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**2024 LAND USE CONTROL INSPECTIONS TECHNICAL MEMORANDUM  
SITES 302 303 AND 304 AND TANK 50 NAVAL BASE KITSAP MANCHESTER  
KITSAP COUNTY WASHINGTON  
04/28/2025  
LIBERTY JOINT VENTURE (JV)**

Distribution Statement A. Approved for public release: distribution unlimited.



**Final**  
April 2025

# **2024 Land Use Control Inspections Technical Memorandum**

**Sites 302, 303, and 304 and Tank 50**

**Naval Base Kitsap Manchester, Kitsap County,  
Washington**



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**Naval Facilities Engineering Systems Command Northwest  
Silverdale, WA**

**Final**

**2024 Land Use Control Inspections Technical  
Memorandum**

Sites 302, 303, and 304 and Tank 50  
Naval Base Kitsap Manchester, Kitsap County,  
Washington

April 2025

DCN: LBJV-5006-4052-0004

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**FINAL  
2024 LAND USE CONTROL INSPECTIONS TECHNICAL MEMORANDUM  
SITES 302, 303, AND 304 AND TANK 50  
NAVAL BASE KITSAP MANCHESTER, KITSAP COUNTY, WASHINGTON**

**April 2025**

**Prepared for  
United States Department of the Navy  
Naval Facilities Engineering Systems Command Northwest**


**Silverdale, WA 98315**

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## **Acronyms and Abbreviations**

AST .....	aboveground storage tank
Ecology .....	Washington State Department of Ecology
ERN.....	Environmental Restoration, Navy
ESG.....	Environmental and Safety Guide
FY.....	fiscal year
FYR.....	five-year review
LUC .....	land use control
MILCON .....	military construction
NAVFAC.....	Naval Facilities Engineering Systems Command
NAVSUP .....	Naval Supply Systems Command
Navy .....	U.S. Department of the Navy
NBK.....	Naval Base Kitsap
NFA.....	No Further Action
RPM .....	Remedial Project Manager
PCB.....	polychlorinated biphenyl
PFAS.....	per- and polyfluoroalkyl substances
UST .....	underground storage tank

## **Executive Summary**

This 2024 Land Use Control (LUC) Inspections Technical Memorandum describes the observations and subsequent recommendations from LUC inspections conducted in June 2024 at specified sites at Naval Base Kitsap (NBK) Manchester, Kitsap County, Washington. The 2024 LUC inspections are the eighth inspections conducted at Sites 302, 303, and 304 and Tank 50 since issuance of the LUC plan (Navy, 2016d). The Fourth Five-Year Review (FYR) (Navy, 2020) for NBK Manchester was completed in 2020, and the Fifth FYR is currently being prepared.

LUCs are required at several sites at NBK Manchester due to remaining contaminated soil and/or groundwater that prevent unlimited use and unrestricted exposures, as detailed in the LUC Plan for Sites 302, 303, and 304 and Tank 50 (Navy, 2016d). The annual LUC inspections include a field inspection, determination of the current land use, document review (i.e., administrative and institutional controls in place, specifically excavation permits), and condition assessment of engineering controls, such as fencing, gates, signage, monitoring wells, and soil covers.

The LUC Plan addresses four sites:

- Site 302 – Polychlorinated Biphenyl Site,
- Site 303 – D-Tunnel Tanks,
- Site 304 – Industrial Area, and
- Tank 50 – Underground Storage Tank (UST) Release Site.

The purposes of the LUC inspections are to:

1. Assess the status of the LUCs as described in the LUC Plan; and
2. Assist in identifying recommendations for corrective/additional action(s) needed to maintain the LUCs in accordance with the approved plan at NBK Manchester.

This technical memorandum: 1) provides documentation that the LUCs have not been modified or terminated and land use has not been modified (without regulatory approval) at any site; and 2) communicates the status of the LUCs to the project stakeholders (i.e., Washington State Department of Ecology [Ecology] and the Suquamish Tribe).

The LUC inspections of Sites 302, 303, and 304 and Tank 50 at NBK Manchester were conducted on 5 June 2024, in accordance with the procedures detailed in the LUC plan. Table ES-1 summarizes the three salient observations/findings from the 2024 LUC

inspections, subsequent recommendations, and comments regarding the recommendations.

Based on the 2024 inspection results, it is recommended that the LUC inspections continue on an annual basis to allow for a timely evaluation before and after completion of recommended action items. Executed recommendations will be documented in subsequent LUC Technical Memorandums and the Fifth FYR for NBK Manchester.

**Table ES-1: Summary of Findings and Recommendations from the 2024 LUC Inspections**

Findings/Observations		Recommendations	Comment
<b>Site 302 – PCB Site</b>			
1	During previous LUC inspections, approximately 60-80 linear feet of chain-link fencing on the northwestern side of the site was observed to be heavily overgrown with vegetation. The subject area was inaccessible; therefore, it was viewed from a distance during the 2021 – 2024 LUC inspections. The 2024 LUC inspection confirmed the incursion of heavy vegetation along approximately 100 linear feet of chain-link fence along the northwest perimeter of the site, though the fence appeared to be leaning slightly.	Clear heavy vegetation and support the fence so it is completely upright.	The presence of heavy vegetation will continue to compromise the integrity of the fence, potentially leading to additional overgrowth and potential collapse. The Navy plans to conduct the vegetation and tree clearing and fence repair in FY 2025, and the ERN group will coordinate with NBK Manchester on implementation.
<b>Site 303 – D-Tunnel Tanks</b>			
2	LUC signage damaged due to MILCON field activities was observed southwest of Tank 22, and the sign at south of Tank 29 had been removed in preparation of a new sign being installed.	Repair or replace LUC signage upon completion of MILCON activities in affected areas.	Completed; During the LUC site inspection, FASTSIGNS® of Silverdale was onsite and brought two new signs. One of the new signs was installed during the LUC site inspection at Tank 29.  The sign southwest of Tank 22 was present but on the ground during the LUC site inspection; the sign was temporarily installed until one of the new signs could be installed, which was completed by the Navy RPM after the site inspection.

**Abbreviations:**

- ERN = Environmental Restoration, Navy
- FY = fiscal year
- LUC = land use control
- MILCON = military construction
- Navy = U.S. Department of the Navy
- RPM = Remedial Project Manager
- PCB = polychlorinated biphenyl

## 1.0 Introduction

This 2024 Land Use Control (LUC) Inspections Technical Memorandum describes the observations and subsequent recommendations from LUC inspections of specified sites conducted in June 2024 at Naval Base Kitsap (NBK) Manchester, Kitsap County, Washington. This report was prepared by Liberty JV for Naval Facilities Engineering Systems Command (NAVFAC) Northwest under Contract No. N44255-20-D-5006, Task Order No. N4425524F4052.

LUCs are required at several sites at NBK Manchester due to remaining contaminated soil and/or groundwater that prevent unlimited use and unrestricted exposures, as detailed in the Land Use Control Plan for Sites 302, 303, and 304 and Tank 50 (Navy, 2016d); hereinafter referred to as the LUC Plan.

The LUC Plan addresses four sites:

- Site 302 – Polychlorinated Biphenyl (PCB) Site,
- Site 303 – D-Tunnel Tanks,
- Site 304 – Industrial Area, and
- Tank 50 – Underground Storage Tank (UST) Release Site.

The LUC inspection procedures provide a means to verify that the LUC requirements ensure protection of human health and the environment.

### 1.1 Purpose

The purposes of the LUC inspections are to:

1. Assess the status of the LUCs as described in the LUC Plan; and
2. Assist in identifying recommendations for corrective/additional action(s) needed to maintain the LUCs in accordance with the approved plan at NBK Manchester.

This technical memorandum 1) provides documentation that the LUCs have not been modified or terminated and land use has not been modified (without regulatory approval) at any site; and 2) communicates the status of the LUCs to the project stakeholders (i.e., Washington State Department of Ecology [Ecology] and the Suquamish Tribe).

The LUC inspections of Sites 302, 303, and 304 and Tank 50 at NBK Manchester were conducted on 5 June 2024, in accordance with the procedures detailed in the LUC plan. The salient observations/findings from the 2024 LUC inspections, subsequent recommendations, and comments regarding the recommendations can be found in Section 3 of this report.

The 2024 LUC inspections are the eighth inspections conducted at Sites 302, 303, and 304 and Tank 50 since issuance of the LUC Plan in 2016. The Fourth Five-Year Review (FYR) (Navy, 2020) at NBK Manchester was completed in 2020, and the Fifth FYR is currently being prepared.

## 1.2 Facility Description

### 1.2.1 Location

NBK Manchester is located less than 1 mile southwest of Bainbridge Island, approximately 3.5 miles northeast of the town of Port Orchard. The facility is situated on a small peninsula on the larger Kitsap Peninsula. This smaller peninsula is located on the eastern edge of the Kitsap Peninsula and adjacent to Puget Sound to the east and Clam Bay to the north. NBK Manchester is divided into eastern and western portions by Little Clam Bay, with the two portions connected by a 100-foot-wide causeway. Figure 1 depicts the site vicinity for NBK Manchester.

### 1.2.2 Current Use

In the early 1940s (at the beginning of World War II), NBK Manchester was developed into a key fuel depot and currently remains a fuel depot for the U.S. Department of the Navy (Navy). Most of the facility is used for fuel storage. Infrastructure includes underground and aboveground petroleum product storage tanks, associated pipelines, and a fuel pier. The remainder of the facility is dedicated to an industrial area with support and administrative buildings located adjacent to the fuel pier. Fuel products that have been or are currently stored at the fuel depot include Navy Special Fuel (No. 6 fuel oil [Bunker C]), marine diesel fuel, jet fuel, lubricant oil, and aviation gasoline.

Several areas of the facility have been affected by past releases of petroleum products, which have required remedial investigations and corrective actions. These areas include Site 302 (the PCB Site), which has also been a dumping ground for various industrial wastes, Site 303 (D-Tunnel Tanks), Site 304 (Industrial Area), and Tank 50 (UST Release Site). A site plan depicting the locations of these specific areas at NBK Manchester is provided as Figure 2. Sites 302, 303, and 304 and Tank 50 have received No Further Action (NFA) regulatory status and the resulting letters from Ecology state that the sites are “*either properly remediated or do not pose a risk to human health or the environment*” based on the current and future land use (Ecology, 1998, 2000, and 2001). However, LUC requirements are identified or referred to in the NFA letters to prevent exposure to residual soil and/or groundwater contamination, ensuring continued protection of human health and the environment.

## 2.0 2024 LUC Inspection Approach and Findings

This section presents the approach for the LUC inspections and the findings and observations from the LUC inspections of Sites 302, 303, and 304 and Tank 50 at NBK Manchester.

### 2.1 LUC Inspection Approach

The annual LUC inspections include a field inspection, determination of the current land use, document review (i.e., administrative and institutional controls in place, specifically permits for approved excavation or disturbances), and a condition assessment of engineering controls such as fencing, gates, signage, monitoring wells, and soil covers. An authorized soil excavation or disturbance indicates that the already established, formal process as detailed in the Environmental and Safety Guide (ESG) (Naval Supply Systems Command [NAVSUP], 2020) has been followed (including development of plans and analytical testing) and ultimately approved by NBK Manchester environmental personnel. As part of the approval process, NBK Manchester environmental personnel with knowledge of the LUC requirements review the application with respect to the LUCs. If the activities are to be conducted within an area with LUC requirements, the reviewer directs the contractor or Navy personnel conducting the excavation on the processes required to control the activities in a way that is protective of human health and the environment.

In October and November 2019, well rehabilitation and decommissioning activities were conducted at NBK Manchester based on the findings of the Well Rehabilitation and Decommissioning Study (Navy, 2017). Ultimately, seven monitoring wells remain in the monitoring network. The following wells were located but were not opened for inspection during the 2024 LUC inspections:

- MW-1, north of Tank 30 at Site 303 (behind a fence and locked gate on the outside of the property boundary)
- MW-4 at Site 304 (under a temporary storage unit and partially covered by wood pallets)
- MW-1 at Tank 50 (locked and no key was made available)

The remaining groundwater and vapor monitoring wells at NBK Manchester were decommissioned because of their poor/moderate general condition, location, intended purpose (i.e., vapor monitoring), and/or the fact that the well would be damaged or destroyed during planned upcoming military construction (MILCON) activities. The details of the well rehabilitation and decommissioning activities were documented in a separate technical memorandum finalized in July 2020 (Battelle, 2020a).

Site-specific LUC inspection checklists and monitoring well inspection checklists were used as tools to guide the annual LUC inspections. Appendices A and B present the completed LUC inspection checklists and monitoring well inspection checklists from the 2024 LUC inspections, respectively. In addition, field notes were taken, and a photographic log was developed to document the findings/observations of the field inspection. The field notes and photographic log are presented as Appendices C and D, respectively. As part of the effort, three field change request forms were developed (see Appendix E) documenting minor changes to the Final Abbreviated Accident Prevention Plan for Various Site Reconnaissance Activities (Navy, 2016c) and the LUC Plan.

## 2.2 LUC Inspection Findings

### 2.2.1 Site 302 – PCB Site

Site 302 is a 1.4-acre area located in the southwest portion of NBK Manchester (see Figures 2 and 3). The site was used as a dumping area for ship bilge waste, transformer oil, and other petroleum waste from local naval facilities from about 1955 through 1976. No estimate of the volume of waste disposed of at the site is available. PCBs were identified as a contaminant of concern at Site 302. Site-specific LUCs are as follows:

1. Ensure that site signage is readable and adequate;
2. Ensure that land use remains for industrial purposes;
3. Ensure that there has been no unauthorized soil excavation or disturbance;
4. Ensure that there has been no unauthorized placement of excess soil from another location;
5. Ensure integrity of the soil cover vegetation, so that any excavation or improper disposal is apparent;
6. Ensure that any soil excavated from the site is properly characterized and disposed off-site and that on-site workers are protected during such activities;  
and
7. Ensure that site fencing is intact and that gates are secured and locked.

The 2024 LUC inspections confirmed LUC requirements 1 through 6 above are being met at Site 302. No existing or new stockpiles, or excavations were observed on the site.

There are no monitoring wells to inspect at Site 302; however, the three monitoring wells related to per- and polyfluoroalkyl substances (PFAS) investigation (MFD-S302-MW01, MFD-S302-MW02, and MFD-S302-MW03) were observed in good condition (Figure 3).

Additional work is necessary to meet LUC requirement 7. During the 2024 inspection, new fencing was observed on the west side of the site (see Appendix D, Site 302 Photographs 14 and 15), which was conducted in response to previous recommendations to repair fencing from downed trees. The most salient finding from the 2024 LUC inspection was as follows:

- **Finding 1:** Approximately 100 linear feet of fencing on the northwestern side of the site was observed to be heavily overgrown with vegetation and the area was inaccessible. Additionally, the fence appeared to be leaning over slightly and requires support in order to stand upright.

The location of this finding is depicted on Figure 3. The completed LUC inspection checklist for Site 302 is provided in Appendix A. The field notes and photographs from Site 302 are provided in Appendices C and D, respectively.

### 2.2.2 Site 303 – D-Tunnel Tanks

Site 303 is currently under heavy construction with the removal of USTs and the replacement of aboveground storage tanks (ASTs). Site 303 consisted of eight 20,000- to 50,000-barrel (840,000- to 2,100,000-gallon) concrete USTs used to store marine diesel fuel; however, three of the tanks (Tanks 24, 25, and 26) have been decommissioned (see Figures 2 and 4). Two ASTs were under construction during the site inspection (see Appendix D, Site 304 Photographs 10 and 11). The Navy Special Fuel stored and dispensed at NBK Manchester is designated as F-76. The USTs/ASTs are located adjacent to the D-tunnel line, which extends from Tank 30 to Building 12 in the Industrial Area (Site 304), as shown on Figure 4. Site-specific LUCs are as follows:

1. Ensure that land use remains for industrial purposes. Coordinate with Ecology prior to change in property ownership or land use concerning the need for remedial actions.
2. Ensure that warnings are posted for workers to guard against exposure to residual petroleum-contaminated soil.
3. Identify remaining areas of concern on facility maps and specify in facility excavation permit instruction.
4. Ensure no production wells are installed and groundwater is not used except for monitoring and/or remediation.
5. Protect existing vapor monitoring wells until formally abandoned.
6. Ensure that there has been no unauthorized soil excavation or disturbance.

7. Confine authorized reusable material<sup>1</sup> to approved staging area.
8. Ensure that any soil excavated from the site is properly characterized and disposed of off-site and that on-site workers are protected during such activities.

The 2024 LUC inspection confirmed all LUC requirements 1 through 8 above are being met at Site 303. During the inspection, it was noted that warnings are posted, and remaining areas of concern are identified on facility maps and specified in facility permit instructions in response to a previous recommendation for the Contractor ESG (Navy, 2016a).

Active construction and earthwork activities related to tank decommissioning and replacement are occurring throughout the southern portion of the site. The NBK Manchester Environmental Manager and field team verified dig permits for tank removal field activities (excavation) were all on file. The NBK Manchester Environmental Manager indicated excavated materials are disposed of in accordance with state and federal regulations.

