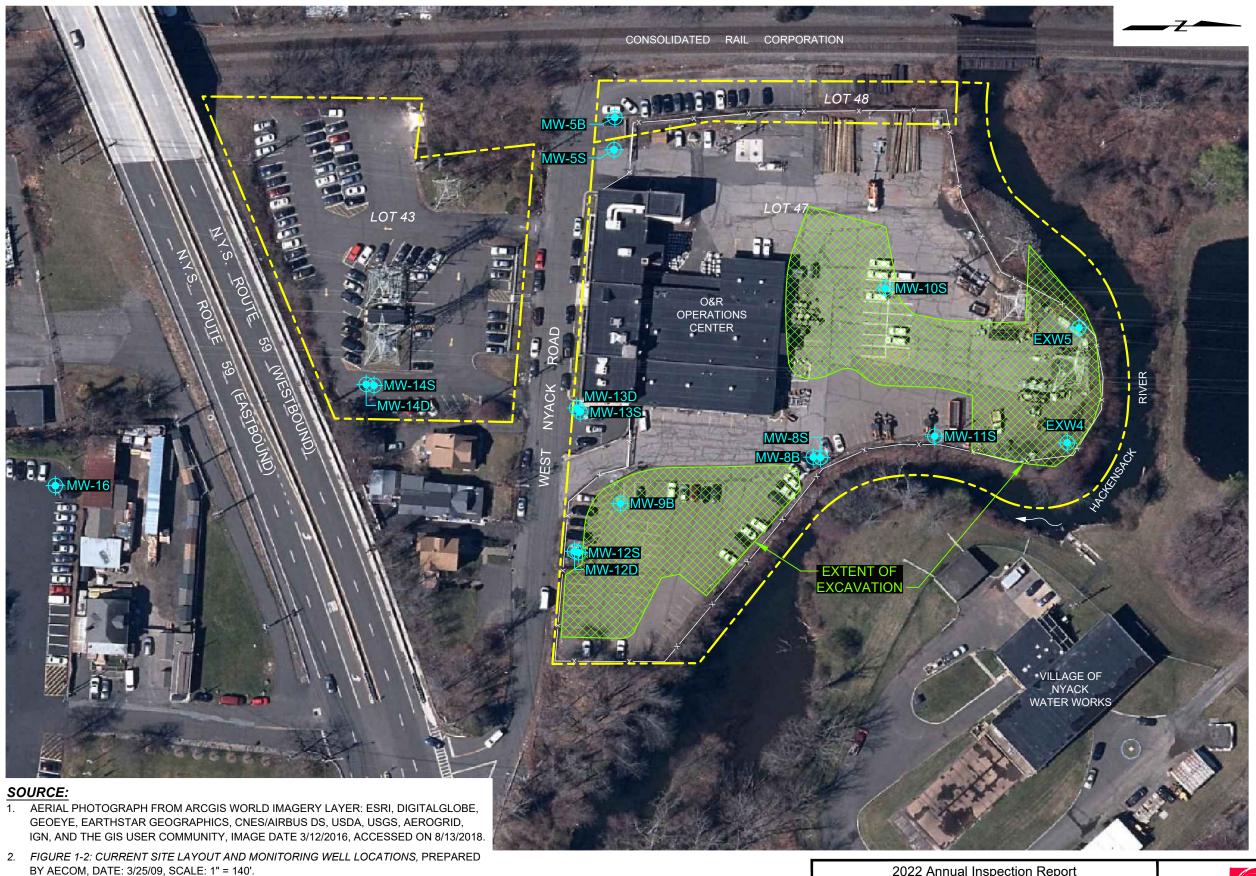
SCALE: 1" = 80'

Orange and Rockland Utilities, Inc. Spring Valley, New York GEI Consultants

SITE LAYOUT MAP

Project 2101712 August 2022

Fig



TAX MAP, SHEET 65.05, TOWN OF CLARKSON, ROCKLAND COUNTY, NEW YORK,

EXCAVATION EXTENTS FROM FIGURE 2: SITE LAYOUT, PREPARED BY AECOM, SCALE:

REVISED THROUGH FEBRUARY 28, 2018, SCAKE: 1" = 100'.

1" = 120', DATE: 2/15/2012.

LEGEND: MONITORING WELL



EXTENT OF EXCAVATION PROPERTY BOUNDARY CHAIN-LINK FENCE

2022 Annual Inspection Report West Nyack Operating Center West Nyack, New York

160

SCALE: 1" = 80'

Orange and Rockland Utilities, Inc. Spring Valley, New York

REMEDIAL ACTION **EXCAVATION EXTENT**

Project 2101712 August 2022

Fig. 3

2022 Annual Inspection Report West Nyack Operating Center 766 West Nyack Road, West Nyack, New York December 12, 2022

Appendix A

Annual Site-Wide Inspection and Cover System Monitoring Checklist

Annual Site-Wide Inspection and Soil Cover System Monitoring Checklist

Site: West Nyack Orange and Rockland (WNOC) Address: 766 West Nyack Road, West Nyack, NY 10994
Date of Inspection: 8/24/22
Weather: <u>79 F_Sunny</u>
Inspector: <i>Alina R. Salaiz</i> Company: <u>GEI Consultants, Inc., 455 Winding Brook Drive, Glastonbury, CT 06033</u>
O&R Representative: <u>Bobta Kim</u>
Are there any new or removed structures: YesNoComments: Does the site have proper up keep: YesNoComments: Evidence of unauthorized entry: YesNoComments: Damage to entrances/exits: YesNoComments: Any illegally dumped materials: YesNoComments: Any unusual odors: YesNoComments: Are any monitoring wells opened or damaged: YesNoComments: MW5B repaired today
Engineering Control Systems
The site engineering control system is a "soil cap" (composite cover system). Exposure to remaining contamination in soil/fill at the site is prevented by a composite cover system placed over the site. Following remedial actions, the excavated area was backfilled with a combination of clean fill and thermally-treated soils. A composite cover system was then placed over the site. This cover system consists of 12 inches of structural sub-base, 3 inches of binder course, and 1 ½ inches of wearing course placed in the excavated areas, and 3 inches of binder course and 1 ½ inches of wearing course placed over the majority of the remainder of the site. In the driveway areas that were already paved, Petro-Mats® were laid over the existing pavement and covered with approximately 1 ½ inches of wearing course. Additionally, several inches of oiled stone chips were placed beneath the transmission towers in the northernmost portion of the site, as well as in the pole rack and areas immediately adjacent to the rear of the building in order to protect the integrity of the cover system.
Note Integrity of:
Asphalt covered roads: Good Cracks Holes Stain/Seepage Comments: <i>Shallow, similar to</i> 2021
Concrete building slabs: Good) Cracks Holes Stain/Seepage Comments:
Clean soil cover/cap: Good Cracks Holes Stain/Seepage Comments: Oil stoned chip erosion on sloped area adjacent to building

Was maintenance or repair of the capped areas conducted? Yes (No) Comments:
Security Fencing around the site: Good Deficient Comments:
Institutional Controls (Site Restrictions)
The property may only be used for industrial or commercial use provided that the long-term Engineering and Institutional Controls included in the SMP are employed. Yes No
The property may not be used for a higher level of use such as unrestricted or restricted residential use without additional remediation and amendment of the deed restriction, as approved by the NYSDEC. Residential use observed? Yes No
All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP.
Was excavation conducted on site? Yes No Was the Excavation Work Plan followed? Yes No N/A Were the CAMP and EHASP followed? Yes No N/A Was there any construction or other disturbances of the cap conducted on site? Yes No Ask for documentation if yes.
The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use. Any potable/non-potable well usage? Yes No
The potential for vapor intrusion must be evaluated for any buildings developed in the area while groundwater impacts are still present and any potential impacts that are identified must be monitored or mitigated. New buildings in past year? Yes No
Was Soil Vapor Intrusion Sampling Conducted? Yes No
Vegetable gardens and farming on the property are prohibited Observed? Yes No
The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation of failure to comply with the SMP. Yes No Ask for documentation if yes.
Groundwater Sampling Was access granted to representatives of the Former Grant Hardware Facility Site for sampling?
N/A - None Requested

Were monitoring well repairs, replacement or decommissioning required? Yes No Roadbox for MW5B was repaired during 2022 inspection based on observations made in 2021.

Notifications Required Yes(No

60-day advance notice of any proposed changes in site use that are required under the terms of the Orders on Consent, 6NYCRR Part 375, and/or Environmental Conservation Law. Yes No

7-day advance notice of any proposed ground-intrusive activities pursuant to the Excavation Work Plan. Yes No

Notice within 48-hours of any damage or defect to the foundations structures that reduced or has the potential to reduce the effectiveness of the Engineering Control and likewise any action to be taken to mitigate the damage or defect. Yes No

Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of the Engineering Control in place at the site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public. Yes No

Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs. Yes No

Any change in the ownership of the site or the responsibility for implementing this SMP will include the following notifications:

At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the Orders on Consent, and all approved work plans and reports, including this SMP. Yes No

Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing. Yes No Ask for documentation if yes.

Contingency Plan

In the event of an emergency condition impacting the Engineering Control or building, O&R will follow its existing emergency procedures and evacuation plan for this facility. As appropriate, the fire department and other emergency response group will be notified immediately by telephone of the emergency.

Did an emergency occur in the past year? Yes No
Was the fire department or other emergency response group notified immediately?
Yes No

2022 Annual Inspection Report West Nyack Operating Center 766 West Nyack Road, West Nyack, New York December 12, 2022

Appendix B

Photo Documentation



PHOTOGRAPH 1
Charging Station and roadway - Frontal View Looking South



PHOTOGRAPH 2
Charging Station and roadway - Looking East



PHOTOGRAPH 3
Pavement and Fence –Looking Northeast, North of WNOC Building



PHOTOGRAPH 4
Entrance - Looking South, East of WNOC Building



PHOTOGRAPH 5
Pavement Northwest of Building Looking South Towards Exit



PHOTOGRAPH 6
Pavement Northwest of building looking South at oil chips near exit



PHOTOGRAPH 7
Pavement – Northwest of Building Looking Southeast



PHOTOGRAPH 8
Pavement West of Building looking South



PHOTOGRAPH 9
Base of Northwestern Transmission Tower – Oil Stone Chips Present



PHOTOGRAPH 10
Pole Rack Along Northwestern Fence Line



PHOTOGRAPH 11
Southwest Side of Building-Eastern Corner - Erosion of Oil Stone Chips and Vegetation



PHOTOGRAPH 12
Southwestern Side of Building – Oil Stone Chips Adjacent to Building with Vegetation



PHOTOGRAPH 13
Fixed Depression/Crack in Pavement Patch for Emergency Generator



PHOTOGRAPH 14Pavement on Lot 48 – West of Fence-line, East of RR, looking North



PHOTOGRAPH 15 Concrete inside building



PHOTOGRAPH 16 MW-5B Repaired Road box



Consulting
Engineers and
Scientists

September 2, 2021 Project 2101712

Mr. Raphael Rosenbaum Scientist - EH&S, MGP Remediation Consolidated Edison Company of New York 31-01 20th Avenue, Building 138, 2nd Floor Long Island City, NY 11105-2048

Dear Mr. Rosenbaum:

Re: 2021 Annual Inspection Report
West Nyack Operating Center
766 West Nyack Road, West Nyack, New York

GEI Consultants, Inc., P.C. has prepared this Annual Inspection Report on behalf of Consolidated Edison Company of New York (Con Edison) Orange and Rockland Utilities, Inc. (O&R) West Nyack Operating Center (WNOC). This letter documents the results of the annual Site-Wide Inspection and annual Composite Soil Cover System Monitoring that was performed on July 26, 2021, in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved WNOC Site Management Plan (SMP), dated July 2012.

Project Background

The site is located at 766 West Nyack Road, (formerly 180 West Nyack Road) in the Town of Clarkstown, Village of West Nyack, County of Rockland, New York, and is identified as Block 2 and Lots 47 and 48 on the Clarkstown Tax Map. Fig. 1 shows the site location. The site is an approximately 3-acre area bounded by Hackensack River to the north and east, Old Nyack Turnpike (also called West Nyack Road) to the south, and Consolidated Rail Corporation (Conrail) rail tracks to the west (Fig. 2).

O&R also owns Lot 43 south of West Nyack Road. This property is used for employee parking for the O&R facility and was not part of the remedial actions for the site. Lot 43 is not included in the engineering controls described in the Site Management Plan (SMP). South of the site, directly across Route 59, is the Grant Hardware Site (NYSDEC # 344031).

