PERIODIC REVIEW REPORT

for

37-11 30th Street
Long Island City, New York
BCP Site No. C241211

Prepared For:

37-11 30th Street Holdings LLC
c/o Slate Property Group
38 East 29th Street
New York, New York

Prepared By:

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May 23, 2022
Langan Project No. 170512301

LANGAN

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

1.0 INTRODUCTION

1.1 General

This Periodic Review Report (PRR) was prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) for 37-11 30th Street in Long Island City, New York (the "site"). Langan prepared this PRR on behalf of the Volunteer, 37-11 30th Street Holdings LLC, in accordance with the Site Management Plan (SMP) submitted to the New York State Department of Environmental Conservation (NYSDEC) on December 30, 2020. The SMP addresses remaining contamination at the site until the Environmental Easement (EE) is extinguished in accordance with ECL Article 71, Title 36. An Engineering and Institutional Controls Certification Form is provided as Appendix A

This PRR covers the reporting period from January 2021 through April 2022. The Volunteer has conducted quarterly groundwater sampling events within the reporting period in compliance with the SMP. Langan and the Volunteer certify that the ICs were maintained and monitored in accordance with the SMP during the reporting period. Based on improved groundwater conditions at the site, on April 11, 2022 the NYSDEC allowed the discontinuance of quarterly groundwater monitoring.

1.2 Site Location and Description

The site is located at 37-11 30th Street in Long Island City, Queens, New York and is identified as Block 372, Lot 107 (formerly identified as Block 372, Lot 21 and part of Lot 8) on the Queens County Tax Map. The site encompasses an area of about 26,978- square feet (0.616-acres) and is bound by 37th Avenue to the north, 38th Avenue to the south, 31st Street to the east, and 30th Street to the west. The elevated N and Q subway tracks run north-south above 31st Street, which are about 100 feet east of the site. A Site Location Map is included as Figure 1.

1.3 Site Background

The site was developed as early as 1915 for industrial and manufacturing uses. Historical site use included an auto garage (1915) and the Marblette Corp. Mfg., a plastics manufacturing operation (1930-1980). Following 1980, the site was occupied by a warehousing and distribution center for lighting and staging equipment. Prior to implementation of the Remedial Action Work Plan (RAWP), the site was improved with a one- and three-story warehouse building including multiple partial cellar levels in the southern part of former Lot 8 (37-11 30th Street), a stockyard/storage area in the northern part of former Lot 8, and a vacant lot on former Lot 21 (30-14 37th Avenue). The buildings were demolished in June 2019 to prepare the site for remediation.

A Brownfield Cleanup Agreement (BCA) was executed on July 9, 2018 and the site was remediated in accordance with the NYSDEC-approved RAWP and Decision Document (DD),

dated August 2019. Documentation of the Conditional Track 1 Cleanup, which included in-situ groundwater treatment to address residual dissolved hexavalent chromium, is included in the Final Engineering Report (FER) and the Certificate of Completion, dated January 8, 2021. A summary of the groundwater treatment of monitoring is provided in section 2.0.

2.0 MONITORING AND SAMPLING PLAN

2.1 Baseline Groundwater Monitoring

Prior to in-situ groundwater treatment that was applied to treat hexavalent-impacted groundwater in November 2019, and in accordance with the RAWP and In-situ Treatment Remedial Design Plan (RDP), Langan performed baseline groundwater sampling on November 11, 2019. Four performance monitoring wells (RMW01 through RMW04) were installed in the area of the impacted groundwater by Blue World Construction on November 11, 2019. Monitoring well construction logs for RMW01 and RMW04 are provided in Appendix B. Baseline groundwater samples were collected from each performance monitoring well and analyzed for dissolved hexavalent chromium, dissolved trivalent chromium, and total dissolved chromium.

Groundwater samples from three of four performance monitoring wells (RMW01, RMW02, and RMW04) contained concentrations of dissolved hexavalent chromium and total/dissolved chromium at concentrations above the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Groundwater (collectively known as the NYSDEC SGVs). Analytical results from the baseline groundwater monitoring event are presented in Table 1.

2.2 Groundwater Treatment Description

In-situ chemical reduction (ISCR) was chosen as the remedy to treat residual hexavalent chromium-impacted groundwater following the removal of hazardous chromium-impacted soil. The remedy involved a strong reductant capable of destroying inorganic contaminants consisting of a colloidal suspension of micron scale zero-valent iron (ZVI) in glycerol (S-MZVI®).

A combination of direct-push temporary injection points and/or 2-inch diameter polyvinyl chloride (PVC) injection wells (27 locations total) were installed to treat the 2,700-square-foot target area. About 2,000 pounds of S-MZVI® (the reductant) mixed with potable water was applied via direct-push drill rig or temporary injection wells to the targeted hexavalent chromium plume situated within the top 10 feet of the groundwater table (about 25 to 35 feet below grade surface [bgs]). Injection volumes and locations were determined based on the local hydraulic gradient and stratigraphy to minimize off-site migration of the targeted mass plume. About 8,215 gallons of the S-MZVI® reductant mixture were injected between November 12 and November 20, 2019. The target in-situ treatment area is shown on Figure 2.

2.3 Post-Remedy Quarterly Groundwater Monitoring

In accordance with the RAWP and RDP, post-injection groundwater monitoring was performed quarterly for one year (February 2020 to October 2020) following in-situ injections in each of the four post-remedy monitoring wells to evaluate the efficacy of the remedy. During each post-injection quarterly groundwater monitoring event, monitoring wells RMW01, RMW02, RMW03, and RMW04 were sampled for dissolved hexavalent chromium, dissolved trivalent chromium and total/dissolved chromium.

After the first three quarters of monitoring, the Remedial Action Objectives (RAO) for groundwater had been achieved; however, during the fourth quarterly sampling event in October 2020, concentrations of chromium had rebounded in two wells (RMW01 and RMW04) to concentrations similar to those identified during baseline sampling.

Since groundwater in RMW02 and RMW03 had achieved the RAOs for groundwater following a year of groundwater monitoring, further sampling of these wells was not required. Groundwater analytical results from the four post-injection quarterly monitoring events in 2020 are presented in Table 1.

2.4 Post-COC Groundwater Monitoring

An SMP submitted to the NYSDEC on December 30, 2020, included a continued groundwater monitoring plan to assess the effectiveness of the remedy. Per the monitoring plan, groundwater screening and sampling of RMW01 and RMW04 continued on a quarterly basis until NYSDEC determined that monitoring was no longer needed. The results of the four post-SMP monitoring events are described below.

2.4.1 Quarterly Groundwater Sampling (March 2021)

During the March 2021 monitoring event during which monitoring wells RMW01 and RMW04 were sampled, concentrations of dissolved chromium (including hexavalent and trivalent chromium) decreased to below regulatory standards in RMW01. Compared to the first post remediation groundwater monitoring event conducted in October 2020, overall concentrations of dissolved chromium (total) decreased in RMW01 by two orders of magnitude (123 micrograms per liter [µg/L] in October 2020 compared to 5.51 µg/L in March 2021).

Dissolved chromium (total) and dissolved hexavalent chromium were detected above regulatory standards in RMW04. However, concentrations of dissolved chromium (total) and dissolved hexavalent chromium in RMW04 decreased by one order of magnitude since the groundwater monitoring event conducted in October 2020 (143.6 µg/L dissolved chromium [total] in October 2020 compared to 68.86 µg/L in March 2021; and 134 µg/L dissolved hexavalent chromium in October 2020 compared to 88 µg/L in March 2021).