During the 2023 LUC inspection, it was noted that the signage at Tank 29 had been removed. During the 2024 LUC inspection, a new sign was installed. Additional work is necessary to meet LUC requirement 2. The most salient finding during the 2024 LUC inspections associated with Site 303 was as follows:

- **Finding 2:** LUC signage southwest of Tank 22 was found on the ground. During the LUC inspection, the sign was reinstalled by the field team (see Appendix D, Site 303 Photograph 7). A new sign was received, and the Remedial Project Manager (RPM) replaced the older sign with the new sign after the site inspection.

Monitoring wells MW-1 and MW-3 north of Tank 30 and MW-1 south of Tank 24 were located as part of the 2024 LUC inspection (see Appendix D, Site 303 Photographs 9, 24, and 25). Monitoring well MW-1 north of Tank 30 was visually located behind a fence with a locked gate; therefore, it was inaccessible and not opened and inspected. The monitoring well was recorded to be in moderate condition because the well monument was observed to be rusted with moss growing over it and not clearly labeled. Monitoring wells MW-3 north of Tank 30 and MW-1 south of Tank 24 were opened and inspected. Monitoring well MW-3 north of Tank 30 was recorded to be in good condition. Monitoring well MW-1 south of Tank 24 was recorded to be in moderate condition because the monument apron was cracked and not clearly labeled, but the outer and

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1. "Reusable material" refers to those materials for which on-site placement has been coordinated with the Navy RPM and that have been characterized in collaboration with NBK Manchester environmental personnel. The Navy may choose to coordinate with the Ecology Cleanup Project Manager on a case-by-case basis.

inner casing appeared to be in good condition (see Appendix B). Table 2-1 summarizes the inspection findings/observations regarding monitoring wells at Site 303.

**Table 2-1: Summary of Monitoring Wells at Site 303**

Well ID	Northing <sup>1</sup>	Easting <sup>1</sup>	Well Located?	Comments from 2024 Inspections
<b>South of Tank 24</b>				
MW-1	64013.946	371485.35	Yes	Well located and opened. Well was in moderate condition and not clearly labeled.
<b>North of Tank 30</b>				
MW-1	64612.007	371179.515	Yes	Well located but not opened. Well was in moderate condition and not clearly labeled.
MW-3	64625.423	371219.950	Yes	Well located and opened. Well was in in good condition.

**Note:**

1 Coordinate system is State Plane – Washington North (meters).

**Abbreviations:**

ID = identification

MW = monitoring well

During the 2019 well rehabilitation and 2020 decommissioning activities, vapor monitoring wells were decommissioned at Tank 22 (13 wells), Tank 24 (13 wells), Tank 25 (1 well), Tank 26 (13 wells), Tank 27 (1 well), Tank 29 (13 wells), and Tank 30 (13 wells). Additionally, groundwater monitoring well MW-3 south of Tank 24 was decommissioned.

The LUC inspection checklist for Site 303 is provided in Appendix A. The monitoring well inspection checklists are provided in Appendix B. The field notes and photographs from Site 303 are provided in Appendices C and D, respectively.

### 2.2.3 Site 304 – Industrial Area

Site 304 (Industrial Area) is in the eastern portion of NBK Manchester, as shown on Figures 2 and 5. It comprises maintenance, administration, fuel pumping, and water treatment buildings. Site 304 is the central transfer point for most of the petroleum products stored at NBK Manchester. Petroleum products (including marine diesel, jet fuels, aviation gasoline, and lube oil) are transported through a network of pipelines running from the fuel pier to storage tanks located throughout the facility. Site-specific LUCs are as follows:

1. Ensure that land use remains for industrial purposes. Coordinate with Ecology prior to change in property ownership or land use concerning the need for remedial actions.
2. Ensure that warnings are posted for workers to guard against exposure to residual petroleum-contaminated soil.

3. Identify remaining areas of concern on facility maps and specify in facility excavation permit instructions.
4. Ensure no production wells are installed and groundwater is not used except for monitoring and/or remediation.
5. Protect existing monitoring wells until formally abandoned.
6. Ensure that there has been no unauthorized soil excavation or disturbance.
7. Ensure that any soil excavated from the site is properly characterized and disposed of off-site and that on-site workers are protected during such activities.

The 2024 LUC inspections confirmed LUC requirements 1 through 7 above are being met at Site 304. Remaining areas of concern are identified on facility maps and specified in facility permit instructions in response to a previous recommendation for the Contractor ESG (Navy, 2016a). The five groundwater monitoring wells related to the PFAS investigation within the Site 304 boundary (MFD-B12-MW01, MFD-B12-MW02, MFD-B12-MW03, MFD-VWR-MW02 and MFD-VWR-MW03) were observed in good condition (Figure 5).

The LUC signage for Site 304 is located at the northeastern corner of Building 178, outside and north of the Site 304 LUC boundary (see Figure 5). The area in the northeast portion of the site is no longer used as a construction laydown area; it was in-use for parking at the time of the 2024 inspections (see Appendix D, Site 304 Photograph 18). The area of active soil excavation observed during the 2023 LUC inspection related to a utility line installation on the south side of the main office building (Building 217) has since been backfilled and re-vegetated (see Appendix D, Site 304 Photograph 3).

As detailed in Section 2.1, monitoring wells MW-1, MW-2, and MW-4 at Site 304 were located as part of the 2024 LUC inspection (see Appendix B, and Appendix D, Site 304 Photographs 5, 8, and 11). Monitoring well MW-1 was opened and inspected; it was recorded to be in moderate condition because it requires maintenance to monument lid seal and was not clearly labeled. Monitoring well MW-2 was opened and inspected and recorded to be in good condition but not clearly labeled. Monitoring well MW-4 was not opened and inspected because it remains covered by a pallet and materials. Table 2-2 summarizes the inspection findings/observations at each monitoring well.

**Table 2-2: Summary of Monitoring Well Condition Assessment at Site 304**

Well ID	Northing <sup>1</sup>	Easting <sup>1</sup>	Well Located?	Comments from 2024 Inspections
MW-1	64019.596	371750.902	Yes	Well located and opened. Well was in moderate condition and not clearly labeled.

Well ID	Northing <sup>1</sup>	Easting <sup>1</sup>	Well Located?	Comments from 2024 Inspections
MW-2	64106.184	371804.246	Yes	Well located and opened. Well was in good condition, but not clearly labeled.
MW-4	64054.635	371808.329	Yes	Well located but not opened. Well was in moderate condition and not clearly labeled.

**Note:**

1. Coordinate system is State Plane – Washington North (meters).

**Abbreviations:**

ID = identification

MW = monitoring well

The LUC inspection checklist for Site 304 is provided in Appendix A. The monitoring well inspection checklists are provided in Appendix B. The field notes and photographs from Site 304 are provided in Appendices C and D, respectively.

### 2.2.4 Tank 50 – UST Release Site

Tank 50 is the southernmost of a set of five USTs built on the top of a small knoll located on the west side of Little Clam Bay (see Figures 2 and 6). The tank is believed to have been constructed in the early 1950s and is a steel cylinder approximately 100 feet in diameter and 22 feet tall with a capacity of approximately 27,000 barrels (1.1 million gallons). Site-specific LUCs are as follows:

1. Ensure that warnings are posted for workers to guard against exposure to residual petroleum-contaminated soil.
2. Identify remaining areas of concern on facility maps and specify in facility excavation permit instructions.
3. Ensure that land use remains for industrial purposes. Coordinate with Ecology prior to change in property ownership or land use concerning the need for remedial actions.
4. Ensure no production wells are installed and groundwater is not used except for monitoring and/or remediation.
5. Protect existing monitoring wells until formally abandoned.
6. Ensure that there has been no unauthorized soil excavation or disturbance.
7. Ensure that any soil excavated from the site is properly characterized and disposed of off-site, and that on-site workers are protected during such activities.

The 2024 LUC inspections confirmed LUC requirements 1 through 7 above are being met at the Tank 50 Site. The inspection also noted that remaining areas of concern are

identified on facility maps and specified in facility permit instructions in response to a previous recommendation for the Contractor ESG (Navy, 2016a).

Monitoring well MW-1 at Tank 50 was located as part of the 2024 LUC inspection; however, the well was not opened and inspected because no key was available (see Appendix B and Appendix D, Tank 50 Photograph 5). Table 2-3 provides a summary of the observations at monitoring well MW-1.

**Table 2-3: Summary of Monitoring Well Condition Assessment at Tank 50**

Well ID	Northing <sup>1</sup>	Easting <sup>1</sup>	Well Located?	Comments from 2024 Inspections
MW-1	64407.051	370946.014	Yes	Well located but not opened. Aboveground monument and external casing in good condition.

**Note:**

1. Coordinate system is State Plane – Washington North (meters).

**Abbreviations:**

ID = identification

MW = monitoring well

Monitoring well MW-2 was decommissioned in 2019. Site restoration related to the well rehabilitation and decommissioning activities were completed in March 2020 (Battelle, 2020b).

The LUC inspection checklist for Tank 50 is provided in Appendix A. The monitoring well inspection checklists are provided in Appendix B. The field notes and photographs from Tank 50 are provided in Appendices C and D, respectively.

### **3.0 Conclusions and Recommendations**

On 5 June 2024, inspections were conducted in accordance with LUC requirements detailed in the LUC Plan. A field inspection, determination of the current land use, document review, and condition assessment of engineering controls were conducted for each site to determine the conditions of the LUCs in place and verify that these LUCs remain effective as designed.

The 2024 LUC inspections are the eighth inspections conducted at Sites 302, 303, and 304 and Tank 50 since issuance of the LUC Plan in 2016. The Fourth FYR (Navy, 2020) for NBK Manchester was completed in 2020, and the Fifth FYR is currently being prepared.

Table 3-1 presents a comprehensive list of observations/findings from the report entitled Current Conditions at Sites 302, 303, and 304, NBK Manchester, Port Orchard, Washington (Navy, 2016b) through the 2024 LUC inspections, along with all findings from 2016 through 2024 and subsequent recommendations. The most salient findings from the 2024 LUC inspections are summarized below:

1. Site 302: Approximately 100 linear feet of fencing on the northwestern side of the site was observed to be heavily overgrown with vegetation and the area was inaccessible. Additionally, the fence appeared to be leaning over slightly and requires support to stand upright.
2. Site 303: LUC signage southwest of Tank 22 was found on the ground. During the LUC inspection, the sign was reinstalled by the field team. A new sign was received, and the RPM replaced the older sign with the new sign after the site inspection.

The Navy plans to conduct the vegetation maintenance for item 1 above and the sign replacement was completed during the LUC inspections. The Environmental Restoration, Navy (ERN) group will coordinate with NBK Manchester on implementation.

Based on the results of the 2024 inspection, it is recommended that the LUC inspections continue on an annual basis. Continuing the LUC inspections on an annual basis will allow for a timely evaluation before and after completion of actions described in Table 3-1. These recommendations will be executed and documented in subsequent LUC technical memorandums and the Fifth FYR for NBK Manchester. It should be noted that Ecology has the authority to revoke the NFA determinations for Sites 302, 303, and 304, and Tank 50 for violations of the LUCs.

**Table 3-1: Summary of Findings and Recommendations from 2016 through 2024 Inspections**

2016	2017	2018	2019	2020	2021	2022	2023	2024	Findings/Observations	Recommendations	Comment
<b>Site 302 – PCB Site</b>											
✓	✓	✓	✓	✓	✓	–	–	–	Primary gate/entrance to site is locked, requires MFD personnel for access, and has six “Restricted Area/Keep Out” signs posted along the southern fence line; however, there is no specific LUC signage.	Install specific LUC signage on the primary entrance to Site 302.	Completed; LUC signage was installed on the primary entrance in July 2020.
✓	✓	✓	✓	✓	✓	✓	–	–	The central portion of the site is covered with large, older stockpiles of soil and debris, which were covered with vegetation.	Because detections of Aroclor 1260 in soil samples exceed the soil reuse (commercial fill and road base material) threshold set by Ecology (Ecology, 2016, the soil will be removed and disposed of off site at an approved treatment and disposal facility.	The excess soil placed in the central portion of the site originated from a culvert replacement project that was located upgradient and outside the four sites with established LUCs in an area that had not historically been used for industrial activity. The soil was sampled and analyzed for PCBs and TPH in January 2020. Because stockpiled soil at Site 302 contains a specific PCB (Aroclor 1260) at a concentration exceeding the Ecology threshold limit for reuse as commercial fill or road base material (Ecology, 2016), the soil will be removed and disposed of off site at an approved treatment and disposal facility, in accordance with state and federal regulations. The U.S. Navy plans to award a contract for this work in FY 2023.
✓	✓	✓	✓	✓	✓	✓	–	–	The gated entrance on the north side of the site is closed and in a remote area of MFD, not easily accessible by personnel. There is LUC signage and lock; however, the gate is not secured and can be pushed open.	Add chain and lock to secure gate and prevent it from being pushed open.	LUC signage and a lock were installed on the gated entrance in July 2020; however, the gate is not adequately secured, as it can be pushed open.
✓	–	–	✓	✓	✓	✓	✓	✓	During previous LUC inspections, approximately 60-80 linear feet of chain-link fencing on the northwestern side of the site was observed to be heavily overgrown with vegetation. The subject area was inaccessible; therefore, it was viewed from a distance during the 2021 – 2024 LUC inspections. The 2024 LUC inspection confirmed the incursion of heavy vegetation along approximately 100 linear feet of chain-link fence along the northwest perimeter of the site, though the fence appeared to be leaning slightly.	Clear heavy vegetation and support the fence so it is completely upright.	The presence of heavy vegetation will continue to compromise the integrity of the fence, potentially leading to additional overgrowth and potential collapse. The Navy plans to conduct the vegetation and tree clearing and fence repair in FY 2025, and the ERN group will coordinate with NBK Manchester on implementation.
–	–	–	–	✓	✓	✓	✓	–	During the 2020, 2021, 2022, and 2023 LUC inspections, approximately 50 to 60 linear feet of collapsed fencing was noted along the western boundary of the site due to fallen trees.	Reconstruct fence.	Completed; the Navy conducted the vegetation and tree clearing and fence repair in FY 2024.
<b>Site 303 – D-Tunnel Tanks</b>											
✓	–	–	–	–	–	–	–	–	There is no LUC signage warning of contaminated soil and groundwater at Tanks D-24, D-25, D-27, or D-28.	Add signage at the primary vehicle or pedestrian access point to each UST (Tanks D-22, D-24, D-25, D-26, D-27, D-28, D-29, and D-30) warning of contaminated soil and groundwater and prohibiting unauthorized dumping and/or soil excavation.	Completed; signs were installed at Site 303, according to the 2016 recommendations.
✓	–	–	–	–	–	–	–	–	In 2016, numerous vapor monitoring wells could not be located, including Tank D- 22, MW-3; Tank D-25, all wells except MW-2 and MW-13; Tank D- 26, MW-13; Tank D-27, all except for one unknown well; Tank D-28, all monitoring wells; Tank D-29, MW-1, MW-3, MW-4, MW-6, MW-8, MW-9, and MW-11; and Tank D-30, MW-1 and MW-4.	Locate all monitoring wells and assess for condition and integrity; mark with survey stakes, if feasible.	Completed; a well rehabilitation and decommissioning study, including a records review and site reconnaissance, was conducted from 2016 through 2017 (Navy, 2017).
✓	✓	✓	✓	✓	✓	✓	–	–	An old stockpile of soil on a tarp surrounded by a disintegrating absorbent boom was observed in the laydown area north of Tank 29.	Properly characterize, reuse on site, or transport and appropriately dispose of the soil off site.	Completed; the soil stockpile has been characterized and disposed of off-site and the affected area has been reseeded.