The O&R WNOC facility is currently used as a satellite service center for O&R line crews with garage facilities and a fueling station for utility service trucks, parking space for O&R vehicles, equipment storage, as well as office space. From the 1920s to approximately 1981, transformers, capacitors, and other electrical equipment were stored and repaired at the facility. Two underground storage tanks (USTs) were located in the center of the site and were used to store gasoline for fueling O&R's utility vehicles. One tank was identified as leaking and was removed in 1989. The second tank was removed during the 1997 to 1998 remedial actions.

The site was investigated and remediated in accordance with Order on Consent Index # W3-0508-93-12, Site # 344014, which was executed on August 2, 1994. A Remedial Investigation (Rust,

July 1996), and a Feasibility Study (Rust, July 1997) were performed by Rust Environment & Infrastructure and additional Supplemental Subsurface Investigation (Tetra Tech, 2005) were performed to characterize the nature and extent of contamination at the site. The results of these investigations indicated the subsurface soil in the vicinity of the UST area exhibited elevated petroleum-related volatile organic compound (VOC) concentrations. The depth of petroleum-impacted soil ranged from 1 foot to 14 feet. Limited Polychlorinated Biphenyl (PCB) impacts in subsurface soil were also identified.

The site was remediated in 1998 in accordance with the NYSDEC-approved Remedial Action Work Plan (RAWP) dated September 1997. A Record of Decision (ROD) was issued in October 1997. Remedial activities were initiated by O&R in November 1997, and completed in April 1998 (RUST, 1998). The remedial actions included:

- Excavation of 9,328 cubic yards of soil from areas on the site containing petroleumrelated VOCs and PCBs in excess of NYSDEC recommended cleanup levels (0.06 mg/kg benzene and 1.2 mg/kg xylene and 10 mg/kg PCBs). The extent of excavation is shown on Fig. 3.
- Placement of a composite cover system over remaining soil impacts at the site. This cap consists of 12 inches of structural sub-base, 3 inches of binder course, and 1 ½ inches of wearing course placed in the excavated areas, and 3 inches of binder course and 1 ½ inches of wearing course placed over the majority of the remainder of the site. In the driveway areas which were already paved, Petro- Mats® were laid over the existing pavement and covered with approximately 1 ½ inches of wearing course. Additionally, several inches of oiled stone chips were placed beneath the transmission towers in the northernmost portion of the site, as well as in the areas immediately adjacent to the rear of the building in order to protect the integrity of the asphalt cap. Security fencing was replaced around the site as well.
- Development and implementation of a Site Management Plan (SMP) for long term management of remaining contamination. The SMP was finalized in July 2012 (AECOM, 2012).

2021 Site-Wide Inspection

The SMP specifies that site-wide inspections be performed a minimum of once per year and a site-wide inspection form be completed. The form will compile sufficient information to assess the following:

- Compliance with all ICs, including site usage.
- An evaluation of the condition and continued effectiveness of EC.
- General site conditions at the time of the inspection.
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection.
- Confirm that site records are up to date.

The 2021 annual inspection was conducted by GEI on July 26, 2021. A copy of the Annual Site-Wide Inspection and Soil Cover System Monitoring Checklist is included in Appendix A.

There was no evidence of unauthorized entry, damage to entrances or exits, illegal dumping, or unusual odors. There were some housekeeping issues identified but none of the housekeeping

issues impacted the effectiveness of the institutional or engineering controls. The fence surrounding the site was intact, however, significant vegetation was present all along the fence line (Photograph 5, Appendix B).

Four electric car charging stations, a utility pole, an electric panel, and bollards to protect the charging stations were installed in the grass area along the southeastern fence line in November 2020 and completed in April 2021. Three stations, the pole, and the electric panel were installed along the easternmost portion of the southern fence line and one station was installed along the southernmost portion of the eastern fence line, as shown in Photographs 1 through 4 of Appendix B. This work was performed on the grass area between the fence and the pavement, and the pavement was not disturbed during installation. The subsurface work consisted of a 5-foot excavation for installation of the utility pole, 2.5-foot excavations for installation of charging station foundations and trenching approximately 1.5 feet deep for installation of subsurface electric lines. All excavation materials were used as backfill or spread at the location to return the area to original grade. No other restoration was performed. The as-built drawings are provided in Appendix C.

Soil Cover System Monitoring

The SMP specifies that a visual inspection of the complete soil cover system will be conducted on an annual basis concurrently with the site-wide inspection. Components of the soil cover system will be inspected for the following:

- Integrity of asphalt-covered roads
- Integrity of sidewalks
- Integrity of concrete building slabs
- Integrity of "clean soil cover/cap"

The following visual observations on the integrity of the soil cover system were made during the July 2021 site walk. The photographs referenced below are provided in Appendix B.

- Installation of four electric car charging stations was performed in the unpaved area adjacent to the asphalt cap along the southeastern fence line as described above. The asphalt cap was not disturbed during installation of the charging stations, bollards, utility pole or associated electrical components (Photographs 1 through 4).
- The condition of the asphalt cap in the parking and driveway areas throughout the site is improved subsequent to the 2016 re-paving. Some settlement cracks were identified within the asphalt during the 2020 inspection and have since then progressed. However, the cracks are surficial and there is no exposure to the sub-base or subsurface material. The overall integrity of the pavement is good (Photographs 5 through 10).
- The oil stone chips are present beneath the transmission towers. The integrity of the cap preventing exposure to subsurface soil at these locations appears to be intact however the oil stone chips are starting to erode. There is vegetation and some equipment and debris in these areas. Replacement of oil chips in this area should be considered to prevent further erosion and exposure of soil (Photograph 11).
- The oil stone chips are present beneath the pole rack along the northwestern fence line. There is vegetation present. (Photograph 12).

• Consistent with previous inspections, there is erosion of the oil stone chips on the sloped areas adjacent to the southwestern side of the building. Brown soil is exposed in this area where there appears to be further erosion of the concrete platform above the slope (Photograph 12). Vegetation was present during the 2021 inspection although not as overgrown as the 2020 inspection (Photographs 13 and 14). The oil stone chips, asphalt and concrete are still present and preventing exposure to the underlying soil at most locations. Since the oil chips were placed in the rear of the building to protect the integrity of the asphalt cap, future maintenance, and replacement of the oil chips in this area should be performed to prevent further erosion.

-4-

- The pavement patch for the emergency generator installed in 2017 has been repaired and is in good condition. Settlement along the edges of a subsurface structure and a small depression/crack in the southwest area of the pavement identified in 2018, 2019 and 2020 has since been fixed and depression has patched with new asphalt (Photograph 15). The subsurface soil is not exposed.
- Cracks that were present in the concrete floor of the garage on the eastern side of the building that was reported in the 2020 inspection have been repaired with new concrete. (Photograph 16).
- Minor cracks were observed within the pavement on Lot 48 west of the fence-line and east of the RR consistent with observations during the 2020 inspection (Photograph 17). There is no exposure to subsurface soil.
- Groundwater monitoring well MW-5B located outside the fence line on the southern portion of Lot 48 has been damaged. The protective casing is damaged and requires replacement. The PVC pipe was slightly cracked but still intact. (Photograph 18).

Compliance with SMP

The institutional and engineering controls established in the SMP were complied with during this reporting period. Annual site-wide inspections and annual cover system monitoring will be performed in accordance with the SMP. The results of the 2019 through 2023 annual site-wide inspections and annual cover system monitoring will be provided to the NYSDEC in the August 2023 Periodic Review Report (PRR).

IC/EC Compliance

The institutional and engineering controls have proved effective in preventing uncontrolled exposure to remaining subsurface impacts beneath the asphalt cap on site. The asphalt cover system was intact. Some exposure of soil due to erosion of oil stoned chips on a sloped area adjacent to the building was identified.

Future Periodic Review Report Submittals

In accordance with the SMP, a PRR will be submitted to the Department every fifth year; the next PRR submittal will be in August 2023. The next site-wide inspection and cover system monitoring will be performed in early July 2022. The PRR will include the results of the 2019 through 2023 annual site-wide inspection and cover system monitoring reports.

If you have any questions, please feel free to contact us at (607) 216-8958.

Sincerely,

GEI CONSULTANTS, INC., P.C.

Kathleen Slimon, P.E., LEP

Project Manager

Matthew O'Neil, P.E. Senior Engineer

Enclosures:

Figures

- Site Location Map
- 2 Site Layout Map
- Remedial Action Excavation Extent

Appendices

- A. Annual Site-Wide Inspection and Soil Cover System Monitoring Checklist
- B. Photo Documentation
- C. (Draft) Electrical Charging Station As-Built Drawings

KS/JE:lc
B:\Working\O&R\2101712 WNOC 2021 Site Inspection\2021 Eng Inspection\2021 Inspection Report\2021 WNOC Inspection Report.

Figures

Appendix A

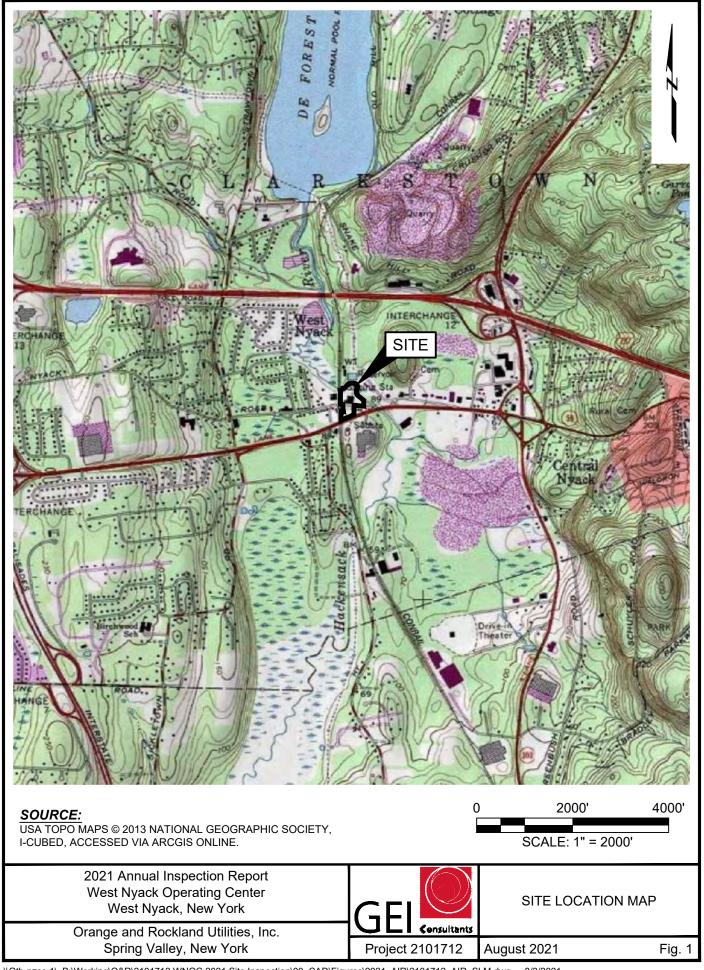
Annual Site-Wide Inspection and Soil Cover System Monitoring Checklist

