DEPARTMENT OF THE AIR FORCE
AIR FORCE CIVIL ENGINEER CENTER

May 19, 2025

MEMORANDUM FOR: New York State Department of Environmental Conservation
Attn: Ms. Heather Bishop
Ms. Sankavi Sampath
Bureau of Eastern Remedial Action
625 Broadway 12th Floor
Albany, NY 12233-7015

FROM: AFCEC/CZBE – Plattsburgh
8 Colorado Street, Suite 121
Plattsburgh NY 12903

SUBJECT: NYSDEC Spill No. 9202658
System Decommissioning Work Plan, Site SS054 (Building 781), Former Griffiss Air Force Base, Rome, NY (Document Control No. 106-NEBECOS-0004-GRI).

Accompanying this letter, please find the System Decommissioning Work Plan, Site SS054 (Building 781), Former Griffiss Air Force Base, Rome, NY (16 May 2025).

As indicated in the work plan:

Remediation efforts at Site SS054 (NYSDEC Spill No. 9202658) commenced in 2002 and included product recovery, bioventing, biosparging and surfactant injection and extraction. In 2022 the U.S. Air Force requested spill-closeout of Spill No. 9202658 with a determination of No Further Action at this time. Closure was granted by the NYSDEC in a letter dated 2 June 2023 (NYSDEC, June 2023).

The enclosed work plan details the plan to remove remediation system components and abandon wells at the site. As indicated in the work plan monitoring wells 781MW-2, 781MW-3, 781MW-7, 781MW-8, 781MW-11, 781MW-13R, 781MW-15, 781MW-20, and 781MW-21 will remain for future use. Although the NYSDEC has closed Spill No 9202658, a copy of the work plan is provided as a courtesy to the NYSDEC.

This report is being provided electronically only, hard copies and CDs will be provided, as needed. Should you have any questions or concerns please contact me at 518-563-2871 or david.farnsworth@us.af.mil.

DAVID S. FARNSWORTH, DAF
Program Manager/BRAC Environmental Coordinator
BRAC Program Management Division

Attachment: System Decommissioning Work Plan, Site SS054 (Building 781), Former Griffiss Air Force Base, Rome, NY (16 May 2025).

Cc: Mr. Frank Sanzone, GLDC
Mr. Robert Morse, RPM, EPA
Mr. Daniel Dagostino, RPM, EPA
Ms. Christina Villanueva, CO, AFCEC
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BRAC AR

TECHNICAL MEMORANDUM

Final
System Decommissioning Work Plan
Site SS054 (Building 781)
Former Griffiss Air Force Base, Rome, NY
Contract No.: FA8903-20-D-0001
Task Order: 110
Document Control No.: 110-NEBECOS-0004-GRI

PREPARED FOR: Mr. David Farnsworth/Former Griffiss Air Force Base, Base Realignment and Closure (BRAC) Environmental Coordinator (BEC) and Contracting Officer's Representative (COR)

PREPARED BY: Bhate Environmental Associates, Inc. (Bhate)

COPIES: Ms. Heather Bishop, New York State Department of Environmental Conservation (NYSDEC)

DATE: 19 May 2025

The New York State Department of Environmental Conservation (NYSDEC) has issued closure of Petroleum Spill Site SS054 (NYSDEC Spill Number [No.] 9202658) at the former Griffiss Air Force Base. In response, the U.S. Air Force has a request to decommission the inactive remediation system associated with the site. System components include compressor/blowers, system enclosures, aboveground piping with support posts, monitoring wells, injection wells, remediation wells, and biosparge wells.