**Table 3-1: Summary of Findings and Recommendations from 2016 through 2023 Inspections (continued)**

2016	2017	2018	2019	2020	2021	2022	2023	2024	Findings/Observations	Recommendations	Comment
-	✓	✓	✓	✓	-	-	-	-	An unmarked stockpile of soil covered by black poly sheeting in the northwest corner of the construction laydown area southeast of Tank 24. Poly sheeting was ripped, exposing stockpile.	Confirm soil stockpile is authorized reusable material and is located in an approved staging area. Replace poly sheeting cover.	Completed; As confirmed with MFD Environmental Personnel, soil stockpile is authorized reusable material and is located in an approved staging area. Only clean, reusable aggregate material is approved for placement/staging in the construction laydown area southwest of Tank 24.
-	✓	✓	✓	-	-	-	-	-	Monitoring wells MW-1 south of Tank 24 and MW-3 north of Tank 30 need casing to be lowered to fit cap under lid and minor maintenance/repairs.	Lower casing and perform needed minor maintenance/repairs on monitoring wells MW-1 and MW-3.	Completed; Casing was lowered and minor maintenance/repairs on monitoring wells MW-1 and MW-3 were completed during well rehabilitation activities in October/November 2019.
-	-	-	-	✓	-	-	-	-	Soil stockpile under tarp in construction laydown area southwest of Tank 24. Pile of cut asphalt staged next to soil stockpile.	Confirm soil stockpile is authorized reusable material and is located in an approved staging area.	Completed; as confirmed with NBK Manchester environmental personnel, soil stockpile is authorized reusable material and is located in an approved staging area. Only clean, reusable aggregate material is approved for placement/staging in the construction laydown area southwest of Tank 24.
-	-	-	-	-	✓	-	-	-	Two stockpiles of landscape rock (red lava rock) and pieces of landscape fabric were observed in the northwest corner of the construction laydown area south of Tank 25. The material in these stockpiles originated from the landscaped areas at the main gate (outside of a LUC site) and is authorized reusable material in an approved staging area.	Keep piles covered and maintained until an on-site use can be found.	Completed; Navy personnel have reused the stockpiled material on-site at NBK Manchester.
-	-	-	-	-	-	✓	-	-	A small soil stockpile covered by a tarp and secured by gravel bags was observed southeast of Tank 24.	Properly characterize, transport, and appropriately dispose of the soil off site.	Completed; the soil stockpile has been characterized and disposed of off-site.
-	-	-	-	-	-	✓	-	-	MILCON construction debris related to decommissioning of Tank 23 (outside of the Site 303 LUC boundary) was observed to be stockpiled at Tank 24.	Properly characterize, transport, and appropriately dispose of the debris off site.	Completed; the construction debris has been removed.
-	-	-	-	-	-	-	✓	-	Soil disturbance was observed in several areas of Site 303 due to MILCON field activities associated with removal of selected existing tanks. Soil disturbance was observed in the vicinities of Tanks 24, 25, 26, and 30. In addition, soil disturbance was observed to the west of Tanks 28 and 29 in the form of a temporary MILCON access road trending north to south.	Confirm the soil disturbance was authorized.	Completed; the NBK Manchester Environmental Manager confirmed that the proper protocols, outlined in the ESG (NAVSUP, 2020), were followed during excavation activities (e.g., dig permits). Construction activities are ongoing. If excavation of soil in areas within the LUC boundary but not covered under the current dig permits is necessary, additional dig permits may be required.
-	-	-	-	-	-	✓	✓	✓	LUC signage damaged due to MILCON field activities was observed southwest of Tank 22 and south of Tank 29.	Repair or replace LUC signage upon completion of MILCON activities in affected areas.	Completed; During the LUC site inspection, FASTSIGNS® of Silverdale was onsite and brought two new signs. The old sign southwest of Tank 22 was present but on the ground during the LUC site inspection, so the old sign was temporarily installed until one of the new signs could be installed, which was completed by the Navy RPM after the site inspection. The other new sign was installed during the LUC site inspection at Tank 29.
<b>Site 304 – Industrial Area</b>											
✓	-	-	-	-	-	-	-	-	Groundwater monitoring wells MW-1 and MW-2 were found; however, MW-3 and MW-5 are presumed to be buried under landscaping rocks. MW-4 was located in November 2019 and added to the well rehabilitation activities.	Locate all monitoring wells and assess for condition and integrity.	Completed; a well rehabilitation and decommissioning study, including a records review and site reconnaissance, was conducted from 2016 through 2017 (Navy, 2017).
✓	✓	-	-	-	-	-	-	-	There is no LUC signage warning of potential exposure to contaminated soil and groundwater.	Considering there is relatively more activity within the area compared to other sites, signage should be installed at all vehicle and pedestrian access points to Site 304. The signs should warn of contaminated soil and groundwater and prohibit unauthorized soil excavation.	Completed; LUC signage was installed at the main entrance to Site 304 between the 2017 and 2018 LUC inspections.

**Table 3-1: Summary of Findings and Recommendations from 2016 through 2023 Inspections (continued)**

2016	2017	2018	2019	2020	2021	2022	2023	2024	Findings/Observations	Recommendations	Comment
-	-	✓	✓	✓	-	-	-	-	The LUC signage for Site 304 is located at the northeastern corner of Building 178, outside and north of the LUC boundary.	Maintain the LUC signage in its current location.	Completed; per Ecology comment on the draft 2020 LUC inspections, there is no need to move the LUC signage, as it is located prior to and along the main entryway to Site 304.
-	✓	✓	✓	-	-	-	-	-	Monitoring wells MW-1 and MW-2 do not have identification and the expansion caps are broken. In addition, one monument ear is broken on MW-1.	Perform needed minor maintenance/repairs on monitoring wells MW-1 and MW-2.	Completed; casing was lowered and minor maintenance/repairs on monitoring wells MW-1 and MW-3 were completed during well rehabilitation activities in November 2019.
-	✓	-	-	-	-	-	-	-	There is construction of a trench box for a fuel line (i.e., excavation activities).	Post-approval permit from NBK Manchester Environmental for construction of trench box at job site.	Completed; the trench box was completed after the 2017 inspections and not observed during the 2018 and 2019 inspections.
-	-	-	-	✓	-	-	-	-	Visual evidence of excavation under asphalt north of MW-1. Approximately 10 feet by 9 feet by 7 feet triangular dimension.	Confirm any excavated soil is stockpiled in an approved staging area, or that it has been properly disposed of. Confirm that proper protocols were followed during excavation activities (i.e., dig permits, etc.).	Completed; as confirmed with NBK Manchester Environmental Personnel, excavation was conducted to repair subsidence in the area, and all proper protocols were followed during activities.
-	-	-	-	-	✓	✓	-	-	A small cut in asphalt was observed off the southwest corner of Building 12, which was due to excavation to repair a small area of subsidence near the building. The asphalt cut was triangular with approximate dimensions of 10 feet by 9 feet by 7 feet resulting in an opening in the asphalt that had been filled with gravel	The cut in the asphalt should be repaired.	Completed; as noted in the 2020 LUC Technical Memorandum, and observed during the 2022 LUC inspections, the cut in the asphalt has been repaired.
-	-	-	-	-	✓	✓	-	-	Ongoing excavation observed to the northwest of the fuel pier and northeast of MW-4 to repair/replace a fire hydrant.	It was confirmed with the NBK Manchester Environmental Manager that the proper protocols, outlined in the ESG (NAVSUP, 2020), were followed during excavation activities (i.e., dig permits, etc.). Repair asphalt following hydrant repair.	Completed; as noted in the 2021 LUC Technical Memorandum, and observed during the 2022 LUC inspections, the excavation to the northwest of the fuel pier and northeast of MW-4 to repair/replace a fire hydrant was completed.
-	-	-	-	-	-	✓	-	-	Four breaks were observed along the chain-link fence that surrounds the northeast side of Site 304.	The chain-link fence was in the process of removal and a new fence farther east of Site 304 will be installed. New signage will be installed demarcating the boundary of Site 304.	Completed; the damaged fence has been removed.
-	-	-	-	-	-	✓	-	-	Recent soil disturbance activity was observed at the former location of Tank 14 (northwest corner of Site 304). The area appeared to be restored with backfill soil material and mulch as the surface completion.	The NBK Manchester Environmental Manager confirmed that the proper protocols, outlined in the ESG (NAVSUP, 2020), were followed during excavation activities (e.g., dig permits).	Completed; as observed during the 2022 LUC inspections, the excavation and surface completion at former Tank 14 were completed.
<b>Tank 50 – UST Release Site</b>											
-	✓	✓	✓	✓	-	-	-	-	There is LUC signage along the southwestern access road, downhill from Tank 50 and near the past environmental release; however, there is no LUC signage on the northern access road – the primary entryway to Tank 50.	Add LUC signage on the northern access road to Tank 50 (i.e., the primary entryway to the site). LUC signage at this location is noted in a well installation and sampling report (Hart Crowser, 1998).	Completed; LUC signage was installed at the primary entryway in July 2020.
-	✓	✓	✓	-	-	-	-	-	Monitoring well MW-1 has no exterior well identification and no lock on lid.	Perform needed minor maintenance/repairs on monitoring well MW-1.	Completed; the minor maintenance/repairs on MW-1 were completed during well rehabilitation activities in November 2019.
-	-	-	-	-	-	✓	-	-	Recent soil disturbance activity was observed to the south of Tank 50. The area appeared to be restored with backfill soil material and reseeded.	The NBK Manchester Environmental Manager confirmed that the proper protocols, outlined in the ESG, were followed during excavation activities (e.g., dig permits).	Completed; as observed during the 2022 LUC inspections, the soil disturbance to the south of Tank 50 appeared to be addressed (restored to match the surrounding area).

**Note:**

Green-shaded rows indicate that the finding/observation and subsequent recommendation have been addressed/completed.

**Key:**

- ✓ = The finding/observation was present during the LUC inspection year listed.
- = The finding/observation was not present during the LUC inspection year listed.

**Abbreviations:**

Ecology = Washington State Department of Ecology; ERN = Environmental Restoration, Navy; ESG = Environmental and Safety Guide; FY = fiscal year; LUC = land use control; NBK = Naval Base Kitsap; MILCON = military construction; NAVSUP = Naval Supply Systems Command; Navy = U.S. Department of the Navy; PCB = polychlorinated biphenyl; UST = underground storage tank

**Table 3-1: Summary of Findings and Recommendations from 2016 through 2023 Inspections (continued)**

## **4.0 References**

- Battelle. 2020a. Final Well Rehabilitation and Decommissioning Summary Technical Memorandum, Fleet Logistics Center Puget Sound, Manchester Fuel Depot, Manchester, Washington. 13 July.
- Battelle. 2020b. Final Land Use Control Inspection Technical Memorandum, Fleet Logistics Center Puget Sound, Manchester Fuel Depot, Manchester, Washington. 13 July.
- Hart Crowser. 1998. Well Installation and Sampling and Analysis, Tank No. 50 Fuel Hydrocarbon Leak Assessment, Manchester Fleet and Industrial Supply Center, Manchester, Washington. Prepared for Department of the Navy Engineering Field Activity, Northwest Naval Facilities Engineering Command. January 21.
- Naval Supply Systems Command (NAVSUP). 2020. Contractor Environmental and Safety Guide, Fleet Logistics Center Puget Sound. January 17.
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- Navy. 2016b. Current Conditions at Sites 302, 303, and 304, Naval Base Kitsap Manchester, Manchester, Washington. September 21.
- Navy. 2016c. Final Abbreviated Accident Prevention Plan for Various Site Reconnaissance Activities, Naval Base Kitsap Manchester, Manchester, Washington. November 10.
- Navy. 2016d. Land Use Control Plan for Sites 302, 303, 304 and Tank 50, Naval Base Kitsap Manchester, Manchester, Washington. December 9.
- Navy. 2017. Well Rehabilitation and Decommissioning Study, Fleet Logistics Center Puget Sound Manchester Fuel Depot, Manchester, Washington. August 10.
- Navy. 2020. Fourth Five-Year Review for Sites 302, 303, and 304 and Tank 50, Fleet Logistics Center Puget Sound, Manchester Fuel Depot, Manchester, Washington. March.
- Washington State Department of Ecology (Ecology). 1998. Ecology Determination at Tank 50 Site, FISC Manchester. December 3.
- Ecology. 2000. No Further Action Determination at PCB Site Letter. September 25.

**Table 3-1: Summary of Findings and Recommendations from 2016 through 2023  
Inspections (continued)**

Ecology. 2001. No Further Action Determination at Fleet and Industrial Supply Center Site 303/304 Letter. January 17.


Ecology. 2016. Guidance for Remediation of Petroleum Contaminated Sites, Toxics Cleanup Program. June.

## **Figures**

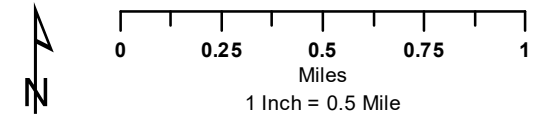
- Figure 1: Vicinity Map
- Figure 2: Site Plan
- Figure 3: Site 302 – PCB Site
- Figure 4: Site 303 – D-Tunnel Tanks
- Figure 5: Site 304 – Industrial Area
- Figure 6: Tank 50 – Release Site



**Legend**

 Installation Boundary

Basemap Source: ESRI Online Streaming Service 2024



2024 Land Use Control Inspections Technical Memorandum  
 Sites 302, 303, and 304, and Tank 50  
 Naval Base Kitsap Manchester  
 Kitsap County, Washington

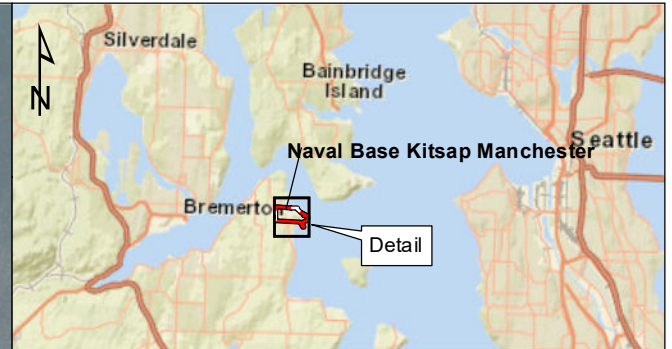
**Vicinity Map**

PROJECT NO.:	N4425523F4052
DATE:	June 2024
DRAWN BY:	MER
CHECKED BY:	CB



FIGURE

1



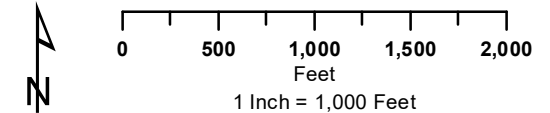
**Legend**

- Site Boundary
- Installation Boundary

**Acronyms:**

PCB = polychlorinated biphenyl

Basemap Source: ESRI Online Streaming Service 2024



2024 Land Use Control Inspections Technical Memorandum  
 Sites 302, 303, and 304, and Tank 50  
 Naval Base Kitsap Manchester  
 Kitsap County, Washington

**Site Plan**

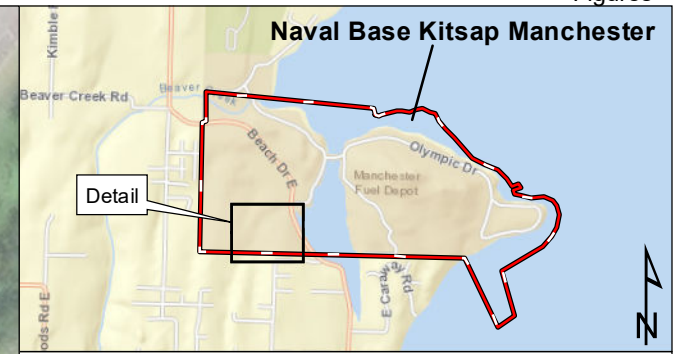
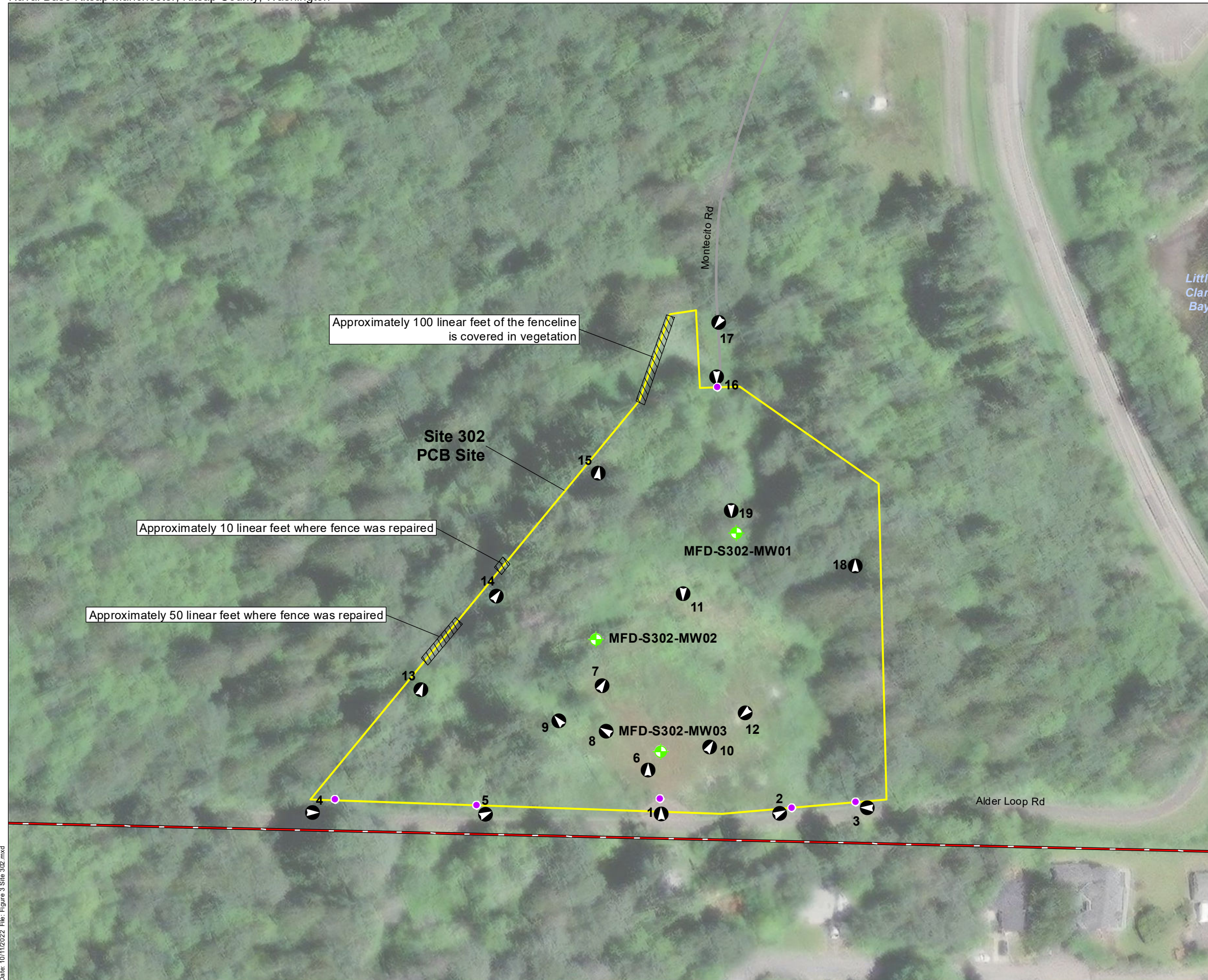
PROJECT NO.:	N4425523F4052
DATE:	June 2024
DRAWN BY:	MER
CHECKED BY:	CB