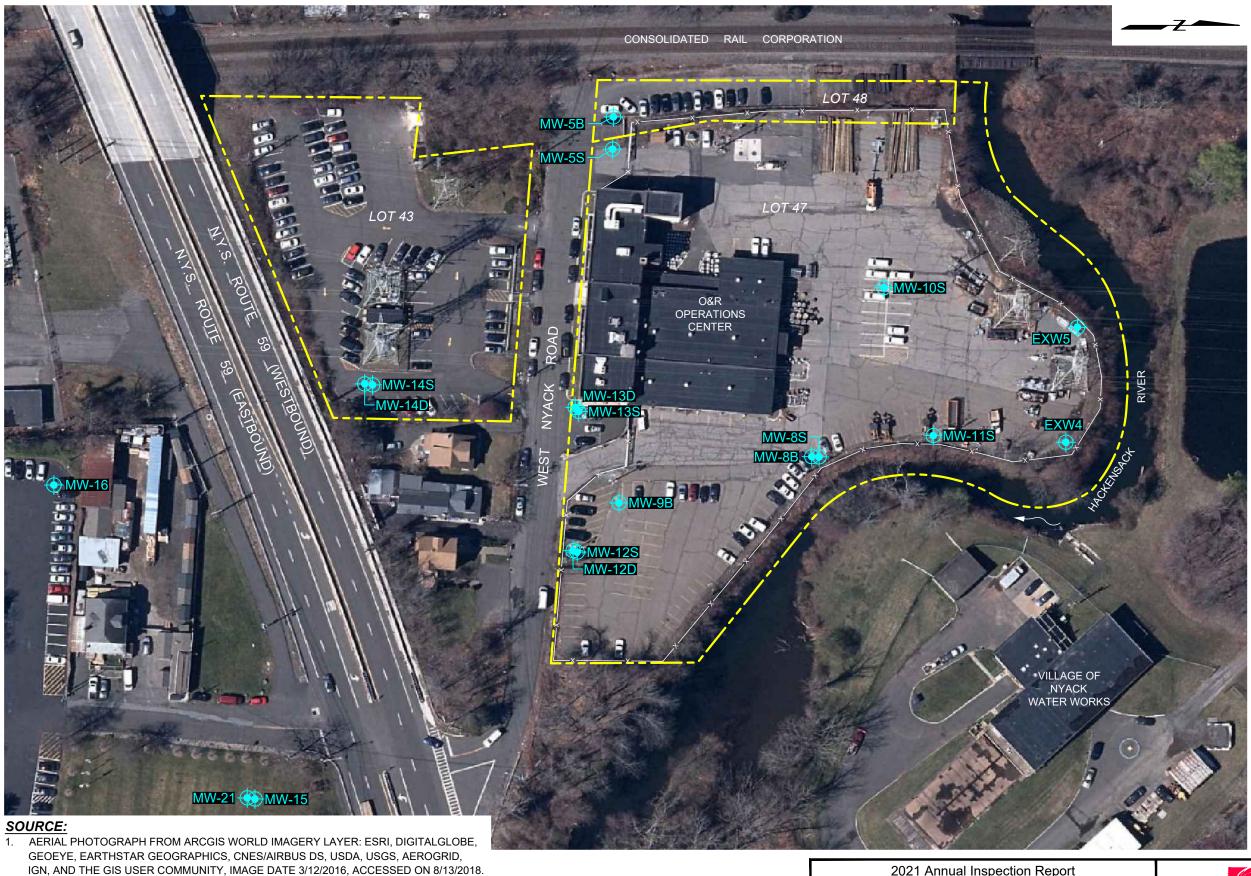
Appendix B

Photo Documentation

Appendix C

(Draft) Electrical Charging Station As-Built Drawings





SCALE: 1" = 80'

SITE LAYOUT MAP

August 2021

LEGEND:

MONITORING WELL PROPERTY BOUNDARY

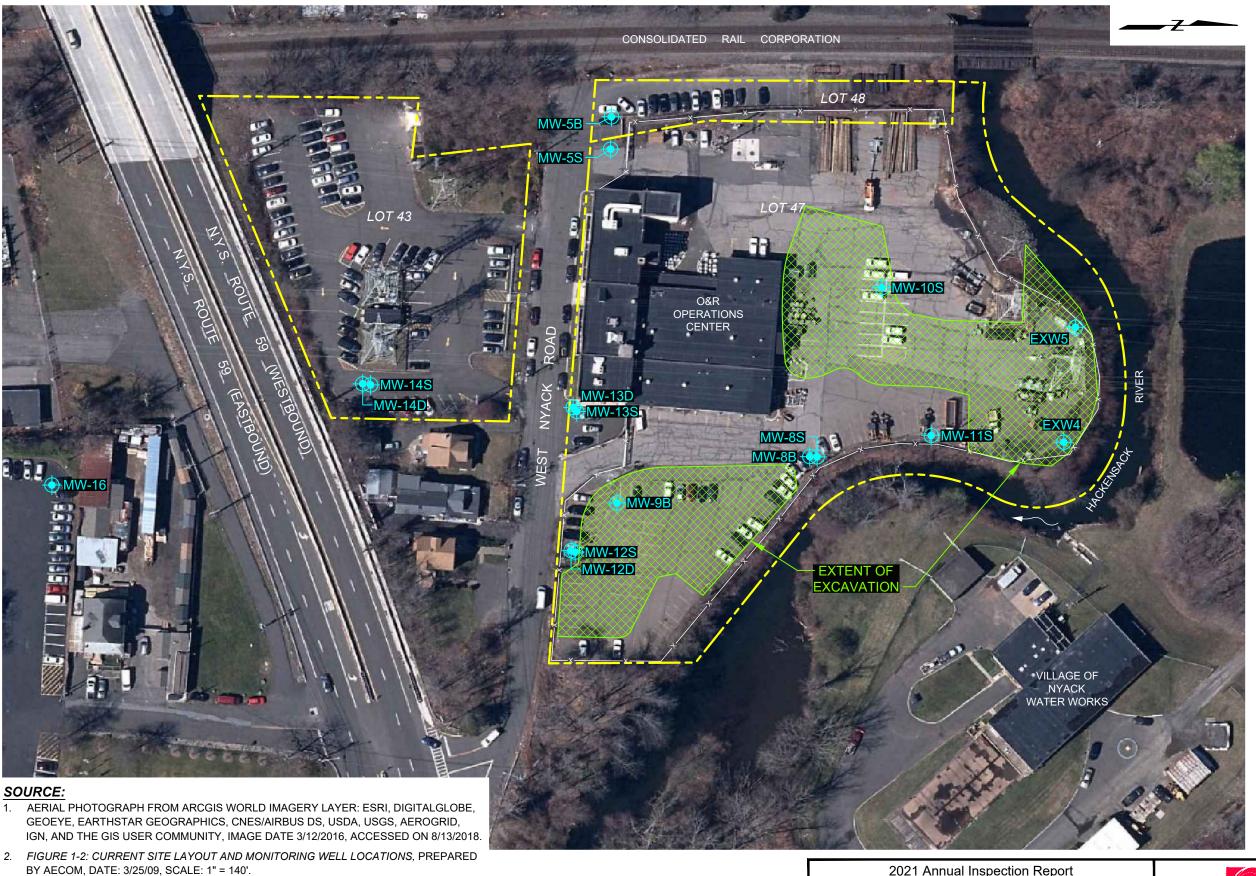
CHAIN-LINK FENCE

Fig. 2

BY AECOM, DATE: 3/25/09, SCALE: 1" = 140'.

FIGURE 1-2: CURRENT SITE LAYOUT AND MONITORING WELL LOCATIONS, PREPARED

Project 2101712



3. TAX MAP, SHEET 65.05, TOWN OF CLARKSON, ROCKLAND COUNTY, NEW YORK,

EXCAVATION EXTENTS FROM FIGURE 2: SITE LAYOUT, PREPARED BY AECOM, SCALE:

REVISED THROUGH FEBRUARY 28, 2018, SCAKE: 1" = 100'.

1" = 120', DATE: 2/15/2012.

MONITORING WELL

EXTENT OF EXCAVATION

PROPERTY BOUNDARY

CHAIN-LINK FENCE

2021 Annual Inspection Report West Nyack Operating Center West Nyack, New York

160

SCALE: 1" = 80'

Orange and Rockland Utilities, Inc. Spring Valley, New York



REMEDIAL ACTION EXCAVATION EXTENT

Project 2101712 August 2021

st 2021 Fig. 3

Annual Site-Wide Inspection and Soil Cover System Monitoring Checklist

Site: West Nyack Orange and Rockland (WNOC) Address: 766 West Nyack Road, West Nyack, NY 10994
Date of Inspection: <u>7/26/2021</u> 8:45 am
Weather: Cloudy 72°F
Inspector: Alina Salaiz Company: GEI Consultants, Inc., 455 Winding Brook Drive, Glastonbury, CT 06033
O&R Representative: <u>Gwen Keeble</u>
General Site Conditions Are there any new or removed structures: Yes X No Does the site have proper up keep: Yes X No Does The site have proper up keep: Yes X No Does The site have proper up keep: Yes X No Does The site have proper up keep:
Evidence of unauthorized entry: Yes No _X_
Damage to entrances/exits: Yes No _X_
Any illegally dumped materials: Yes No _X_
Any unusual odors: Yes No X
Are any monitoring wells opened or damaged: Yes X No MW-5 lid smashed, crack to PVC pipe
Engineering Control Systems
The site engineering control systems is a soil cap (composite cover system). Exposure to remaining contamination in soil/fill at the site is prevented by a soil cover system placed over the site. Following remedial actions, the excavated area was backfilled with a combination of clean fill and thermally-treated soils. An impermeable asphalt cap was then placed over the entire site. This cap consists of 12 inches of structural sub-base, 3 inches of binder course, and 1 ½ inches of wearing course placed in the excavated areas, and 3 inches of binder course and 1 ½ inches of wearing course placed over the majority of the remainder of the site. In the driveway areas which were already paved, Petro-Mats® were laid over the existing pavement and covered with approximately 1 ½ inches of wearing course. Additionally, several inches of oiled stone chips were placed beneath the transmission towers in the northernmost portion of the site, as well as in the areas immediately adjacent to the rear of the building in order to protect the integrity of the asphalt cap.
Note Integrity of: Asphalt covered roads: Good) Cracks Holes Stain/Seepage Some cracks but not through to ground. Asphalt near generator repaired.
Concrete building slabs: Good Cracks Holes Stain/Seepage Concrete at entrance to garage repaired/replaced
Clean soil cover/cap: Good Cracks Holes Stain/Seepage Oil stoned chip erosion on sloped area adjacent to building
Was maintenance or repair of the capped areas conducted? Yes No Concrete by garage entrance and asphalt by generator repaired as noted above
Integrity of Security Fencing around the site: Fencing in place.

Institutional Controls (Site Restrictions)

The property may only be used for industrial or commercial use provided that the long-term Engineering and Institutional Controls included in the SMP are employed. Yes No

The property may not be used for a higher level of use such as unrestricted or restricted residential use without additional remediation and amendment of the deed restriction, as approved by the NYSDEC. Residential use observed? Yes No

All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP.

Electric Car Charging Station & Utility Pole

Was excavation conducted on site? (Yes) No

Was the Excavation Work Plan followed? Yes No Were the CAMP and EHASP followed? Yes (No)

Excavation performed adjacent to (outside of) asphalt cap area

Was there any construction or other disturbances of the cap conducted on site? Yes No Ask for documentation if yes.

The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use. Any potable/non-potable well usage? Yes No

The potential for vapor intrusion must be evaluated for any buildings developed in the area while groundwater impacts are still present and any potential impacts that are identified must be monitored or mitigated. New buildings in past year? Yes (No)

Was Soil Vapor Intrusion Sampling Conducted? Yes No

Vegetable gardens and farming on the property are prohibited Observed? Yes No

Groundwater Sampling

Was access granted to representatives of the Former Grant Hardware Facility Site for sampling? None Requested

Were monitoring well repairs, replacement or decommissioning required? Yes No

Notifications Required Yes(No

60-day advance notice of any proposed changes in site use that are required under the terms of the Orders on Consent, 6NYCRR Part 375, and/or Environmental Conservation Law. Yes No

7-day advance notice of any proposed ground-intrusive activities pursuant to the Excavation Work Plan. Yes No

Notice within 48-hours of any damage or defect to the foundations structures that reduced or has the potential to reduce the effectiveness of the Engineering Control and likewise any action to be taken to mitigate the damage or defect. Yes No

Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of the Engineering Control in place at the site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public. Yes (No)

Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs. Yes No

Any change in the ownership of the site or the responsibility for implementing this SMP will include the following notifications:

At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the Orders on Consent, and all approved work plans and reports, including this SMP. Yes No

Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing. Yes No Ask for documentation if yes.

Contingency Plan

In the event of an emergency condition impacting the Engineering Control or building, O&R will follow its existing emergency procedures and evacuation plan for this facility. As appropriate, the fire department and other emergency response group will be notified immediately by telephone of the emergency.

