

2025 Annual Site Management Report

**Former Lockheed Martin
French Road Facility
Utica, New York**



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**2025 ANNUAL SITE MANAGEMENT REPORT
FORMER LOCKHEED MARTIN FRENCH ROAD FACILITY
UTICA, NEW YORK**

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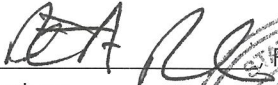
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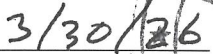
Certification Statement

I, Peter Rich, of Tetra Tech Inc., certify that I am currently a New York State-registered professional engineer and that this Site Management Report was prepared in accordance with applicable statutes and regulations and in substantial conformance with the (NYSDEC) Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10). I certify that information and statements in this certification form are true. For each engineering control* identified for the site, I certify that all of the following statements are true:


- The inspection of the site to confirm the effectiveness of the engineering controls required by the remedial program was performed under my direction;
- The engineering controls employed at this site are unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of the engineering controls;
- The engineering control systems are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program and generally-accepted engineering practices; and
- The information presented in this report is accurate and complete.



Signature



Date



* Remediation, as defined in the Statement of Basis, has not been completed at the time this report was prepared. Once the remedy has been implemented, and remediation is deemed complete by NYSDEC, institutional controls (as outlined in the Site Management Plan and Environmental Easement), can be finalized and fully implemented. For that reason, only engineering controls are certified herein. Following site closure, and through the periodic review reporting process, both engineering and institutional controls will be certified.

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ABBREVIATIONS & ACRONYMS

AGC	Annual Guideline Concentration
BBL	Blasland, Bouck, & Lee, Inc.
CCR	Construction Completion Report
CMIP	corrective measures implementation plan
CMS	corrective measures study
ConMed	ConMed Corporation
DAR	(NYSDEC) Division of Air Resources
DER	(NYSDEC) Division of Environmental Remediation
EC	Engineering Control
EE	Environmental Easement
FNPD	Former Northern Perimeter Ditch
FS	Feasibility Study
GCTS	groundwater collection and treatment system
GE	General Electric Company
GWMP	Groundwater Monitoring Program
HDPE	high-density polyethylene
IC	Institutional Control
ICM	interim corrective measures
in. W.C.	inches of water column
IRZ	in-situ reactive zone
Lockheed Martin	Lockheed Martin Corporation
MMC	Martin Marietta Corporation
MNA	monitored natural attenuation
MW	monitoring well
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OM&M	Operation, Maintenance, and Monitoring
PCB	polychlorinated biphenyl
PCE	Tetrachloroethene
PLC	Programmable Logic Controller
SB	Statement of Basis

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SDS	sub-slab depressurization sump
SGV	standards and guidance values
SIR	Supplemental Investigation Report
SMR	Site Management Report
SPDES	State Pollutant Discharge Elimination System
SSDS	sub-slab depressurization system
SVI	soil vapor intrusion
TCE	Trichloroethene
TOGS	Technical and Operational Guidance Series
VFD	variable frequency drive
VOC	volatile organic compound
VPGAC	vapor-phase granular activated carbon
VMP	vacuum monitoring point

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1.0 INTRODUCTION

On behalf of Lockheed Martin Corporation (Lockheed Martin), Tetra Tech, Inc. (Tetra Tech) has prepared this 2025 Annual Site Management Report (SMR) for the Former Lockheed Martin French Road Facility (herein, "the site") in Utica, New York. Refer to Figure 1 for a site location map. The activities described herein have been performed in general accordance with the Corrective Measures Implementation Plan (CMIP) required by the "Order on Consent" (Order) issued by the New York State Department of Environmental Conservation (NYSDEC) on October 3, 2008 (NYSDEC, 2008), the *Final Statement of Basis (SB), Corrective Measures Selection, Former Lockheed Martin-French Road Facility, Operable Units 01 and 02, Site No. 633036A, EPA ID No. NYD000521971, Utica, Oneida County*, issued by NYSDEC on March 31, 2015 (SB; NYSDEC, 2015), and the *Interim Site Management Plan* approved by NYSDEC on April 12, 2024.

The SB requires both Engineering and Institutional Controls (ECs and ICs) to mitigate risks associated with remaining contamination to ensure protection of human health and the environment. Per the SB, a cover system has been incorporated into the *Draft Interim Site Management Plan (Draft SMP; Stantec, 2016b)* and annual inspections to assess its performance began in 2015. An Environmental Easement (EE) will be granted to NYSDEC and recorded with the Oneida County Clerk to require compliance with all ECs and ICs implemented on-site. The *Draft SMP* and EE materials were submitted to ConMed Corporation (ConMed, the site owner) in July 2016 and NYSDEC in October 2016. An updated draft SMP was submitted to the NYSDEC on April 22, 2021. The NYSDEC/New York State Department of Health (NYSDOH) provided comments to the updated draft SMP in a letter dated November 9, 2021. A draft revised SMP was submitted to the NYSDEC/NYSDOH in March 2023. The NYSDEC/NYSDOH provided comments to the draft revised SMP in a letter dated June 21, 2023. A draft updated SMP was submitted in September 2023. An Interim SMP was submitted in January 2024 and approved by NYSDEC/NYSDOH on April 12, 2024. The Interim SMP will be considered final once the EE is in place.

The sub-slab depressurization system (SSDS) performance portion of this report (see Section 2.1 and Appendix A of this SMR) was written to meet requirements specified in the *SSDS Operation, Maintenance, and Monitoring Plan (SSDS OM&M Plan; Tetra Tech, 2021a)*. The cover system performance portion of the report (Section 2.3 and Appendix B) was written to satisfy requirements detailed in the *Interim SMP*. The *Groundwater Monitoring Program (GWMP)* is the basis for the groundwater monitoring program performance portion of this report (see Section 4.0 and Appendix C). The GWMP was originally authored as an Interim Groundwater Monitoring Program (IGWMP) in October 2009 by ARCADIS and subsequently revised in February 2012 (ARCADIS, 2012), and May 2016 (Stantec, 2016c). The IGWMP has been revised as a draft GWMP and is part of the approved 2024 Interim SMP.