FIGURE

2

Date: 10/11/2022 File: Figure 2 Site Plan.mxd

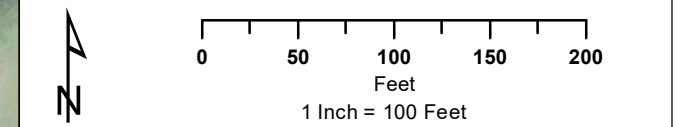


**Legend**

- 21 Photo Location (number corresponds to the Photograph Log, Appendix D)
- PFAS Monitoring Well
- LUC Signage
- Fence Condition
- Site Boundary
- Installation Boundary


**Acronyms:**  
 LUC = Land Use Control  
 PCB = polychlorinated biphenyl

Basemap Source: ESRI Online Streaming Service 2024

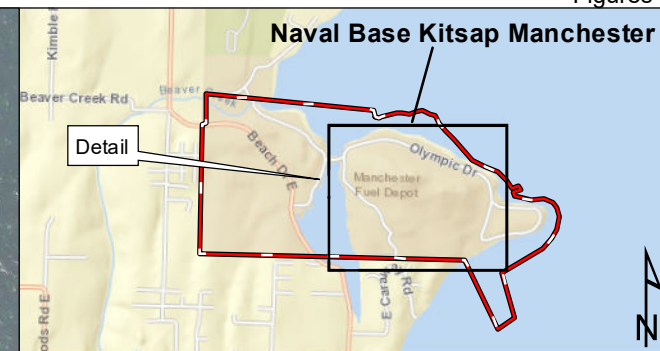


2024 Land Use Control Inspections Technical Memorandum  
 Sites 302, 303, and 304, and Tank 50  
 Naval Base Kitsap Manchester  
 Kitsap County, Washington

## Site 302 - PCB Site

PROJECT NO.:	N4425523F4052		FIGURE
DATE:	July 2024		3
DRAWN BY:	MER		
CHECKED BY:	CB		

Date: 10/11/2022 File: Figure 3 Site 302.mxd

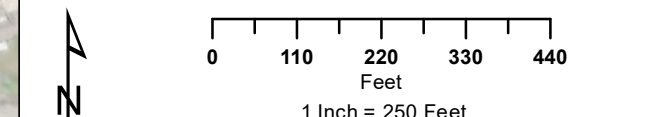


**Legend**

- 20 Photo Location (number corresponds to the Photograph Log, Appendix D)
- Monitoring Well
- LUC Signage
- Tunnel Line
- Site Boundary
- Installation Boundary

**Acronyms:**  
 MILCON = Military Construction

Basemap Source: ESRI Online Streaming Service 2024



2024 Land Use Control Inspections Technical Memorandum  
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 Kitsap County, Washington

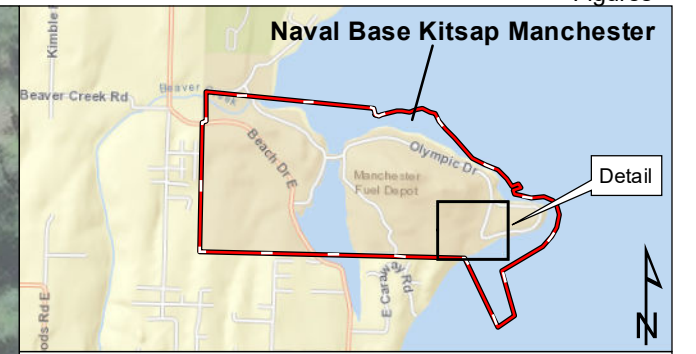
## Site 303 - D-Tunnel Tanks

PROJECT NO.:	N4425523F4052
DATE:	July 2024
DRAWN BY:	MER
CHECKED BY:	CB



FIGURE  
4

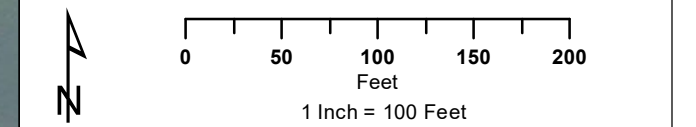
Date: 10/11/2022 File: Figure 4 Site 303 D.mxd



**Legend**

- 20 Photo Location (number corresponds to the Photographic Log, Appendix D)
- Monitoring Well
- PFAS Monitoring Well
- LUC Signage
- Tunnel Line
- Site Boundary
- Installation Boundary

Basemap Source: ESRI Online Streaming Service 2024



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 Kitsap County, Washington

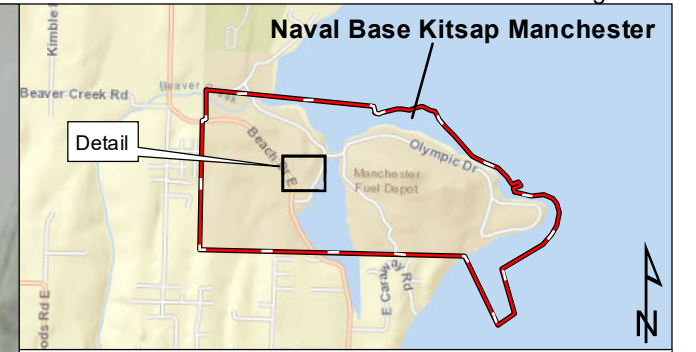
## Site 304 - Industrial Area

PROJECT NO.:	N4425523F4052
DATE:	July 2024
DRAWN BY:	MER
CHECKED BY:	CB



FIGURE  
**5**

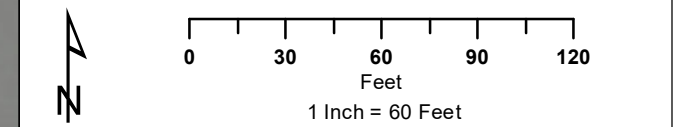
Date: 8/24/2023 File: Figure 5 Site 304.mxd



**Legend**

- Photo Location (number corresponds to the Photograph Log, Appendix D)
- Monitoring Well
- LUC Signage
- Site Boundary
- Installation Boundary

Basemap Source: ESRI Online Streaming Service 2024



2024 Land Use Control Inspections Technical Memorandum  
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 Naval Base Kitsap Manchester  
 Kitsap County, Washington

## Tank 50 - Release Site

PROJECT NO.:	N4425523F4052		FIGURE
DATE:	July 2024		<b>6</b>
DRAWN BY:	MER		
CHECKED BY:	CB		

Date: 10/11/2022 File: Figure 6 Tank 50.mxd

## **Appendix A: LUC Inspection Checklists**



**NBK Manchester  
 Site 302 - PCB Site  
 Naval Facilities Engineering Command Northwest**

**LAND USE CONTROLS (LUCs) INSPECTION CHECKLIST**

DATE(S) (MM|DD|YY):

06/05/2024

INSPECTOR(S):

C.Foster, S.Fetters

COMPANY:

Liberty JV

**LUCs**

- ENSURE THAT SITE SIGNAGE IS READABLE AND ADEQUATE.
- ENSURE THAT LAND USE REMAINS FOR INDUSTRIAL PURPOSES.
- ENSURE THAT THERE HAS BEEN NO UNAUTHORIZED SOIL EXCAVATION OR DISTURBANCE.
- ENSURE THAT THERE HAS BEEN NO UNAUTHORIZED PLACEMENT OF EXCESS SOIL FROM ANOTHER LOCATION.
- ENSURE INTEGRITY OF THE SOIL COVER VEGETATION, SO THAT ANY EXCAVATION OR IMPROPER DISPOSAL IS APPARENT.
- ENSURE THAT ANY SOIL EXCAVATED FROM THE SITE IS PROPERLY CHARACTERIZED AND DISPOSED OFF-SITE AND THAT ON-SITE WORKERS ARE PROTECTED DURING SUCH ACTIVITIES.
- ENSURE THAT SITE FENCING IS INTACT AND THAT GATES ARE SECURED AND LOCKED.

NOTE: LUCs THAT ARE ITALICIZED ARE REQUIRED LUCs FROM THE NFA LETTER.

**LUCs INSPECTION ACTIONS**

HAS SITE OR ADJACENT LAND USE CHANGED SINCE LAST INSPECTION?

YES  NO

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_

FINDINGS:  
 Industrial land use  
 \_\_\_\_\_  
 \_\_\_\_\_

IS THERE VISUAL OR ADMINISTRATIVE EVIDENCE OF SOIL EXCAVATION OR DISTURBANCE?  
 IF SO, DETERMINE IF SITE APPROVAL PROCESS HAS BEEN FOLLOWED.

YES  NO

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_

FINDINGS:  
 \_\_\_\_\_  
 \_\_\_\_\_

IS THERE VISUAL OR ADMINISTRATIVE EVIDENCE OF THE UNAUTHORIZED PLACEMENT OF  
 EXCESS SOIL FROM ANOTHER LOCATION?

YES  NO  NA

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ R. Riley \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_

FINDINGS:  
 No stockpiles observed on-site  
 \_\_\_\_\_  
 \_\_\_\_\_

HAS THE INTEGRITY OF THE VEGETATIVE COVER AT THE SITE BEEN MAINTAINED?

YES  NO  NA

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_

FINDINGS:  
 increased vegetation since 2023  
 \_\_\_\_\_  
 \_\_\_\_\_

HAS ACCESS CONTROL BEEN MAINTAINED?

YES  NO, EXPLAIN \_\_\_\_\_

SECURITY POC: N/A \_\_\_\_\_

IS SIGNAGE READABLE AND ADEQUATE?

YES  NO  NA

IS FENCING INTACT AND SECURE?

YES  NO  NA

ARE BOTH THE NORTH AND SOUTH GATES SECURED AND LOCKED

YES  NO  NA

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_

FINDINGS:  
 \_\_\_\_\_  
 \_\_\_\_\_



**NBK Manchester**  
**Site 302 - PCB Site**  
**Naval Facilities Engineering Command Northwest**

**LUCs INSPECTION CHECKLIST (CONTINUED)**

WERE PICTURES TAKEN?  YES  
 NO

PHOTO IDs See Appendix D  
\_\_\_\_\_  
\_\_\_\_\_

**ADDITIONAL NOTES:**

During the 2024 inspection, new fencing was observed on the west side of the site. The Remedial Project Manager informed Liberty JV that this work was conducted in response to previous recommendations to repair fencing. Some maintenance to remove vegetation from fencing was observed on the northwest portion of the boundary fencing. Fencing on the north and northeast sides of the site requires additional vegetation maintenance to keep the defined boundary intact. Approximately 60 feet of fence on the north portion, and 30 feet of fence on the northeast portion requires maintenance to remove vegetation overgrowth.

No existing or new stockpiles, or excavations were observed on the site.

Well inspections are not included as a part of this inspection; however, three monitoring wells related to PFAS investigation were observed on the site.

**I CERTIFY THAT THE CONDITIONS OF THE AREA ON THE INSPECTION DATES(S) WERE AS REPORTED ABOVE.**

INSPECTOR SIGNATURE: **Foster, Chelsea**  
**(USCF715440)**  
Digitally signed by Foster, Chelsea (USCF715440)  
Date: 2024.06.06 14:19:28 -07'00'

DATE:  
**06/05/2024**



**NBK Manchester**  
**Site 303 - D-Tunnel Tanks**  
**Naval Facilities Engineering Command Northwest**

**LAND USE CONTROLS (LUCs) INSPECTION CHECKLIST**

DATE(S) (MM|DD|YY):

6/5/2024

INSPECTOR(S):

C. Foster, S. Fetters

COMPANY:

Liberty JV

**LUCs**

- *ENSURE THAT LAND USE REMAINS FOR INDUSTRIAL PURPOSES. COORDINATE WITH ECOLOGY PRIOR TO CHANGE IN PROPERTY OWNERSHIP OR LAND USE CONCERNING THE NEED FOR REMEDIAL ACTIONS.*
- *ENSURE THAT WARNINGS ARE POSTED FOR WORKERS TO GUARD AGAINST EXPOSURE TO RESIDUAL PETROLEUM CONTAMINATED SOIL.*
- *IDENTIFY REMAINING AREAS OF CONCERN ON FACILITY MAPS AND SPECIFY IN FACILITY EXCAVATION PERMIT INSTRUCTION.*
- ENSURE NO PRODUCTION WELLS ARE INSTALLED AND GROUNDWATER IS NOT USED EXCEPT FOR MONITORING AND/OR REMEDIATION.
- PROTECT EXISTING VAPOR MONITORING WELLS UNTIL FORMALLY ABANDONED.
- ENSURE THAT THERE HAS BEEN NO UNAUTHORIZED SOIL EXCAVATION OR DISTURBANCE.
- CONFINE AUTHORIZED REUSABLE MATERIAL\* TO APPROVED STAGING AREA.
- ENSURE THAT ANY SOIL EXCAVATED FROM THE SITE IS PROPERLY CHARACTERIZED AND DISPOSED OFF-SITE AND THAT ON-SITE WORKERS ARE PROTECTED DURING SUCH ACTIVITIES.

NOTE: LUCs THAT ARE ITALICIZED ARE REQUIRED LUCs FROM THE NFA LETTER.

\*THOSE MATERIALS FOR WHICH ONSITE PLACEMENT HAS BEEN COORDINATED WITH THE ECOLOGY SITE MANAGER AND THAT HAVE BEEN CHARACTERIZED IN COLLABORATION WITH THE ECOLOGY SITE MANAGER.

**LUC INSPECTION ACTION**

HAS SITE OR ADJACENT LAND USE CHANGED SINCE LAST INSPECTION?

YES  NO

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_

FINDINGS:  
 Industrial land use \_\_\_\_\_

DO FACILITY MAPS IDENTIFY REMAINING AREAS OF CONCERN?

YES  NO

DESCRIBE:  
 Contractor Environmental & Safety Guide \_\_\_\_\_

DOES THE FACILITY EXCAVATION PERMIT INSTRUCTION SPECIFY REMAINING AREAS OF CONCERN?

YES  NO

DESCRIBE:  
 Contractor Environmental & Safety Guide \_\_\_\_\_

IS THERE VISUAL EVIDENCE OF UNAUTHORIZED ON-SITE WELL INSTALLATION OR GROUNDWATER USE?

YES  NO

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_  
 WELL INSPECTIONS

FINDINGS:  
 SEE WELL INSPECTION LOGS  
 OTHER \_\_\_\_\_

ARE ALL MONITORING WELLS IN GOOD CONDITION AND ACCESSIBLE? (REFER TO COMPLETED MONITORING WELL INSPECTION CHECKLISTS)

YES  NO

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_  
 WELL INSPECTIONS

FINDINGS:  
 SEE WELL INSPECTION LOGS  
 OTHER \_\_\_\_\_

IS THERE VISUAL OR ADMINISTRATIVE EVIDENCE OF SOIL EXCAVATION OR DISTURBANCE? IF SO, DETERMINE IF SITE APPROVAL PROCESS HAS BEEN FOLLOWED.

YES  NO

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_

FINDINGS:  
 Active construction activities \_\_\_\_\_



**NBK Manchester**  
**Site 303 - D-Tunnel Tanks**  
**Naval Facilities Engineering Command Northwest**

**LUCs INSPECTION CHECKLIST (CONTINUED)**

IS THERE VISUAL OR ADMINISTRATIVE EVIDENCE OF THE UNAUTHORIZED PLACEMENT EXCESS SOIL, FILL, OR SEDIMENT FROM ANOTHER LOCATION?

YES  NO  NA

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
(CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_

FINDINGS: \_\_\_\_\_

HAS ACCESS CONTROL BEEN MAINTAINED?

YES  NO, EXPLAIN \_\_\_\_\_

IS SIGNAGE READABLE AND ADEQUATE?

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
(CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_

YES  NO  NA

FINDINGS: \_\_\_\_\_

WERE PICTURES TAKEN?  YES  
 NO

PHOTO IDs See Appendix D

ADDITIONAL NOTES:

Active earthwork and construction activities related to tank decommissioning and replacement are occurring throughout the southern portion of the site. Signage has been repaired or replaced and is intact across the site. All monitoring wells were able to be located during this inspection event.

I CERTIFY THAT THE CONDITIONS OF THE AREA ON THE INSPECTION DATES(S) WERE AS REPORTED ABOVE.

INSPECTOR SIGNATURE: **Foster, Chelsea**  
**(USCF715440)**

Digitally signed by Foster, Chelsea  
(USCF715440)  
Date: 2024.06.06 14:19:38 -07'00'

DATE:

**06/05/2024**



**NBK Manchester**  
**Site 304 - Industrial Area**  
**Naval Facilities Engineering Command Northwest**

**LAND USE CONTROLS (LUCs) INSPECTION CHECKLIST**

DATE(S) (MM|DD|YY):

06/05/2024

INSPECTOR(S):

C. Foster, S. Feters

COMPANY:

Liberty JV

**LUCs**

- ENSURE THAT LAND USE REMAINS FOR INDUSTRIAL PURPOSES. COORDINATE WITH ECOLOGY PRIOR TO CHANGE IN PROPERTY OWNERSHIP OR LAND USE CONCERNING THE NEED FOR REMEDIAL ACTIONS.
- ENSURE THAT WARNINGS ARE POSTED FOR WORKERS TO GUARD AGAINST EXPOSURE TO RESIDUAL PETROLEUM CONTAMINATED SOIL.
- IDENTIFY REMAINING AREAS OF CONCERN ON FACILITY MAPS AND SPECIFY IN FACILITY EXCAVATION PERMIT INSTRUCTION.
- ENSURE NO PRODUCTION WELLS ARE INSTALLED AND GROUNDWATER IS NOT USED EXCEPT FOR MONITORING AND/OR REMEDIATION.
- PROTECT EXISTING MONITORING WELLS UNTIL FORMALLY ABANDONED.
- ENSURE THAT THERE HAS BEEN NO UNAUTHORIZED SOIL EXCAVATION OR DISTURBANCE.
- ENSURE THAT ANY SOIL EXCAVATED FROM THE SITE IS PROPERLY CHARACTERIZED AND DISPOSED OFF-SITE AND THAT ON-SITE WORKERS ARE PROTECTED DURING SUCH ACTIVITIES.

NOTE: LUCs THAT ARE ITALICIZED ARE REQUIRED LUCs FROM THE NFA LETTER.

**LUC INSPECTION ACTIONS**

HAS SITE OR ADJACENT LAND USE CHANGED SINCE LAST INSPECTION?

YES  NO

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_

FINDINGS:  
 Industrial land use \_\_\_\_\_

DO FACILITY MAPS IDENTIFY REMAINING AREAS OF CONCERN?

YES  NO

DESCRIBE:  
 Contractor Environmental & Safety Guide \_\_\_\_\_

DOES THE FACILITY EXCAVATION PERMIT INSTRUCTION SPECIFY REMAINING AREAS OF CONCERN?

YES  NO

DESCRIBE:  
 Contractor Environmental & Safety Guide \_\_\_\_\_

IS THERE VISUAL EVIDENCE OF UNAUTHORIZED ON-SITE WELL INSTALLATION OR GROUNDWATER USE?

YES  NO

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_  
 WELL INSPECTIONS

FINDINGS:  
 SEE WELL INSPECTION LOGS  
 OTHER \_\_\_\_\_

ARE ALL MONITORING WELLS IN GOOD CONDITION AND ACCESSIBLE? (REFER TO COMPLETED MONITORING WELL INSPECTION CHECKLISTS)

YES  NO

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_  
 WELL INSPECTIONS

FINDINGS:  
 SEE WELL INSPECTION LOGS  
 OTHER \_\_\_\_\_

IS THERE VISUAL OR ADMINISTRATIVE EVIDENCE OF SOIL EXCAVATION OR DISTURBANCE? IF SO, DETERMINE IF SITE APPROVAL PROCESS HAS BEEN FOLLOWED.

YES  NO

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_

FINDINGS:  
 \_\_\_\_\_



**NBK Manchester**  
**Site 304 - Industrial Area**  
**Naval Facilities Engineering Command Northwest**

**LUCs INSPECTION CHECKLIST (CONTINUED)**

HAS ACCESS CONTROL BEEN MAINTAINED?  YES  NO, EXPLAIN \_\_\_\_\_

SECURITY POC: \_\_\_\_\_

IS SIGNAGE READABLE AND ADEQUATE?

YES  NO  NA

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_

FINDINGS: \_\_\_\_\_

WERE PICTURES TAKEN?  YES  
 NO

PHOTO IDs See Appendix D  
 \_\_\_\_\_  
 \_\_\_\_\_

ADDITIONAL NOTES:

The previously observed trenching adjacent to building B217 has since been backfilled and re-vegetated.

Monitoring well MW-4 remains covered by a pallet, as stated on the well inspection form.

The area in the northeast portion of the site is no longer used as a construction laydown area; it was in-use for parking at the time of the inspections. The area north of the site previously used for construction laydown was observed to be cleared of equipment and construction materials, partially re-vegetated, and a silt fence was installed.

I CERTIFY THAT THE CONDITIONS OF THE AREA ON THE INSPECTION DATES(S) WERE AS REPORTED ABOVE.

INSPECTOR SIGNATURE: Foster, Chelsea  
 (USCF715440)  
Digitally signed by Foster, Chelsea (USCF715440)  
 Date: 2024.06.06 14:19:58 -07'00'

DATE:  
 06/05/2024



**NBK Manchester  
 Tank 50 Release Site  
 Naval Facilities Engineering Command Northwest**

**LAND USE CONTROLS (LUCs) INSPECTION CHECKLIST**

DATE(S) (MM|DD|YY):

06/05/2024

INSPECTOR(S):

C. Foster, S. Fetters

COMPANY:

Liberty JV

**LUCs**

- ENSURE THAT WARNINGS ARE POSTED FOR WORKERS TO GUARD AGAINST EXPOSURE TO RESIDUAL PETROLEUM CONTAMINATED SOIL.
- IDENTIFY REMAINING AREAS OF CONCERN ON FACILITY MAPS AND SPECIFY IN FACILITY EXCAVATION PERMIT INSTRUCTION.
- ENSURE THAT LAND USE REMAINS FOR INDUSTRIAL PURPOSES. COORDINATE WITH ECOLOGY PRIOR TO CHANGE IN PROPERTY OWNERSHIP OR LAND USE CONCERNING THE NEED FOR REMEDIAL ACTIONS.
- ENSURE NO PRODUCTION WELLS ARE INSTALLED AND GROUNDWATER IS NOT USED EXCEPT FOR MONITORING AND/OR REMEDIATION.
- PROTECT EXISTING MONITORING WELLS UNTIL FORMALLY ABANDONED.
- ENSURE THAT THERE HAS BEEN NO UNAUTHORIZED SOIL EXCAVATION OR DISTURBANCE.
- ENSURE THAT ANY SOIL EXCAVATED FROM THE SITE IS PROPERLY CHARACTERIZED AND DISPOSED OFF-SITE AND THAT ON-SITE WORKERS ARE PROTECTED DURING SUCH ACTIVITIES.

NOTE: LUCs THAT ARE ITALICIZED ARE REQUIRED LUCs FROM THE NFA LETTER.

**LUC INSPECTION ACTION**

HAS SITE OR ADJACENT LAND USE CHANGED SINCE LAST INSPECTION?

YES  NO

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_

FINDINGS:  
 Industrial land use \_\_\_\_\_

DO FACILITY MAPS IDENTIFY REMAINING AREAS OF CONCERN?

YES  NO

DESCRIBE:  
 Contractor Environmental & Safety Guide \_\_\_\_\_

DOES THE FACILITY EXCAVATION PERMIT INSTRUCTION SPECIFY REMAINING AREAS OF CONCERN?

YES  NO

DESCRIBE:  
 Contractor Environmental & Safety Guide \_\_\_\_\_

IS THERE VISUAL EVIDENCE OF UNAUTHORIZED ON-SITE WELL INSTALLATION OR GROUNDWATER USE?

YES  NO

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_  
 WELL INSPECTIONS

FINDINGS:  
 SEE WELL INSPECTION LOGS  
 OTHER \_\_\_\_\_

ARE ALL MONITORING WELLS IN GOOD CONDITION AND ACCESSIBLE? (REFER TO COMPLETED MONITORING WELL INSPECTION CHECKLISTS)

YES  NO

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_  
 WELL INSPECTIONS

FINDINGS:  
 SEE WELL INSPECTION LOGS  
 OTHER \_\_\_\_\_

IS THERE VISUAL OR ADMINISTRATIVE EVIDENCE OF SOIL EXCAVATION OR DISTURBANCE? IF SO, DETERMINE IF SITE APPROVAL PROCESS HAS BEEN FOLLOWED.

YES  NO

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_

FINDINGS:  
 \_\_\_\_\_



**NBK Manchester  
 Tank 50 Release Site  
 Naval Facilities Engineering Command Northwest**

**LUCs INSPECTION CHECKLIST (CONTINUED)**

IS THERE VISUAL OR ADMINISTRATIVE EVIDENCE OF THE UNAUTHORIZED PLACEMENT  
 EXCESS SOIL, FILL, OR SEDIMENT FROM ANOTHER LOCATION?

YES  NO  NA

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_

FINDINGS: \_\_\_\_\_  
 \_\_\_\_\_

HAS ACCESS CONTROL BEEN MAINTAINED?

YES  NO, EXPLAIN \_\_\_\_\_  
 \_\_\_\_\_

SECURITY POC: \_\_\_\_\_

IS SIGNAGE READABLE AND ADEQUATE?

YES  NO  NA

INSPECTION PERFORMED?  SITE WALK  INTERVIEW W/ \_\_\_\_\_  
 (CHECK ALL THAT APPLY)  SECURITY CHECK  OTHER \_\_\_\_\_

FINDINGS: \_\_\_\_\_  
 \_\_\_\_\_

WERE PICTURES TAKEN?  YES  
 NO

PHOTO IDs See Appendix D  
 \_\_\_\_\_  
 \_\_\_\_\_

ADDITIONAL NOTES:

The addition of a construction office trailer with fencing surrounding the structure was noted during the 2024 inspection.

I CERTIFY THAT THE CONDITIONS OF THE AREA ON THE INSPECTION DATES(S) WERE AS REPORTED ABOVE.

INSPECTOR SIGNATURE: **Foster, Chelsea**  
**(USCF715440)**

Digitally signed by Foster,  
 Chelsea (USCF715440)  
 Date: 2024.06.06 14:20:14  
 -07'00'

DATE:  
 06/05/2024

## **Appendix B: Monitoring Well Inspection Checklists**



**Naval Base Kitsap Manchester, Kitsap County, WA**  
**Naval Facilities Engineering Systems Command**  
**Northwest**

**MONITORING WELL CHECKLIST FOR LUC INSPECTION**

<b>DATE (MM DD YY):</b> 06/05/2024	<b>TIME (HH:MM):</b> 13:24	<b>WEATHER/TEMPERATURE:</b> Sunny, 68 degrees fahrenheit
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<b>INSPECTOR:</b> C. Foster	<b>COMPANY:</b> Liberty JV
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<b>SITE:</b> 303	<b>DESCRIPTION:</b> D-Tunnel Tanks
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<b>WELL ID:</b> MW-1, North of Tank 30	<b>NORTHING:</b> 64612.007	<b>EASTING:</b> 371179.515
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**Part 1: TYPE OF MONITORING WELL AND MONUMENT CONDITION**

TYPE OF MONITORING WELL:  GROUNDWATER  
 SOIL VAPOR

MONITORING WELL LOCATED?  YES  NO

IS THE WELL CLEARLY LABELED?  YES  NO

IS THE MONUMENT IN GOOD CONDITION?  YES  NO

TYPE OF WELL CASING:  STICK-UP  FLUSH-MOUNT  OTHER \_\_\_\_\_

SIZE & NUMBER OF BOLTS ON FLUSH-MOUNT LID: not observable

WERE PICTURES TAKEN?  YES  NO

PHOTO IDs: See Appendix D  
1324

MONITORING WELL MONUMENT CAP OPENED?  YES  NO (IF NO, SKIP TO PART 3)

**Part 2: MONITORING WELL CONDITION**

CASING DIAMETER  2"  4"  6"  8"  OTHER \_\_\_\_\_

IS THE CASING IN GOOD CONDITION?  YES  NO

IS THERE A CAP ON THE MONITORING WELL?  YES  NO

TYPE OF CAP:  PVC SLIP CAP  
 J-PLUG  
 EXPANSION  
 PRODUCTION W/TUBING  
 OTHER \_\_\_\_\_

IS THERE ANY EVIDENCE OF TAMPERING WITH THE WELL CASING OR CAP?  YES  NO

ARE THERE ANY ODORS?  YES  NO

IF YES, DESCRIBE ODOR:  SOLVENT  
 SULFIDE/ROTTEN EGGS  
 PETROLEUM  
 OTHER \_\_\_\_\_

WERE PICTURES TAKEN?  YES  NO

PHOTO IDs: \_\_\_\_\_

**Part 3: ADDITIONAL NOTES OR COMMENTS** Monitoring well located visually but is behind a fence with a locked gate (8-A). Well

GENERAL CONDITION (CHECK ONE): monument is rusted with moss growing around it.

GOOD CONDITION  
 MODERATE CONDITION  
 POOR CONDITION





**Naval Base Kitsap Manchester, Kitsap County, WA**  
**Naval Facilities Engineering Systems Command**  
**Northwest**

**MONITORING WELL CHECKLIST FOR LUC INSPECTION**

<b>DATE (MM DD YY):</b> 06/05/2024	<b>TIME (HH:MM):</b> 12:50	<b>WEATHER/TEMPERATURE:</b> Sunny, 64 degrees fahrenheit
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<b>INSPECTOR:</b> C. Foster	<b>COMPANY:</b> Liberty JV
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<b>SITE:</b> 303	<b>DESCRIPTION:</b> D-Tunnel Tanks
---------------------	---------------------------------------

<b>WELL ID:</b> MW-1, South of Tank 24	<b>NORTHING:</b> 64013.946	<b>EASTING:</b> 371485.35
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**Part 1: TYPE OF MONITORING WELL AND MONUMENT CONDITION**

TYPE OF MONITORING WELL:  GROUNDWATER  
 SOIL VAPOR

MONITORING WELL LOCATED?  YES  NO

IS THE WELL CLEARLY LABELED?  YES  NO

IS THE MONUMENT IN GOOD CONDITION?  YES  NO

TYPE OF WELL CASING:  STICK-UP  FLUSH-MOUNT  OTHER \_\_\_\_\_

SIZE & NUMBER OF BOLTS ON FLUSH-MOUNT LID: 9/16" x 3 bolts

WERE PICTURES TAKEN?  YES  NO

PHOTO IDs: See Appendix D  
1250

MONITORING WELL MONUMENT CAP OPENED?  YES  NO (IF NO, SKIP TO PART 3)

**Part 2: MONITORING WELL CONDITION**

CASING DIAMETER  2"  4"  6"  8" OTHER \_\_\_\_\_

IS THE CASING IN GOOD CONDITION?  YES  NO

IS THERE A CAP ON THE MONITORING WELL?  YES  NO

TYPE OF CAP:  PVC SLIP CAP  
 J-PLUG  
 EXPANSION  
 PRODUCTION W/TUBING  
 OTHER \_\_\_\_\_

IS THERE ANY EVIDENCE OF TAMPERING WITH THE WELL CASING OR CAP?  YES  NO

ARE THERE ANY ODORS?  YES  NO

IF YES, DESCRIBE ODOR:  SOLVENT  
 SULFIDE/ROTTEN EGGS  
 PETROLEUM  
 OTHER \_\_\_\_\_

WERE PICTURES TAKEN?  YES  NO

PHOTO IDs: \_\_\_\_\_

**Part 3: ADDITIONAL NOTES OR COMMENTS** Monument apron cracked, outer and inner casing appear to be in good condition

GENERAL CONDITION (CHECK ONE):

- GOOD CONDITION
- MODERATE CONDITION
- POOR CONDITION





**Naval Base Kitsap Manchester, Kitsap County, WA**  
**Naval Facilities Engineering Systems Command**  
**Northwest**

**MONITORING WELL CHECKLIST FOR LUC INSPECTION**

<b>DATE (MM DD YY):</b> 06/05/2024	<b>TIME (HH:MM):</b> 14:56	<b>WEATHER/TEMPERATURE:</b> Sunny, 68 degrees fahrenheit
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<b>INSPECTOR:</b> C. Foster	<b>COMPANY:</b> Liberty JV
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<b>SITE:</b> 304	<b>DESCRIPTION:</b> Industrial Area
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<b>WELL ID:</b> MW-2	<b>NORTHING:</b> 64106.184	<b>EASTING:</b> 371804.246
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**Part 1: TYPE OF MONITORING WELL AND MONUMENT CONDITION**

TYPE OF MONITORING WELL:  GROUNDWATER  
 SOIL VAPOR

MONITORING WELL LOCATED?  YES  NO

IS THE WELL CLEARLY LABELED?  YES  NO

IS THE MONUMENT IN GOOD CONDITION?  YES  NO

TYPE OF WELL CASING:  STICK-UP  FLUSH-MOUNT  OTHER \_\_\_\_\_

SIZE & NUMBER OF BOLTS ON FLUSH-MOUNT LID: 3/4" x 2 bolts

WERE PICTURES TAKEN?  YES  NO

PHOTO IDs: See Appendix D  
1456

MONITORING WELL MONUMENT CAP OPENED?  YES  NO (IF NO, SKIP TO PART 3)