Did an emergency occur in the past year? Yes No
Was the fire department or other emergency response group notified immediately?
Yes No



PHOTOGRAPH 1
Charging Station - Frontal View Looking South



PHOTOGRAPH 2
Charging Station - Looking East

Appendix B
Photo Documentation – July 2021 Site Inspection
O&R West Nyack Operations Center



PHOTOGRAPH 3
Close-Up Charger Looking East



PHOTOGRAPH 4
Charging Station Utility Pole



PHOTOGRAPH 5
Pavement and Fence –Looking Northeast, North of WNOC Building



PHOTOGRAPH 6
Entrance - Looking South, East of WNOC Building

Appendix B
Photo Documentation – July 2021 Site Inspection
O&R West Nyack Operations Center



PHOTOGRAPH 7
Pavement Northwest of Building Looking South Towards Exit



PHOTOGRAPH 8
Pavement Northwest of building looking North



PHOTOGRAPH 9
Pavement – Northwest of Building Looking Southeast



PHOTOGRAPH 10
Pavement West of Building looking South



PHOTOGRAPH 11
Base of Northwestern Transmission Tower – Oil Stone Chips Present



PHOTOGRAPH 12
Pole Rack Along Northwestern Fence Line



PHOTOGRAPH 13
Southwest Side of Building-Eastern Corner - Erosion of Oil Stone Chips and Vegetation



PHOTOGRAPH 14
Southwestern Side of Building – Oil Stone Chips Adjacent to Building with Vegetation



PHOTOGRAPH 15
Fixed Depression/Crack in Pavement Patch for Emergency Generator



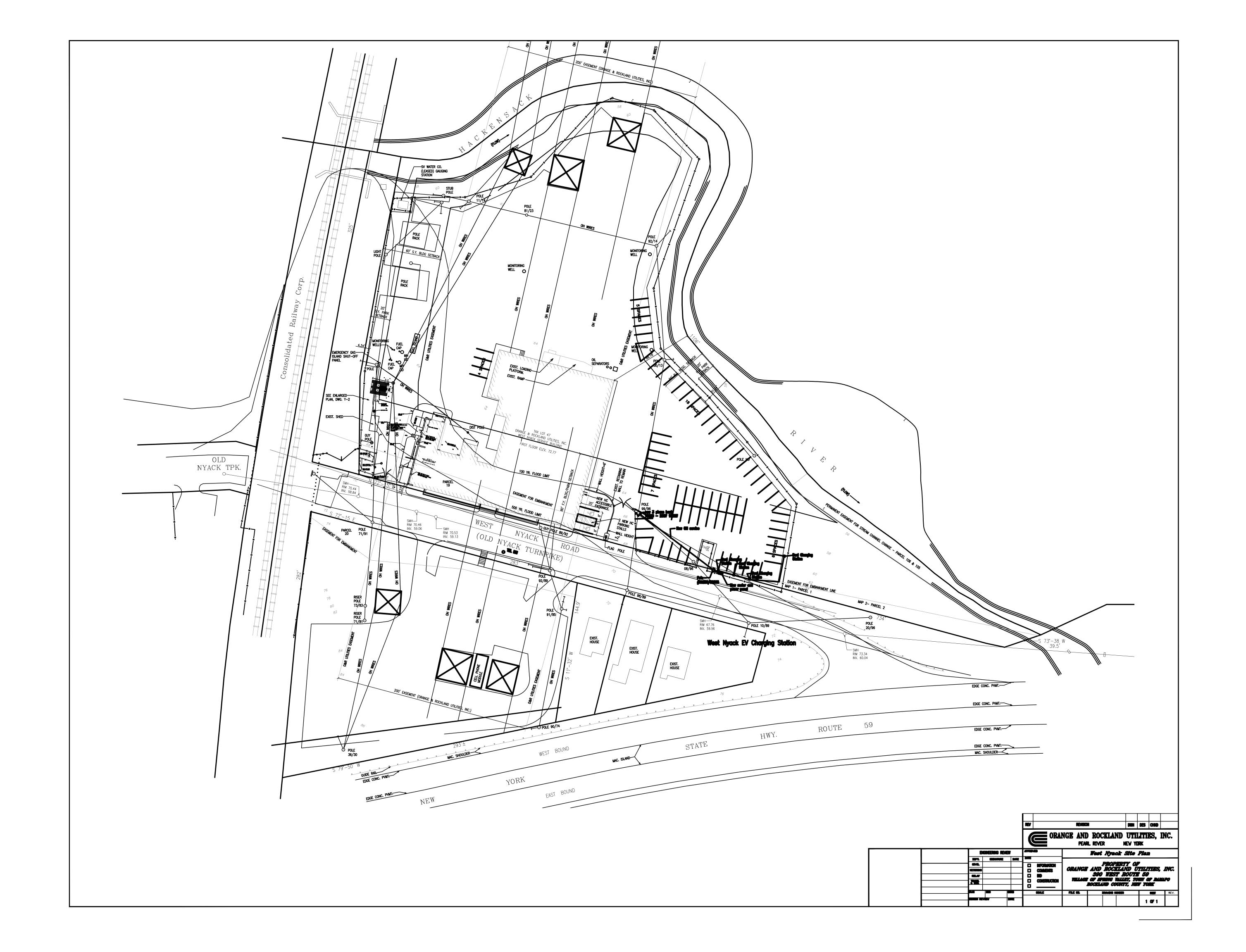
PHOTOGRAPH 16
Cracks in Concrete Floor Fixed of Garage on East Side of Building



PHOTOGRAPH 17Pavement on Lot 48 – West of Fence-line, East of RR, looking North



PHOTOGRAPH 18 MW-5B – Smashed Lid





September 30, 2020 GEI Project 2003559

Consulting
Engineers and
Scientists

Mr. Raphael Rosenbaum Scientist - EH&S, MGP Remediation Consolidated Edison Company of New York 31-01 20th Avenue, Building 138, 2nd Floor Long Island City, NY 11105-2048

Re: 2020 Annual Inspection Report West Nyack Operating Center 766 West Nyack Road, West Nyack, NY

Dear Mr. Rosenbaum:

GEI Consultants, Inc., P.C. (GEI) has prepared this Annual Inspection Report on behalf of Consolidated Edison Company of New York (Con Edison) Orange and Rockland Utilities, Inc. (O&R) West Nyack Operating Center (WNOC). This letter documents the results of the annual Site-Wide Inspection and annual Composite Soil Cover System Monitoring that was performed on August 21, 2020 in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved WNOC Site Management Plan (SMP), dated July 2012.

Project Background

The site is located at 766 West Nyack Rd., (formerly 180 West Nyack Rd.) in the Town of Clarkstown, Village of West Nyack, County of Rockland, New York, and is identified as Block 2 and Lots 47 and 48 on the Clarkstown Tax Map. Figure 1 shows the site location. The site is an approximately 3-acre area bounded by Hackensack River to the north and east, Old Nyack Turnpike (also called West Nyack Road) to the south, and Consolidated Rail Corporation (Conrail) rail tracks to the west (Figure 2).

O&R also owns Lot 43 south of West Nyack Road. This property is used for employee parking for the O&R facility and was not part of the remedial actions for the site. It is not included in the engineering controls described in the Site Management Plan (SMP). South of the site, directly across Route 59, is the Grant Hardware Site (NYSDEC # 344031).

The O&R WNOC facility is currently used as a satellite service center for O&R line crews with garage facilities and a fueling station for utility service trucks, parking space for O&R vehicles, equipment storage, as well as office space. From the 1920s to approximately 1981, transformers, capacitors, and other electrical equipment were stored and repaired at the facility. Two underground storage tanks (USTs) were located in the center of the site and were used to store gasoline for fueling O&R's utility vehicles. One tank was identified as leaking and was removed in 1989. The second tank was removed during the 1997 to 1998 remedial actions.

The site was investigated and remediated in accordance with Order on Consent Index # W3-0508-93-12, Site # 344014, which was executed on August 2, 1994. A Remedial Investigation (RUST, July 1996), a Feasibility Study (RUST, July 1997), and additional Supplemental Subsurface Investigation (Tetra Tech, 2005) were performed to characterize the nature and extent of

contamination at the site. The results of these investigations indicated the subsurface soil in the vicinity of the UST area exhibited elevated petroleum-related volatile organic compound (VOC) concentrations. The depth of petroleum-impacted soil ranged from 1 foot to 14 feet. Limited Polychlorinated Biphenyl (PCB) impacts in subsurface soil were also identified.

The site was remediated in 1998 in accordance with the NYSDEC-approved Remedial Action Work Plan (RAWP) dated September 1997. A Record of Decision (ROD) was issued in October 1997. Remedial activities were initiated by O&R in November 1997, and completed in April 1998 (RUST, 1998). The remedial actions included:

- Excavation of 9,328 cubic yards of soil from areas on the site containing petroleum-related VOCs and PCBs in excess of NYSDEC recommended cleanup levels (0.06 mg/kg benzene and 1.2 mg/kg xylene and 10 mg/kg PCBs). The extent of excavation is shown on Figure 3.
- Placement of a composite cover system over remaining soil impacts at the site. This cap consists of 12 inches of structural sub-base, 3 inches of binder course, and 1 ½ inches of wearing course placed in the excavated areas, and 3 inches of binder course and 1 ½ inches of wearing course placed over the majority of the remainder of the site. In the driveway areas which were already paved, Petro- Mats® were laid over the existing pavement and covered with approximately 1 ½ inches of wearing course. Additionally, several inches of oiled stone chips were placed beneath the transmission towers in the northernmost portion of the site, as well as in the areas immediately adjacent to the rear of the building in order to protect the integrity of the asphalt cap. Security fencing was replaced around the site as well.
- Development and implementation of a Site Management Plan (SMP) for long term management of remaining contamination. The SMP was finalized in July 2012 (AECOM, 2012).

2020 Site-Wide Inspection

The SMP specifies that site-wide inspections be performed a minimum of once per year and a site-wide inspection form be completed. The form will compile sufficient information to assess the following:

- Compliance with all ICs, including site usage.
- An evaluation of the condition and continued effectiveness of EC.
- General site conditions at the time of the inspection.
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection.
- Confirm that site records are up to date.

The 2020 annual inspection was conducted by GEI on August 21, 2020. A copy of the Annual Site-Wide Inspection and Soil Cover System Monitoring Checklist is included in Appendix A.

There was no evidence of unauthorized entry, damage to entrances or exits, illegal dumping, or unusual odors. The Chief Engineer for the O&R Facilities confirmed there were no excavations, paving or crack repair at the WNOC in the past year. There were some minor housekeeping issues identified but none of the housekeeping issues impacted the effectiveness of the institutional or engineering controls. Miscellaneous equipment is present beneath the transmission towers in the

northern area of the site (Photograph 4 [Appendix B]). Significant vegetation was present on portions of the fence line and on the oiled stone chip surfaces adjacent to the building and beneath the transmission towers and pole racks (Photographs 4, 5 and 6).

Soil Cover System Monitoring

The SMP specifies that a visual inspection of the complete soil cover system will be conducted on an annual basis concurrently with the site-wide inspection. Components of the soil cover system will be inspected for the following:

- Integrity of asphalt-covered roads
- Integrity of sidewalks
- Integrity of concrete building slabs
- Integrity of "clean soil cover/cap"

The following visual observations on the integrity of the soil cover system were made during the August 2020 site walk. The photographs referenced below are provided in Appendix B.

- The condition of the asphalt cap in the parking and driveway areas throughout the site is improved subsequent to the 2016 re-paving. Some settlement cracks were identified within the asphalt that were not identified during the 2019 inspection. However, the cracks are surficial and there is no exposure to the sub-base or subsurface material. The overall integrity of the pavement is good (Photographs 1 through 3).
- The oil stone chips are present beneath the transmission towers. There is significant vegetation and debris in these areas. The integrity of the cap preventing exposure to subsurface soil at these locations appears to be intact (Photograph 4).
- Consistent with previous inspections, there is some erosion of the oil stone chips on the sloped areas adjacent to the southwestern side of the building and cracked pavement was observed along the top of the sloped area adjacent to the building. There is also erosion of a concrete platform above the slope in this area; conditions are consistent with those documented in 2013, 2018 and 2019 however, additional vegetation appeared to be present during the 2020 inspection (Photograph 6). The oil stone chips, asphalt and concrete are still present and preventing exposure to the underlying soil. Since the oil chips were placed in the rear of the building to protect the integrity of the asphalt cap, future maintenance of this area should be considered to prevent further erosion.
- The pavement patch for the emergency generator installed in 2017 is in fair condition with the exception of settlement along the edges of a subsurface structure and a small depression/crack in the southwest area of the pavement identified in 2018 and 2019 (Photograph 8). The subsurface soil is not exposed. The crack/depression appears slightly larger than observed in 2019. Repair of the depression/crack should be considered to prevent future worsening conditions.
- There are cracks present in the concrete floor of the garage on the eastern side of the building (Photograph 9). The cracks are consistent with those documented during previous inspections. There is no exposure to subsurface soil. Repair of the cracks should be considered to prevent worsening conditions.
- Minor cracks were observed within the pavement on Lot 48 west of the fence-line and east of the RR that were not observed during the 2019 inspection (Photograph 10). There is no exposure to subsurface soil.

Compliance with SMP

The institutional and engineering controls established in the SMP were complied with during this reporting period. Annual site-wide inspections and annual cover system monitoring will be performed in accordance with the SMP. The results of the 2019 through 2023 annual site-wide inspections and annual cover system monitoring will be provided to the NYSDEC in the August 2023 Periodic Review Report (PRR).