Dissolved trivalent chromium was non-detect in both RMW01 and RMW04.

2.4.2 Quarterly Groundwater Sampling (June 2021)

During the June 2021 groundwater monitoring event, concentrations of dissolved (total) and dissolved hexavalent chromium were detected at concentrations below regulatory standards in RMW01 and RMW04. Dissolved trivalent chromium was not detected in RMW01 and RMW04. Concentrations of dissolved chromium (total) and dissolved hexavalent chromium in RMW01 remained below regulatory standards while concentrations of dissolved chromium (total) and dissolved hexavalent chromium in RMW04 decreased by up to one order of magnitude since the previous groundwater monitoring event in March 2021 (68.86 µg/L dissolved chromium [total] in March 2021 compared to 2.2 µg/L in June 2021; and 88 µg/L dissolved hexavalent chromium in March 2021 compared to 3 µg/L in June 2021).

2.4.3 Quarterly Groundwater Sampling (September 2021)

During the September 2021 groundwater monitoring event, concentrations of dissolved (total) and dissolved hexavalent chromium were detected at concentrations below the regulatory standards in RMW01 and RMW04. Dissolved trivalent chromium was not detected in RMW01 and RMW04. Consistent with the prior groundwater monitoring event performed in June 2021, the concentrations of dissolved chromium (total) and dissolved hexavalent chromium in RMW01 and RMW04 remained below regulatory standards. Further, concentrations of dissolved chromium (total) and dissolved hexavalent chromium in RMW01 generally decreased since the previous groundwater monitoring event in June 2021 (8.39 µg/L dissolved chromium [total] in June 2021 compared to 6.75 µg/L and 5.86 µg/L in September 2021; and 9 µg/L dissolved hexavalent chromium in June 2021 compared to 7 µg/L in September 2021).

The concentration of dissolved hexavalent chromium in RMW04 remained the same between June 2021 and September 2021 groundwater sampling event (3 µg/L); however, the concentration of dissolved chromium (total) in RMW04 decreased by one order of magnitude since the previous groundwater monitoring event in June 2021 (12.82 µg/L dissolved chromium [total] in June 2021 compared to 2.97 µg/L in September 2021).

2.4.4 Quarterly Groundwater Sampling (December 2021)

During the December 2021 groundwater monitoring event, dissolved (total) chromium was detected at concentrations below the regulatory standards in RMW01 and RMW04. Dissolved hexavalent chromium and dissolved trivalent chromium were not detected in RMW01 and RMW04. Consistent with the prior groundwater monitoring event performed in September 2021, the concentrations of dissolved chromium (total) in RMW01 and RMW04 have remained below regulatory standards.

Post-remedy monitoring well locations and the post-remedy quarterly analytical results are shown on Figure 2.

Based on the analytical data from the quarterly groundwater sampling events, the NYSDEC approved the discontinuance of the quarterly groundwater sampling at the site via email dated April 4, 2022 and asked that the monitoring wells be closed in accordance with NYSDEC policy CP-43 .

2.5 Monitoring Well Decommissioning

The monitoring wells were decommissioned by AARCO Environmental Services Corp. on April 15, 2022 in accordance with CP-43: Groundwater Monitoring Well Decommissioning Policy. Prior to decommissioning, monitoring well stickups RMW01 and RMW03 were cut to grade. Monitoring wells RMW02 and RMW04 were previously cut to grade to install flush mounted road boxes. All four monitoring wells were tremmie grouted from the termination depth of the well to grade. Monitoring well decommissioning logs are provided in Appendix C.

3.0 IC/EC PLAN COMPLIANCE REPORT

3.1 Institutional Controls Compliance

The remediation achieved a conditional Track 1 cleanup meeting the 6 NYCRR Part 375 UU SCOs. However, since residual chromium-impacted groundwater remained, an EE was placed on the site. A series of institutional controls (IC) is required by the Decision Document to: (1) prevent future exposure to remaining contamination; and (2) limit the use and development of the site to Restricted-Residential, Commercial or Industrial uses only. An Engineering and Institutional Controls Certification Form is provided as Appendix A. The ICs are listed below:

- The property may be used for: restricted-residential, commercial, and industrial use as defined in 6 NYCRR Part 375-1.8(g). The site may not be used for high level uses such as unrestricted use or residential (single-family) use without additional remediation and amendment of the EE, as approved by the NYSDEC
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Queens Department of Health to render it safe for use as drinking water or for industrial purposes, and the Volunteer must first notify and obtain written approval to do so from the Department
- Environmental and/or public health monitoring must be performed as defined in the SMP
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the SMP
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP

- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the site owner to assure compliance with the restrictions identified by the EE
- Volunteer must provide all persons who acquire any interest in the site a complete copy of the SMP that the NYSDEC approves for the site and all NYSDEC-approved amendments to the SMP

The ICs remained effective at the site during the reporting period.

3.2 Monitoring Plan Compliance

The Volunteer has conducted quarterly groundwater sampling events in accordance the NYSDEC approved SMP, dated December 30, 2020. The results from the quarterly groundwater sampling events conducted during the reporting period indicate that the in-situ groundwater remedy was successful in reducing chromium concentrations to below SGVs and that a Track 1 cleanup has been achieved.

3.3 Engineering Controls

Soil remaining at the site meets UU SCOs therefore, an Engineering Control Plan was not required by the SMP.