**Part 2: MONITORING WELL CONDITION**

CASING DIAMETER  2"  4"  6"  8" OTHER \_\_\_\_\_

IS THE CASING IN GOOD CONDITION?  YES  NO

IS THERE A CAP ON THE MONITORING WELL?  YES  NO

TYPE OF CAP:  PVC SLIP CAP  
 J-PLUG  
 EXPANSION  
 PRODUCTION W/TUBING  
 OTHER \_\_\_\_\_

IS THERE ANY EVIDENCE OF TAMPERING WITH THE WELL CASING OR CAP?  YES  NO

ARE THERE ANY ODORS?  YES  NO

IF YES, DESCRIBE ODOR:  SOLVENT  
 SULFIDE/ROTTEN EGGS  
 PETROLEUM  
 OTHER \_\_\_\_\_

WERE PICTURES TAKEN?  YES  NO

PHOTO IDs: \_\_\_\_\_

**Part 3: ADDITIONAL NOTES OR COMMENTS**

GENERAL CONDITION (CHECK ONE):

GOOD CONDITION

MODERATE CONDITION

POOR CONDITION





**Naval Base Kitsap Manchester, Kitsap County, WA**  
**Naval Facilities Engineering Systems Command**  
**Northwest**

**MONITORING WELL CHECKLIST FOR LUC INSPECTION**

<b>DATE (MM DD YY):</b> 06/05/2024	<b>TIME (HH:MM):</b> 0846	<b>WEATHER/TEMPERATURE:</b> Partly cloudy, 58 degrees fahrenheit
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<b>INSPECTOR:</b> C. Foster	<b>COMPANY:</b> Liberty JV
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<b>SITE:</b> Tank 50	<b>DESCRIPTION:</b> Release Site
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<b>WELL ID:</b> MW-1	<b>NORTHING:</b> 64407.051	<b>EASTING:</b> 370946.014
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**Part 1: TYPE OF MONITORING WELL AND MONUMENT CONDITION**

TYPE OF MONITORING WELL:  GROUNDWATER  
 SOIL VAPOR

MONITORING WELL LOCATED?  YES  NO

IS THE WELL CLEARLY LABELED?  YES  NO

IS THE MONUMENT IN GOOD CONDITION?  YES  NO

TYPE OF WELL CASING:  STICK-UP  FLUSH-MOUNT  OTHER \_\_\_\_\_

SIZE & NUMBER OF BOLTS ON FLUSH-MOUNT LID: \_\_\_\_\_

WERE PICTURES TAKEN?  YES  NO PHOTO IDS: See Appendix D

MONITORING WELL MONUMENT CAP OPENED?  YES  NO (IF NO, SKIP TO PART 3)

**Part 2: MONITORING WELL CONDITION**

CASING DIAMETER  2"  4"  6"  8" OTHER \_\_\_\_\_

IS THE CASING IN GOOD CONDITION?  YES  NO

IS THERE A CAP ON THE MONITORING WELL?  YES  NO

TYPE OF CAP:  PVC SLIP CAP  
 J-PLUG  
 EXPANSION  
 PRODUCTION W/TUBING  
 OTHER \_\_\_\_\_

IS THERE ANY EVIDENCE OF TAMPERING WITH THE WELL CASING OR CAP?  YES  NO

ARE THERE ANY ODORS?  YES  NO

IF YES, DESCRIBE ODOR:  SOLVENT  
 SULFIDE/ROTTEN EGGS  
 PETROLEUM  
 OTHER \_\_\_\_\_

WERE PICTURES TAKEN?  YES  NO PHOTO IDS: \_\_\_\_\_

**Part 3: ADDITIONAL NOTES OR COMMENTS** Well contains a lock (brass, 1-inch shank) on the stove top monument.

GENERAL CONDITION (CHECK ONE):

- GOOD CONDITION
- MODERATE CONDITION
- POOR CONDITION

## **Appendix C: Field Notes**

## FIELD NOTES

**Project Number: NBK Manchester Fuel Depot LUC Inspection, 2024**

**Project Number: 20D5006.24F4052**

**Company/Field Team: Liberty JV / C. Foster, S. Fetters**

<b>Date:</b>	<b>Wednesday, June 5, 2024</b>				
<b>Weather:</b>	Bright Sun	Clear	Overcast	Rain	Snow
<b>Temp (F):</b>	Under 32	32-50	51-70	71-85	Over 85
<b>Wind:</b>	Still	Mod.	High		
<b>Humidity:</b>	Dry	Mod.	High		

<b>Time:</b>	<b>Notes:</b>
<b>0730</b>	<u>Arrive onsite at Building 217. Conducted Daily Tailgate Safety Meeting and reviewed previous LUC Inspection details and recommendations.</u>
<b>0755</b>	<u>Attempted to check in with Mike Hardiman; he was not available. Spoke with Robert Riley. He stated that an Excavation Plan is now in place for all excavations at Manchester Fuel Depot. He also stated that the soil from the top cap at Site 302 had been tested for PCBs.</u>
<b>0812</b>	<u>Arrive at Tank 50. Began LUC inspection. Signage is in place. No soil disturbance observed. MW-1 was covered by weeds but appeared in good condition. It was not inspected because it was locked and no key was made available.</u>
<b>0915</b>	<u>The NAVFAC NW RPM arrived. Completed Tank 50 inspection. Mob to Site 302.</u>
<b>0935</b>	<u>Begin LUC Inspection at Site 302. Signage in place and lock and chain in place at South Gate. Ground has revegetated after removal of soil stockpiles. Fence has been repaired in two areas along the West boundary. Signage in place and lock and chain in place at North Gate. Aric indicated plans to award a contract for removal of foliage around the entire boundary of Site 302. The fence is laying over in an area near the North Gate and needs to be repositioned and secured.</u>
<b>1100</b>	<u>Completed Site 302 LUC Inspection. Mob to Site 303.</u>
<b>1135</b>	<u>Fast Sign arrives to install new signage at Site 303, Tank 29. Two signs were purchased (one for Tank 29 and an extra sign). Begin LUC Inspection at Site 303. Inspection at Tanks 27, 28 and Tank 29 was conducted. Signage in place.</u>
<b>1200</b>	<u>Fast Sign offsite.</u>

<b>Time:</b>	<b>Notes:</b>
<b>1230</b>	<u>Inspection at Tanks 22, 24, and 25 was conducted. Signage in place. The area around Tanks 24 and 25 is currently under construction. New Aboveground Tanks are being installed. The sign was down along the South boundary, but it was temporarily reinstalled. The extra sign that was purchased from Fast Signs will be used to replace the sign that was down; the RPM took the sign and will install it later. MW-1(S) along southern boundary was inspected and was in moderate condition. MW-1(N) along Olympic Drive is located on the outside of the boundary fencing and a locked gate, so it could not be inspected beyond visually. MW-3 along Olympic Drive was in good condition.</u>
<b>1330</b>	<u>Inspection at Tank 30 was conducted. Signage in place. Completed LUC Inspection at Site 303. Mob to Site 304.</u>
<b>1415</b>	<u>Begin LUC Inspection at Site 304. Signage in place. Soil excavation observed in 2023 was complete and revegetated. MW-4 was covered by a pallet and could not be opened and inspected. MW-2 was in good condition. MW-1 was in moderate condition.</u>
<b>1525</b>	<u>Completed LUC Inspection at Site 304. Attempted to check in with Mike Carter for photo review, but he was out of the office for the day. Photos will be sent electronically.</u>
<b>1530</b>	<u>Departed MFD.</u>

## **Appendix D: Photographic Log**

### Site 302 – PCB Site



**Photograph 1**  
LUC signage located on south side of site, facing north.



**Photograph 2**  
Land use control (LUC) signage along southeastern road boundary, facing east.

**Site 302 – PCB Site**



**Photograph 3**  
LUC signage at southeast corner, facing west.



**Photograph 4**  
Fencing along southwestern boundary of site, facing northeast.

**Site 302 – PCB Site**



**Photograph 5**  
Southwest boundary of site, facing east.



**Photograph 6**  
South central area of site and new PFAS groundwater monitoring well MFD-S302-MW03, facing north.

**Site 302 – PCB Site**



**Photograph 7**  
Central area of the site, facing northeast. (Previous location of Stockpiles).



**Photograph 8**  
South central area of site, facing northwest.

### Site 302 – PCB Site



**Photograph 9**

South central area of site, facing northwest. PFAS groundwater monitoring well MFD-S302-MW02 in the background.



**Photograph 10**

Southern central area of site near gate, facing northeast.

**Site 302 – PCB Site**



**Photograph 11**  
Central area of site, facing south.



**Photograph 12**  
South central area of site, facing southwest.

**Site 302 – PCB Site**



**Photograph 13**

Fence that has been fixed near southwest corner of site, facing north.



**Photograph 14**

Fence that has been fixed along west perimeter, facing north.

### Site 302 – PCB Site



**Photograph 15**  
West perimeter fence line, facing northwest.



**Photograph 16**  
Locked access gate and LUC signage located on north side of site, facing south.

**Site 302 – PCB Site**



**Photograph 17**  
Northern corner fence line, facing southwest.



**Photograph 18**  
East perimeter fence line, facing north.

### Site 302 – PCB Site



**Photograph 19**

PFAS groundwater monitoring well MFD-S302-MW01 located within the northeast area of site, facing south.

### Site 303 – D Tunnel Tanks



**Photograph 1**  
Southeast boundary, facing southwest.



**Photograph 2**  
LUC signage at Tank 22 and storage containers, facing southeast.

### Site 303 – D Tunnel Tanks



**Photograph 3**  
Locations of former vapor monitoring wells and installed vault, facing northeast.



**Photograph 4**  
Active construction activities near Tank 22, facing west.

### Site 303 – D Tunnel Tanks



**Photograph 5**  
Southeast boundary at Tank 22, facing northeast.



**Photograph 6**  
Southeast boundary of site, facing east.

### Site 303 – D Tunnel Tanks



**Photograph 7**

LUC signage along southeast perimeter, facing west. Sign was down on initial arrival and placed back on the pole temporarily.



**Photograph 8**

Stairway and ponded water south of Tank 24, facing north.

### Site 303 – D Tunnel Tanks



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**Photograph 9**  
Groundwater monitoring well MW-1, facing northwest.



Samsung Galaxy Tab A8

**Photograph 10**  
Construction activities along the southern boundary, facing northwest.

### Site 303 – D Tunnel Tanks



**Photograph 11**  
Construction activities, facing northeast.



**Photograph 12**  
LUC signage, facing east.

### Site 303 – D Tunnel Tanks



**Photograph 13**  
Overview of Tank 27, facing west.



**Photograph 14**  
LUC signage at Tank 27, facing northwest.

### Site 303 – D Tunnel Tanks



**Photograph 15**  
LUC signage at Tank 28, facing northwest.



**Photograph 16**  
Area southwest of Tank 28 along the perimeter road.

### Site 303 – D Tunnel Tanks



**Photograph 17**

Overview of Tank 29 and newly installed LUC Signage, facing north.



**Photograph 18**

Vault near Tank 29, facing southwest.

### Site 303 – D Tunnel Tanks



**Photograph 19**  
Construction laydown yard north of Tank 29, facing north.



**Photograph 20**  
LUC signage at Tank 30, facing north.

### Site 303 – D Tunnel Tanks



**Photograph 21**

Repaired cut in road related to former construction access road near Tank 30, facing northwest



**Photograph 22**

Tank 30 site overview facing northeast.

### Site 303 – D Tunnel Tanks



**Photograph 23**

Vault at Tank 30 and revegetated area of previous soil disturbance in the distance, facing east.



**Photograph 24**

Groundwater monitoring well MW-3, north of site boundary, facing north.

### Site 303 – D Tunnel Tanks



**Photograph 25**

Groundwater monitoring well MW-1 (located behind fence), north of site boundary, facing north.

### Site 304 – Industrial Area



**Photograph 1**  
Parking lot along northeast boundary, facing north.



**Photograph 2**  
Parking lot along southcentral area of site, facing southwest.

**Site 304 – Industrial Area**



**Photograph 3**

South central boundary adjacent to Administration Building showing where a utility trench had previously been excavated, facing northeast.



**Photograph 4**

Groundwater monitoring well MW-4 (covered by pallets), located along southcentral boundary of site facing north.

**Site 304 – Industrial Area**



**Photograph 5**

Close up of groundwater monitoring well MW-4 (covered by pallets), located along southcentral boundary of site facing north.



**Photograph 6**

Southwest boundary of site, facing west.

**Site 304 – Industrial Area**



**Photograph 7**  
Southwest boundary of site, facing northeast.



**Photograph 8**  
Groundwater monitoring well MW-3 and PFAS monitoring well MFD-B12-MW03,  
facing south-southwest.

**Site 304 – Industrial Area**



**Photograph 9**  
Western central boundary of site, facing south.



**Photograph 10**  
West central area of site, facing northeast.

**Site 304 – Industrial Area**



**Photograph 11**  
Groundwater monitoring well MW-2, facing northeast.



**Photograph 12**  
Fuel related waste storage containers (under canopy), facing northwest.

**Site 304 – Industrial Area**



**Photograph 13**  
Northeast boundary, facing northeast.



**Photograph 14**  
LUC signage located outside of north boundary of site, facing southwest.

**Site 304 – Industrial Area**



**Photograph 15**

Recently replaced concrete pad and vaults, along northwest boundary, facing southwest.



**Photograph 16**

Northeastern site boundary, facing southeast.

**Site 304 – Industrial Area**



**Photograph 17**  
Eastern boundary of site, facing south.

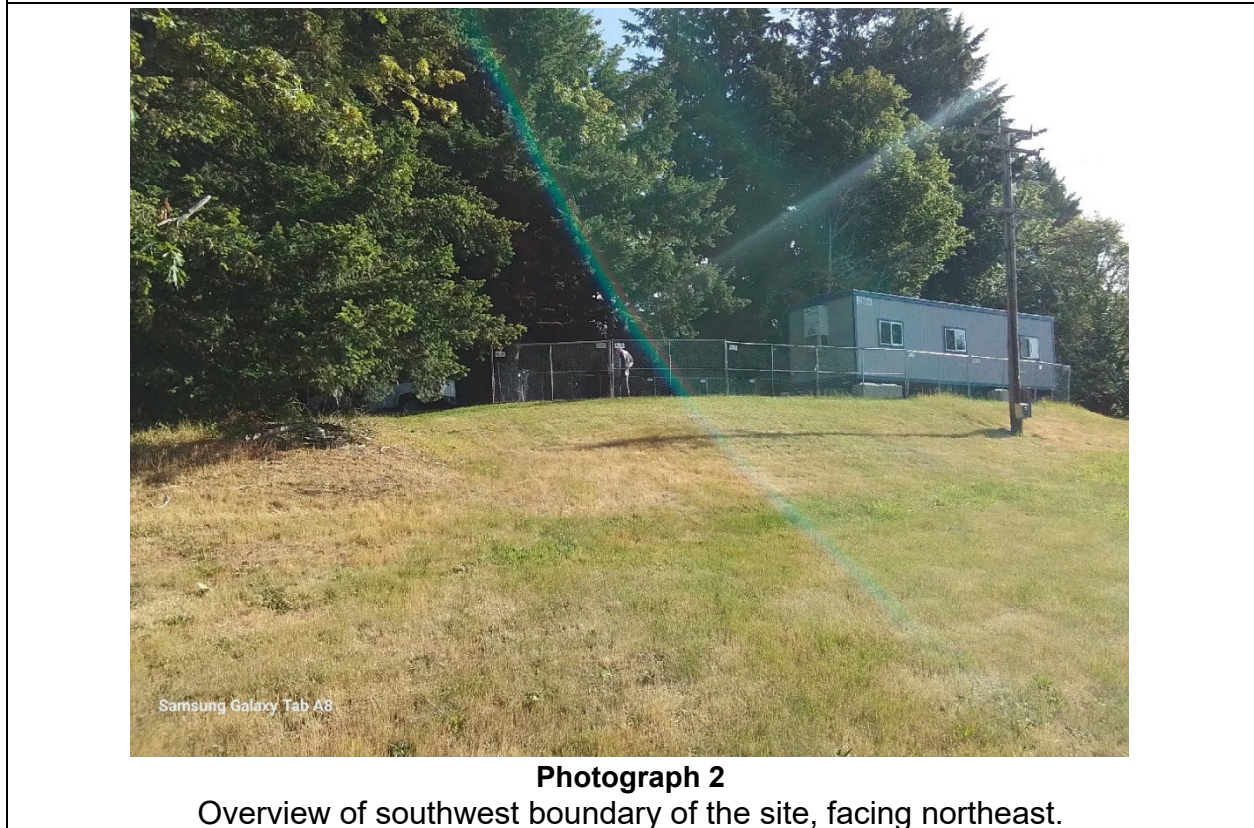


**Photograph 18**  
Eastern boundary of site, previous construction laydown area, and vicinity of two PFAS monitoring wells, facing southwest.

