

INSPECTION OF THE CELLULAR COFFERDAMS AT THE SOUTHWEST BROOKLYN MARINE TRANSFER STATION



January 2020

New York City Department of Sanitation

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Report

Inspection of the Cellular Cofferdams at the Southwest Brooklyn Marine Transfer Station

Task: In compliance with the New York State Department of Environmental Conservation (DEC) – Part 360 Permit – NYSDEC Permit # 2-6106-00002/00022 Ren 3 Mod 0, dated July 31, 2017, for the New York City Department of Sanitation (DSNY) Southwest Brooklyn Marine Transfer Station (SWBMTS), inspect the level of sand in the cellular cofferdam through ports located on the pier area of the facility. The SWBMTS is located at 400 Bay 41st Street, Brooklyn, NY between 25th Avenue and Bay 41st Street (Figure 1). The purpose of this inspection was to satisfy the requirements of the attached DEC permit, item 15 (b) which states:

- b) The Permittee shall check the level of sand fill material in the cellular coffer dams, to ensure that it is at least four feet above mean high water, at five (5) year intervals. If the level of fill is not at least four feet above mean high water, additional sand fill material must be imported to the site, in order to achieve the minimum required level.

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Description of Inspection: On Friday, January 24, 2020, two engineers from DSNY visited the facility to visually inspect the current conditions of the cellular coffer dams. The engineers used the results of the Cofferdam Inspection Report performed by Greeley and Hansen on March 2015 as the initial reference point to check against the current levels of sand fill material in the cellular coffer dams. Had the sand fill level not been at least four (4) feet above mean high water level, remedial steps would have to be taken by the agency to refill to that level, elevation 4.42'. The 2015 Greeley and Hansen report concluded that *“the cofferdams appear to be in good condition with no apparent loss of fill.”*

Observed Conditions: After identifying the inspection ports that are located on the pier deck at elevation 11.50' (Figures 2 & 3), each cover was removed and visually inspected. Following that, a tape measure was lowered into each port hole until it hit the sand fill material and the results were recorded. See photos 1 thru 4. The calculated heights of the fill in all the ports ranged from elevations 8.92' to 9.50'. That is 8.50' to 9.08' above mean high water level.

Conclusions and Recommendations: The cellular cofferdams appear to be in good condition with no apparent loss of sand fill since March 2015. Therefore, no remedial action is required or recommended at this time. Per item 15 (b) of the DEC Permit, the next scheduled inspection should be performed in the first quarter of 2025.

Southwest Brooklyn Marine Transfer Station Cofferdam Inspection Report

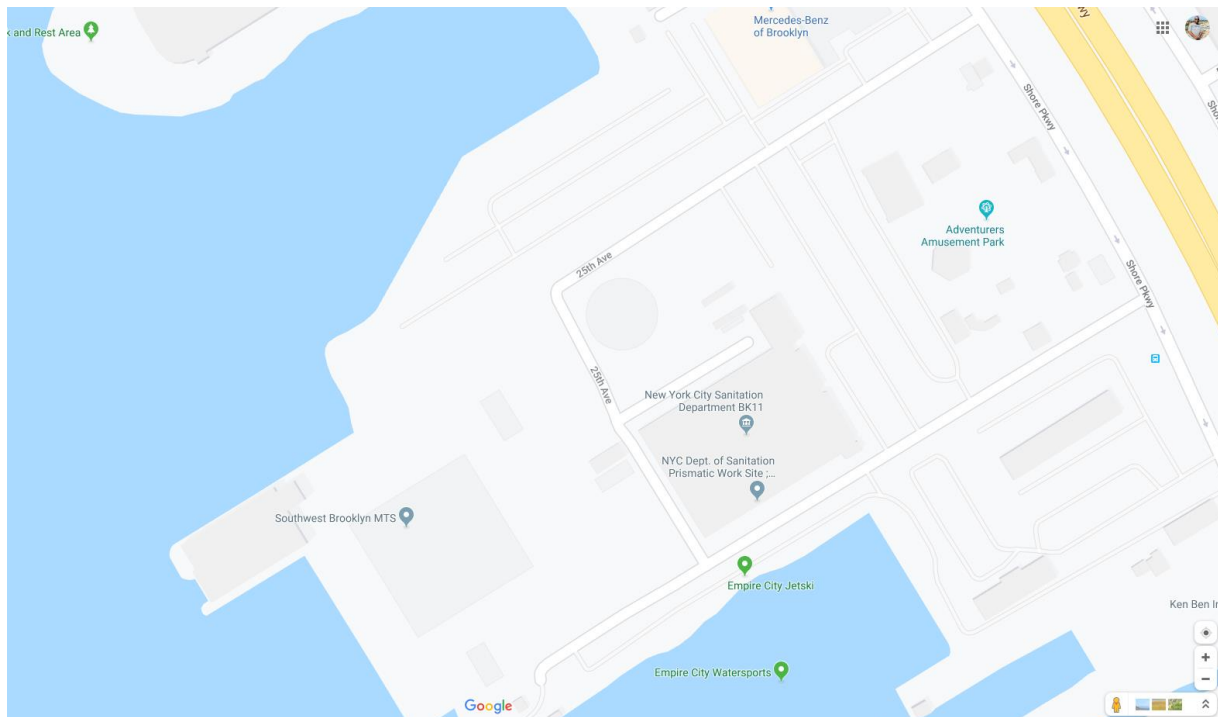


Figure 1 – Vicinity Map

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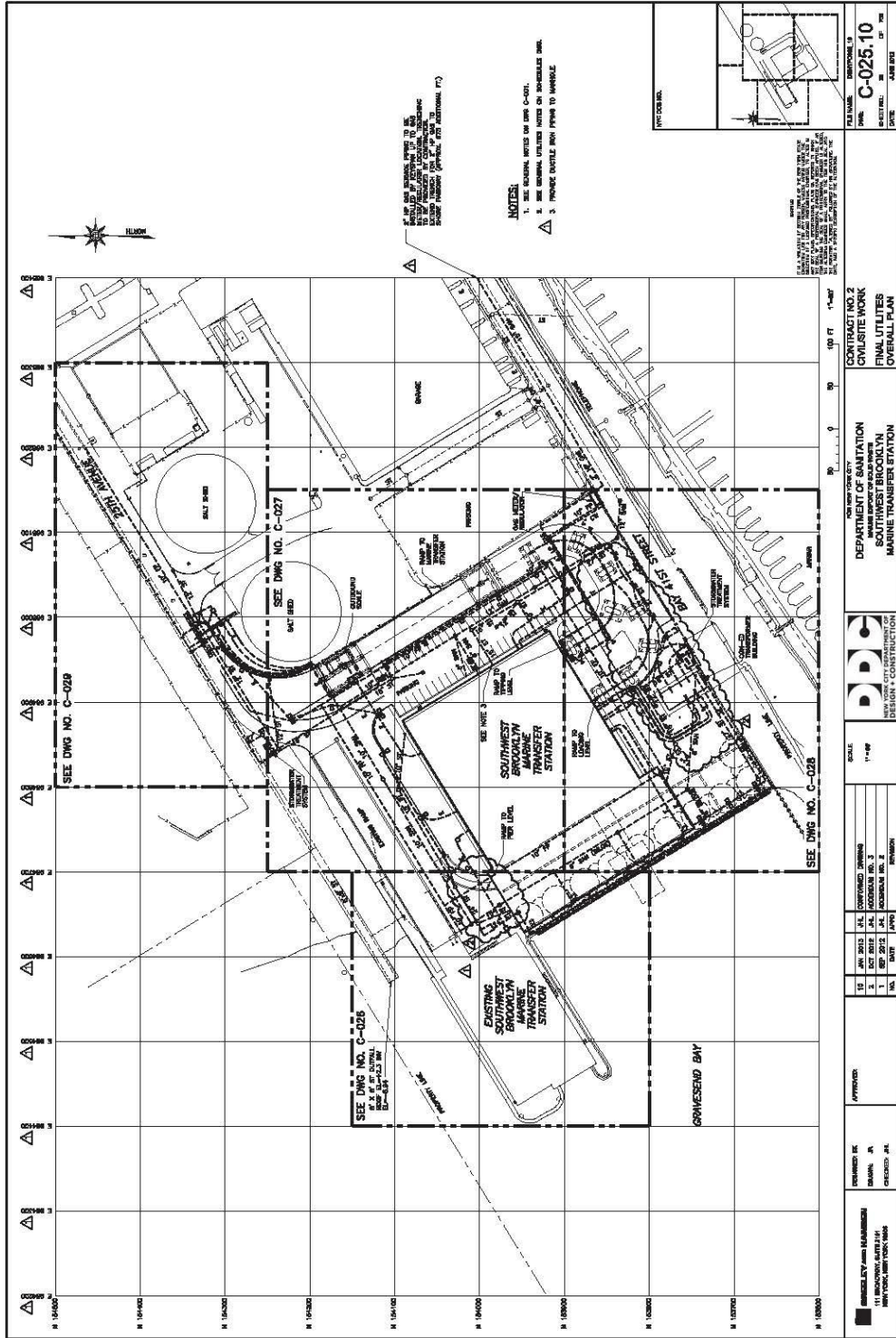


Figure 2

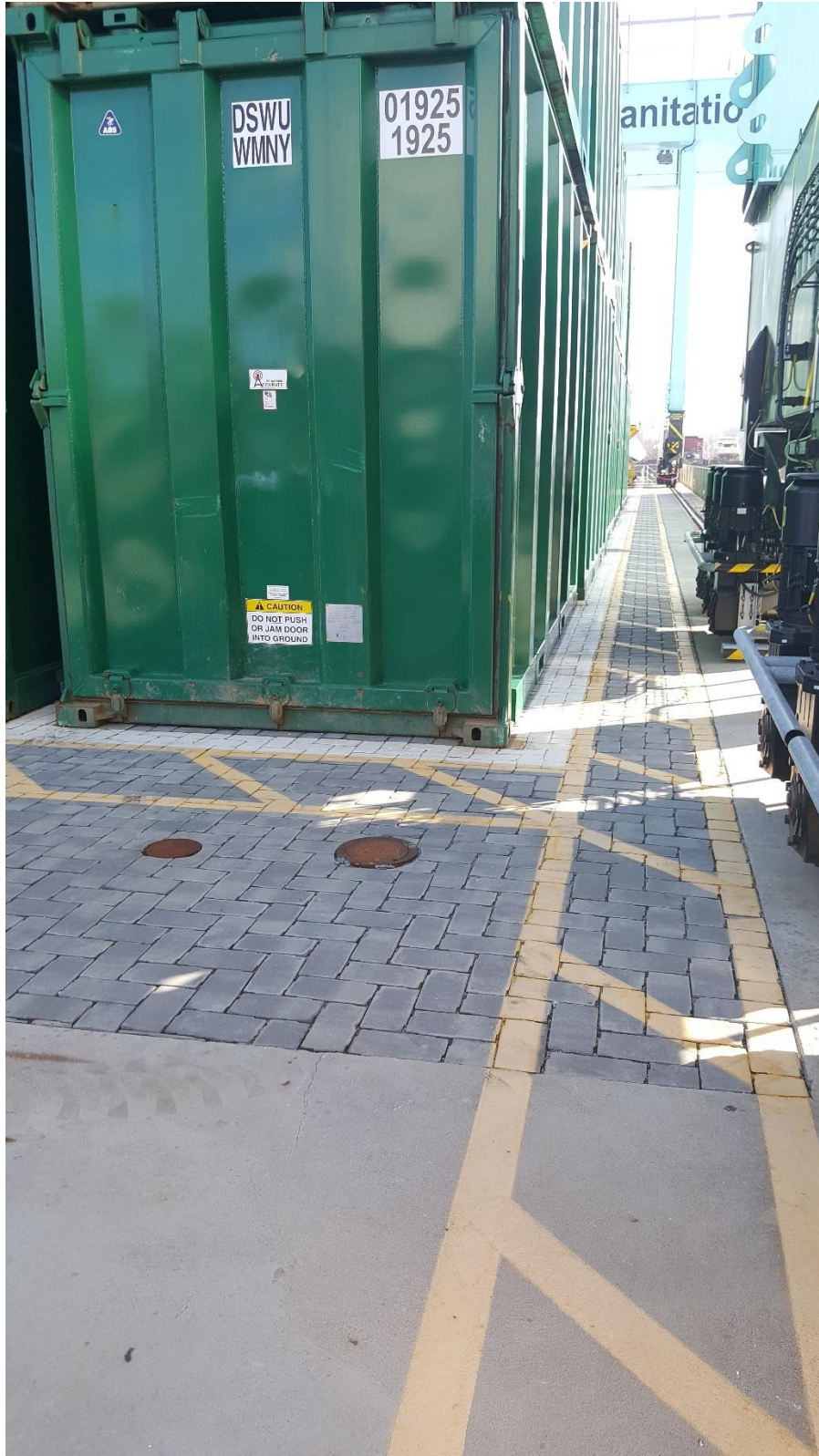


Photo 1 – Inspection Port on the Pier Deck

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Photo 2 – Measurement Tape Lowered into Inspection Port

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Photo 3 – Inspection Port with Cover Removed



Photo 4 – Inspection Port on Pier Deck