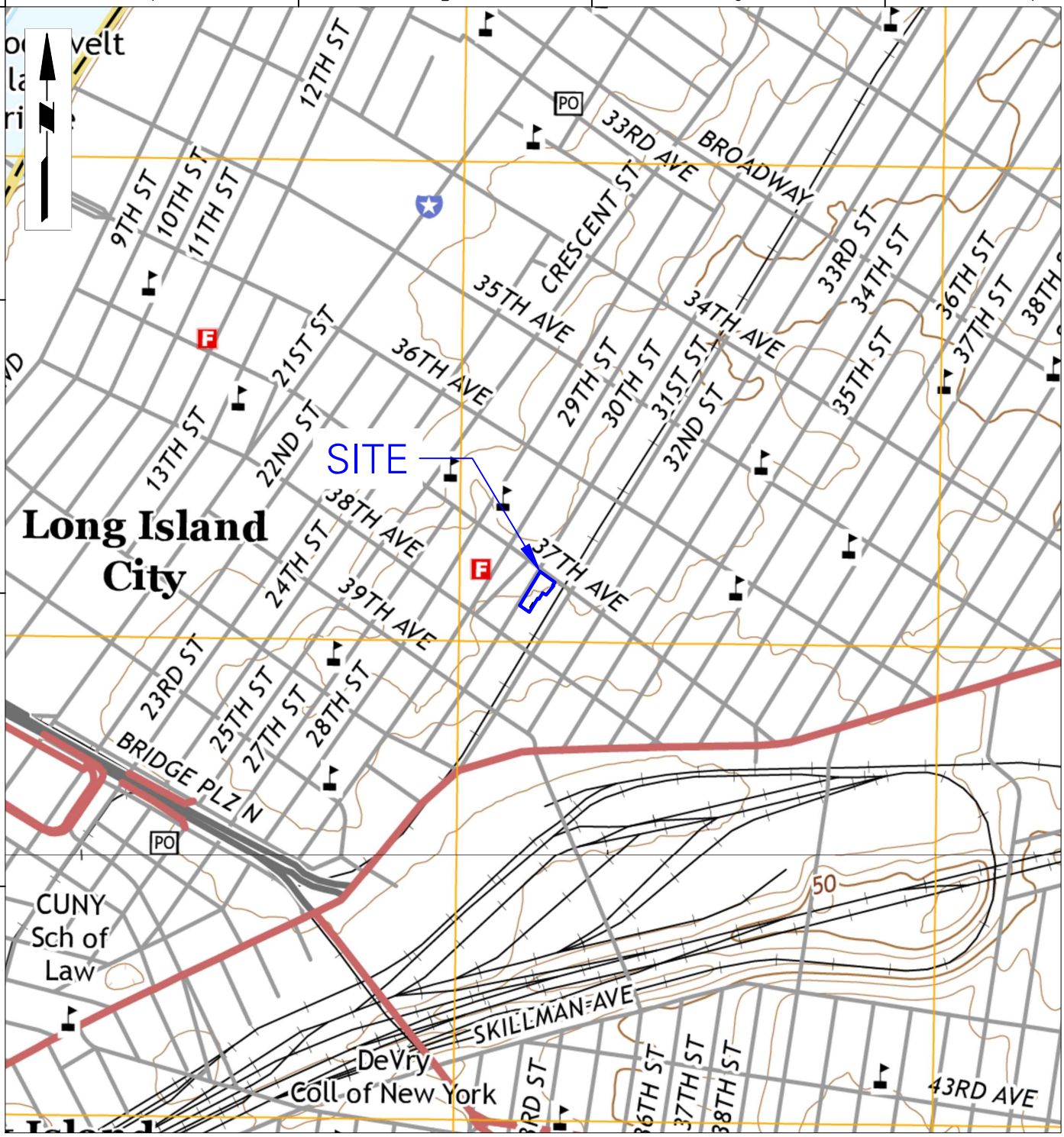
3.4 Operation and Maintenance Plan

The remedy for this site did not require active remediation or engineering controls, therefore, an Operation & Maintenance Plan was not required.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the post-COC groundwater monitoring, the site has achieved a Track 1 remediation. Langan requests that the SMP and EE be terminated and that an amended Certificate of Completion (COC) be issued to reflect the achievement of a Track 1 Cleanup.

FIGURES



NOTE:

BASE MAPS REFERENCED FROM THE UNITED STATES GEOLOGICAL SURVEY (USGS) 7.5-MINUTE CENTRAL PARK AND BROOKLYN TOPOGRAPHIC QUADRANGLES, DATED 2016.

LEGEND:

APPROXIMATE SITE BOUNDARY

1000 0 500 1000

SCALE IN FEET

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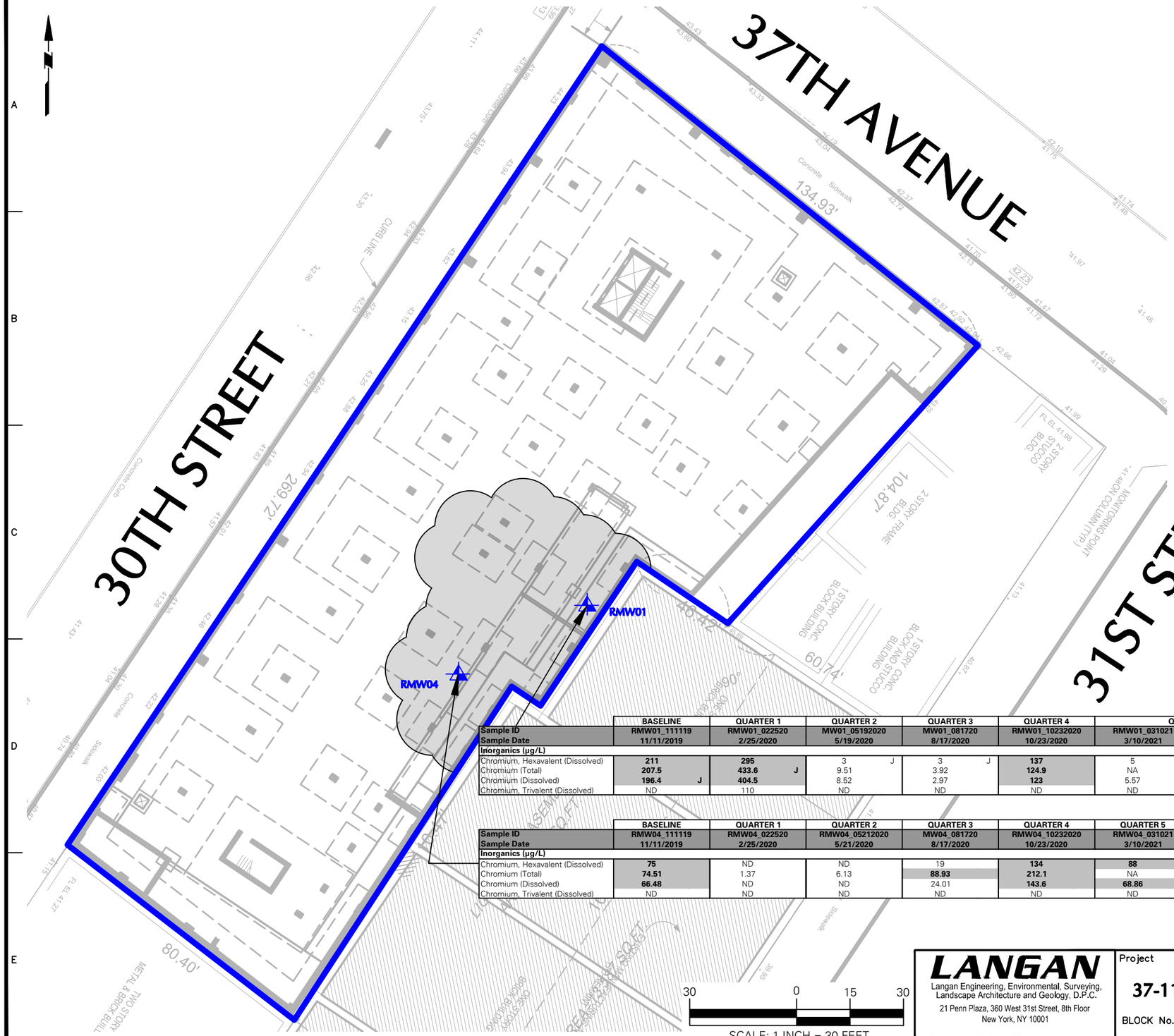
Project	37-11 30TH STREET BLOCK No. 372, LOT NOs. 107 & 121 QUEENS NEW YORK
Figure Title	SITE LOCATION MAP
Project No.	170512301
Date	03/26/2021
Drawn By	NEK
Checked By	ES
Figure No.	1
Sheet	1 of 2



LEGEND:

- BROWNFIELD CLEANUP PROGRAM SITE BOUNDARY
- RMW01 — APPROXIMATE MONITORING WELL LOCATION
- APPROXIMATE EXTENT OF TREATMENT AREA

Analyte	NYSDEC SGVs
Inorganics (µg/L)	
Chromium, Hexavalent	50
Chromium, Total	50
Chromium, Trivalent	~

NOTES:

1. BASEMAP IS REFERENCED FROM SURVEY NO. 41176-17, PREPARED BY MONTROSE SURVEYING CO. LLP, DATED SEPTEMBER 22, 2020.
2. FOUNDATION ELEMENTS, STREETS, AND ADJOINING PROPERTY EXTENTS ARE REFERENCED FROM FOUNDATION PLAN, PREPARED BY MCNAMARA SALVIA, DATED SEPTEMBER 26, 2019.
3. ELEVATIONS (EL) REFERENCE THE UNITED STATES GEOLOGICAL SURVEY (USGS) NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
4. MONITORING WELL LOCATIONS ARE APPROXIMATE AND BASED ON FIELD MEASUREMENTS.
5. AN IN-SITU CHEMICAL REDUCTION (ISCR) CHEMICAL INJECTION WAS SELECTED TO REMEDIATE AND DEGRADE THE APPROXIMATELY 2,700-SQUARE-FOOT TARGETED HEXAVALENT CHROMIUM PLUME SITUATED WITHIN THE TOP 10 FEET OF THE GROUNDWATER TABLE (ABOUT 25 TO 35 FEET BELOW GRADE SURFACE). A COMBINATION OF 27 DIRECT-PUSH TEMPORARY INJECTION POINTS AND/OR 2-INCH DIAMETER POLYVINYL CHLORIDE (PVC) INJECTION WELLS WERE INSTALLED TO TREAT THE TARGETED AREA VIA APPLICATION OF S-MICRO ZERO VALENT IRON (IS-MZVI) THE REDUCTANT) MIXED WITH POTABLE WATER. ABOUT 8,215 GALLONS OF THE REDUCTANT MIXTURE WERE INJECTED BETWEEN NOVEMBER 16 AND NOVEMBER 20, 2019 BY BLUE WORLD CONSTRUCTION INC.
6. IN ACCORDANCE WITH THE DECEMBER 2020 SITE MANAGEMENT PLAN, GROUNDWATER IN MONITORING WELLS RMW02 AND RMW03 (NOT SHOWN) HAVE ACHIEVED THE REMEDIAL ACTION OBJECTIVES (RAO) FOR GROUNDWATER FOLLOWING A YEAR OF GROUNDWATER MONITORING AND FURTHER SAMPLING OF THESE WELLS IS NOT WARRANTED.
7. GROUNDWATER SAMPLE RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TITLE 6 OF THE OFFICIAL COMPILATION OF NEW YORK CODES, RULES, AND REGULATIONS (NYCRR) PART 703.5 AND NYSDEC TECHNICAL OPERATIONAL GUIDANCE SERIES (TOGS) 1.1.1 AMBIENT QUALITY STANDARDS AND GUIDANCE VALUES FOR CLASS GA WATER (NYSDEC SGVs).
8. ANALYTES DETECTED WITH CONCENTRATIONS ABOVE NYSDEC SGVs ARE BOLDED AND SHADED.
9. SAMPLE GWDUP01_031021 IS A DUPLICATE SAMPLE OF RMW01_031021.
10. SAMPLE DUP01_061121 IS A DUPLICATE SAMPLE OF RMW04_061121.
11. SAMPLE GWDUP01_092121 IS A DUPLICATE SAMPLE OF RMW01_092121.
12. SAMPLE GWDUP01_121321 IS A DUPLICATE SAMPLE OF RMW04_121321.
13. µg/L = MICROGRAMS PER LITER
14. ND = NOT DETECTED

	BASELINE	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4	QUARTER 5		QUARTER 6	QUARTER 7		QUARTER 8
Sample ID	**RMW01_111119**	**RMW01_022520**	**MW01_05192020**	**MW01_081720**	**RMW01_10232020**	**RMW01_031021**	**GWDUP01_031021**	**RMW01_061121**	**RMW01_092121**	**GWDUP01_092121**	**RMW01_121321**
Sample Date	**11/11/2019**	**2/25/2020**	**5/19/2020**	**8/17/2020**	**10/23/2020**	**3/10/2021**	**3/10/2021**	**6/11/2021**	**9/21/2021**	**9/21/2021**	**12/13/2021**
Inorganics (µg/L)											
Chromium, Hexavalent (Dissolved)	**211**	**295**	3 J	3 J	**137**	5 J	4 J	9 J	7 J	7 J	10 U
Chromium (Total)	**207.5**	**433.6 J**	9.51	3.92	**124.9**	NA	NA	NA	NA	NA	NA
Chromium (Dissolved)	**196.4 J**	**404.5**	8.52	2.97	**123**	5.57	5.51	8.39	6.75	5.86	8.69
Chromium, Trivalent (Dissolved)	ND	110	ND	ND	ND	ND	ND	ND	ND	ND	10 U

	BASELINE	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4	QUARTER 5	QUARTER 6		QUARTER 7	QUARTER 8	
Sample ID	**RMW04_111119**	**RMW04_022520**	**RMW04_05212020**	**MW04_081720**	**RMW04_10232020**	**RMW04_031021**	**RMW04_061121**	**DUP01_061121**	**RMW04_092121**	**RMW04_121321**	**GWDUP01_121321**
Sample Date	**11/11/2019**	**2/25/2020**	**5/21/2020**	**8/17/2020**	**10/23/2020**	**3/10/2021**	**6/11/2021**	**6/11/2021**	**9/21/2021**	**12/13/2021**	**12/13/2021**
Inorganics (µg/L)											
Chromium, Hexavalent (Dissolved)	**75**	ND	ND	19	**134**	**88**	ND	3 J	3 J	10 U	10 U
Chromium (Total)	**74.51**	1.37	6.13	**88.93**	**212.1**	NA	NA	NA	NA	NA	NA
Chromium (Dissolved)	**66.48**	ND	ND	24.01	**143.6**	**68.86**	2.2 J	12.82 J	2.97	6.92	1.11 U
Chromium, Trivalent (Dissolved)	ND	ND	ND	ND	ND	ND	ND	ND	ND	10 U	10 U

30 0 15 30

SCALE: 1 INCH = 30 FEET

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Project
37-11 30TH STREET
BLOCK No. 372, LOT Nos. 107 & 121
QUEENS NEW YORK

Figure Title
BASELINE AND POST-REMEDY QUARTERLY GROUNDWATER TREATMENT SAMPLE RESULTS MAP

Project No.	170512301
Date	12/21/2021
Drawn By	TG
Checked By	NK

Figure No. **2**
Sheet 2 of 2

Filename: \\langan.com\data\NYC\data3\170512301\Project Data\CAD\01\SheetFiles\Quarterly Groundwater Monitoring - 2021\Figure 2 - Baseline and Post-Remedy Quarterly Groundwater Treatment Sample Results Map - Q8.dwg Date: 12/21/2021 Time: 14:28 User: tgoodnough Style Table: Langan.stb Layout: ANSIB-BL

TABLE

Table 1
Baseline and Post Remedy Groundwater Analytical Results
Periodic Review Report

37-11 30th Street
Long Island City, New York
NYSDEC BCP Site No.: C241211
Langan Project No.: 170512301