### Tank 50



**Photograph 1**  
LUC signage along southwest road boundary, facing southeast.



**Photograph 2**  
Overview of southwest boundary of the site, facing northeast.



**Photograph 3**  
Tanker truck facility and containerized fuel related waste, facing northeast.



**Photograph 4**  
Southeast boundary of site, facing northeast.



**Photograph 5**

Monitoring well MW-1, located along the southeast boundary, facing southeast.



**Photograph 6**

Slope area cleared of trees, located along the northeast boundary, facing west.



**Photograph 7**  
Tank 50 site overview, facing southwest.



**Photograph 8**  
LUC signage located along the Northeast boundary, facing southwest.



**Photograph 9**  
Tank 50 site overview, facing northwest.



**Photograph 10**  
Former road along northwest boundary of site, facing southwest.



**Photograph 11**  
Former road along northwest boundary of site, facing northeast.




**Photograph 12**  
Northwest boundary of site, facing southeast.



Samsung Galaxy Tab A8

**Photograph 13**  
Northwest boundary of site, facing southeast.

**Appendix E:  
Field Change Request Forms**

 <b>Naval Base Kitsap Manchester, Kitsap County, WA</b> <b>Naval Facilities Engineering Systems Command</b> <b>Northwest</b>		
FIELD CHANGE REQUEST (FCR) FORM		
<b>CONTRACT NO.:</b> N4425520D5006	<b>TASK ORDER NO.:</b> N44255224F4052	<b>FCR NO.:</b> 01
<b>NTR/RPM/COR:</b> Aric Frohman	<b>LOCATION:</b> NBK Manchester, Kitsap County, WA	<b>DATE:</b> May 21, 2024
<b>1. DOCUMENT TO BE CHANGED (IDENTIFY REVISION, DATE, SECTION, DRAWING, ETC.):</b> Final Abbreviated Accident Prevention Plan for Various Site Reconnaissance Activities, Naval Base Kitsap Manchester, Manchester, Washington (dated November 10, 2016). <b>Items to be updated:</b> <ol style="list-style-type: none"> <li>1) Section 2.0: Background Information, Description of Work to be Performed</li> <li>2) Table 2: Project Contact List</li> <li>3) Figure 2: Lines of Authority for Project Safety</li> <li>4) Table 3: Emergency Notification/Contact List</li> </ol>		
<b>2. DESCRIPTION OF EXISTING REQUIREMENT AND PROPOSED CHANGE (ATTACH SHEET IF NECESSARY):</b> <b>Item 1:</b> <ul style="list-style-type: none"> <li>• <b>EXISTING REQUIREMENT:</b> The Description of Work to be Performed states: "a. locate all vapor and groundwater monitoring wells at the site (using a metal detector as needed)"; "b. obtain global positioning system (GPS) coordinates for each well" and "d. open each well cover to collect depth-to-water and total depth measurements of each well." Five definable features of work with associated activity hazard analyses (AHAs) are related to these activities: AHA #2 (Locate vapor and groundwater monitoring wells with metal detector); AHA #3 (Obtain global positioning system [GPS] Coordinates for Vapor and Groundwater Monitoring Wells); AHA #4 (Opening, inspecting, collected depth-to-water measurements, and closing vapor and groundwater monitoring wells); AHA #5 (Equipment decontamination); and AHA #6 (Investigation-derived waste [IDW] removal and disposal).</li> <li>• <b>PROPOSED CHANGE:</b> Remove text in Section 2.0 that refers to obtaining GPS coordinates for the wells, opening and collecting depth-to-water and total depth measurements at the wells, equipment decontamination, and IDW removal and disposal. Groundwater monitoring wells at Sites 302, 303, 304, and Tank 50 will be located and photographed but not opened during the 2024 land use control (LUC) inspections.</li> </ul> <b>Item 2:</b> <ul style="list-style-type: none"> <li>• <b>EXISTING REQUIREMENT:</b> Table 2 provides the name, title, and contact information for primary personnel involved with this project.</li> <li>• <b>PROPOSED CHANGE:</b> In Table 2, add Aric Frohman as the Navy Task Order Contracting Officer's Representative (TO COR) and Remedial Project Manager (RPM); add Michael Hardiman as the Naval Base Kitsap (NBK) Manchester Environmental Director; add Jeff Menken as the Task Order Manager; add Matt Brookshire as the Quality Control Manager; add Stacy Gutierrez as Health, Safety, and Environment Corporate Representative; add Shara Fetters as the Site Safety and Health Officer (SSHO); and add Chelsea Foster as the Field Operations Lead (FOL). Remove Carlotta Cellucci as the RPM, COR, and Navy Technical Representative (NTR); remove Charles Escola as NTR; remove Dennis Faulk as the United States Environmental Protection Agency (USEPA) Region 10 Remedial Project Manager; remove Angela Paolucci as Project Manager; remove Ryan Moon as Health, Safety, and Environment Corporate Representative; remove Derek Payne as the FOL; remove Samuel Moore as the SSHO; remove Max Zelenevich as the Alternate SSHO.</li> </ul> <b>Item 3:</b> <ul style="list-style-type: none"> <li>• <b>EXISTING REQUIREMENT:</b> Figure 2 provides the lines of authority for project safety.</li> <li>• <b>PROPOSED CHANGE:</b> Update Figure 2 to reflect Jeff Menken as Task Order Manager; Stacy Gutierrez as Health, Safety, and Environment Corporate Representative; Shara Fetters as the SSHO; and Chelsea Foster as the FOL.</li> </ul>		

**Item 4:**

- **EXISTING REQUIREMENT:** Table 3 provides a list of emergency phone numbers and phone numbers for primary project personnel.
- **PROPOSED CHANGE:** Table 3, add names and phone numbers for Michael Hardiman, Jeff Menken, Matt Brookshire, Stacy Gutierrez, Shara Fetters, and Chelsea Foster. Remove contact information for Angela Paolucci, Ryan Moon, Derek Payne, Sam Moore, Max Zelenevich, Carlotta Cellucci, and Charles Escola.

MINOR CHANGE  
 MAJOR CHANGE

**3. REASON FOR CHANGE (ATTACH SHEET IF NECESSARY):**

**Item 1:** GPS coordinates will not be collected, and wells will not be opened to collect depth-to-water and total depth measurements during the 2024 LUC inspection activities. Because depth-to-water and total depth measurements will not be collected, equipment (oil–water interface probe) decontamination and IDW removal and disposal will not be required. Groundwater monitoring wells at Sites 302, 303, 304, and Tank 50 will only be located and photographed but not opened during the 2024 LUC inspections.

**Item 2:** Navy, stakeholder, and contractor personnel changes are required to represent the team working under the current contract task order. Sites 302, 303, 304 and Tank 50 are regulated under the Model Toxics Control Act (MTCA) with oversight from Ecology; therefore, the USEPA is not a project stakeholder.

**Items 2 and 4:** Navy and contractor personnel changes are required to represent the team working under the current contract task order. Aric Frohman is not listed in Tables 2 or 3 but will be serving as the Navy RPM and TO COR for this project. Michael Hardiman is not listed in Tables 2 or 3 but is the Environmental Director at NBK Manchester and will be involved with this project. Carlotta Cellucci, Angela Paolucci, Ryan Moon, Derek Payne, Samuel Moore, and Max Zelenevich will not be involved with this project. Shawn Blocker is now the representative for the Tribe. Jeff Menken will be serving as the Task Order Manager, Shara Fetters will be serving as the SSHO, and Chelsea Foster will be the FOL for this project.

**Item 3:** Navy and contractor personnel changes are required to represent the team working under the current contract task order. Jeff Menken will be serving as the Task Order Manager; Matt Brookshire will be serving as the Project Quality Control Manager; and Stacy Gutierrez will be serving as the Health, Safety, and Environment Corporate Representative. Shara Fetters and Chelsea Foster will be the Senior Scientists conducting the 2024 LUC inspections at the NBK Manchester.

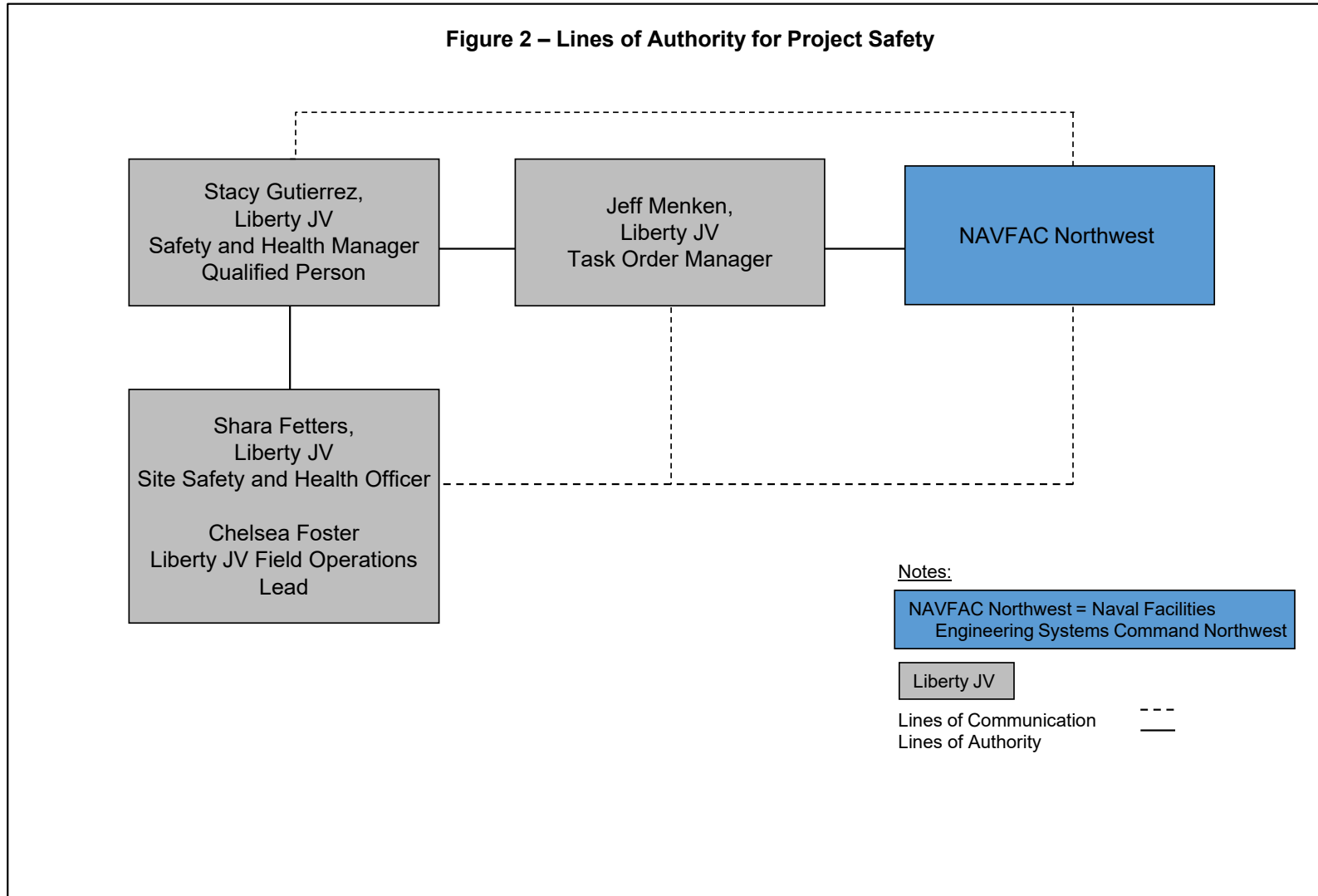
<b>4. ORIGINATOR (PRINT NAME AND SIGN)</b> Shara Fetters <i>Shara Fetters</i>		<b>TITLE</b> Liberty JV, Site Safety and Health Officer	<b>DATE</b> 5/21/24
<b>REVIEWED BY (PRINT NAME AND SIGN)</b> Chelsea Foster <i>Chelsea L Foster</i>		<b>TITLE</b> Liberty JV, Field Operations Lead	<b>DATE</b> 5/21/24
<b>SITE SUPERINTENDENT (PRINT NAME AND SIGN)</b> Chelsea Foster <i>Chelsea L Foster</i>	<b>DATE</b> 5/21/24	<b>TASK ORDER MANAGER (PRINT NAME AND SIGN)</b> Jeff Menken <i>Jeff Menken</i>	<b>DATE</b> 5/21/24
<b>PROGRAM QC MANAGER (PRINT NAME AND SIGN)</b> Matt Brookshire <i>Matt Brook</i>	<b>DATE</b> 5/21/24	<b>RPM ACKNOWLEDGEMENT (PRINT NAME AND SIGN)</b> Aric Frohman	<b>DATE</b>

**Table 2 – Project Contact List**

Name and Title	Organization	Contact Information
<b>Aric Frohman</b> RPM, TO COR	NAVFAC Northwest	(360) 396-0206 (office) (360) 440-5791 (mobile) aric.c.frohman.civ@us.navy.mil
<b>Michael Hardiman</b> Environmental Director	NBK Manchester	(360) 476-5737 (office) michael.o.hardiman.civ@us.navy.mil
<b>Steven Campbell</b> Project Manager/Engineer		(360) 476-5133 (office) steven.b.campbell6.civ@us.navy.mil
<b>Robert Riley</b> Environmental Specialist		(360) 476-2664 (office) robert.l.riley1.civ@us.navy.mil
<b>Kristen Reed</b> Ecology Site Manager	Ecology	(360) 742-2595 kristen.reed@ecy.wa.gov
<b>Shawn Blocker</b> Suquamish Tribe Representative	Suquamish Tribe	(360) 265-4405 (office) SBBlocker@suquamish.nsn.us
<b>Jeff Menken</b> Task Order Manager	Liberty JV	(971) 440-0408 (mobile) jeffrey.menken@wsp.com
<b>Matt Brookshire</b> Quality Control Manager		(858) 740-6268 (mobile) matthew.brookshire@wsp.com
<b>Stacy Gutierrez</b> Health, Safety, and Environment Corporate Representative / SHM		(928) 344-8374 (Office) stacyg@neiaw.com
<b>Shara Fetters</b> SSHO		(253) 880-4662 (mobile) <a href="mailto:sfetters@neiaw.com">sfetters@neiaw.com</a>
<b>Chelsea Foster</b> FOL		(360) 820-3400 (mobile) chelsea.foster@wsp.com

Notes:  
 COR = Contracting Officer's Representative; Ecology = Washington State Department of Ecology;  
 FOL = Field Operations Lead; NAVFAC = Naval Facilities Engineering Systems Command; NBK = Naval Base Kitsap;  
 RPM = Remedial Project Manager; SHM = Safety and Health Manager;  
 SSHO = Site Safety and Health Officer; TO = Task Order

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**Table 3 – Emergency Notification/Contact List**

<b>Emergency Services</b>	
FOR ALL EMERGENCIES	911
South Kitsap Fire and Rescue – Station 9	(360) 871-2411
Agency for Toxic Substances and Disease Registry Poison Control Center	(888) 422-8737
National Response Center, Toxic Chemicals and Oil Spills	(800) 424-8802
<b>Medical Centers</b>	
St. Anthony Hospital Emergency Services	(253) 530-2000
<b>Regulatory Agencies</b>	
Washington State Department of Labor and Industries	(800) 423-7233
<b>Navy Points of Contact</b>	
Aric Frohman, TO COR	Mobile: (360) 440-5791
Michael Hardiman, Environmental Director	Office: (360) 476-5737
Steven Campbell, Project Manager/Engineer	Office: (360) 476-5133
Robert Riley, Environmental Specialist	Office: (360) 476-2664
<b>Liberty JV Personnel</b>	
Jeff Menken, Task Order Manager	Mobile: (971) 440-0408
Shara Fetters, SSHO	Mobile: (253) 880-4662
Chelsea Foster FOL	Mobile: (360) 820-3400
Stacy Gutierrez, Health, Safety, and Environment Corporate Representative / SHM	Office: (928) 344-8374

Notes:

COR = Contracting Officer's Representative; FOL = Field Operations Lead; SHM = Safety and Health Manager;  
 SSHO = Site Safety and Health Officer; TO = Task Order