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1.1 REMEDIAL OBJECTIVES

As listed in the SB, the remedial objectives and actions to attain them are as follows:

OBJECTIVE	ACTION ITEMS	Relevant 2025 ECs/Monitoring Programs*
1. Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards	<ul style="list-style-type: none"> - EE and SMP (ICs) to prohibit groundwater use; and - Connection to municipal public water supply. 	--
2. Prevent contact with or inhalation of volatiles from contaminated groundwater	<ul style="list-style-type: none"> - Continued SSDS operation; - SMP protocols for ground-intrusive activities and provision for future soil vapor intrusion (SVI) investigations; and - Groundwater monitoring. 	<ul style="list-style-type: none"> • SSDS • Groundwater monitoring program
3. Restore groundwater aquifer to pre-disposal/pre-release conditions, to the extent practicable	<ul style="list-style-type: none"> - Groundwater monitoring. - Past operation of GCTS. 	<ul style="list-style-type: none"> • Groundwater monitoring program
4. Remove the source of groundwater or surface water contamination	<ul style="list-style-type: none"> - Source area subsurface soil excavation (FNPD Area 2). 	--
5. Prevent the discharge of contaminants to surface water	<ul style="list-style-type: none"> - Groundwater monitoring. - Past operation of GCTS. 	<ul style="list-style-type: none"> • Groundwater monitoring program
6. Prevent ingestion/direct contact with contaminated soil	<ul style="list-style-type: none"> - Source area subsurface soil excavation (FNPD Area 2); - Isolated PCB-impacted surface soil removal; - Restrictive Use Agreement prohibiting residential use; and - Site cover system. 	<ul style="list-style-type: none"> • Site cover system
7. Prevent inhalation exposure from contaminants volatilizing from soil	<ul style="list-style-type: none"> - Source area subsurface soil excavation (FNPD Area 2); - SMP provision for potential future SVI investigations; and - Continued SSDS operation. 	<ul style="list-style-type: none"> • SSDS
8. Prevent migration of contaminants that would result in groundwater or surface water contamination	<ul style="list-style-type: none"> - Source area subsurface soil excavation (FNPD Area 2); and - Isolated PCB-impacted surface soil removal. 	--
9. Mitigate impacts to public health resulting from SVI into buildings on-site	<ul style="list-style-type: none"> - SMP provision for potential future SVI investigations; and - Continued SSDS operation. 	<ul style="list-style-type: none"> • SSDS

* This report details controls, history, and quantifiable performance criteria (where applicable) for each of the relevant ECs/monitoring programs listed in the third (and referenced) column.

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1.2 SITE DESCRIPTION AND OWNERSHIP HISTORY

In the early 1950s, General Electric Company (GE) acquired approximately 55 acres of undeveloped land on French Road in Utica, New York and built a 500,000-square-foot manufacturing facility (Figure 1). GE operations included manufacturing, assembling, and testing electrical components for the defense and aerospace industries. GE production operations continued until April 1993, when the facility was acquired by Martin Marietta Corporation (MMC), who also used the facility for manufacturing operations.

In March 1995, MMC merged with Lockheed Corporation to form Lockheed Martin Corporation. In March 1996, Lockheed Martin sold the property to Pinnacle Park, Inc., which subsequently transferred the property to and leased it back from the Oneida County Industrial Development Agency. ConMed, a medical supplies manufacturer and distributor, now owns and occupies the facility. Although Lockheed Martin no longer owns the property, the corporation retains responsibility for environmental cleanup related to past releases at the site. Figure 2 presents the site layout.

1.3 GROUNDWATER COLLECTION AND TREATMENT SYSTEM HISTORY

Groundwater beneath the northeast portion of the main manufacturing building and in an area along the FNPD has been impacted by VOCs. The former Solvent Dock was located at the northeast end of the main manufacturing building and was the location where solvents were formerly used and stored. The FNPD (running along the northern property boundary) was an open-drainage swale that received storm water from the area north of the manufacturing building and conveyed the water, along with storm water from the western portion of the property eastwardly to a manhole before discharging it to the municipal storm sewer.

GE, MMC, and Lockheed Martin have investigated groundwater in these areas since 1991. In November 1994, Blasland, Bouck, & Lee, Inc. (BBL) investigated the facility storm sewer in the Solvent Dock Area. That investigation determined that VOCs detected in the storm sewer were attributable to the discharge of VOC-contaminated groundwater into the FNPD and infiltration of VOC-contaminated groundwater from the Solvent Dock Area into the storm sewer beneath the building.

In May 1995, BBL completed a *Storm Sewer Investigation Report* (BBL, 1995a), which recommended that the contaminated portion of the storm sewer flow be collected, treated, and discharged to meet proposed "State Pollutant Discharge Elimination System" (SPDES) VOC-effluent limitations. BBL evaluated remedial design alternatives (in accordance with NYSDEC recommendations) that would remedy contaminated groundwater by addressing the source of VOCs entering the storm sewer. The results of this evaluation are in the *Storm Sewer Basis of Design Report* (BBL, 1995b). This report led to design of the GCTS in October 1995, and initial system construction was completed in June 1996 as an ICM. The GCTS initially consisted of two underdrain pipes in the vicinity of the northern perimeter ditch, and the construction also

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included filling in the northern perimeter ditch and installation of a buried shallow storm sewer line.