Location	NYSDEC SGVs	RMW01												
Monitoring Event		Baseline		Q1	Q2	Q3	Q4	Q5		Q6	Q7		Q8	
Sample ID		RMW01_111119	GWDUP01_111119	RMW01_022520	MW01_05192020	MW01_081720	RMW01_10232020	RMW01_031021	GWDUP01_031021	RMW01_061121	RMW01_092121	GWDUP01_092121	RMW01_121321	
Laboratory ID		L1953756-01	L1953756-02	L2008310-01	L2020687-01	L2033367-01	L2046224-01	L2111893-01	L2111893-05	L2131638-01	L2150815-01	L2150815-03	21L0736-01	
Sample Date		11/11/2019	11/11/2019	2/25/2020	5/19/2020	8/17/2020	10/23/2020	3/10/2021	3/10/2021	6/11/2021	9/21/2021	9/21/2021	12/13/2021	
Inorganics (µg/L)														
Chromium, Hexavalent (Dissolved)	50	**211**	**211**	**295**	3 J	3 J	**137**	5 J	4 J	9 J	7 J	7 J	10	U
Chromium, Total	50	**207.5**	**210**	**433.6** J	9.51	3.92	**124.9**	NA	NA	NA	NA	NA	NA	
Chromium, Total (Dissolved)	50	**196.4** J	**145.6**	**404.5**	8.52	2.87	**123**	5.57	5.51	8.39	6.75	5.86	8.69	
Chromium, Trivalent (Dissolved)	~	20 U	10 U	110	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10	U
Field Parameters														
Ph (Standard Units)	~	9.14	9.14	7.95	8.32	7.44	7.27	7.3	7.3	7.71	7.62	7.62	9.89	
Temperature (°C)	~	13.96	13.96	10.72	12.75	15.66	17.65	12.76	12.76	13.84	14.67	14.67	15.15	
Specific Conductivity (mS/cm)	~	0.694	0.694	0.57	0.482	0.73	0.922	1.75	1.75	0.74	0.797	0.797	0.485	
Dissolved Oxygen (mg/L)	~	4340	4340	0	0	2630	3.38	4.45	4.45	1.83	1.91	1.91	0.32	
Redox Potential (mV)	~	-134	-134	-24	12	111	150	180	180	125	79	79	-73	
Turbidity (NTU)	~	0	0	6.7	7.2	2.9	2.5	6.2	6.2	4.9	0.0	0.0	2.6	

Notes provided on Page 4.

Table 1
Baseline and Post Remedy Groundwater Analytical Results
Periodic Review Report

37-11 30th Street
Long Island City, New York
NYSDEC BCP Site No.: C241211
Langan Project No.: 170512301

Location	NYSDEC SGVs	RMW02							RMW03						
Monitoring Event		Baseline	Q1		Q2	Q3		Q4	Baseline	Q1	Q2		Q3	Q4	
Sample ID		RMW02_111119	RMW02_022520	GWDUP01_022520	RMW02_05212020	MW02_081720	GWDUP01_081720	RMW02_10232020	RMW03_111119	RMW03_022520	MW03_05192020	GWDUP01_05192020	MW03_081720	RMW03_10232020	GWDUP01_10232020
Laboratory ID		L1953756-03	L2008310-02	L2008310-06	L2021174-01	L2033367-02	L2033367-05	L2046224-02	L1953756-04	L2008310-03	L2020687-02	L2020687-03	L2033367-03	L2046224-03	L2046224-05
Sample Date		11/11/2019	2/25/2020	2/25/2020	5/21/2020	8/17/2020	8/17/2020	23-Oct	11/11/2019	2/25/2020	5/19/2020	5/19/2020	8/17/2020	10/23/2020	10/23/2020
Inorganics (µg/L)															
Chromium, Hexavalent (Dissolved)	50	**163**	29	38	10 U	10 U	3 J	10 U	7 J	10 U	10 U	10 U	10 U	10 U	3 J
Chromium, Total	50	**138**	30.14	38.69	8.83	18.93	4.2	29.58	5.83	0.47 J	0.29 J	0.31 J	1.3	1.12	1.04
Chromium, Total (Dissolved)	50	**124.9**	35.63	41.36	5.79	17.8	3.22	22.87	6.3	0.44 J	0.19 J	0.2 J	1.11	1 U	1 U
Chromium, Trivalent (Dissolved)	~	10 U	10 U	10 U	10 U	18	10 U	23	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Field Parameters															
Ph (Standard Units)	~	7.99	8.03	8.03	7.81	7.95	7.95	7.03	8.43	7.72	7.85	7.85	7.69	7.49	7.49
Temperature (°C)	~	13.1	9.98	9.98	12.05	17.5	17.5	17.6	13.08	10.46	13.97	13.97	15.37	17.86	17.86
Specific Conductivity (mS/cm)	~	0.938	1.16	1.16	1.02	0.681	0.681	0.641	0.247	0.71	0.488	0.488	0.371	0.631	0.631
Dissolved Oxygen (mg/L)	~	7360	0	0	0	0	0	0	8230	0	0	0	0	0	0
Redox Potential (mV)	~	44	49	49	-188	-139	-139	-105	65	-158	-132	-132	-193	-197	-197
Turbidity (NTU)	~	2.7	11.3	11.3	9.8	5.8	5.8	6.4	0.5	7.7	12.9	12.9	7.6	11.3	11.3

Notes provided on Page 4.

Table 1
Baseline and Post Remedy Groundwater Analytical Results
Periodic Review Report

37-11 30th Street
Long Island City, New York
NYSDEC BCP Site No.: C241211
Langan Project No.: 170512301

Location	NYSDEC SGVs	RMW04											
Monitoring Event		Baseline	Q1	Q2	Q3	Q4	Q5	Q6		Q7	Q8		
Sample ID		RMW04_111119	RMW04_022520	RMW04_05212020	MW04_081720	RMW04_10232020	RMW04_031021	RMW04_061121	DUP01_061121	RMW04_092121	RMW04_121321	GWDUP01_121321	
Laboratory ID		L1953756-05	L2008310-04	L2021174-02	L2033367-04	L2046224-04	L2111893-04	L2131638-02	L2131638-03	L2150815-02	21L0736-02	21L0736-03	
Sample Date		11/11/2019	2/25/2020	5/21/2020	8/17/2020	10/23/2020	3/10/2021	6/11/2021	6/11/2021	9/21/2021	12/13/2021	12/13/2021	
Inorganics (µg/L)													
Chromium, Hexavalent (Dissolved)	50	**75**	10 U	10 U	19	**134**	**88**	10 U	3 J	3 J	10 U	10 U	
Chromium, Total	50	**74.51**	1.37	6.13	**88.93**	**212.1**	NA	NA	NA	NA	NA	NA	
Chromium, Total (Dissolved)	50	**66.48**	1 U	1 U	24.01	**143.6**	**68.86**	2.2 J	12.82 J	2.97	6.92	1.11 U	
Chromium, Trivalent (Dissolved)	~	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Field Parameters													
Ph (Standard Units)	~	8.81	9.71	9.11	9.37	8.7	8.77	9.06	9.06	8.87	15.35	15.35	
Temperature (°C)	~	14.21	10.53	12.69	15.78	17.87	12.4	13.11	13.11	14.4	8.18	8.18	
Specific Conductivity (mS/cm)	~	0.657	0.62	0.66	0.274	0.329	0.567	0.35	0.35	0.396	1.02	1.02	
Dissolved Oxygen (mg/L)	~	6200	0	0	0	0.12	2.52	0.48	0.48	1.62	3.16	3.16	
Redox Potential (mV)	~	-120	-313	-244	-130	-114	-88	-74	-74	-113	-40	-40	
Turbidity (NTU)	~	0	13.1	9.4	2.3	3.9	2.5	3.9	3.9	0.0	0.0	0.0	

Notes provided on Page 4.