		<b>Naval Base Kitsap Manchester, Kitsap County, WA</b> <b>Naval Facilities Engineering Systems Command</b> <b>Northwest</b>
<b>FIELD CHANGE REQUEST (FCR) FORM</b>		
<b>CONTRACT NO.:</b> N4425520D5006	<b>TASK ORDER NO.:</b> N4425524F4052	<b>FCR NO.:</b> 02
<b>NTR/RPM/COR:</b> Aric Frohman	<b>LOCATION:</b> NBK Manchester, Kitsap County, WA	<b>DATE:</b> May 21, 2024
<p><b>1. DOCUMENT TO BE CHANGED (IDENTIFY REVISION, DATE, SECTION, DRAWING, ETC.):</b>                  Final Abbreviated Accident Prevention Plan (APP) for Various Site Reconnaissance Activities, Naval Base Kitsap Manchester, Manchester, Washington – Attachments</p> <p><b>Items to be updated:</b></p> <p>1) Attachment 1</p> <ul style="list-style-type: none"> <li>A) Section 1.3: Key Personnel;</li> <li>B) Section 2.0: Project Tasks;</li> <li>C) Section 4.0: Site Control; and</li> <li>D) Table 1: Activity Hazard Analysis</li> </ul> <p>2) Attachment 2</p> <ul style="list-style-type: none"> <li>A) Competency Verification Documentation</li> </ul> <p>3) Attachment 3</p> <ul style="list-style-type: none"> <li>A) APP Acknowledgement &amp; Safety Compliance Agreement Form</li> <li>B) Safety Inspection Checklist</li> </ul>		
<p><b>2. DESCRIPTION OF EXISTING REQUIREMENT AND PROPOSED CHANGE (ATTACH SHEET IF NECESSARY):</b></p> <p><b>Item 1A:</b></p> <ul style="list-style-type: none"> <li>• <b>EXISTING REQUIREMENT:</b> Section 1.3 lists key Battelle personnel for this project.</li> <li>• <b>PROPOSED CHANGE:</b> Replace all Battelle key personnel with Liberty JV key personnel. Liberty JV key personnel are Jeff Menken, Task Order Manager; Shara Fetters, Site Safety and Health Officer (SSHO); Chelsea Foster, Field Operations Lead (FOL); and Stacy Gutierrez, Health, Safety, and Environment Corporate Representative.</li> </ul> <p><b>Item 1B:</b></p> <ul style="list-style-type: none"> <li>• <b>EXISTING REQUIREMENT:</b> Section 2.0 lists the major project tasks and their associated activity hazard analyses (AHA). The project tasks listed as work to be performed during the land use control (LUC) inspections include: site inspection; locate vapor and groundwater monitoring wells with metal detector; obtain global positioning system (GPS) coordinates of vapor and groundwater monitoring wells; open, inspect, collect depth-to-water measurements within, and close vapor and groundwater monitoring wells; equipment decontamination; and investigation-derived waste (IDW) removal and disposal.</li> <li>• <b>PROPOSED CHANGE:</b> Remove text in Section 2.0 that refers to obtaining GPS coordinates of monitoring wells, opening wells, collecting depth-to-water and total depth measurements, decontaminating equipment, and managing IDW. Groundwater monitoring wells at Sites 302, 303, 304, and Tank 50 will be located and photographed but not opened during the 2024 LUC inspections.</li> </ul> <p><b>Item 1C:</b></p> <ul style="list-style-type: none"> <li>• <b>EXISTING REQUIREMENT:</b> Sections 4.2 and 4.3 describe procedures for decontamination and disposal of decontamination waste, respectively.</li> <li>• <b>PROPOSED CHANGE:</b> Remove text in Sections 4.2 and 4.3.</li> </ul>		

**Item 1D:**

- EXISTING REQUIREMENT:** AHA #1 (Site Inspection); AHA #2 (Locate Vapor and Groundwater Monitoring Wells with Metal Detector); AHA #3 (Obtaining GPS Coordinates for Vapor and Groundwater Monitoring Wells); AHA #4 (Opening, Inspecting, Collected Depth-to-Water Measurements, and Closing Vapor and Groundwater Monitoring Wells); AHA #5 (Equipment Decontamination); and AHA #6 (IDW Removal and Disposal). AHAs #1 through #6 list competent/qualified personnel for the equipment to be used.
- PROPOSED CHANGE:** Remove AHAs #3 through #6. In AHAs #1 and #2, remove Derek Payne, Sam Moore, and Max Zelenevich and replace with Shara Fetters and Chelsea Foster as competent/qualified personnel.

**Item 2:**

- EXISTING REQUIREMENT:** Attachment 2 lists competency verification documentation for key Battelle personnel for this project.
- PROPOSED CHANGE:** Information in Attachment 2 does not apply. Competency information for Liberty JV personnel will be made available upon request.

**Item 3 A and B:**

- EXISTING REQUIREMENT:** The APP Acknowledgement & Safety Compliance Agreement Form and Safety Inspection Checklist list key Battelle personnel for this project, as well as previous contract and task order numbers.
- PROPOSED CHANGE:** Remove Derek Payne and Samuel Moore as SSHO and replace with Shara Fetters; remove Max Zelenevich as Alternative SSHO and update both contract and task order numbers.

MINOR CHANGE  
 MAJOR CHANGE

**3. REASON FOR CHANGE (ATTACH SHEET IF NECESSARY):**

**Items 1B – 1D:** GPS coordinates will not be collected, and wells will not be opened to collect depth-to-water and total depth measurements during the 2024 LUC inspection activities. Because depth-to-water and total depth measurements will not be collected, equipment decontamination and IDW management will not be required. Groundwater monitoring wells at Sites 302, 303, 304, and Tank 50 will be located and photographed, but will not be opened during the 2024 LUC inspections.

**Items 1A, 2 and 3:** Navy and contractor personnel changes are required to represent the team working under the current contract task order. Angela Paolucci, Ryan Moon, Derek Payne, Samuel Moore, and Max Zelenevich will not be involved with this project. Jeff Menken will serve as the Task Order Manager; Matt Brookshire will serve as the Quality Control Manager; Stacy Gutierrez will serve as the Health, Safety, and Environment Corporate Representative; Shara Fetters will serve as the SSHO; and Chelsea Foster will serve as the FOL. Shara Fetters and Chelsea Foster will be the field personnel conducting the 2024 LUC inspections at the Naval Base Kitsap (NBK) Manchester.

<b>4. ORIGINATOR (PRINT NAME AND SIGN)</b> Shara Fetters <i>Shara Fetters</i>		<b>TITLE</b> Liberty JV, Site Safety and Health Officer		<b>DATE</b> 5/21/24	
<b>REVIEWED BY (PRINT NAME AND SIGN)</b> Chelsea Foster <i>Chelsea Foster</i>		<b>TITLE</b> Liberty JV, Field Operations Lead		<b>DATE</b> 5/21/24	
<b>SITE SUPERINTENDENT (PRINT NAME AND SIGN)</b> Chelsea Foster <i>Chelsea Foster</i>		<b>DATE</b> 5/21/24	<b>TASK ORDER MANAGER (PRINT NAME AND SIGN)</b> Jeff Menken <i>Jeff Menken</i>		<b>DATE</b> 5/21/24
<b>PROGRAM QC MANAGER (PRINT NAME AND SIGN)</b> Matt Brookshire <i>Matt Brookshire</i>		<b>DATE</b> 5/21/24	<b>RPM ACKNOWLEDGEMENT (PRINT NAME AND SIGN)</b> Aric Frohman		<b>DATE</b>



SAFETY INSPECTION CHECKLIST

**Site: NBK Manchester, Kitsap County, Washington**  
**Contract No.: N4425520D5006**  
**Task Order No.: N4425524F4052**  
**SSHO: Shara Fetters**

HEALTH & SAFETY REQUIREMENTS	YES	NO	NA
Is a hardcopy of the APP/SSHP available on site?			
Have all on-site personnel reviewed and signed-off on the APP/SSHP?			
Has the daily tailgate safety meeting been conducted?			
Are all on-site personnel wearing the appropriate PPE:			
Traffic Vest			
Steel-Toed Boots			
Protective Eye Wear			
Hard Hat, if overhead hazards			
Ear Protection, if near air field			
Gloves, for special purposes			
Are all necessary tools on site and in good condition:			
Flathead Screwdriver			
Socket Wrench			
Other Health & Safety Requirements Available On Site:			
First-Aid Kit			
Hydrating Fluids (e.g., water, Gatorade)			
Sunscreen			

If any of the requirements noted above are missing/incomplete, please document corrective actions taken:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_


\_\_\_\_\_

\_\_\_\_\_

Inspection Conducted by: \_\_\_\_\_

Signed by: \_\_\_\_\_

Date: \_\_\_\_\_

 <b>Naval Base Kitsap Manchester, Kitsap County, WA</b> <b>Naval Facilities Engineering Systems Command</b> <b>Northwest</b>		
FIELD CHANGE REQUEST (FCR) FORM		
<b>CONTRACT NO.:</b> N4425520D5006	<b>TASK ORDER NO.:</b> N4425524F4052	<b>FCR NO.:</b> 03
<b>NTR/RPM/COR:</b> Aric Frohman	<b>LOCATION:</b> NBK Manchester, Kitsap County, WA	<b>DATE:</b> May 21, 2024
<b>1. DOCUMENT TO BE CHANGED (IDENTIFY REVISION, DATE, SECTION, DRAWING, ETC.):</b> Final Land Use Control Plan for Sites 302, 303, 304 and Tank 50, Naval Base Kitsap Manchester, Manchester, Washington (dated December 9, 2016). <b>Items to be updated:</b> <ol style="list-style-type: none"> <li>1) Section 1.3: Roles and Responsibilities</li> <li>2) Table 1-1: Contact Information and Roles and Responsibilities for NBK Manchester</li> <li>3) Section 3.3: LUC Inspections</li> <li>4) Section 3.5: LUC Modification and Termination</li> <li>5) Appendix B: Monitoring Well Visual Inspection Checklist</li> </ol>		
<b>2. DESCRIPTION OF EXISTING REQUIREMENT AND PROPOSED CHANGE (ATTACH SHEET IF NECESSARY):</b> <b>Item 1:</b> <ul style="list-style-type: none"> <li>• <b>EXISTING REQUIREMENT:</b> Section 1.3 describes roles and responsibilities of all project stakeholders.</li> <li>• <b>PROPOSED CHANGE:</b> Remove the United States Environmental Protection Agency (USEPA) as a project stakeholder and update text to state: "NAVFAC Northwest will communicate the land use control (LUC) status by providing a LUC inspection Technical Memorandum, with completed LUC checklists for each site, on an annual basis to the project stakeholders, specifically Ecology and the Suquamish Tribe."</li> </ul> <b>Item 2:</b> <ul style="list-style-type: none"> <li>• <b>EXISTING REQUIREMENT:</b> Table 1-1 provides the contact information and roles and responsibilities of all project stakeholders.</li> <li>• <b>PROPOSED CHANGE:</b> Remove Carlotta Cellucci as the Naval Facilities Engineering Systems Command (NAVFAC) Northwest, Remedial Project Manager (RPM); remove Charles Escola, Navy Technical Representatives (NTRs); remove Dennis Faulk USEPA RPM, Region 10; remove Mahbub Alam, Washington State Department of Ecology [Ecology] Cleanup Project Manager; add Aric Frohman as the RPM and Task Order (TO) Contracting Officer's Representative (COR); add Michael Hardiman as the Naval Base Kitsap (NBK) Manchester Environmental Director; add Kristen Reed as Ecology Cleanup Project Manager; update roles/responsibilities of Kristen Reed (Ecology Cleanup Project Manager) to include "To review and provide comment on the LUC Inspection Technical Memorandum on an annual basis;" and update roles/responsibilities of Shawn Blocker (Suquamish Tribe) to include "To review and provide comment on the LUC Inspection Technical Memorandum on an annual basis."</li> </ul> <b>Item 3:</b> <ul style="list-style-type: none"> <li>• <b>EXISTING REQUIREMENT:</b> Section 3.3 describes the LUC inspection procedures.</li> <li>• <b>PROPOSED CHANGE:</b> Update text to state: "The results of the LUC inspections (i.e., as documented in the LUC Inspection Technical Memorandum, with completed LUC checklists for each site) will be submitted to project stakeholders, specifically Ecology and the Suquamish Tribe, to communicate the status of the LUCs on an annual basis."</li> </ul>		

**Item 4:**

- **EXISTING REQUIREMENT:** Section 3.5 describes the process for modification or termination of LUCs.
- **PROPOSED CHANGE:** Update text to state: "The LUC Inspection Technical Memorandum, including completed LUC checklists for each site, will be the basis for evaluating the effectiveness of the LUCs as part of this five-year review process."

**Item 5:**

- **EXISTING REQUIREMENT:** Appendix B provides a monitoring well visual inspection checklist.
- **PROPOSED CHANGE:** Updated the checklist to include a provision to indicate if the monitoring well monument cap was opened during the inspection.

MINOR CHANGE  
 MAJOR CHANGE

**3. REASON FOR CHANGE (ATTACH SHEET IF NECESSARY):**

**Items 1, 2, and 3:** Navy and contractor personnel changes are required to represent the team working under the current contract task order. Sites 302, 303, 304 and Tank 50 are regulated under the Model Toxics Control Act (MTCA) with oversight from Ecology; therefore, the USEPA is not a project stakeholder.

**Item 2:** Through the fourth five-year review process, Ecology requested to review and provide comment on the annual LUC Inspection Technical Memorandum.

**Items 1, 2, 3, and 4:** A LUC Inspection Technical Memorandum, including completed LUC checklists, completed monitoring well inspection checklists, field notes, and photographic log will be prepared and submitted to all project stakeholders on an annual basis (i.e., not solely completed checklists).

**Item 5:** Monitoring wells will not be opened as part of the 2024 LUC Inspections. The monitoring well visual inspection checklist was updated to include a provision to indicate whether the monitoring well monument cap was opened during the inspection.

<b>4. ORIGINATOR (PRINT NAME AND SIGN)</b> Shara Fetters <i>Shara Fetters</i>		<b>TITLE</b> Liberty JV, Site Safety and Health Officer	<b>DATE</b> 5/21/24
<b>REVIEWED BY (PRINT NAME AND SIGN)</b> Chelsea Foster <i>Chelsea L Foster</i>		<b>TITLE</b> Liberty JV, Field Operations Lead	<b>DATE</b> 5/21/24
<b>SITE SUPERINTENDENT (PRINT NAME AND SIGN)</b> Chelsea Foster <i>Chelsea L Foster</i>	<b>DATE</b> 5/21/24	<b>TASK ORDER MANAGER (PRINT NAME AND SIGN)</b> Jeff Menken <i>Jeff Menken</i>	<b>DATE</b> 5/21/24
<b>PROGRAM QC MANAGER (PRINT NAME AND SIGN)</b> Matt Brookshire <i>Matt Brookshire</i>	<b>DATE</b> 5/21/24	<b>RPM ACKNOWLEDGEMENT (PRINT NAME AND SIGN)</b> Aric Frohman	<b>DATE</b>

**Table 1-1 – Contact Information Roles and Responsibilities for  
 NBK Manchester**

Name and Title	Organization	Contact Information	Roles/Responsibilities
<b>Aric Frohman</b> RPM, TO COR	NAVFAC Northwest	(360) 396-0206 (office) (360) 440-5791 (mobile) aric.c.frohman.civ@us.navy.mil	<ul style="list-style-type: none"> <li>To ensure the effectiveness of the LUCs by performing annual LUC inspections.</li> <li>To coordinate with NBK Manchester regarding any LUC maintenance or corrective actions, as required.</li> </ul>
<b>Michael Hardiman</b> Environmental Director	NBK Manchester	(360) 476-5737 michael.o.hardiman.civ@us.navy.mil	<ul style="list-style-type: none"> <li>To coordinate with NAVFAC Northwest regarding LUC maintenance or corrective actions, as required.</li> <li>To educate site personnel and contractors on the LUC requirements.</li> </ul>
<b>Steven Campbell</b> Project Manager/ Engineer		(360) 476-5133 Steven.b.campbell6.civ@us.navy.mil	
<b>Robert Riley</b> Environmental Specialist		(360) 476-2664 <a href="mailto:robert.l.riley1.civ@us.navy.mil">robert.l.riley1.civ@us.navy.mil</a>	
<b>Kristen Reed</b> Ecology Site Manager	Ecology	(360) 742-2595 kristen.reed@ecy.wa.gov	<ul style="list-style-type: none"> <li>To provide regulatory review of the LUC requirements detailed in the NFA letters at each five-year review.</li> <li>To provide review of this Plan.</li> <li>To review and provide comment on the LUC Inspection Technical Memorandum on an annual basis.</li> </ul>
<b>Shawn Blocker</b> Suquamish Tribe Representative	Suquamish Tribe	(360) 265-4405 SBlocker@suquamish.nsn.us	<ul style="list-style-type: none"> <li>To provide review of this Plan.</li> <li>To review and provide comment on the LUC Inspection Technical Memorandum on an annual basis.</li> </ul>

Notes:

COR = Contracting Officer's Representative; Ecology = Washington State Department of Ecology; LUC = land use control; NAVFAC = Naval Facilities Engineering Systems Command; NBK = Naval Base Kitsap; NFA = no further action; NTR = Navy Technical Representative; RPM = Remedial Project Manager; TO = Task Order



**Appendix F:  
Response to Stakeholder Comments**

#	Site	Comment (3/19/2025)	Navy Comment Response 4/16/2025
1.	304	MW-4 is still covered; 2024, 2023, 2022 – covered, 2021 – partially covered, 2020 – last opened and fully inspected. The palate located over the well appears to be easily movable and the Navy should try to move the hindrance before the next inspection cycle. LUC requirements include MW inspections. Attempts to observe this well in the past have been neglected. According to WAC 173-160-420, these wells need to be inspected annually to verify the cap seals and that no infiltration is present. Ecology expects to see this MW inspected in the next cycle.	<b>Comment noted. Navy will ensure subsequent LUC inspections include visual inspection of all wells to verify seals are functioning as intended.</b>
2.	Tank 50	MW-1 has not been opened since 2019: 2024, 2023, 2022, 2021 – not opened, 2020 – unknown. Ecology expects to see this opened in the next inspection cycle. Integrity of the well needs to be verified annually per WAC 173-160-420.	<b>Please see response above.</b>