Once the system was installed and the FNPD was replaced by a buried 24-inch-diameter high-density polyethylene (HDPE) pipe, groundwater no longer discharged to the surface. The pipe now conveys storm water that formerly flowed in the ditch. The ditch area was filled and contoured to match the existing grade. The GCTS was expanded in 2010 to include a third underdrain line running through the facility's eastern parking lot, parallel to a storm sewer running eastwardly toward a common storm sewer line (with eventual discharge to Nail Creek). This work also upgraded several GCTS components, notably the air stripper and associated controls. The GCTS collected groundwater from the Solvent Dock Area and the FNPD area, conveyed the collected groundwater to a treatment building where VOCs were removed by an air stripper, and then discharged the treated effluent to the municipal stormwater system under SPDES Permit #NY0121894.

A GCTS optimization investigation work plan (Tetra Tech, 2021c) was prepared that proposed a storm sewer and groundwater investigation to evaluate the potential for permanent shutdown of the existing GCTS. The NYSDEC approved the GCTS optimization work plan in a letter dated March 2021 (NYSDEC, 2021). The storm sewer and groundwater investigation were completed in May 2021. The investigation included the completion of two test pits and installation of eight new piezometers in the FNPD area. The GCTS was temporarily shut down on May 26, 2021 following installation of the new piezometers and backfilling of the test pits. During the temporary shutdown of the GCTS, groundwater samples for VOC analysis were collected from monitoring wells, piezometers, and three catch basins during the quarterly groundwater sampling events. These quarterly sampling events were part of the NYSDEC-approved GCTS optimization work plan to assess the stability of the groundwater plume and storm sewer water quality. In 2021, a pre-shutdown and two quarterly monitoring events were performed. A third quarterly groundwater monitoring event was conducted in February 2022. The GCTS remained shut down in 2022 as the data collected during the quarterly monitoring events indicated that the temporary GCTS shutdown had no adverse effect on the storm sewer water quality. As a result, a GCTS Optimization Investigation Summary Report was prepared by Tetra Tech dated July 2022 (Tetra Tech, 2022) that recommended the permanent shutdown of the GCTS. The NYSDEC approved the permanent shutdown in August 2022 (NYSDEC, 2022). An additional recommendation was sampling the three catch basins for VOCs in October 2022, January 2023, and April 2023. The three catch basins were sampled for VOCs in October 2022, January and May 2023.

Based on the sampling results from the catch basins, Lockheed Martin submitted a permanent shutdown request letter to the NYSDEC/NYSDOH on August 25, 2023. In a letter dated September 6, 2023, the NYSDEC/NYSDOH approved the request for the permanent shutdown and decommissioning of the GCTS and the elimination of the SPDES permit. GCTS decommissioning activities including capping of influent and effluent piping, lock out/tag out of the power connection and disposal of residual materials were completed in 2024, and documentation was provided to NYSDEC Division of Water on September 6, 2024. NYSDEC Division of Water

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completed a site inspection on October 23, 2024 and provided a letter discontinuing the SPDES permit as of November 20, 2024.

1.4 SUB-SLAB DEPRESSURIZATION SYSTEM HISTORY

In February 2006, sub-slab soil gas and indoor air samples were collected at multiple locations inside occupied structures in the Solvent Dock Area where groundwater was known to be impacted by VOCs. VOCs including primarily tetrachloroethene (PCE) and trichloroethene (TCE) were detected in the soil gas beneath the main building, as presented in the *Vapor Intrusion Study Report* (EarthTech, 2006). Concentrations of VOCs in sub-slab soil gas samples were greater than NYSDOH guidance levels that required mitigation measures to be implemented (in accordance with NYSDOH's then-current *Public Comment Draft, Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005*).

Additional sub-slab soil gas and indoor air samples were collected in 2007 in the eastern portion of the main building. Based on these results, ARCADIS recommended re-sampling and installing an SSDS. In October and November 2007, supplemental sub-slab soil gas and indoor air sampling was conducted to:

- Confirm previous results;
- Better understand sub-slab soil gas and indoor air quality; and
- Further define areas in the building that might require mitigation as part of the planned ICM for the ConMed facility.

Results of this study were submitted to NYSDEC in the *Addendum to the Vapor Intrusion Study Report for the Solvent Dock Area* (ARCADIS, 2008a). The study results identified elevated TCE in sub-slab soil gas and indoor air at concentrations that could warrant mitigation within the eastern/northeastern portion of the ConMed facility, in accordance with *Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006* (NYSDOH, 2006).

The SSDS was initially installed in November 2007 and was operated as a pilot test to evaluate the system's effectiveness. The initial pilot system extracted soil vapor from two sub-slab depressurization sumps (SDSs): SDS-1 and SDS-2. Based on the pilot test results and supplemental indoor air/sub-slab analytical results (*Revised Work Plan for the Interim Corrective Measure*; ARCADIS, 2008b), the pilot-test system was expanded as part of an ICM plan to include an additional SDS location (SDS-3), a variable-frequency motor drive (VFD), and a programmable logic controller (PLC) equipped with a cellular modem. Following the SSDS startup/shakedown period, the SSDS began continuous operation in July 2008. The ICM operated from July 2008 through November 2010.

As presented in the *Sub-Slab Depressurization System 100% Design Work Plan* (ARCADIS, 2010), OM&M activities during 2009 indicated that the ICM SSDS was not meeting operational goals (specifically in the area north of SDS-1 and west of SDS-3), thereby requiring system expansion and modification. In September 2010, SSDS upgrade activities (which included the installation of

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additional depressurization sumps SDS-4 through SDS-7 and upgrades to other major components of the system) were initiated. The purpose of these upgrades was to expand the capture area of sub-slab vapor from areas of the main building not currently being mitigated by the system. Upgrade activities continued into February 2011, at which point the expanded system began full-scale operation.