Table 1
Baseline and Post Remedy Groundwater Analytical Results
Periodic Review Report

37-11 30th Street
Long Island City, New York
NYSDEC BCP Site No.: C241211
Langan Project No.: 170512301

Notes:
1. Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (herein collectively referenced as "NYSDEC SGVs").
2. Only detected analytes are shown in the table.
3. Detected analytical results above NYSDEC SGVs are bolded and shaded.
4. Analytical results with reporting limits (RL) above NYSDEC SGVs are italicized.
5. Analytical data presented from the Quarter 4 groundwater monitoring event is not validated.
6. Sample GWDUP01_111119 is a duplicate sample of RMW01_111119; sample GWDUP01_022520 is a duplicate sample of RMW02_022520; sample GWDUP01_05192020 is a duplicate sample of MW03_05192020; sample GWDUP01_081720 is a duplicate sample of MW02_081720, sample GWDUP01_10232020 is a duplicate sample of RMW03_10232020, GWDUP01_031021 is a duplicate sample of RMW01_031021, and GWDUP01_092121 is a duplicate sample of RMW01_092121.
7. ~ = Regulatory limit for this analyte does not exist
8. ug/l = micrograms per liter

Qualifiers:
J = The analyte was detected above the Method Detection Limit (MDL), but below the RL; therefore, the result is an estimated concentration.
U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

APPENDIX A

IC CERTIFICATION

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

Site Details **Box 1**

Site No. C241211

Site Name 37-11 30th Street

Site Address: 37-11 30th Street and 30-14 37th Avenue Zip Code: 11101
City/Town: Long Island City
County: Queens
Site Acreage: 0.616

Reporting Period: December 30, 2020 to April 30, 2022

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☒	☐

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Unrestricted, Residential, Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

	Box 2A	
	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C241211 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
372-107	37-11 30th Street Holdings LLC	Ground Water Use Restriction Landuse Restriction Monitoring Plan IC/EC Plan Site Management Plan

* The property may be used for: restricted-residential, commercial, and industrial use as defined in 6 NYCRR Part 375-1.8(g). The site may not be used for high level uses such as unrestricted use or residential (single-family) use without additional remediation and amendment of the EE, as approved by the NYSDEC

* The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Queens Department of Health to render it safe for use as drinking water or for industrial purposes, and the Volunteer must first notify and obtain written approval to do so from the Department

* Environmental and/or public health monitoring must be performed as defined in this SMP

* Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP

* Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP

* Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the site owner to assure compliance with the restrictions identified by the EE

* Volunteer must provide all persons who acquire any interest in the site a complete copy of the SMP that the NYSDEC approves for the site and all NYSDEC-approved amendments to the SMP

372-121	37-11 30th Street Holdings LLC	Monitoring Plan IC/EC Plan Ground Water Use Restriction Landuse Restriction Site Management Plan

* The property may be used for: restricted-residential, commercial, and industrial use as defined in 6 NYCRR Part 375-1.8(g). The site may not be used for high level uses such as unrestricted use or residential (single-family) use without additional remediation and amendment of the EE, as approved by the NYSDEC

* The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Queens Department of Health to render it safe for use as drinking water or for industrial purposes, and the Volunteer must first notify and obtain written approval to do so from the Department

* Environmental and/or public health monitoring must be performed as defined in this SMP

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* Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP

* Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the site owner to assure compliance with the restrictions identified by the EE

* Volunteer must provide all persons who acquire any interest in the site a complete

copy of the SMP that the NYSDEC approves for the site and all NYSDEC-approved amendments to the SMP

Box 4

Description of Engineering Controls

None Required

Not Applicable/No EC's

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. C241211

Box 6

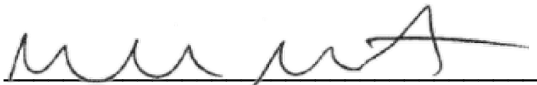
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I David Schwartz (print name) at 38th East 29th Street, 9th Floor New York, NY 10016 (print business address),

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.



Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

5/23/2022
Date

APPENDIX B

MONITORING WELL CONSTRUCTION LOGS

WELL DEVELOPMENT SUMMARY

Well No. RMW01

PROJECT		PROJECT NO.	
37-11 30th Street		170512301	
LOCATION		**ELEVATION AND DATUM**	
Queens, NY		Approx. el. 28 NAVD88	
DRILLING AGENCY		**DATE STARTED**	**DATE FINISHED**
Cascade		11/11/2019	11/11/2019
DRILLING EQUIPMENT		**DRILLER**	
Geoprobe® 7822 DT		Michele Rogers	
SIZE AND TYPE OF BIT		**INSPECTOR**	
4-inch Direct Push		Andrew Nesci	
BOREHOLE DIAMETER		**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
3.75 in		Overburden	
RISER MATERIAL	**DIAMETER**	**TYPE OF BACKFILL MATERIAL**	
PVC	2-inch	No. 2 Sand and Bentonite	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 10 Slot	1-inch	No. 2 Sand	Bentonite

METHOD OF INSTALLATION

Cascade used a Geoprobe 7822 DT to advance the boring to approximately 20 feet bgs. A 2-inch PVC monitoring well was installed which consisted of 10 feet of No. 10 slot (0.010-inch) well screen, and a solid 2-inch PVC riser. Well screen was installed from approximately 20 to 10 feet bgs, followed by a riser from 10 feet bgs to surface. Wells were left with PVC stickups to about 2 feet above grade surface awaiting future formwork and foundation slab installation. All elevations are approximate. Well was approximate installed 20 depth below sidewalk grade (bgs).

WELL DEVELOPMENT DATA

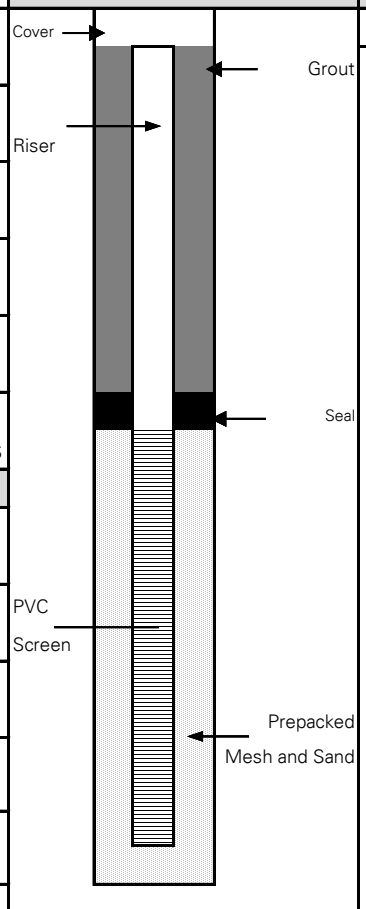
SURGE BLOCK DIAMETER	2 in	**TYPE PUMP**	Submersible	**DEVELOPMENT CONFIRMATION**
DRILLER OR LANGAN	Driller	**MAX PUMP RATE**	1 LPM	Well developed from 10:20-10:35 AM until purged groundwater was no longer turbid.
NUMBER OF SURGE CYCLES	3	**TOTAL VOLUME**	8 Gallons	

TOP OF CASING	**ELEVATION** 28	**DEPTH (ft)** 0
TOP OF SEAL	**ELEVATION** 19	**DEPTH (ft)** 9
TOP OF FILTER	**ELEVATION** 18	**DEPTH (ft)** 10
TOP OF SCREEN	**ELEVATION** 18	**DEPTH (ft)** 10
BOTTOM OF BORING	**ELEVATION** 8	**DEPTH (ft)** 20
SCREEN LENGTH		10
SLOT SIZE		No. 10 Slot; 0.010 Inches

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
16.33	11/11/2019	11.67 ft

WELL DETAILS



SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	0
	9.0
	10
	20

LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology D.P.C.