IC/EC Compliance

The institutional and engineering controls have proved effective in preventing uncontrolled exposure to remaining subsurface impacts on site. The site cover system was intact and no exposure to subsurface soil was identified.

Future Periodic Review Report Submittals

In accordance with the SMP, a PRR will be submitted to the Department every fifth year; the next PRR submittal will be in August 2023. The next site-wide inspection and cover system monitoring will be performed in early July 2021. The PRR will include the results of the 2019 through 2023 annual site-wide inspection and cover system monitoring reports.

If you have any questions, please feel free to contact us at (607) 216-8958.

Sincerely,

GEI CONSULTANTS, INC., P.C.

Kathleen Slimon, P.E., LEP

Project Manager

Matthew O'Neil, P.E. Senior Engineer

Enclosures:

Figures

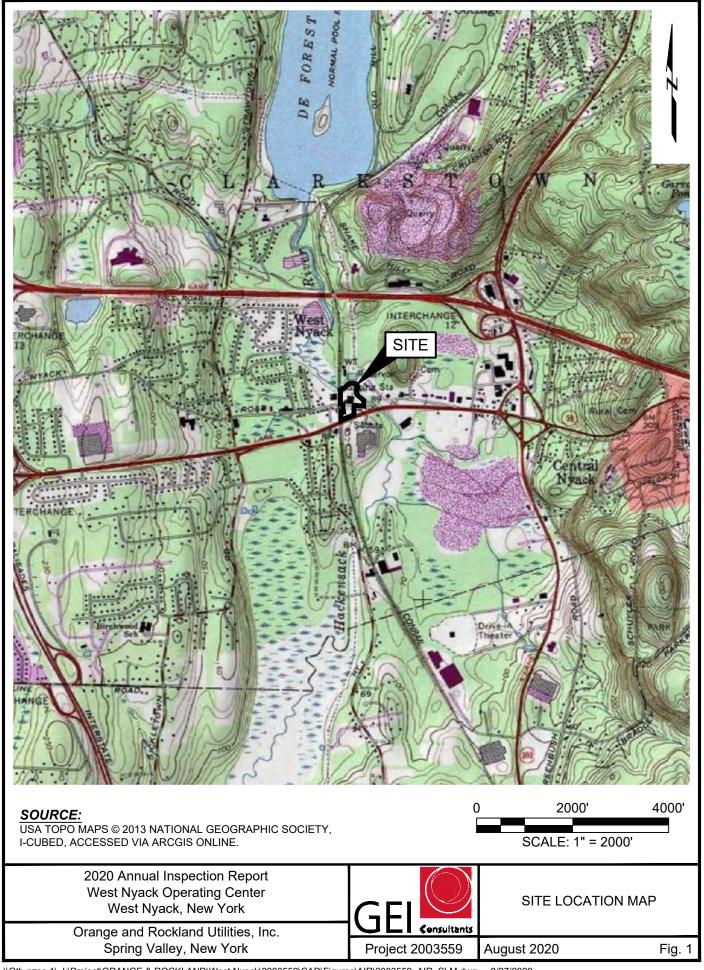
- 1 Site Location Map
- 2 Site Layout Map
- 3 Remedial Action Excavation Extent

Appendices

- A Annual Site-Wide Inspection and Soil Cover System Monitoring Checklist
- B Photo Documentation

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Figures



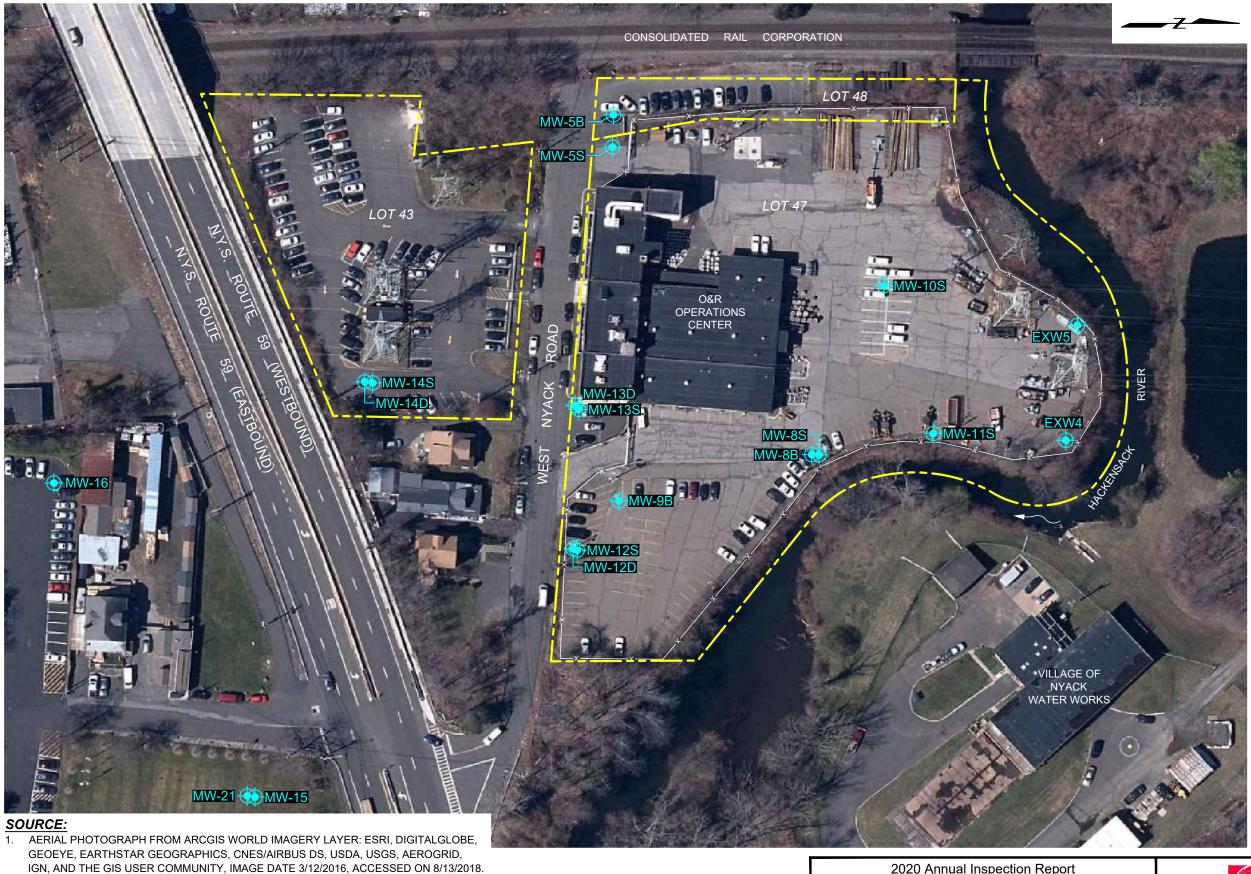


FIGURE 1-2: CURRENT SITE LAYOUT AND MONITORING WELL LOCATIONS, PREPARED

3. TAX MAP, SHEET 65.05, TOWN OF CLARKSON, ROCKLAND COUNTY, NEW YORK,

BY AECOM, DATE: 3/25/09, SCALE: 1" = 140'.

REVISED THROUGH FEBRUARY 28, 2018, SCAKE: 1" = 100'.

MONITORING WELL
PROPERTY BOUNDARY
CHAIN-LINK FENCE

2020 Annual Inspection Report West Nyack Operating Center West Nyack, New York

160

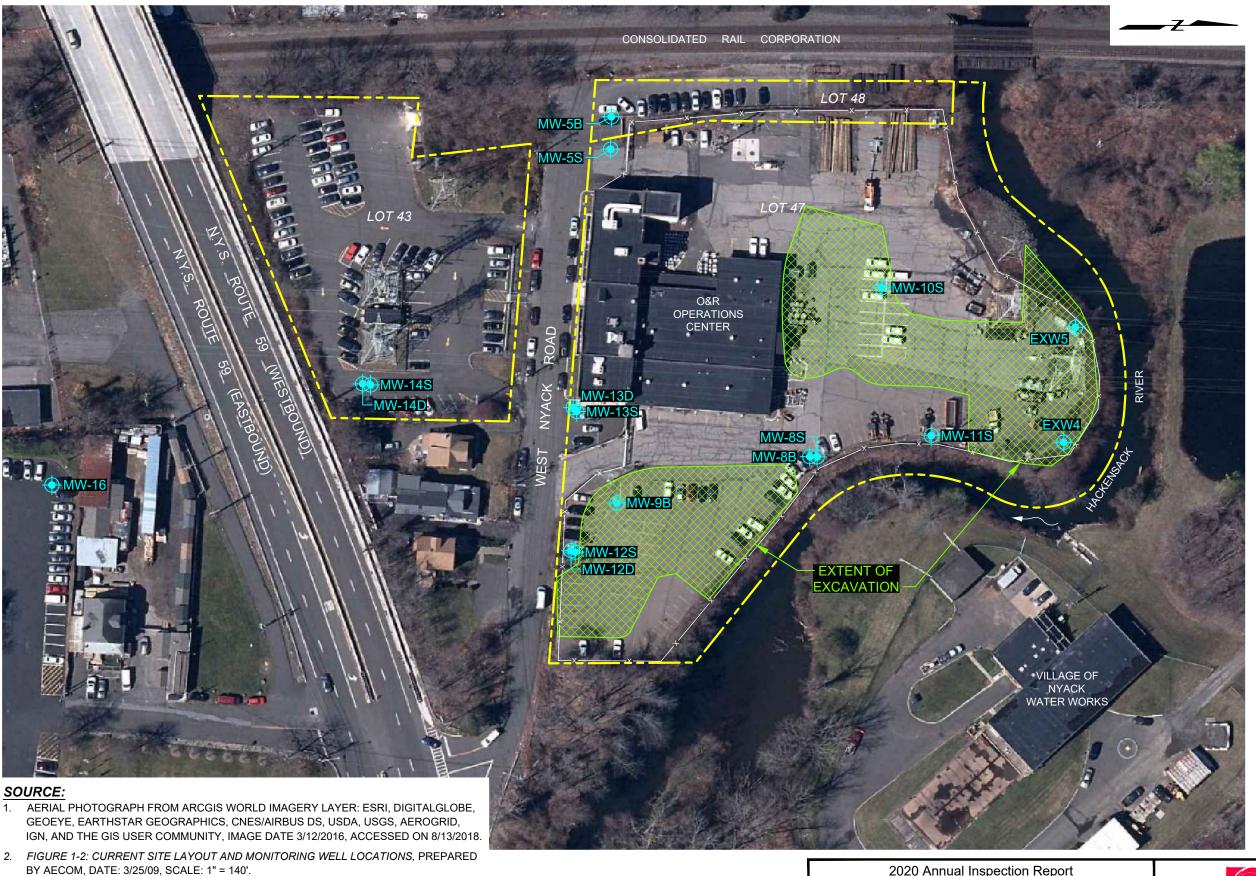
SCALE: 1" = 80'

Orange and Rockland Utilities, Inc. Spring Valley, New York GEI Consultants
Project 2003559

SITE LAYOUT MAP

559 August 2020

Fig. 2



3. TAX MAP, SHEET 65.05, TOWN OF CLARKSON, ROCKLAND COUNTY, NEW YORK,

EXCAVATION EXTENTS FROM FIGURE 2: SITE LAYOUT, PREPARED BY AECOM, SCALE:

REVISED THROUGH FEBRUARY 28, 2018, SCAKE: 1" = 100'.

1" = 120', DATE: 2/15/2012.

MONITORING WELL

EXTENT OF EXCAVATION

PROPERTY BOUNDARY

CHAIN-LINK FENCE

2020 Annual Inspection Report West Nyack Operating Center West Nyack, New York

160

SCALE: 1" = 80'

Orange and Rockland Utilities, Inc. Spring Valley, New York



REMEDIAL ACTION EXCAVATION EXTENT

9 August 2020

Fig. 3

Appendix A Annual Site-Wide Inspection and Soil Cover System Monitoring Checklist

Annual Site-Wide Inspection and Soil Cover System Monitoring Checklist

Site: West Nyack Orange and Rockland (WNOC) Address: 766 West Nyack Road, West Nyack, NY 10994
Date of Inspection: 8/21/2020
Weather: Sunny 70's
Inspector: Kathleen Slimon Company: GEI Consultants, Inc., 455 Winding Brook Drive, Glastonbury, CT 06033
O&R Representative: Gwen Keeble
General Site Conditions
Are there any new or removed structures: Yes No X
Does the site have proper up keep: Yes_X_ No
Evidence of unauthorized entry: YesNo \underline{X}
Damage to entrances/exits: YesNo X_
Any illegally dumped materials: YesNo _X
Any unusual odors: Yes No _X
Are any monitoring wells opened or damaged: YesNo _X
Engineering Control Systems
The site engineering control systems is a soil cap (composite cover system). Exposure to remaining contamination in soil/fill at the site is prevented by a soil cover system placed over the site. Following remedial actions, the excavated area was backfilled with a combination of clean fill and thermally-treated soils. An impermeable asphalt cap was then placed over the entire site. This cap consists of 12 inches of structural sub-base, 3 inches of binder course, and 1 ½ inches of wearing course placed in the excavated areas, and 3 inches of binder course and 1 ½ inches of wearing course placed over the majority of the remainder of the site. In the driveway areas which were already paved, Petro-Mats® were laid over the existing pavement and covered with approximately 1 ½ inches of wearing course. Additionally, several inches of oiled stone chips were placed beneath the transmission towers in the northernmost portion of the site, as well as in the areas immediately adjacent to the rear of the building in order to protect the integrity of the asphalt cap.
Note Integrity of:
Asphalt covered roads Good Cracks Holes Stain/Seepage Minor Surface Cracks
Concrete building slabs: Good Cracks Holes Stain/Seepage Cracks identified at entryway to garage
Clean soil cover/cap: Good Cracks Holes Stain/Seepage Vegetation present at oiled stone chip locations.
Was maintenance or repair of the capped areas conducted? Yes No
Integrity of Security Fencing around the site: Integrity of the fence is good. Vegetation growing on fence in some locations.

Institutional Controls (Site Restrictions)

The property may only be used for industrial or commercial use provided that the long-term Engineering and Institutional Controls included in the SMP are employed Yes No

The property may not be used for a higher level of use such as unrestricted or restricted residential use without additional remediation and amendment of the deed restriction, as approved by the NYSDEC. Residential use observed? Yes No

All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP.

Was excavation conducted on site? Yes No
Was the Excavation Work Plan followed? Yes No
Were the CAMP and EHASP followed? Yes No
Was there any construction or other disturbances of the cap conducted on site? Yes No
Ask for documentation if yes.

The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use. Any potable/non-potable well usage? Yes No

The potential for vapor intrusion must be evaluated for any buildings developed in the area while groundwater impacts are still present and any potential impacts that are identified must be monitored or mitigated. New buildings in past year? Yes No

Was Soil Vapor Intrusion Sampling Conducted? Yes No

Vegetable gardens and farming on the property are prohibited Observed? Yes No

The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation of failure to comply with the SMP. Yes No

Ask for documentation if yes.

Groundwater Sampling

Was access granted to representatives of the Former Grant Hardware Facility Site for sampling? Not Applicable. Groundwater Sampling not Required.

Were monitoring well repairs, replacement or decommissioning required? Yes No

Notifications Required Yes/No
60-day advance notice of any proposed changes in site use that are required under the terms of
the Orders on Consent, 6NYCRR Part 375, and/or Environmental Conservation Law. Yes No
7-day advance notice of any proposed ground-intrusive activities pursuant to the Excavation Work
Plan. Yes (No)

ound-intrusive activities pursuant to the Excavation Work

Notice within 48-hours of any damage or defect to the foundations structures that reduced or has the potential to reduce the effectiveness of the Engineering Control and likewise any action to be taken to mitigate the damage or defect. Yes (No

Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of the Engineering Control in place at the site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.

Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs. Yes (No

Any change in the ownership of the site or the responsibility for implementing this SMP will include the following notifications:

At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the Orders on Consent, and all approved work plans and reports, including this SMP. Yes (No.

Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing. Yes (No Ask for documentation if yes.

Contingency Plan

In the event of an emergency condition impacting the Engineering Control or building, O&R will follow its existing emergency procedures and evacuation plan for this facility. As appropriate, the fire department and other emergency response group will be notified immediately by telephone of the emergency.

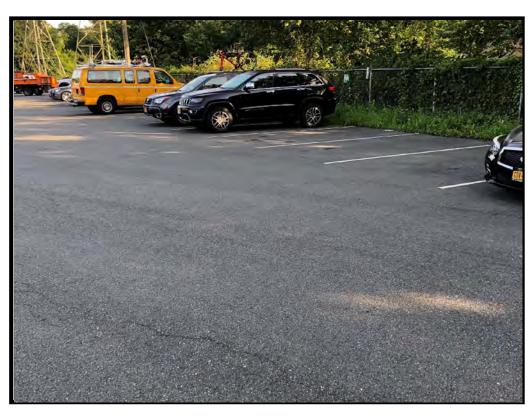
Did an emergency occur in the past year? Yes (No Was the fire department or other emergency response group notified immediately? Yes (No

Appendix B Photo Documentation

Appendix B
Photo Documentation – August 2020 Site Inspection
O&R West Nyack Operations Center



PHOTOGRAPH 1
Looking South, East of WNOC Building



PHOTOGRAPH 2
Pavement and Fence –Looking Northeast, North of WNOC Building

Appendix B
Photo Documentation – August 2020 Site Inspection
O&R West Nyack Operations Center

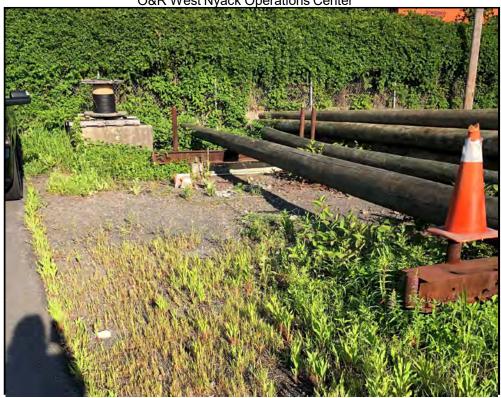


PHOTOGRAPH 3
Pavement – Northwest of Building Looking Southeast



PHOTOGRAPH 4Base of Northwestern Transmission Tower – Oil Stone Chips Present

Appendix B
Photo Documentation – August 2020 Site Inspection
O&R West Nyack Operations Center



PHOTOGRAPH 5
Pole Rack Along Northwestern Fence Line



PHOTOGRAPH 6
Southwestern Side of Building – Oil Stone Chips Adjacent to Building

Appendix B
Photo Documentation – August 2020 Site Inspection
O&R West Nyack Operations Center

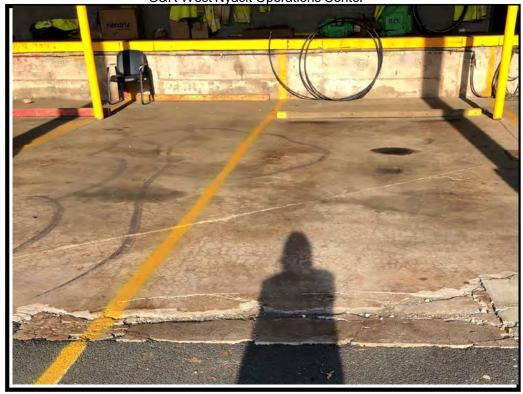


PHOTOGRAPH 7Pavement Northwest of Building Looking South Towards Fueling Station



PHOTOGRAPH 8
Depression/Crack in Pavement Patch for Emergency Generator

Appendix B
Photo Documentation – August 2020 Site Inspection
O&R West Nyack Operations Center



PHOTOGRAPH 9
Cracks in Concrete Floor of Garage on East Side of Building



Pavement on Lot 48 – West of Fence-line, East of RR, looking North



September 26, 2019 GEI Project 1902923

Consulting Engineers and

Scientists

Ms. Maribeth McCormick Technical Manager - Remediation Orange and Rockland Utilities, Inc. 390 West Route 59 Spring Valley, NY 10977

Re: 2019 Annual Inspection Report West Nyack Operating Center 766 West Nyack Road, West Nyack, NY

Dear Ms. McCormick:

GEI Consultants, Inc., P.C. (GEI) has prepared this Annual Inspection Report on behalf of Orange and Rockland Utilities, Inc. (O&R) for the O&R West Nyack Operating Center (WNOC). This letter documents the results of the annual Site-Wide Inspection and annual Composite Soil Cover System Monitoring that was performed on June 26, 2019, in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved WNOC Site Management Plan (SMP), dated July 2012.

Project Background

The site is located at 766 West Nyack Rd., (formerly 180 West Nyack Rd.) in the Town of Clarkstown, Village of West Nyack, County of Rockland, New York, and is identified as Block 2 and Lots 47 and 48 on the Clarkstown Tax Map. Figure 1 shows the site location. The site is an approximately 3-acre area bounded by Hackensack River to the north and east, Old Nyack Turnpike (also called West Nyack Road) to the south, and Consolidated Rail Corporation (Conrail) rail tracks to the west (Figure 2).

O&R also owns Lot 43 south of West Nyack Road. This property is used for employee parking for the O&R facility and was not part of the remedial actions for the site. It is not included in the engineering controls described in the Site Management Plan (SMP). South of the site, directly across Route 59, is the Grant Hardware Site (NYSDEC # 344031).

The O&R WNOC facility is currently used as a satellite service center for O&R line crews with garage facilities and a fueling station for utility service trucks, parking space for O&R vehicles, equipment storage, as well as office space. From the 1920s to approximately 1981, transformers, capacitors, and other electrical equipment were stored and repaired at the facility. Two underground storage tanks (USTs) were located in the center of the site and were used to store gasoline for fueling O&R's utility vehicles. One tank was identified as leaking and was removed in 1989. The second tank was removed during the 1997 to 1998 remedial actions.

The site was investigated and remediated in accordance with Order on Consent Index # W3-0508-93-12, Site # 344014, which was executed on August 2, 1994. A Remedial Investigation (RUST, July 1996), a Feasibility Study (RUST, July 1997), and additional Supplemental Subsurface Investigation (Tetra Tech, 2005) were performed to characterize the nature and extent of

contamination at the site. The results of these investigations indicated the subsurface soil in the vicinity of the UST area exhibited elevated petroleum-related volatile organic compound (VOC) concentrations. The depth of petroleum-impacted soil ranged from 1 foot to 14 feet. Limited Polychlorinated Biphenyl (PCB) impacts in subsurface soil were also identified.

The site was remediated in 1998 in accordance with the NYSDEC-approved Remedial Action Work Plan (RAWP) dated September 1997. A Record of Decision (ROD) was issued in October 1997. Remedial activities were initiated by O&R in November 1997, and completed in April 1998 (RUST, 1998). The remedial actions included:

- Excavation of 9,328 cubic yards of soil from areas on the site containing petroleumrelated VOCs and PCBs in excess of NYSDEC recommended cleanup levels (0.06 mg/kg benzene and 1.2 mg/kg xylene and 10 mg/kg PCBs). The extent of excavation is shown on Figure 3.
- Placement of a composite cover system over remaining soil impacts at the site. This cap consists of 12 inches of structural sub-base, 3 inches of binder course, and 1 ½ inches of wearing course placed in the excavated areas, and 3 inches of binder course and 1 ½ inches of wearing course placed over the majority of the remainder of the site. In the driveway areas which were already paved, Petro- Mats® were laid over the existing pavement and covered with approximately 1 ½ inches of wearing course. Additionally, several inches of oiled stone chips were placed beneath the transmission towers in the northernmost portion of the site, as well as in the areas immediately adjacent to the rear of the building in order to protect the integrity of the asphalt cap. Security fencing was replaced around the site as well.
- Development and implementation of a Site Management Plan (SMP) for long term management of remaining contamination. The SMP was finalized in July 2012 (AECOM, 2012).

2019 Site-Wide Inspection

The SMP specifies that site-wide inspections be performed a minimum of once per year and a site-wide inspection form be completed. The form will compile sufficient information to assess the following:

- Compliance with all ICs, including site usage.
- An evaluation of the condition and continued effectiveness of EC.
- General site conditions at the time of the inspection.
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection.
- Confirm that site records are up to date.

The 2019 annual inspection was conducted by GEI on July 26, 2019. A copy of the Annual Site-Wide Inspection and Soil Cover System Monitoring Checklist is included in Appendix A.

There was no evidence of unauthorized entry, damage to entrances or exits, illegal dumping, or unusual odors. There were some minor housekeeping issues identified but none of the housekeeping issues impacted the effectiveness of the institutional or engineering controls. Miscellaneous equipment and debris are present along the northern and northeastern fence line and beneath the transmission towers in the northern area of the site (Photographs 3 and 4

[Appendix B]). Soil piles were also identified beneath the transmission towers in the northern portion of the site.

Soil Cover System Monitoring

The SMP specifies that a visual inspection of the complete soil cover system will be conducted on an annual basis concurrently with the site-wide inspection. Components of the soil cover system will be inspected for the following:

- Integrity of asphalt-covered roads
- Integrity of sidewalks
- Integrity of concrete building slabs
- Integrity of "clean soil cover/cap"

The following visual observations on the integrity of the soil cover system were made during the July 2019 site walk. The photographs referenced below are provided in Appendix B.

- The condition of the asphalt cap in the parking and driveway areas throughout the site is improved subsequent to the 2016 re-paving. Some settlement cracks were identified within the asphalt that were not identified during the 2018 inspection. However, the cracks are surficial and there is no exposure to the sub-base or subsurface material (Photographs 1 and 2). The overall integrity of the pavement is good (Photograph 3).
- The oil stone chips are present beneath the transmission towers. There is significant vegetation and debris in these areas. The integrity of the cap preventing exposure to subsurface soil at these locations appears to be intact (Photograph 4).
- Consistent with the 2013 and 2018 inspections, there is some erosion of the oil stone chips on the sloped areas adjacent to the southwestern side of the building and cracked pavement was observed along the top of the sloped area adjacent to the building. There is also erosion of a concrete platform above the slope in this area; conditions are consistent with those documented in 2013 and 2018 (Photograph 6). The oil stone chips, asphalt and concrete are still present and preventing exposure to the underlying soil. Since the oil chips were placed in the rear of the building to protect the integrity of the asphalt cap, future maintenance of this area should be considered to prevent further erosion.
- The pavement patch for the new emergency generator installed in 2017 is in fair condition with the exception of a small depression/crack in the southwest area of the pavement identified in 2018 (Photograph 8). The subsurface soil is not exposed. Repair of the depression/crack should be considered to prevent future worsening conditions.
- There are cracks present in the concrete floor of the garage on the eastern side of the building (Photograph 9). The minor cracks are consistent with those documented during the 2018 inspection. There is no exposure to subsurface soil.
- There is no asphalt cover in the area beneath the pole rack storage along the western fence line (Photograph 5). This is consistent with conditions noted during the 2013 and 2018 inspection. The paving plan submitted to and approved by the NYSDEC in 2016 did not include these areas in the areas to be paved.
- Minor cracks were observed along the edge of the pavement on Lot 48 west of the fence-line and east of the RR (Photographs 10 and 11).

Compliance with SMP

The institutional and engineering controls established in the SMP were complied with during this reporting period. Annual site-wide inspections and annual cover system monitoring will be performed in accordance with the SMP. The results of the 2019 through 2023 annual site-wide inspections and annual cover system monitoring will be provided to the NYSDEC in the August 2023 Periodic Review Report (PRR).

IC/EC Compliance

The institutional and engineering controls have proved effective in preventing uncontrolled exposure to remaining subsurface impacts on site. The site cover system was intact and no exposure to subsurface soil was identified.

Future Periodic Review Report Submittals

In accordance with the SMP, a PRR will be submitted to the Department every fifth year; the next PRR submittal will be in August 2023. The next site-wide inspection and cover system monitoring will be performed in early July 2020. The PRR will include the results of the 2019 through 2023 annual site-wide inspection and cover system monitoring reports.

If you have any questions, please feel free to contact us at (607) 216-8958.

Sincerely,

GEI CONSULTANTS, INC., P.C.

Kathleen Slimon, P.E., LEP

Senior Engineer

James Edwards, P.G. Project Manager

Enclosures:

Figures

- 1 Site Location Map
- 2 Site Layout Map
- 3 Remedial Action Excavation Extent

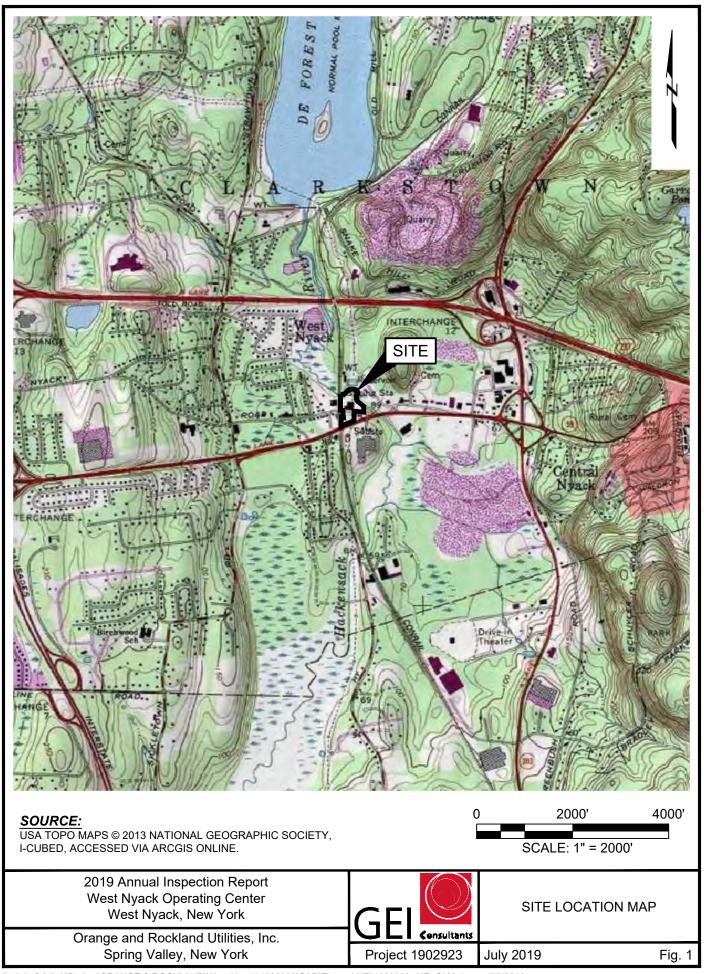
Appendices

- A Annual Site-Wide Inspection and Soil Cover System Monitoring Checklist
- B Photo Documentation

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2019 Annual Inspection Report West Nyack Operating Center 766 West Nyack Road, West Nyack, NY September 26, 2019

Figures



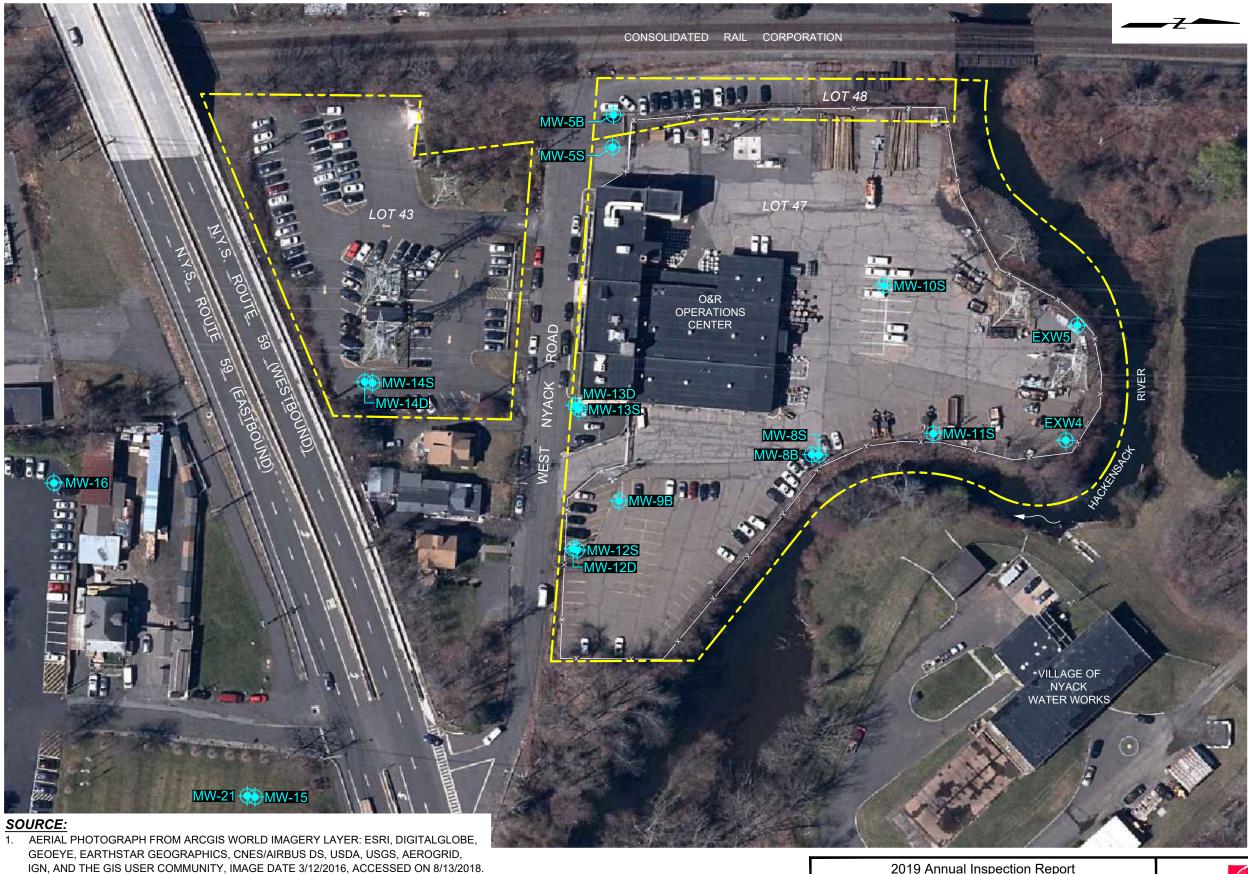


FIGURE 1-2: CURRENT SITE LAYOUT AND MONITORING WELL LOCATIONS, PREPARED

3. TAX MAP, SHEET 65.05, TOWN OF CLARKSON, ROCKLAND COUNTY, NEW YORK,

BY AECOM, DATE: 3/25/09, SCALE: 1" = 140'.

REVISED THROUGH FEBRUARY 28, 2018, SCAKE: 1" = 100'.

MONITORING WELL
PROPERTY BOUNDARY
CHAIN-LINK FENCE

2019 Annual Inspection Report West Nyack Operating Center West Nyack, New York

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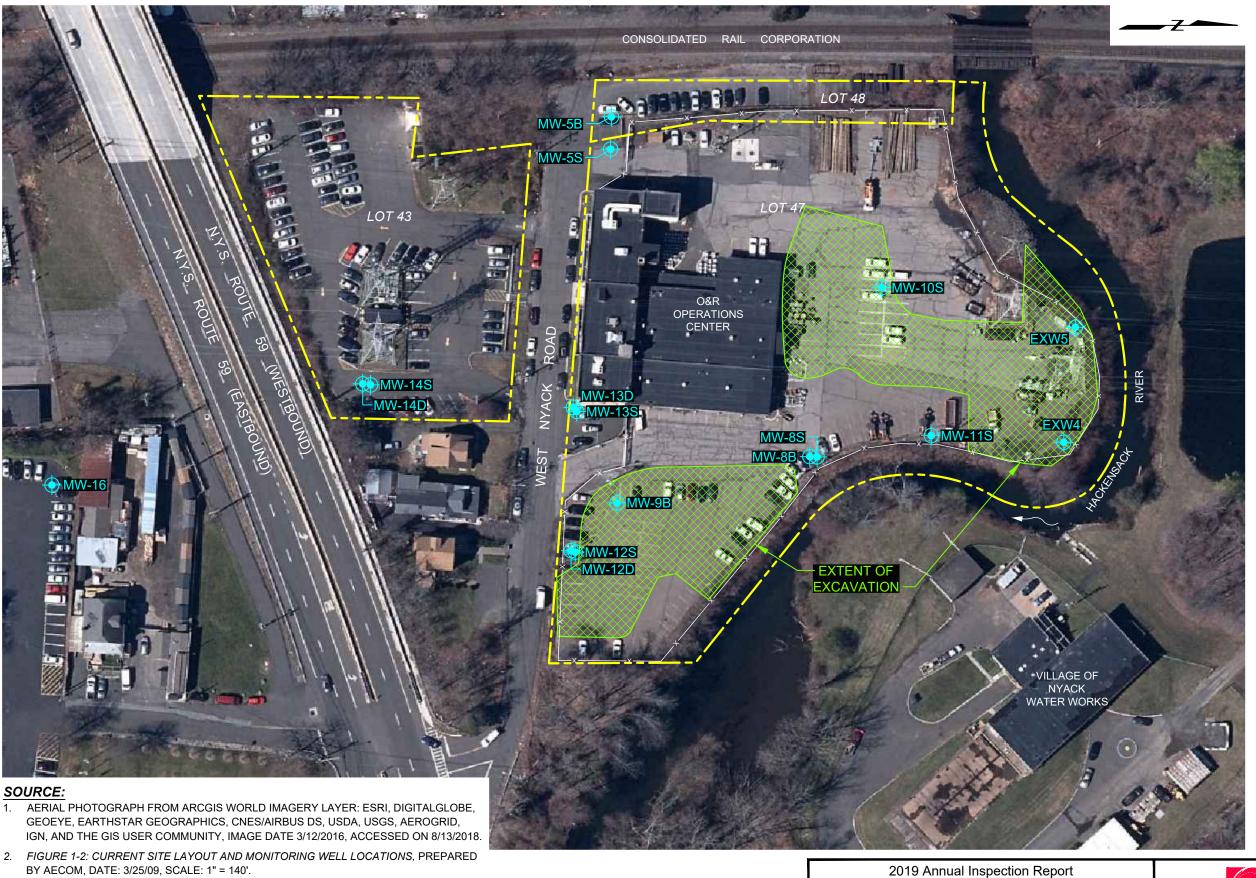
SCALE: 1" = 80'

Orange and Rockland Utilities, Inc. Spring Valley, New York GEI Consultants
Project 1902923

SITE LAYOUT MAP

923 July 2019

Fig. 2



MONITORING WELL

EXTENT OF EXCAVATION

PROPERTY BOUNDARY

CHAIN-LINK FENCE

- GEI Consultan

REMEDIAL ACTION EXCAVATION EXTENT

Project 1902923

July 2019

Fig. 3

3. TAX MAP, SHEET 65.05, TOWN OF CLARKSON, ROCKLAND COUNTY, NEW YORK,

REVISED THROUGH FEBRUARY 28, 2018, SCAKE: 1" = 100'.