As presented in the *Summary Report for SSSDS Pilot Test in Area of VMP-7A Solvent Dock Area* (ARCADIS, 2013a), a pilot test was conducted to address the vacuum performance of the existing SSSDS in the vicinity of vacuum monitoring point (VMP) VMP-7A (*note: for purposes of this report, vacuum and differential pressure are reported as inches of water column [in. W.C.] and expressed as a positive value*). The objective of the SSSDS pilot test was to identify an SDS location(s) that would induce a vacuum greater than 0.004 in. W.C. in the sub-slab soil environment, at a sufficient radius to capture the area of VMP-7A and consistent with the design parameters (as presented within the *Sub-Slab Depressurization System 100% Design Work Plan*; ARCADIS, 2010).

This was accomplished by the installation of soil vapor extraction point SDS-8. The pilot test results indicated that operation of SDS-8 created a sub-slab vacuum at VMP-7A well in excess of the target performance criteria of 0.004 in. W.C. of vacuum. As a result, permanent piping and infrastructure incorporating SDS-8 into the full-scale SSSDS was installed with approval from NYSDEC. SDS-8 was permanently brought online on October 23, 2013, as detailed in the *Summary Report for Startup of SDS-8* (ARCADIS, 2014).

The differential pressures recorded at VMP-8C during OM&M activities in 2019 and early 2020 exhibited vacuums below the design criteria of 0.004 in. W.C. for a portion of the 24-hour tests. In order to improve the vacuum readings at VMP-8C, an *SSDS Expansion Work Plan* dated September 2020 (Tetra Tech, 2020) was prepared to discuss the installation of a new depressurization sump SDS-9 in the area of VMP-8C. The NYSDEC approved the *SSDS Expansion Work Plan* in a letter dated September 22, 2020 (NYSDEC, 2020). In early December 2020, permanent piping and infrastructure incorporating SDS-9 into the full-scale SSSDS was completed. SDS-9 was brought online on December 15, 2020. A detailed description of the upgraded system is documented in the revised *SSDS OM&M Plan* (Tetra Tech, 2021a).

As part of optimization efforts for the SSSDS, an evaluation of the influent vapor (pre-carbon) from the SSSDS blower was performed using the NYSDEC Division of Air Resources (DAR)-1 policy to support the proposed removal of the vapor-phase granular activated carbon (VPGAC) treatment units. The air emission calculations were compared to the Annual Guideline Concentrations (AGCs) and Short-Term Guideline Concentrations (SGCs) identified in the July 2016 NYSDEC AGC/SGC tables in DAR-1. A comparison of the pre-carbon emission rates (pounds per hour) from the blower indicated that all the target compound constituents in the air stream were substantially less than their respective AGCs and SGCs without the need for vapor phase treatment. The Division of Air Resources (DAR), at NYSDEC Region 6, approved the shutdown of the VPGAC treatment system for the SSSDS in correspondence dated October 28, 2020.

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An additional optimization effort was a reduction in the system OM&M activities with a recommended modification of the vapor sampling from the individual SDSs to sampling the combined effluent vapor from the regenerative blower prior to discharge to the atmosphere. In addition, it was recommended to remove the SSDS leak detection testing of the aboveground piping components from the OM&M procedures. The NYSDEC verbally approved the reduction of SSDS OM&M activities in a monthly call on July 1, 2020 and subsequently confirmed in a letter dated August 3, 2020 (NYSDEC, 2020).

Damage to a portion of the ConMed building slab required one SSDS extraction point (SDS-5) to be closed on October 21, 2024. Repair of the slab was completed in December 2024 and the extraction point was reopened on January 6, 2025.

The *2015 Annual Vapor Intrusion Study Report* recommended that the annual vapor intrusion monitoring program be discontinued in the eastern one-third of the building where the SSDS is located (Stantec, 2015a). NYSDEC and NYSDOH approved the discontinuation of the annual SVI monitoring program in the area of SSDS operation in a letter dated September 21, 2015.

In response to the NYSDEC's request in May of 2015 to evaluate the need to investigate the western portion of the facility for potential SVI, Lockheed Martin submitted a letter summarizing the existing historical data relating to potential SVI in the western portion of the building (Stantec, 2015b). Lockheed Martin agreed to perform supplemental VI investigations and submitted a work plan for additional SVI sampling in the western portion of the manufacturing facility (Stantec, 2015c). NYSDEC and NYSDOH approved the work plan in the same letter referenced above (dated September 21, 2015). SVI sampling for the western portion of the facility was performed in March 2016. The investigation findings and recommendations were summarized in a *Soil Vapor Intrusion Assessment* report and submitted to NYSDEC and NYSDOH on July 20, 2016 (Stantec, 2016d). The report was approved by NYSDEC and NYSDOH on September 22, 2016. Based on the results of the SVI assessment, no further investigations are warranted. Lockheed Martin decommissioned the vapor monitoring points in January 2017.

1.5 GROUNDWATER MONITORING HISTORY

After the installation of the GCTS, BBL subsequently developed a groundwater monitoring program to evaluate the effectiveness of the GCTS. This program, as presented in the Solvent Dock and Northern-Perimeter Ditch Area, *Ground-Water Sampling and Analysis Work Plan* (BBL, 1998), has been modified through periodic correspondence with NYSDEC to accommodate changing conditions over the project's life. ARCADIS prepared the IGWMP as part of the CMIP required by the Order. Since then, the IGWMP was revised in February 2012 (ARCADIS, 2012). Further modifications to the groundwater monitoring program were proposed in the *2015 Annual Site Management Report (2015 SMR; Stantec, 2016e)* and accepted by NYSDEC on May 24, 2016 (Stantec, 2016c). The IGWMP has been revised as a draft GWMP and was incorporated into the approved 2024 Interim SMP.

Lockheed Martin's investigations into the areas of concern identified at the site were presented in the 2009 *Corrective Measures Study Report (CMS; CMS 2009 Report; ARCADIS, 2009)*. The *CMS 2009 Report* selected monitored natural attenuation (MNA) as one of the remedial alternatives to be used as a corrective measure to address site groundwater contamination. Additionally, the *CMS 2009 Report* concluded that supplemental investigations in specific areas of the site were warranted to fully characterize the extent of contamination and to confirm the effectiveness of the remedial action recommendations. These investigations are summarized in the *Former Northern Perimeter Ditch Supplemental Investigation Report (SIR) (FNPd SIR; ARCADIS, 2011a)*, which confirmed the presence of VOC-contaminated groundwater near the FNPd and recommended further investigation of contaminants in soil, groundwater, and soil vapor, as well as improved characterization of hydrogeologic conditions.

A feasibility study (FS) report (ARCADIS, 2011b) for the FNPd was submitted to NYSDEC in June 2011. The FS proposed selection of a combination of *in-situ* biological treatment, continued operation of the GCTS, institutional controls, and MNA as the most feasible remedial alternative for the FNPd groundwater impacts. A bioremediation pilot test, which was implemented in April 2012, evaluated the feasibility of an *in-situ* reactive zone (IRZ) using injected food-grade molasses as a carbon source to facilitate enhanced reductive dechlorination. The low permeability of the soils and the low injection flow rates observed during the IRZ pilot test demonstrated that *in-situ* biological treatment is not a viable component for full-scale application.

The FNPd 2013 *Corrective Measures Study (CMS 2013 Report; ARCADIS, 2013b)*, which was prepared to address the requirements of a letter from NYSDEC to Lockheed Martin dated July 16, 2013, evaluated the performance of the ICMs operating at the facility and recommended a corrective measure alternative pertinent to the FNPd. The *CMS 2013 Report* concluded that the chlorinated VOCs in groundwater had decreased through natural attenuation processes and operation of the ICMs since monitoring began in 1996; however, certain VOCs continued to persist at concentrations above regulatory criteria. The components of the recommended corrective measures within the *CMS 2013 Report* included continued operation of the GCTS, institutional controls, and MNA. Following its submittal, the *CMS 2013 Report* was reviewed by

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NYSDEC for use in preparation of the SB. As described in the SB, the major components of the selected site remedy (specifically pertaining to groundwater impacts) included FNPD source-area soil removal, continued periodic groundwater monitoring, operation and maintenance of the existing GCTS, and institutional controls (in the form of a Site Management Plan).

The GCTS data were evaluated and summarized in the GCTS Optimization Investigation Summary Report prepared by Tetra Tech dated July 2022 (Tetra Tech, 2022). The GCTS Optimization Investigation Summary Report recommended the permanent shutdown of the GCTS with quarterly sampling of the catch basins in October 2022, January 2023, and April 2023. The NYSDEC approved the GCTS Optimization Investigation Summary Report in a letter dated August 2022 (NYSDEC, 2022). The catch basins were sampled in October 2022, January 2023, and May 2023 and the annual groundwater sampling event was conducted in June 2023. As discussed above, the GCTS was permanently shut down in 2023 and then decommissioned with the SPDES permit discontinued, with the NYSDEC approval in 2024.

2.0 ENGINEERING CONTROLS

Since remaining contamination exists at the site, ECs are required to protect human health and the environment. The ECs are described below and detailed in Appendices A through C of this SMR.

2.1 SSDS PERFORMANCE

This section of the SMR documents the following: continuous, ongoing operation and maintenance of the SSDS; monitoring of sub-slab differential pressures; and quarterly effluent vapor sampling. Appendix A of this report summarizes the SSDS OM&M operational activities and system performance from January through December 2025 in the following sections:

- **Section 2** provides a brief history of system expansions and upgrades since the SSDS operation began, a list of all major SSDS components, and details of the main SSDS remedial operational objectives;
- **Section 3** describes operation and maintenance activities that occurred during the reporting period, including routine, non-routine, alarm response, and system modification activities;
- **Section 4** reviews daily, monthly, and quarterly monitoring activities during the reporting period;
- **Section 5** provides a summation of the SSDS 2025 performance results. Overall, the system performed effectively during the reporting period, as demonstrated by the following performance criteria:
 - Sufficient radius of vacuum in the sub-slab vapor environment beneath the building floor slab maintained at or greater than 0.004 in. W.C.,
 - 96.80% system runtime, and
 - Contaminant mass concentrations in the system vapor effluent remained below the NYSDEC DAR-1 guidance values.
- **Section 6** describes 2026 goals and recommendations, including the following:
 - The goals for operation maintenance and monitoring for the SSDS in 2026 remain unchanged.

2.2 COVER SYSTEM

This section of the report documents the ongoing satisfactory performance of the site cover system. Appendix B of this report summarizes the cover system inspection completed on October 23, 2025, to assess cover system conditions and performance from January through December 2025 in the following sections:

- **Section 2** provides a description of the cover system and its remedial objectives, as outlined in the SB;
- **Section 3** details the site cover system inspection completed by Tetra Tech, on October 23, 2025, with important items for the system's performance noted;
- **Section 4** reviews the system performance results. Overall, the system performed effectively during the reporting period; and
- **Section 5** describes 2026 goals and recommendations, including the following:
 - Inspection will continue on an annual basis; and
 - Continued communication between ConMed, Lockheed Martin, and Lockheed Martin's Performing Contractor (PC) on any ground-intrusive or re-paving work planned for 2026 is recommended to allow for timely documentation of changes to the cover system.

3.0 INSTITUTIONAL CONTROLS

A series of ICs is required by the SB to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination; and (3) limit the use and development of the site to Industrial or Commercial uses only. Adherence to these ICs will be required by the environmental easement (EE) once it is implemented. Following finalization of the updated draft SMP, in accordance with the SB, the ICs will be implemented under the finalized SMP.

4.0 GROUNDWATER MONITORING

This section of the report documents the groundwater monitoring activities performed at the site, including water level gauging and groundwater sampling for laboratory analysis. The criteria to which groundwater analytical results are compared are NYSDEC's Division of Water *Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (SGVs)* and associated addenda (NYSDEC, 1998); April 2000 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1 (NYSDEC, 2000); and Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1 (NYSDEC, 2004). Groundwater monitoring is required by the SB to address the remedial objectives described in Section 1.1. Appendix C of this report summarizes the groundwater monitoring activities performed in December 2025 in the following sections:

- **Section 2** provides a brief description of site groundwater impacts, investigation history, contaminant distribution, and monitoring goals;
- **Section 3** describes the groundwater monitoring parameters, locations, and objectives of the *draft GWMP*.
- **Section 4** evaluates the results of the December 2025 groundwater monitoring program and site geochemistry. Section 4 also includes a description of the data quality review;
- **Section 5** provides recommendations relative to future monitoring and evaluation of data; and
- **Section 6** lists references cited in the report.

The December 2025 groundwater monitoring results indicate that groundwater quality remains stable. The Mann-Kendall trend analysis identified five statistically significant decreasing trends (PCE at MW-3; TCE and cis-1,2-DCE at MW-18; PCE and TCE at PZ-6) and no significantly increasing trends. Overall, the groundwater contaminant plume appears relatively stable with respect to contaminant concentrations and plume extent. Hydrogeologic conditions, including site geochemistry and groundwater flow direction, have remained consistent over the past nine years of monitoring.

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UTICA, NEW YORK**

4.1 RECENT PROGRAM MODIFICATIONS

Since 2017, groundwater monitoring was performed on an annual basis but was modified in 2021 with two quarterly groundwater monitoring and storm sewer monitoring events during the temporary shutdown of the GCTS in 2021. The data have been evaluated and summarized in the GCTS Optimization Investigation Summary Report prepared by Tetra Tech dated July 2022 (Tetra Tech, 2022). The GCTS Optimization Investigation Summary Report recommended the permanent shutdown of the GCTS with quarterly sampling of the catch basins in October 2022, January 2023, and April 2023. The NYSDEC approved the GCTS Optimization Investigation Summary Report in a letter dated August 2022 (NYSDEC, 2022). The catch basins were sampled in October 2022, January 2023, and May 2023 and the annual groundwater sampling event was conducted in June 2023. Additional annual groundwater sampling events were conducted in September 2024 and December 2025 with minor modifications to the wells sampled; sampling of PZ-27 and A2-PZ-3 was added in 2024 and sampling of PZ-11R and PZ-13R was removed in 2025.

4.2 RECOMMENDATIONS

A groundwater monitoring event will be conducted in March 2027.

There are no other recommendations.

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5.0 REFERENCES

- ARCADIS, 2008a *Addendum to the Vapor Intrusion Study Report for the Solvent Dock Area, Former Lockheed Martin French Road Facility.* February 29, 2008.
- ARCADIS, 2008b *Revised Work Plan for the Interim Corrective Measure, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica New York.* [revised] April 30, 2008.
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- ARCADIS, 2010 *Sub-Slab Depressurization System 100% Design Work Plan, Former Lockheed Martin French Road Facility.* February 16, 2010.
- ARCADIS, 2011a *Former Northern Perimeter Ditch Supplemental Investigation Report, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York.* March 4, 2011.
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- ARCADIS, 2013a *Summary Report for SSDS Pilot Test in Area of VMP-7A, Solvent Dock Area, Former Lockheed Martin French Road Facility, 525 French Road, Utica, New York.* July 2, 2013.
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- ARCADIS, 2014 *Summary Report for Startup of SDS-8 (in the Area of VMP-7A), Solvent Dock Area, Former Lockheed Martin French Road Facility, 525 French Road, Utica, New York.* January 2014.
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EarthTech, 2006 *Vapor Intrusion Study Report for the Solvent Dock Area. April 2006.*

NYSDEC, 1998 *Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998.*

NYSDEC, 2000 *April 2000 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1. (originator – Scott Stoner). April 2000.*

NYSDEC, 2004 *Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1. June 2004.*

NYSDEC, 2008 *Order on Consent, Index Number: CO 6-20080321-5. October 3, 2008.*

NYSDEC, 2015 *Final Statement of Basis, Corrective Measures Selection, Former Lockheed Martin-French Road Facility, Operable Units 01 & 02, Site No. 633036A, EPA ID No. NYD000521971, Utica, Oneida County. March 2015.*

NYSDEC, 2018 *Approval letter for the Brown and Caldwell 100% Remedial Action Work Plan, Soil Removal, Former Lockheed Martin Corporation French Road Facility, Utica, New York. August 14, 2018.*

NYSDEC, 2019 *Approval letter for the Tetra Tech Remedial Action Work Plan, Former Lockheed Martin Corporation French Road Facility, Utica, New York. September 12, 2019.*

NYSDEC, 2020a *Approval letter for the Brown and Caldwell Construction Completion Report for PCB-Impacted Soil Removal, Former Lockheed Martin Corporation French Road Facility, Utica, New York. September 18, 2020.*

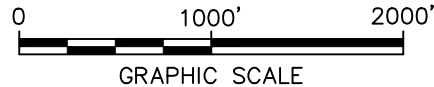
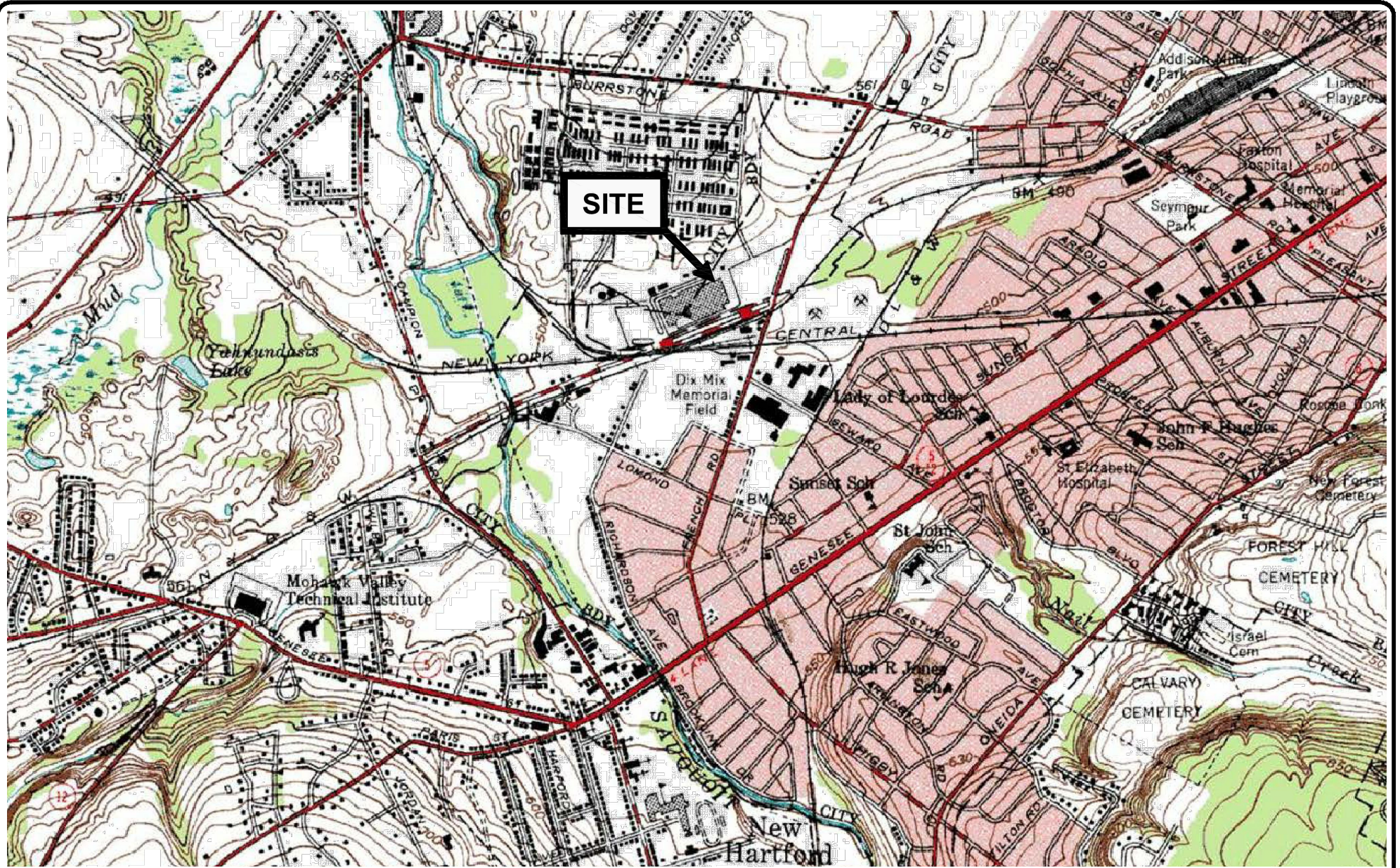
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NYSDEC, 2020b	Approval letter for the Tetra Tech Construction Completion Report for the Former Northern Perimeter Ditch Soil Removal, Former Lockheed Martin Corporation French Road Facility, Utica, New York. September 18, 2020.
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NYSDOH, 2006	<i>Guidance for Evaluating Soil Vapor Intrusion in the State of New York.</i> October 2006.
Stantec, 2015a	<i>2015 Annual Vapor Intrusion Study, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York.</i> August 24, 2015.
Stantec, 2015b	<i>Assessment of Potential Soil Vapor Intrusion, Western Portion of Manufacturing Facility, Former Lockheed Martin French Road Facility, 525 French Road, Utica, New York, NYSDEC Site No. 633036A.</i> August 24, 2015.
Stantec, 2015c	<i>Work Plan for Soil Vapor Intrusion Sampling, Western Portion of Manufacturing Facility, Former Lockheed Martin French Road Facility, 525 French Road, Utica, New York, NYSDEC Site No. 633036A.</i> September 8, 2015.
Stantec, 2016a	<i>Draft Excavation Initial Design Investigation Report, Former Lockheed Martin French Road Facility, Utica, New York.</i> November 9, 2016.
Stantec, 2016b	<i>Draft Interim Site Management Plan, Former Lockheed Martin French Road Facility, Solvent Dock Area and West Lot, Oneida County, Utica, New York, NYSDEC Site Numbers: 633036 and 633036A.</i> July 2016.
Stantec, 2016c	<i>Interim Groundwater Monitoring Program, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York.</i> [revised] May 23, 2016.

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Stantec, 2016d	<i>Soil Vapor Intrusion Assessment, Western Building Areas, Former Lockheed Martin French Road Facility, Utica, New York. July 20, 2016.</i>
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Tetra Tech, 2019	<i>Remedial Action Work Plan, Former Lockheed Martin Corporation French Road Facility, Utica, New York. September 17, 2019.</i>
Tetra Tech, 2020	<i>Construction Completion Report Former Northern Perimeter Ditch Soil Removal, Former Lockheed Martin French Road Facility, Utica, New York. July 2020.</i>
Tetra Tech, 2021a	<i>Sub-Slab Depressurization System Operational, Maintenance, and Monitoring Plan, Former Lockheed Martin French Road Facility, Utica, New York. Updated February 2021.</i>
Tetra Tech, 2021b	<i>Groundwater Collection and Treatment System Operations, Maintenance, and Monitoring Manual, Solvent Dock Area. Updated February 2021.</i>
Tetra Tech, 2021c	<i>GCTS Optimization Investigation Work Plan, Former Lockheed Martin French Road Facility, Utica, New York. February 2021.</i>
Tetra Tech, 2021d	<i>2020 Site Management Report, Former Lockheed Martin French Road Facility, Utica, New York. March 2021.</i>

FIGURES



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FORMER LOCKHEED MARTIN FRENCH ROAD FACILITY, UTICA, NY

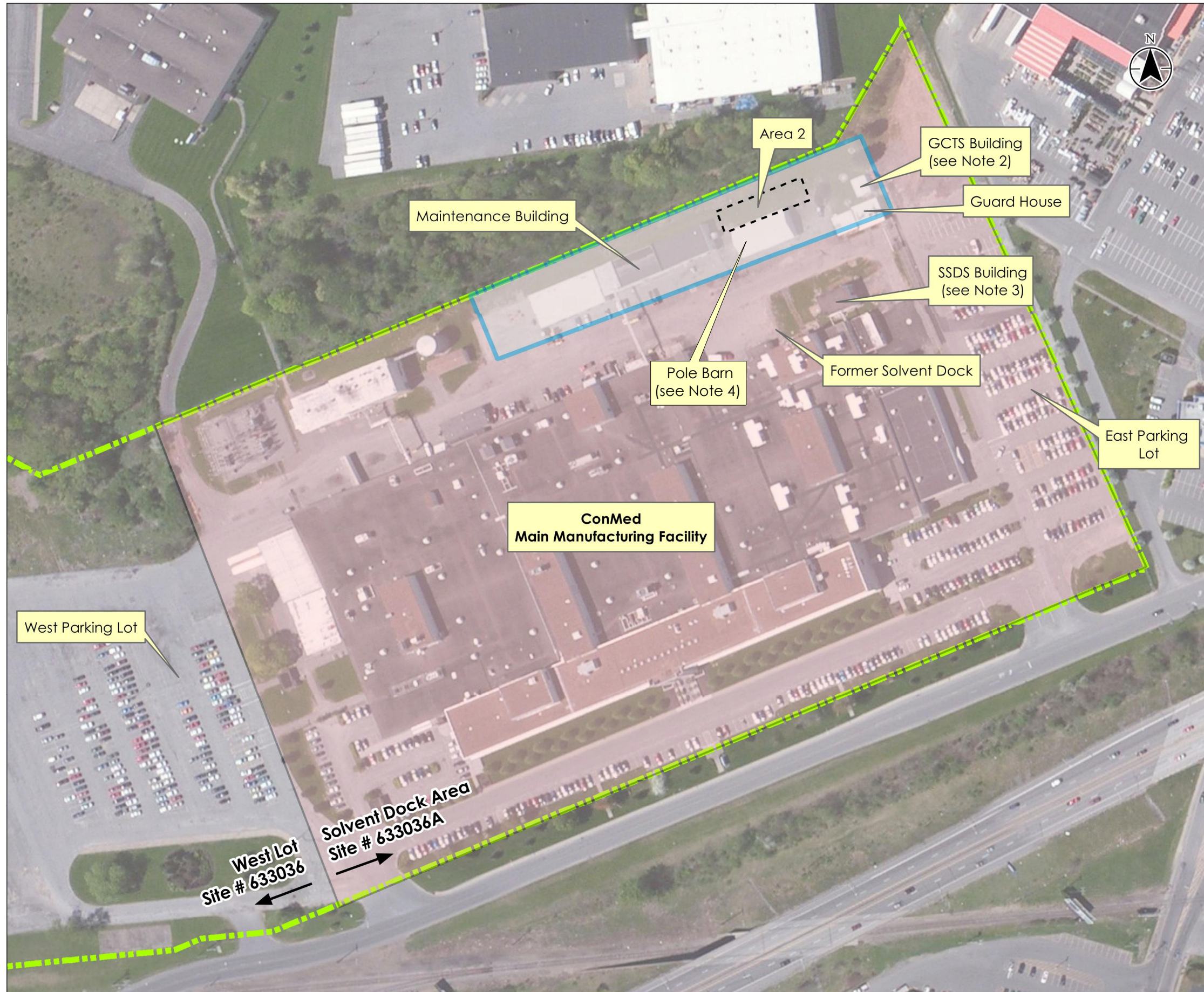
SITE LOCATION MAP







TETRA TECH

CHECKED	MRN
DRAFTED	HJW
PROJECT	117-0507677
DATE	1/9/24

FIGURE:	1
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Legend

-  Former Northern Perimeter Ditch (FNPD)
-  FNPD Proposed Excavation Areas
-  Cover System Extent
-  Property Line



Notes

1. Coordinate System:
NAD 1983 State Plane New York Central FIPS 3102 Feet.
2. See Figure B-1 for the extent and layout of the GCTS (Appendix B: Groundwater Collection and Treatment System Operation, Maintenance, and Monitoring Performance Report).
3. See Figure A-1 for the extent and layout of the SSDS (Appendix A: Sub-Slab Depressurization System Operation, Maintenance, and Monitoring Performance Report).
4. The pole barn was dismantled in October 2018 as part of the soil removal activities. The concrete slab-on-grade remains.



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SITE LAYOUT



CHECKED	MRN	FIGURE: 2
DRAFTED	CMP	
PROJECT	117-0507677	
DATE	1/8/24	

APPENDICES