21 Penn Plaza, 360 West 31st Street, 8th Floor, New York

WELL DEVELOPMENT SUMMARY

Well No. RMW04

PROJECT		PROJECT NO.	
37-11 30th Street		170512301	
LOCATION		**ELEVATION AND DATUM**	
Queens, NY		Approx. el. 28 NAVD88	
DRILLING AGENCY		**DATE STARTED**	**DATE FINISHED**
Cascade		11/11/2019	11/11/2019
DRILLING EQUIPMENT		**DRILLER**	
Geoprobe® 7822 DT		Michele Rogers	
SIZE AND TYPE OF BIT		**INSPECTOR**	
4-inch Direct Push		Andrew Nesci	
BOREHOLE DIAMETER		**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
3.75 in		Overburden	
RISER MATERIAL	**DIAMETER**	**TYPE OF BACKFILL MATERIAL**	
PVC	2-inch	No. 2 Sand and Bentonite	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 10 Slot	1-inch	No. 2 Sand	Bentonite

METHOD OF INSTALLATION

Geoprobe 7822 DT was used to advance the boring to approximately 20 feet bgs. A two-inch (2") PVC monitoring well was installed which consisted of 10' of 10 slot (0.010-inch) well screen, and a solid 2" PVC riser. Well screen was installed from approximately 20 to 10 feet bgs with riser from 10 feet bgs to surface. Wells were left with PVC stickups to about 2 feet above grade surface awaiting future formwork and foundation slab installation. All elevations are approximate. Well was approximate installed 20 feet depth below sidewalk grade (bgs).

WELL DEVELOPMENT DATA

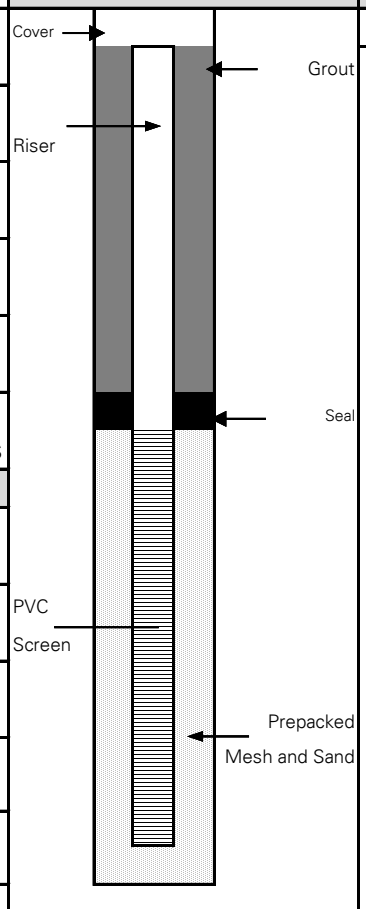
SURGE BLOCK DIAMETER	2-inch	**TYPE PUMP**	Submersible	**DEVELOPMENT CONFIRMATION**
DRILLER OR LANGAN	driller	**MAX PUMP RATE**	1 LPM	Well developed from 11:39-11:49 AM until purged groundwater was no longer turbid.
NUMBER OF SURGE CYCLES	3	**TOTAL VOLUME**	10 gallons	

	ELEVATION	DEPTH (ft)
TOP OF CASING	28	0
TOP OF SEAL	19	9
TOP OF FILTER	18	10
TOP OF SCREEN	18	10.0
BOTTOM OF BORING	8	20
SCREEN LENGTH		10
SLOT SIZE		No. 10 Slot; 0.010 Inches

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
15.36	11/11/2019	12.64 ft

WELL DETAILS



SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	0
	9.0
	10.0
	20

LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York

APPENDIX C

MONITORING WELL DECOMISSIONING LOG

FIGURE 3

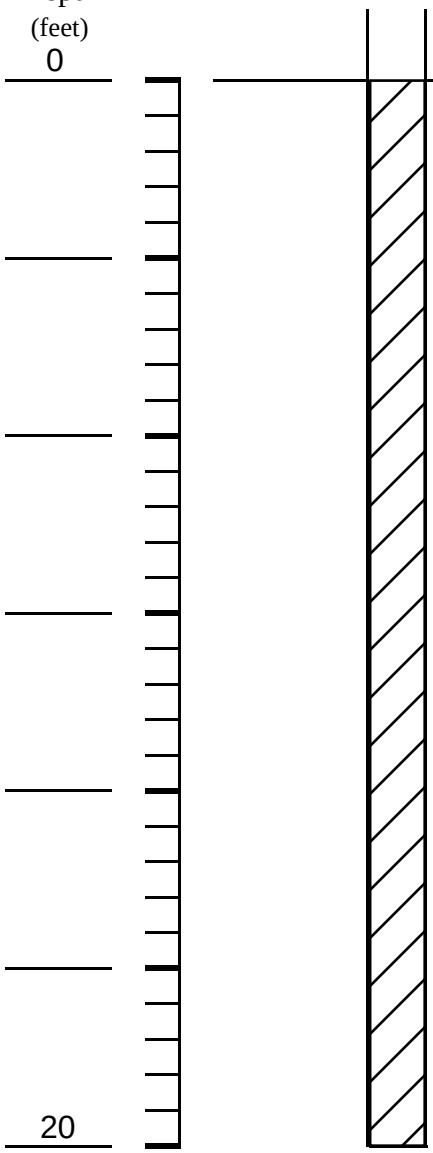
WELL DECOMMISSIONING RECORD

Site Name: 37-11 30th Street (C241211)	Well I.D.: RMW-01
Site Location: Long Island City, NY	Driller: Andrutti
Drilling Co.: AARCO Environmental Inc.	Inspector: Roswell Lo- Langan
	Date: 04/15/2022

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	-
Drilling Method(s)	-
Borehole Dia. (in.)	-
Temporary Casing Installed? (y/n)	-
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	-
Casing retrieved (feet)	-
Casing type/dia. (in)	-
CASING PERFORATING	
Equipment used	-
Number of perforations/foot	-
Size of perforations	-
Interval perforated	-
GROUTING	
Interval grouted (FBLS)	-
# of batches prepared	-
For each batch record:	
Quantity of water used (gal.)	8
Quantity of cement used (lbs.)	12
Cement type	Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	10

WELL SCHEMATIC*



COMMENTS:

☒ = Grout

Casing grouted in place

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

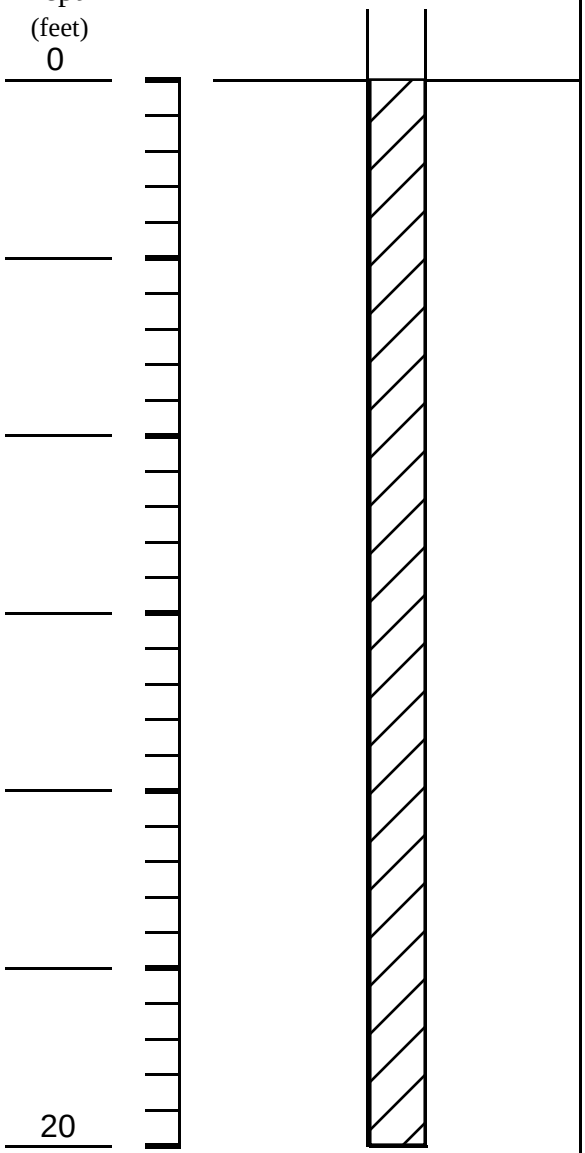
WELL DECOMMISSIONING RECORD

Site Name: 37-11 30th Street	Well I.D.: RMW-02
Site Location: Long Island City, NY	Driller: Andrutti
Drilling Co.: AARCO	Inspector: Roswell Lo- Langan
	Date: 04/15/2022