4. EXCAVATION EXTENTS FROM FIGURE 2: SITE LAYOUT, PREPARED BY AECOM, SCALE: 1" = 120', DATE: 2/15/2012.

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West Nyack Operating Center

West Nyack, New York

2019 Annual Inspection Report West Nyack Operating Center 766 West Nyack Road, West Nyack, NY September 26, 2019

Appendix A

Annual Site-Wide Inspection and Soil Cover System Monitoring Checklist

Annual Site-Wide Inspection and Soil Cover System Monitoring Checklist

Address: 766 West Nyack Road, West Nyack, NY 10994
Date of Inspection: June 26, 2019
Weather: Sunny 80 degrees
Inspector: Kathleen Slimon Company: GEI Consultants, Inc., 455 Winding Brook Drive, Glastonbury, CT 06033
O&R Representative: Maribeth McCormick
General Site Conditions Are there any new or removed structures: Yes No X Does the site have proper up keep: Yes X No Evidence of unauthorized entry: Yes No X Damage to entrances/exits: Yes No X Any illegally dumped materials: Yes No X Any unusual odors: Yes No X Are any monitoring wells opened or damaged: Yes No X Some minor surface flooding due to recent heavy rains.
Engineering Control Systems
The site engineering control systems is a soil cap (composite cover system). Exposure to remaining contamination in soil/fill at the site is prevented by a soil cover system placed over the site. Following remedial actions, the excavated area was backfilled with a combination of clean fill and thermally-treated soils. An impermeable asphalt cap was then placed over the entire site. This cap consists of 12 inches of structural sub-base, 3 inches of binder course, and 1½ inches of wearing course placed in the excavated areas, and 3 inches of binder course and 1½ inches of wearing course placed over the majority of the remainder of the site. In the driveway areas which were already paved, Petro-Mats® were laid over the existing pavement and covered with approximately 1½ inches of wearing course. Additionally, several inches of oiled stone chips were placed beneath the transmission towers in the northernmost portion of the site, as well as in the areas immediately adjacent to the rear of the building in order to protect the integrity of the asphalt cap.
Note Integrity of: Asphalt covered roads: Good Cracks Holes Stain/Seepage Some minor settling cracks on surface since last visit
Concrete building slabs: Good Cracks Holes Stain/Seepage Some minor pre-existing cracks
Clean soil cover/cap: Good Cracks Holes Stain/Seepage
Was maintenance or repair of the capped areas conducted? Yes No
Integrity of Security Fencing around the site: Good, Vegetation cleared since last visit

Institutional Controls (Site Restrictions)

The property may only be used for industrial or commercial use provided that the long-term Engineering and Institutional Controls included in the SMP are employed. Yes				
The property may not be used for a higher level of use such as unrestricted or restricted residential use without additional remediation and amendment of the deed restriction, as approved by the NYSDEC. Residential use observed? Yes No				
All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP.				
Was excavation conducted on site? Yes No Was the Excavation Work Plan followed? Yes No Were the CAMP and EHASP followed? Yes No Was there any construction or other disturbances of the cap conducted on site? Yes No Ask for documentation if yes.				
The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use. Any potable/non-potable well usage? Yes No				
The potential for vapor intrusion must be evaluated for any buildings developed in the area while groundwater impacts are still present and any potential impacts that are identified must be monitored or mitigated. New buildings in past year? Yes No				
Was Soil Vapor Intrusion Sampling Conducted? Yes No				
Vegetable gardens and farming on the property are prohibited Observed? Yes No				
The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation of failure to comply with the SMP. Yes No				
Groundwater Sampling				
Was access granted to representatives of the Former Grant Hardware Facility Site for sampling? Not Requested				
Were monitoring well repairs, replacement or decommissioning required? Yes No				

Notifications Required Yes/No

60-day advance notice of any proposed changes in site use that are required under the terms of the Orders on Consent, 6NYCRR Part 375, and/or Environmental Conservation Law. Yes No

7-day advance notice of any proposed ground-intrusive activities pursuant to the Excavation Work Plan. Yes No

Notice within 48-hours of any damage or defect to the foundations structures that reduced or has the potential to reduce the effectiveness of the Engineering Control and likewise any action to be taken to mitigate the damage or defect. Yes No

Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of the Engineering Control in place at the site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public. Yes No

Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs. Yes

Any change in the ownership of the site or the responsibility for implementing this SMP will include the following notifications:

At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the Orders on Consent, and all approved work plans and reports, including this SMP. Yes No

Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing. Yes No Ask for documentation if yes.

Contingency Plan

In the event of an emergency condition impacting the Engineering Control or building, O&R will follow its existing emergency procedures and evacuation plan for this facility. As appropriate, the fire department and other emergency response group will be notified immediately by telephone of the emergency.

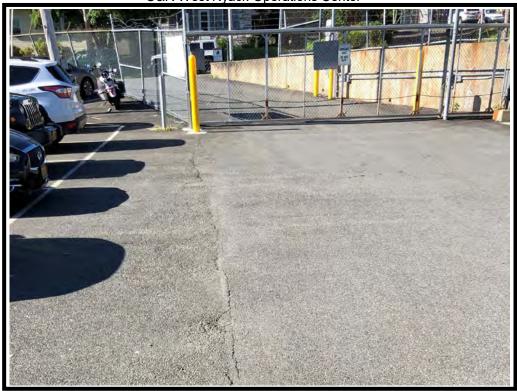
Did an emergency occur in the past year? Yes No Was the fire department or other emergency response group notified immediately? Yes No

2019 Annual Inspection Report West Nyack Operating Center 766 West Nyack Road, West Nyack, NY September 26, 2019

Appendix B

Photo Documentation

Appendix B
Photo Documentation – July 2019 Site Inspection
O&R West Nyack Operations Center



PHOTOGRAPH 1
Pavement – Looking South, East of WNOC Building



PHOTOGRAPH 2
Pavement – Looking North, East of WNOC Building

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Photo Documentation – July 2019 Site Inspection
O&R West Nyack Operations Center



PHOTOGRAPH 3
Pavement – North of Building Looking East



PHOTOGRAPH 4
Base of Northern Transmission Tower – Oil Stone Chips Present

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Photo Documentation – July 2019 Site Inspection
O&R West Nyack Operations Center



PHOTOGRAPH 5
Pole Racks and Fencing along Northern Fence Line



Western Side of Building (looking South) – Oil Stone Chips Adjacent to Building

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Photo Documentation – July 2019 Site Inspection
O&R West Nyack Operations Center



PHOTOGRAPH 7
Truck Fueling Station – Southwest side of Building



PHOTOGRAPH 8

Depression/Crack in Pavement Patch for Emergency Generator

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Photo Documentation – July 2019 Site Inspection
O&R West Nyack Operations Center



PHOTOGRAPH 9
Cracks in Concrete Floor of Garage on East Side of Building



PHOTOGRAPH 10
Pavement on Lot 48 – West of Fence-line, East of RR, looking South

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Photo Documentation – July 2019 Site Inspection
O&R West Nyack Operations Center



PHOTOGRAPH 11
Pavement on Lot 48 – West of Fence-line, East of RR, looking North

Periodic Review Report August 2023 NYSDEC Site No. 344014 West Nyack Operating Center 766 West Nyack Road, West Nyack, NY (Formerly 180 West Nyack Road) August 2023

Appendix B

Institutional and Engineering Controls Certification Form



Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Sit	te No.	344014	Site Details		Box 1	
Sit	Site Name Orange & Rockland Utilities					
Cit Co	e Address: cy/Town: We ounty:Rockla e Acreage:	ind	Zip Code: 10994			
Re	porting Perio	od: July 31, 2018 to July 31, 2	2023			
					YES	NO
1.	Is the infor	mation above correct?			X	
	If NO, inclu	ıde handwritten above or on a	separate sheet.			
2.		or all of the site property beer nendment during this Reportir		or undergone a		X
3.		been any change of use at the CRR 375-1.11(d))?	e site during this Reporting P	eriod		X
4.	•	ederal, state, and/or local per e property during this Reportir	, ,	e) been issued		X
	If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.					
5.	Is the site of	currently undergoing developr	ment?			X
					Box 2	
					YES	NO
6.	Is the curre Industrial	ent site use consistent with the	e use(s) listed below?		X	
7.	Are all ICs	in place and functioning as de	esigned?	X		
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.						
A Corrective Measures Work Plan must be submitted along with this form to address these issues.						
	Many James 8/25/2023					
Sig	nature of Ow	vner, Remedial Party or Design	ated Representative	Date		

SITE NO. 344014 Box 3 **Description of Institutional Controls** Parcel Owner **Institutional Control** Orange & Rocklnad Utilities 65.05-2-43 Landuse Restriction * Prohibition against the use of groundwater without treatment. * Land use must be maintained as industrial Orange & Rockland 65.05-2-47 Landuse Restriction Monitoring Plan Site Management Plan **Ground Water Use Restriction** Soil Management Plan * Prohibition against the use of groundwater without treatment. * Land use must be maintained as industrial * Soil Management Plan must be followed * Cover must maintained Orange & Rockland 65.5-2-48 Landuse Restriction **Ground Water Use Restriction** Monitoring Plan Site Management Plan Soil Management Plan * Prohibition against the use of groundwater without treatment. * Land use must be maintained as industrial * Soil Management Plan must be followed * Cover must maintained Box 4

Engineering Control

Cover System

Cover System

Description of Engineering Controls

Parcel 65.05-2-47

65.5-2-48

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	Вох	5				
	Periodic Review Report (PRR) Certification Statements					
1.	I certify by checking "YES" below that:					
	a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;					
	b) to the best of my knowledge and belief, the work and conclusions described in this ce are in accordance with the requirements of the site remedial program, and generally accordance in accordance and the information property and compared to accordance.					
	engineering practices; and the information presented is accurate and compete. YES NO					
	old X					
2.	For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:					
	(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;					
	(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;					
	(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;					
	(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and					
	(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document					
	YES NO					
	X					
	IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.					
	A Corrective Measures Work Plan must be submitted along with this form to address these issues.					
_	8/25/2023					
;	Signature of Owner, Remedial Party or Designated Representative Date					

IC CERTIFICATIONS SITE NO. 344014

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Matthew Levinsor	at Consolidat	ted Edison of New York, Inc.
print name	print bus	iness address
am certifying asOwr	er	(Owner or Remedial Party)
Many Jewnson	Site Details Section of this form. edial Party, or Designated Represen	8/25/2023 Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Wendy Moore at GEI (Consultants, Inc.
print name	print business address
am certifying as a Professional Engineer for the	owner
	(Owner or Remedial Party)
Man	CONTRACTOR OF STATE OF NEW YORK OF STATE OF NEW YORK OF STATE OF S
	8/25/2023
Signature of Professional Engineer, for the Owner of	or Stamp Date

Remedial Party, Rendering Certification

(Required for PE)