Site Description and History

Site SS054 (Building 781 Pumphouse) includes the former Pumphouse 1 and is located in the southern portion of the former Griffiss AFB (**Figure 1**). Pumphouse 1 was constructed between 1956 and 1958 to provide Jet Propulsion Fuel No. 4 (JP-4) to the fuel distribution system located on the base's aircraft parking aprons. Four 50,000-gallon underground storage tanks (USTs) and one 2,000-gallon UST were formerly beneath Pumphouse 1. The four 50,000-gallon USTs were used to store jet fuel, and the 2,000-gallon UST was used to store waste jet fuel, separator water, and liquids collected from the pumphouse floor drain. Jet fuel was supplied to Pumphouse 1 via a pipeline from the Bulk Fuel Storage Area located near the Barge Canal on the southern boundary of the base. Jet fuel was transferred from the pumphouse to the fuel hydrants at the aircraft parking aprons via underground piping and aboveground pumps. Use of Pumphouse 1 was discontinued in 1988, and the USTs were emptied and cleaned out between July 1988 and August 1989. The site features, including monitoring wells, are shown on **Figure 2.** The NYSDEC assigned Spill No. 9202658 in 1992 following the discovery of free product in the area.

The site is located in an area that is topographically high in relation to the airfield pavements. The Strategic Air Command (SAC) Hill area is made up of unconsolidated sediments consisting of well sorted sands with some silty, fine sands and gravely-sands.

Depth to groundwater at the Building 781 Site ranges from 52 to 58 feet (ft) below ground surface (bgs), resulting in a larger unsaturated zone than most of the other spill sites across the base. Surface water infiltrating through the unconsolidated sediments enters the unconfined aquifer and flows parallel to the bedrock slope in a northeast to southwest (higher to lower elevation) direction (**Figure 2**).

Previous Investigations and Remedial Actions

Several previous investigations were conducted at the SS054 Site. Information from these investigation reports was presented in the *Final Building 781 (Pumphouse 1) Supplemental Investigation Report (AOC SS054) NYSDEC Spill Number 9202658* (AECOM, July 2012) and is summarized below.

Free product was reported in monitoring well 781MW-1 in June 1992 at a thickness of 0.28 ft. This was reported to the NYSDEC, and the site was assigned Spill No. 9202658. Pumphouse 1 and its associated USTs were removed in May 1995. The exposed transfer pipeline from the Barge Canal and the refueling and defueling lines located at the limits of the UST basin excavation were cut and crimped at the edges. A total of 672 tons of contaminated soil was excavated during UST removal activities.

A Site Investigation was initiated in June 1997 to characterize and delineate the soil contamination. Between April and August 1999, a groundwater investigation was conducted to determine the extent of the contamination at Building 781. Soil contamination was encountered primarily at the water table (54-60 ft bgs) and was attributed to groundwater contamination at the site. Groundwater monitoring commenced in June 2002 to evaluate the residual groundwater contamination. A free-product recovery system (including recovery wells 781PPRW-1, -2, -3, and -4) and a bioventing system (including injection well 781PAIW-1 and vapor monitoring wells 781PVMP-1, -2, and -3) were installed in October 2002. Free product removal was conducted at the site from 2002 to 2004. Bioventing was conducted from 2004 to 2007 at which time the system was retrofitted to a vertical biosparging system. In November 2017, a pilot study was completed to evaluate the use of Ivey-sol® 103 Surfactant Enhanced Remediation® Push-Pull™ technology to facilitate the removal of free product in and near monitoring well 781MW-13. No free product was observed in the recovery tank during the study and no free product was detected in the vicinity of 781MW-13 during 2018. The biosparge system has been offline since October 2018. The site is currently progressing under the monitored natural attenuation (MNA) portion of the remedy. Contaminants of concern (COCs) in the groundwater include benzene, toluene, ethylbenzene, and xylenes (BTEX) and both 1,2,4- and 1,3,5-trimethylbenzene.

Site Closure

A free product recovery system and bioventing system operated from 2004 to 2007 to remove free product at SS054. A bioventing system operated from 2004 to 2007 and was converted into a biosparge system in 2011 and operated until 2018. Gauging results indicate that the free product previously observed at SS054 was no longer present in wells at the site since 2017. Based on the historical analytical data, the contaminant trends for wells in the dissolved phase groundwater plume are decreasing. A summary of the rationale for the close out of SS054 (NYSDEC Spill No. 9202658) included:

- Free product removal from the water table;
- General reduction in dissolved phase groundwater plume over time due to natural attenuation; and
- Lack of plume migration downgradient at 781MW-20 and 781MW-21.

Based on the rationale, the U.S. Air Force requested spill-close out of NYSDEC Spill No. 9202658 (SS054) with a determination of No Further Action at this time (Bhate, 2022). Spill site closure was granted by the NYSDEC in a letter dated 2 June 2023 (NYSDEC, June 2023).

Remediation System Components

The following is a list of components that comprise the remediation system. The locations of these components are indicated on **Figure 2**. :

- An equipment shed (Building 788) containing regenerative blower, manual electrical disconnect, and shelving with miscellaneous old parts and field supplies;
- A second open sided shed, located northeast of Ready Road, housing a circuit breaker box;
- Aboveground polyvinyl chloride (PVC) piping and supports that connected the equipment shed to individual sparge wells;
- Two subgrade pipe-runs located beneath roadways at the site;
- A stockpile of old PVC piping adjacent to Building 788;
- Thirteen monitoring wells constructed with 2-inch PVC and stick-up completions, average depth of approximately 63 ft bgs;
- Two injection wells constructed with 4-inch diameter PVC and stick-up completions, average depth of 63 ft bgs;
- Nine recovery wells constructed with 4-inch PVC and stick-up (8) and flush mount (1) completions, average depth of 63 ft bgs; and
- Twelve biosparge wells constructed with 1-inch PVC and stick-up (10) and flush mount (2), average depth of 65 ft bgs.

Pre-removal Planning and Preparation

Conduct a site walkthrough to confirm the layout of the system, identify potential hazards, and ensure all components are properly identified. Determine electricity shut-off points, and ensure they are safely deactivated. Obtain utility clearances from the Griffiss Local Development Corporation (GLDC) and UDIG NY.

Obtain power and hand tools for dismantling PVC piping and equipment. Tools may include a Sawzall, wire cutters, and various wrenches. Blowers are awkward to lift and heavy, a hand truck is recommended to remove the blower from the building. Maintain personal protective equipment on-site for use as needed including hard hats, gloves, safety glasses, and hearing protection. Temporary barriers, signage, and/or fencing to keep unauthorized personnel out of the work area.

A roll-off container should be mobilized at the start of the project for proper disposal of PVC piping and debris.

System Decommissioning

Power cables, electrical equipment, building, and piping must be dismantled and removed. The decommissioning process will occur in phases over several days or weeks.

Electrical

Electrical service has been previously disconnected at the meter on the east side of Building 788. Prior to commencing work, the electrical service disconnect will be confirmed with a voltage meter. Electrical equipment can then be disconnected and removed. Blowers should be mounted on pallets for transport and disposal or permanent storage. Cable and wiring shall be removed from conduits and aboveground conduits removed as practicable. All electrical components except blowers will be placed in the roll-off and discarded at a local landfill.

Building 788

The ceiling of Building 788 is deteriorating which presents health and safety concerns for those working inside the building. Prior to removal of materials and equipment stored within Building 788, loose and unstable debris should be removed for disposal. Materials stored in Building 788 are no longer needed and shall be considered rubbish for disposal. Any hazardous liquids (oil, lubricant, etc.) shall be disposed of properly. Former materials (piping, fencing, posts, pallets) associated with the remediation systems are staged within and near Building 788 shall be placed in roll-off boxes.

After removal of any enclosed system equipment in the open sided shed, the shed will be demolished and removed.

Aboveground piping removal

Schedule 40 PVC piping in various diameters connects the blower in Building 788 to multiple biosparge wells across the site (**Figure 2**). Approximately 1,400 linear ft of aboveground piping and associated support posts will be cut into manageable sections and placed in the roll-off for later disposal. Piping was used for conveyance of compressed air and is considered non-hazardous solid waste. Wells 781MW-5 and 781MW-18 still contain the 1-inch diameter schedule 40 PVC drop tubes which shall be removed and added to the roll-off.

The stockpiled PVC located adjacent to Building 788 should also be cut into manageable pieces and loaded into the roll-off for transport.

Below-Grade Piping Abandonment

The PVC conveyance piping is below grade beneath two roadways. One section passes beneath Ready Road and the second is located under the dirt access road (southern extension of Ready Road) northeast of Building 788 (**Figure 2**). These below-grade PVC conveyances shall be abandoned in-place by cutting and capping each end below grade.

Well Abandonment

Thirty-six of the 45 site wells will be abandoned in-place. Monitoring wells 781MW-2, 781MW-3, 781MW-7, 781MW-8, 781MW-11, 781MW-13R, 781MW-15, 781MW-20, and 781MW-21 will remain for future use. Abandonment will be conducted by a licensed driller and will include grouting the subsurface portion of well casings and removal of all surface completion materials including but not limited to protective casings, concrete well pads, and any associated bollards. Well locations are shown on **Figure 2**.

The selected wells shall be abandoned in accordance with NYSDEC Groundwater Monitoring Well Decommissioning Procedures including notifications and reporting per NYSDEC policy *CP-43: Groundwater Monitoring Well Decommissioning Policy*. Grouting in-place will be the preferred abandonment method. Prior to commencing work, utility clearances will be coordinated with the GLDC and UDIG NY. Well construction details are shown in **Table 1**.

Below is a list of the name and type of well to be abandoned.

- Thirteen monitoring wells are constructed of 2-inch PVC as stick-up completions with an average depth of approximately 63 ft bgs. Wells to be abandoned are: 781MW-1, 781MW-4, 781MW-5, 781MW-6, 781MW-9, 781MW-10, 781MW-12, 781MW-13, 781MW-14, 781MW-16, 781MW-17, and 781MW-18, 781MW-19.
- Wells to remain intact are: 781MW-2, 781MW-3, 781MW-7, 781MW-8, 781MW-11, 781MW-13R, 781MW-15, 781MW-20, and 781MW-21.
- Two injection wells (781PAIW-1 and 781PAIW-2) are constructed of 4-inch diameter PVC as stick-up completions with an average depth of 63 ft bgs.
- Nine recovery wells are constructed of 4-inch PVC with an average depth of 65 ft bgs.

Eight are stick-up completions (781PPRW-1, 781PPRW-2, 781PPRW-3, 781PPRW-4, 781PPRW-5, 781PPRW-6, 781PPRW-7, and 781PPRW-8) and one is a flush mount completion (781PPRW-9).

- Twelve biosparge wells are constructed of 1-inch PVC with an average depth of 65 ft bgs. Ten are stick-up completions (781VBS-1, 781VBS-2, 781VBS-3, 781VBS-4, 781VBS-5, 781VBS-6, 781VBS-7, 781VBS-8, 781VBS-11, and 781VBS-12) and two are flush mount (781VBS-9 and 781VBS-10).

Wells will be abandoned with tremie grout wells from bottom up to within 5 ft of the surface, cutting well casing at the 5-foot depth, removing the top portion of casing, and backfill to ground surface with clean soil. Standard grout mixture shall consist of one 94-pound bag of Type I Portland cement, 3.9 pounds of powdered bentonite, and 7.8 gallons of potable water. Potable water sources are available on-site.

Upon completion of abandonment, the surface at each location shall be restored with like surface material, either concrete, asphalt patch or seed and straw mulch.

Investigation Derived Material

Except for remediation system blowers/compressors, on-site personnel will oversee and verify the placement of all removed materials/debris/wastes in roll-off boxes. Final disposition on the location of remediation system blowers/compressors will be determined by the Air Force prior to the system decommissioning date. Metal components including well protective casings, bollards, and electrical components will be segregated from non-metal materials and transported to a metals recycling facility. Blowers and compressors may be placed in storage for reuse or transported to a metals recycling facility.

References

AECOM. July 2012, *Final Building 781 (Pumphouse 1) Supplemental Investigation Report (AOC SS054) NYSDEC Spill Number 9202658, Former Griffiss Air Force Base, Rome, New York*.

Bhate. October 2022. *2021 Annual Monitoring Report for Petroleum Spill Sites, Former Griffiss Air Force Base, Rome, New York*.

NYSDEC. June 2023. Letter to Dave Farnsworth. June 2, 2023. RE: Spill No. 9202658. GAFB BLDG 781, Pumphouse Ready Road, SAC Hill, Rome (C), Onieda County.

TABLES

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Table 1. Site SS054 Well Inventory
Former Griffiss Air Force Base

Well ID	Well Type	Well Use	IRP Site	Northing	Easting	Casing Type	Surface Completion Type	As-Built Depth (ft bgs)	Ground Elevation (ft amsl)	TOC Elevation (ft amsl)	Stickup Height (ft)	Last Measured Depth (ft btoc)	Screened Interval (ft bgs)	Screen Length
781MW-1	Monitoring Well	SS054-LTM	SS054	1172759.69	1136628.86	2" PVC	Stick-up	64.5	516.2	515.71	-0.49	66.90	49.5 - 64.5	15.0
781MW-4	Monitoring Well	SS054-LTM	SS054	1172565.01	1136720.25	2" PVC	Stick-up	64.0	513.5	515.89	2.39	-	54.0 - 64.0	10.0
781MW-5	Monitoring Well	SS054-LTM	SS054	1172499.44	1136657.45	2" PVC	Stick-up	65.0	515.5	517.04	1.54	68.85	55.0 - 65.0	10.0
781MW-6	Monitoring Well	SS054-LTM	SS054	1172461.56	1136622.83	2" PVC	Stick-up	64.0	515.9	517.26	1.36	69.70	54.0 - 64.0	10.0
781MW-9	Monitoring Well	SS054-LTM	SS054	1172729.68	1136670.72	2" PVC	Stick-up	64.0	515.6	516.90	1.30	65.57	54.0 - 64.0	10.0
781MW-10	Monitoring Well	SS054-LTM	SS054	1172684.63	1136737.68	2" PVC	Stick-up	63.0	513.77	515.26	1.49	67.12	53.0 - 63.0	10.0
781MW-12	Monitoring Well	SS054-LTM	SS054	1172423.31	1136584.90	2" PVC	Stick-up	68.0	515.7	517.16	1.46	70.48	58.0 - 68.0	10.0
781MW-13	Monitoring Well	SS054-LTM	SS054	1172356.88	1136714.54	2" PVC	Stick-up	65.0	510.5	512.49	1.99	68.20	55.0 - 65.0	10.0
781MW-14	Monitoring Well	SS054-LTM	SS054	1172440.17	1136799.26	2" PVC	Stick-up	62.0	508.8	510.87	2.07	65.80	52.0 - 62.0	10.0
781MW-16	Monitoring Well	SS054-LTM	SS054	1172328.65	1136850.64	2" PVC	Stick-up	60.0	505.6	507.65	2.05	60.00	50.0 - 60.0	10.0
781MW-17	Monitoring Well	SS054-LTM	SS054	1172267.74	1136601.31	2" PVC	Stick-up	67.0	512.6	515.20	2.60	70.20	57.0 - 67.0	10.0
781MW-18	Monitoring Well	SS054-LTM	SS054	1172164.51	1136652.64	2" PVC	Stick-up	58.0	505.7	507.48	1.78	64.08	48.0 - 58.0	10.0
781MW-19	Monitoring Well	SS054-LTM	SS054	1172189.84	1136794.56	2" PVC	Stick-up	51.0	495.7	497.41	1.71	52.78	41.0 - 51.0	10.0
781PAIW-1	Injection Well	SS054-LTM	SS054	1172601.22	1136721.02	4" PVC	Stick-up	63.0	515.8	518.57	2.77	-	48.0 - 63.0	15.0
781PAIW-2	Injection Well	SS054-LTM	SS054	1172741.51	1136680.88	4" PVC	Stick-up	63.0	514.56	NS	-	-	NA - NA	NA
781PPRW-1	Recovery Well	SS054-LTM	SS054	1172345.47	1136716.56	4" PVC	Stick-up	63.0	510.7	513.44	2.74	56.78	48.0 - 63.0	15.0
781PPRW-2	Recovery Well	SS054-LTM	SS054	1172357.03	1136702.25	4" PVC	Stick-up	64.0	512.2	514.54	2.34	57.80	49.0 - 64.0	15.0
781PPRW-3	Recovery Well	SS054-LTM	SS054	1172446.25	1136690.41	4" PVC	Stick-up	64.0	513.6	516.85	3.25	56.64	49.0 - 64.0	15.0
781PPRW-4	Recovery Well	SS054-LTM	SS054	1172360.83	1136725.48	4" PVC	Stick-up	63.0	510.5	513.51	3.01	55.49	48.0 - 63.0	15.0
781PPRW-5	Recovery Well	SS054-LTM	SS054	1172476.70	1136729.99	4" PVC	Stick-up	64.0	512.3	515.80	3.50	-	NA - NA	NA
781PPRW-6	Recovery Well	SS054-LTM	SS054	1172499.30	1136683.81	4" PVC	Stick-up	64.0	514.3	517.76	3.46	-	NA - NA	NA
781PPRW-7	Recovery Well	SS054-LTM	SS054	1172549.26	1136681.02	4" PVC	Stick-up	64.0	514.6	517.85	3.25	-	NA - NA	NA
781PPRW-8	Recovery Well	SS054-LTM	SS054	1172578.19	1136634.82	4" PVC	Stick-up	64.0	515.1	518.58	3.48	-	NA - NA	NA
781PPRW-9	Recovery Well	SS054-LTM	SS054	1172697.50	1136592.62	4" PVC	Flushmount	56.0	513.0	512.77	-0.23	57.30	46.0 - 56.0	10.0
781VBS-1	Biosparge	SS054	SS054	1172404.54	1136693.69	1" PVC	Stick-up	65.0	NS	NS	-	-	60.0 - 65.0	5.0
781VBS-2	Biosparge	SS054	SS054	1172365.64	1136696.82	1" PVC	Stick-up	65.0	NS	NS	-	-	60.0 - 65.0	5.0
781VBS-3	Biosparge	SS054	SS054	1172337.59	1136724.30	1" PVC	Stick-up	65.0	NS	NS	-	-	60.0 - 65.0	5.0
781VBS-4	Biosparge	SS054	SS054	1172364.22	1136742.99	1" PVC	Stick-up	62.0	NS	NS	-	-	57.0 - 62.0	5.0
781VBS-5	Biosparge	SS054	SS054	1172210.87	1136641.48	1" PVC	Stick-up	64.0	NS	NS	-	-	59.0 - 64.0	5.0
781VBS-6	Biosparge	SS054	SS054	1172241.28	1136626.67	1" PVC	Stick-up	70.0	NS	NS	-	-	65.0 - 70.0	5.0
781VBS-7	Biosparge	SS054	SS054	1172270.77	1136556.43	1" PVC	Stick-up	70.0	NS	NS	-	-	65.0 - 70.0	5.0
781VBS-8	Biosparge	SS054	SS054	1172627.12	1136699.84	1" PVC	Stick-up	60.0	NS	NS	-	-	55.0 - 60.0	5.0
781VBS-9	Biosparge	SS054	SS054	1172640.61	1136608.44	1" PVC	Flushmount	65.0	NS	NS	-	-	60.0 - 65.0	5.0
781VBS-10	Biosparge	SS054	SS054	1172688.87	1136626.85	1" PVC	Flushmount	64.0	NS	NS	-	-	59.0 - 64.0	5.0
781VBS-11	Biosparge	SS054	SS054	1172749.46	1136657.95	1" PVC	Stick-up	62.0	NS	NS	-	-	60.0 - 62.0	2.0
781VBS-12	Biosparge	SS054	SS054	1172707.46	1136697.70	1" PVC	Stick-up	64.5	NS	NS	-	-	59.5 - 64.5	5.0

Notes: "-" - Data not collected NS - Not surveyed NA - Data not available

Table 1. Site SS054 Well Inventory
Former Griffiss Air Force Base

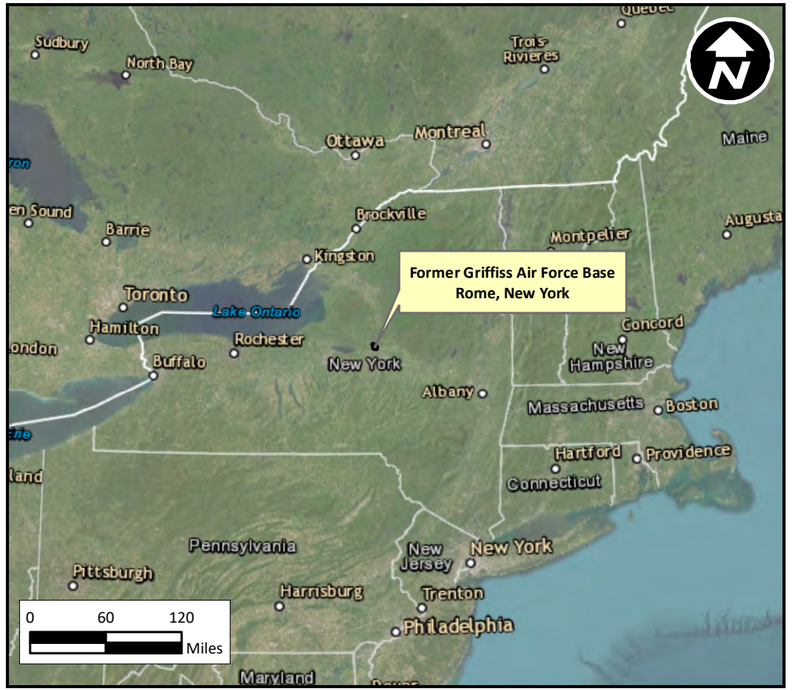
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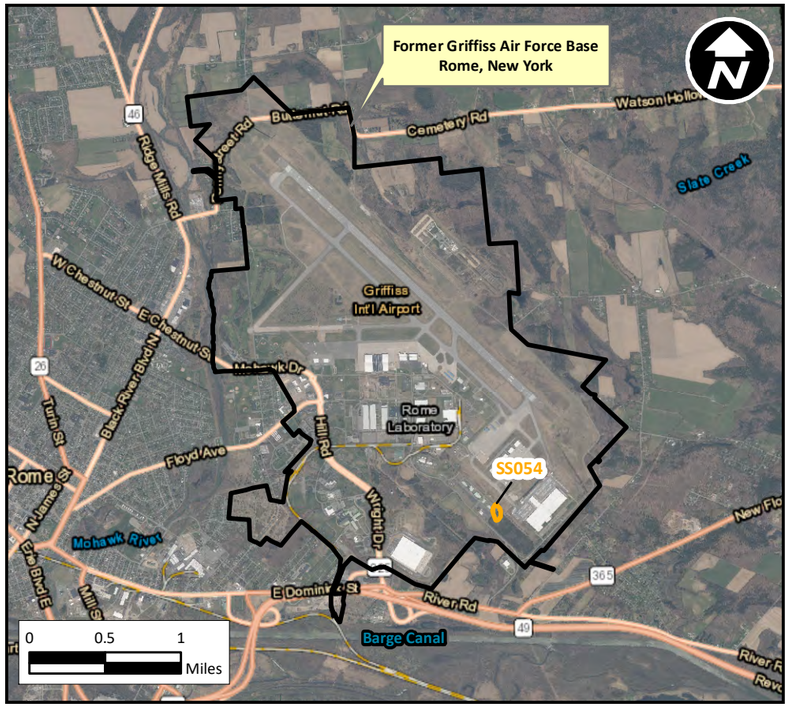
FIGURES

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Figure 1 Site Location Map

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Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
NYS ITS Geospatial Services, Westchester County GIS

Former Griffiss Air Force Base
Site Location Map

Figure 1

System Decommissioning Work Plan
Site SS054 (Building 781)
Former Griffiss Air Force Base, Rome, New York

DRAWN BY: MRM

DATE: 4/18/2025

SCALE: As Shown

PROJECT NO: MSC2021.0012.0054.0001

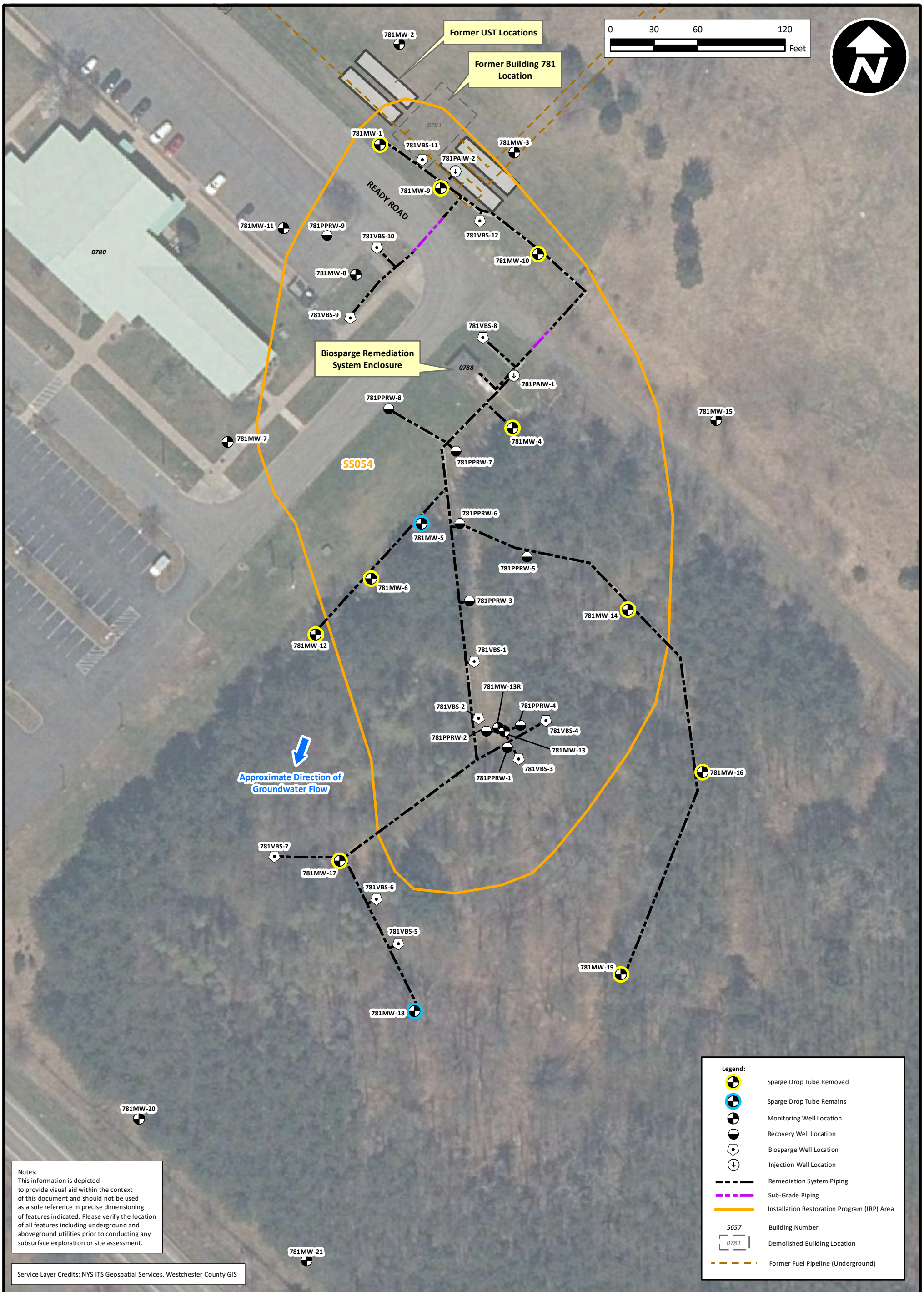
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Figure 2 SS054 (Building 781 Pumphouse) Site Layout Map

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System Decommissioning Work Plan
Site SS054 (Building 781)
Former Griffiss Air Force Base, Rome, New York

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
MSC2021.0012.0054.0001	As Shown	4/18/2025	MRM

SS054 (Building 781 Pumphouse)
Site Layout Map

Figure 2

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