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	-
Drilling Method(s)	-
Borehole Dia. (in.)	-
Temporary Casing Installed? (y/n)	-
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	-
Casing retrieved (feet)	-
Casing type/dia. (in)	-
CASING PERFORATING	
Equipment used	-
Number of perforations/foot	-
Size of perforations	-
Interval perforated	-
GROUTING	
Interval grouted (FBLS)	-
# of batches prepared	-
For each batch record:	
Quantity of water used (gal.)	8
Quantity of cement used (lbs.)	12
Cement type	Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	10

WELL SCHEMATIC*



COMMENTS:

▨ = Grout

Casing grouted in place

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

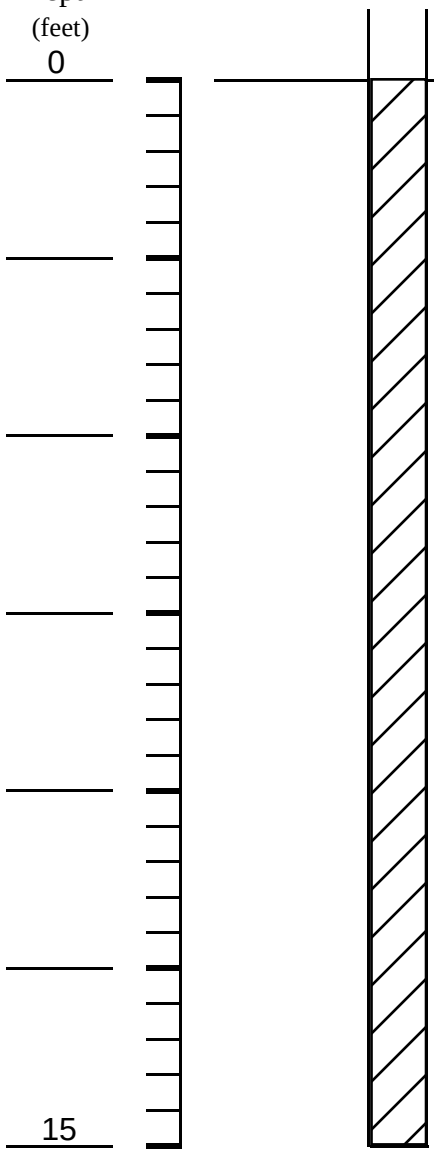
WELL DECOMMISSIONING RECORD

Site Name: 37-11 30th Street	Well I.D.: RMW-03
Site Location: Long Island City, NY	Driller: Andrutti
Drilling Co.: AARCO Environmental Inc.	Inspector: Roswell Lo- Langan
	Date: 04/15/2022

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	-
Drilling Method(s)	-
Borehole Dia. (in.)	-
Temporary Casing Installed? (y/n)	-
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	-
Casing retrieved (feet)	-
Casing type/dia. (in)	-
CASING PERFORATING	
Equipment used	-
Number of perforations/foot	-
Size of perforations	-
Interval perforated	-
GROUTING	
Interval grouted (FBLS)	-
# of batches prepared	-
For each batch record:	
Quantity of water used (gal.)	6
Quantity of cement used (lbs.)	12
Cement type	Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	8
Volume of grout used (gal.)	8

WELL SCHEMATIC*



COMMENTS:

☒ = Grout

Casing grouted in place

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

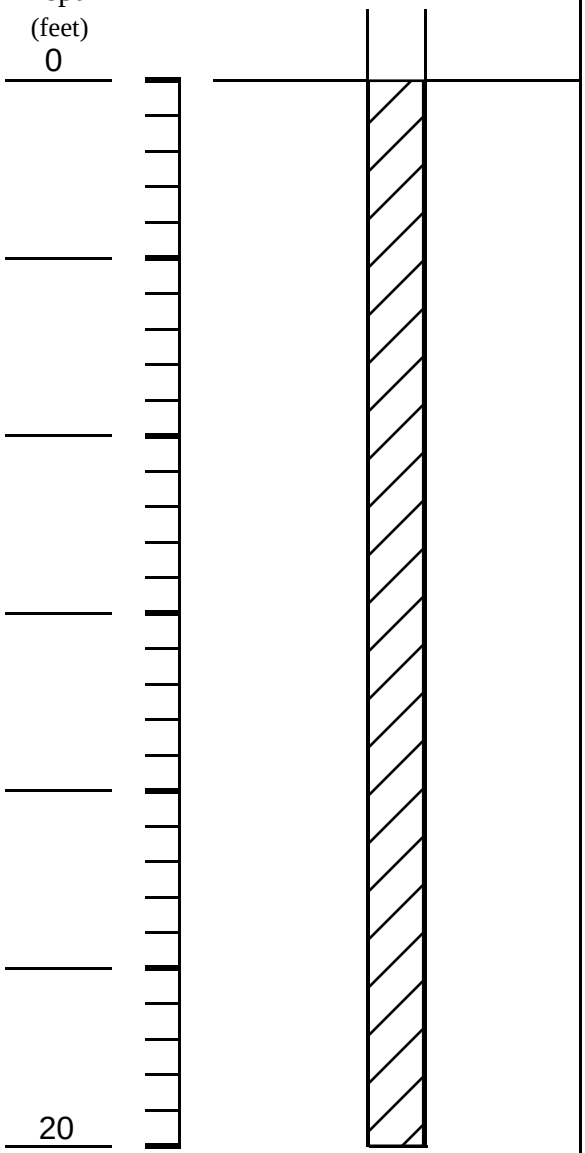
WELL DECOMMISSIONING RECORD

Site Name: 37-11 30th Street	Well I.D.: RMW-04
Site Location: Long Island City, NY	Driller: Andrutti
Drilling Co.: AARCO	Inspector: Roswell Lo- Langan
	Date: 04/15/2022

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	-
Drilling Method(s)	-
Borehole Dia. (in.)	-
Temporary Casing Installed? (y/n)	-
Depth temporary casing installed	-
Casing type/dia. (in.)	-
Method of installing	-
CASING PULLING	
Method employed	-
Casing retrieved (feet)	-
Casing type/dia. (in)	-
CASING PERFORATING	
Equipment used	-
Number of perforations/foot	-
Size of perforations	-
Interval perforated	-
GROUTING	
Interval grouted (FBLS)	-
# of batches prepared	-
For each batch record:	
Quantity of water used (gal.)	6
Quantity of cement used (lbs.)	10
Cement type	Portland Cement
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	8
Volume of grout used (gal.)	8

WELL SCHEMATIC*



COMMENTS:

▨ = Grout

Casing grouted in place

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative