

Table 1
Summary of DNAPL Gauging
50 Kent Avenue Property Holder Area
Brooklyn, New York

50 Kent Avenue Property Holder Area																	
Well ID	NRW-01	NRW-01R	NRW-02	NRW-03	NRW-04	NRW-05	NRW-06	NRW-07	NRW-08	NRW-08R	NRW-09	NRW-09R	NRW-10	NRW-11	NRW-11R	NRW-12	NRW-13
Date	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet
1/9/2019	NM		0.02				ND	0.50	NM			0.08	0.10		1.00	0.08	ND
1/11/2019	NM		0.02				ND	0.30	NM			0.08	0.10		1.00	0.08	ND
1/14/2019	NM		0.02				ND	0.80	NM			0.10	0.10		1.00	0.08	ND
1/16/2019	NM		0.10				ND	0.50	NM			0.08	0.08		1.00	0.13	ND
1/18/2019	NM		0.10				ND	0.30	NM			0.08	0.04		1.00	0.10	ND
1/21/2019	NM		0.08				ND	0.50	NM			0.08	0.08		0.60	0.08	ND
1/23/2019	NM		0.08				ND	0.50	NM			0.10	0.08		1.00	0.04	ND
1/25/2019	NM		0.08				ND	0.30	NM			0.08	0.08		0.30	0.10	ND
1/28/2019	NM		0.08				ND	0.80	NM			0.08	0.10		1.00	0.10	ND
1/30/2019	NM		0.08				ND	0.50	NM			0.10	0.08		0.80	0.10	ND
2/1/2019	NM						ND	0.80	NM			0.10	0.08		1.00	0.20	ND
2/4/2019	NM		0.30				ND	1.00	NM			0.20	0.08		1.00	0.10	ND
2/6/2019	NM		0.20				ND	0.80	NM			0.10	0.04		1.00	0.20	ND
2/8/2019	NM		0.10				ND	0.50	NM			0.10	0.10		0.80	0.20	ND
2/11/2019	NM		0.10				ND	1.00	NM			0.20	0.20		1.20	0.30	ND
2/13/2019	NM		0.10				ND	0.50	NM			0.08	0.08		0.80	0.10	ND
2/15/2019	NM		0.08				ND	0.50	NM			0.10	0.10		1.00	0.20	ND
2/18/2019	NM		0.10				ND	0.80	NM			0.20	0.10		1.00	0.20	ND
2/20/2019	NM		0.10				ND	0.50	NM			0.10	0.10		0.80	0.10	ND
2/22/2019	NM		0.20				ND	0.80	NM			0.10	0.10		0.80	0.20	ND
2/25/2019	NM		0.20				ND	1.00	NM			0.20	0.10		1.00	0.20	ND
2/27/2019	NM		0.10				ND	0.60	NM			0.10	0.10		0.80	0.20	ND
3/1/2019	NM		0.10				ND	1.00	NM			0.10	0.10		0.80	0.10	ND
3/4/2019	NM		0.10				ND	1.00	NM			0.20	0.10		1.00	0.20	ND
3/6/2019	NM		0.10				ND	1.00	NM			0.10	0.10		1.00	0.30	ND
3/8/2019	NM		0.10				ND	1.00	NM			0.20	0.08		1.00	0.10	ND
3/11/2019	NM		0.10				ND	1.00	NM			0.10	0.10		0.80	0.08	ND
3/13/2019	NM		0.10				ND	1.00	NM			0.20	0.10		1.00	0.08	ND
3/15/2019	NM		0.10				ND	0.90	NM			0.10	0.10		0.90	0.10	ND
3/18/2019	NM		0.10				ND	1.00	NM			0.20	0.10		1.00	0.10	ND
3/20/2019	NM		0.10				ND	0.60	NM			0.10	0.10		0.80	0.10	ND
3/22/2019	NM		0.10				ND	0.50	NM			0.10	0.10		0.80	0.08	ND
3/25/2019	NM		0.10				ND	1.00	NM			0.20	0.10		1.00	0.08	ND
3/27/2019	NM		0.10				ND	1.00	NM			0.10	0.10		0.50	0.08	ND
3/29/2019	NM		0.10				ND	1.00	NM			0.10	0.10		0.80	0.08	ND
4/1/2019	NM		0.10				ND	1.00	NM			0.20	0.10		0.50	0.10	ND
4/3/2019	NM		0.10				ND	0.50	NM			0.10	0.10		0.80	0.10	ND
4/5/2019	NM		0.10				ND	1.00	NM			0.10	0.20		0.80	0.10	ND
4/8/2019	NM		0.10				ND	0.80	NM			0.20	0.10		1.00	0.20	ND
4/10/2019	NM		0.10				ND	1.00	NM			0.10	0.10		0.80	0.20	ND
4/12/2019	NM		0.10				ND	1.60	NM			0.20	0.10		1.00	0.20	ND
4/15/2019	NM		0.20				ND	1.80	NM			0.20	0.20		1.10	0.20	ND
4/17/2019	NM		0.20				ND	1.40	NM			0.10	0.10		1.00	0.20	ND
4/19/2019	NM		0.20				ND	1.40	NM			0.20	0.10		1.20	0.20	ND
4/22/2019	NM		0.10				ND	1.30	NM			0.10	0.20		1.10	0.20	ND
4/24/2019	NM		0.10				ND	1.40	NM			0.10	0.20		1.10	0.10	ND
4/28/2019	NM		0.10				ND	1.30	NM			0.10	0.10		0.80	0.10	ND
4/29/2019	NM		0.10				ND	1.30	NM			0.10	0.10		0.80	0.10	ND
5/1/2019	NM		0.10				ND	0.80	NM			0.20	0.20		0.50	0.08	ND
5/3/2019	NM		0.10				ND	1.00	NM			0.10	0.20		0.50	0.10	ND
5/6/2019	NM		0.10				ND	0.50	NM			0.10	0.08		0.40	0.10	ND
5/8/2019	NM						ND	0.60	NM			0.10	0.10		0.40	0.10	ND
5/10/2019	NM		0.08				ND	NM	NM			NM	0.04		NM	0.04	ND
5/15/2019			ND				ND	0.10	NM			ND	0.08		0.10	0.08	ND
5/22/2019			ND				ND	0.80	NM			ND	0.10		0.40	ND	ND
5/29/2019		0.30	ND				ND	0.50		ND		ND	ND		0.20	0.08	ND
5/31/2019		0.80	ND				ND	1.00		ND		ND	ND		0.10	ND	ND
6/5/2019		0.80	0.30				ND	1.00		ND		ND	ND		1.00	0.10	ND
6/12/2019		0.80	0.10				ND	1.00		ND		ND	ND		0.80	ND	ND
6/17/2019		0.40	ND				ND	1.50		ND		ND	ND		0.50	ND	ND
6/19/2019		0.80	ND				ND	0.50		ND		ND	ND		0.40	ND	ND
6/26/2019		0.10	0.50				ND	1.00		ND		ND	ND		0.60	ND	ND
7/3/2019		0.30	ND				ND	1.00		ND		ND	0.20		0.40	ND	ND
7/10/2019		0.40	ND				ND	1.00		ND		ND	ND		0.60	0.10	ND
7/17/2019		0.30	0.10				ND	1.50		ND		ND	ND		0.80	ND	ND
7/24/2019		0.40	ND				ND	2.00		ND		ND	ND		0.40	0.10	ND
7/31/2019		0.50	ND				ND	1.70		ND		ND	ND		0.50	0.10	ND
8/7/2019		0.40	ND				ND	1.50		ND		ND	ND		0.60	0.10	ND
8/14/2019		0.30	ND				ND	1.60		ND		ND	ND		0.50	0.10	ND
8/21/2019		0.40	0.10				ND	2.00	0.10	ND		ND	ND		0.60	ND	ND
8/28/2019		0.30	ND				ND	1.00		ND		ND	ND		0.40	ND	ND
9/4/2019		0.30	ND				ND	1.00		ND		ND	ND		0.20	ND	ND
9/11/2019		ND	ND				ND	0.80		ND		ND	ND		0.20	ND	ND
9/17/2019		0.40	ND				ND	1.00		ND		ND	ND		0.30	0.10	ND
9/25/2019		0.30	ND				ND	1.30		ND		ND	ND		0.30	0.10	ND
Max Thickness	0.10	0.80	6.90	6.80	8.80	0.50	0.00	16.15	6.55	0.10	14.90	2.00	20.20	1.50	11.00	15.10	2.20
Average Thickness	0.10	0.44	1.06	2.19	1.58	0.44	ND	3.27	1.06	ND	1.35	0.53	1.42	0.62	2.25	1.51	0.88
Overall Median Value	0.10	0.40	0.80	1.45	0.50	0.50	0.00	3.00	1.00	ND	1.00	0.30	1.00	0.50	1.00	0.50	0.80
Last Quarter Median	NA	0.40	0.10	NA	NA	NA	ND	1.00	NA	ND	NA	0.10	0.10	NA	0.50	0.10	ND

NM - Not Measured

ND - No Product Detected

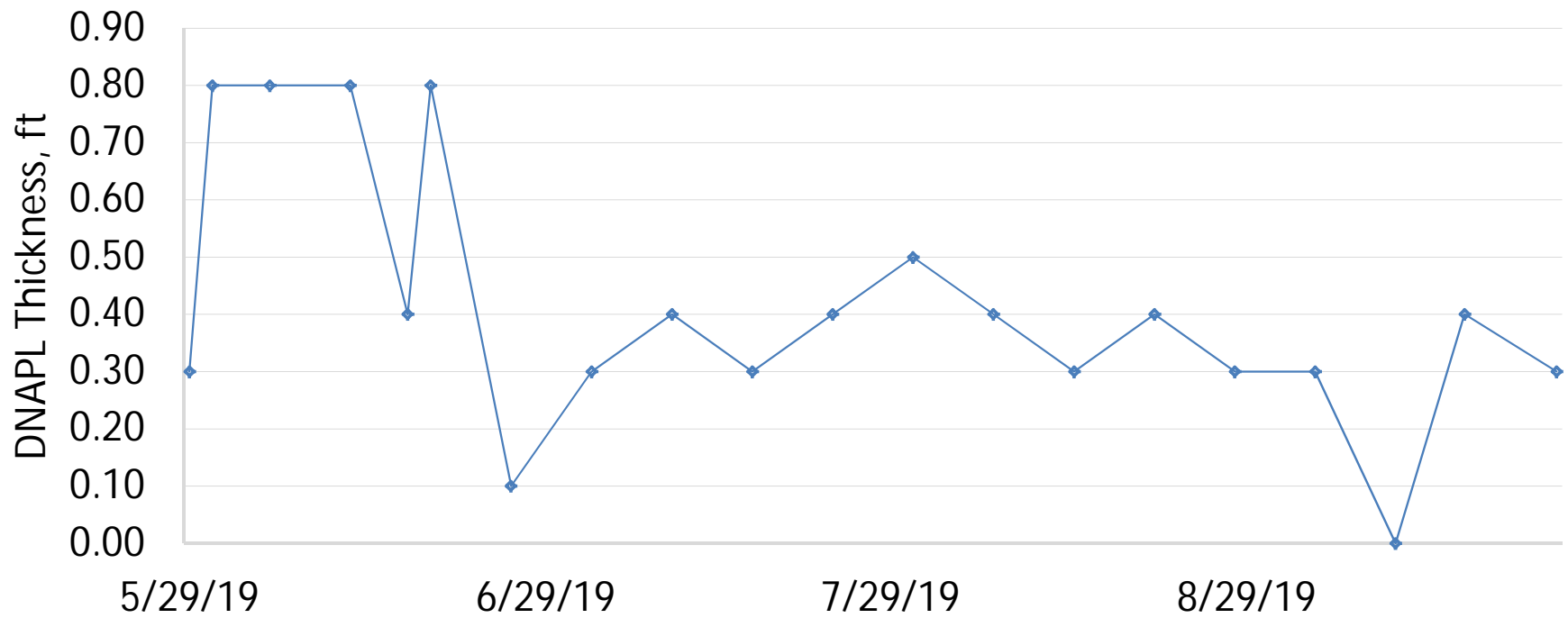
blebs - Blebs were present in the well

- Well does not exist

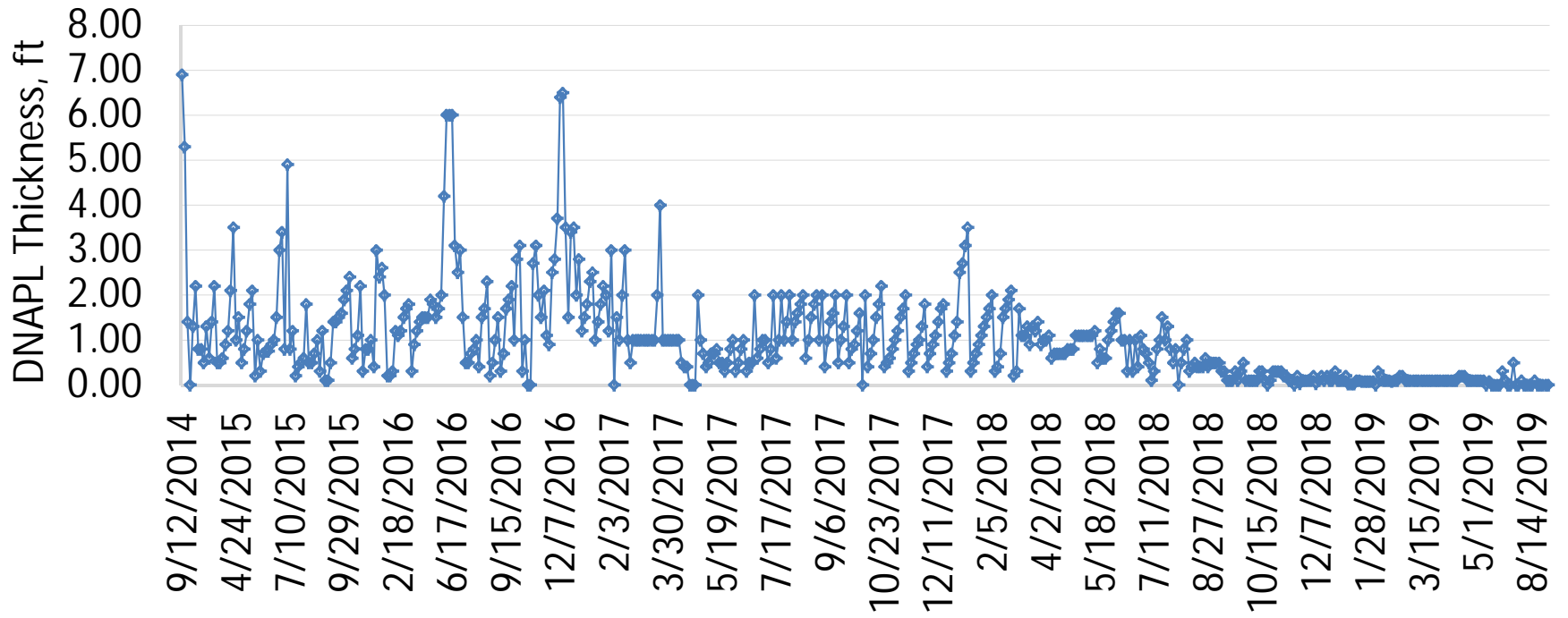
NRW-03, -04, -05, -09, and -11 were abandoned and replacement recovery wells NRW-09R and NRW-11R were installed in April 2017

NRW-01 and NRW-08 were abandoned and replacement recovery wells NRW-01R and NRW-08R were installed in May 2019

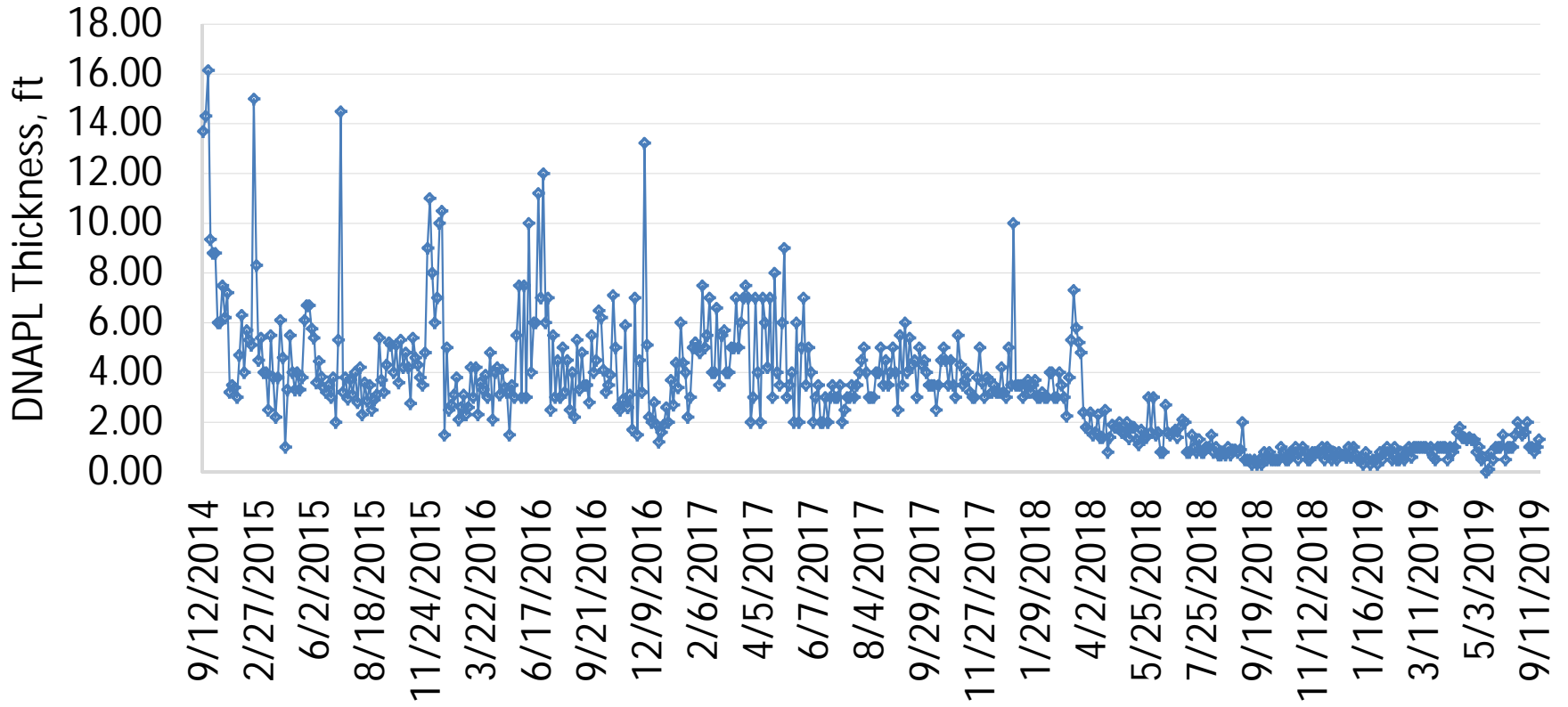
DNAPL in NRW-01R



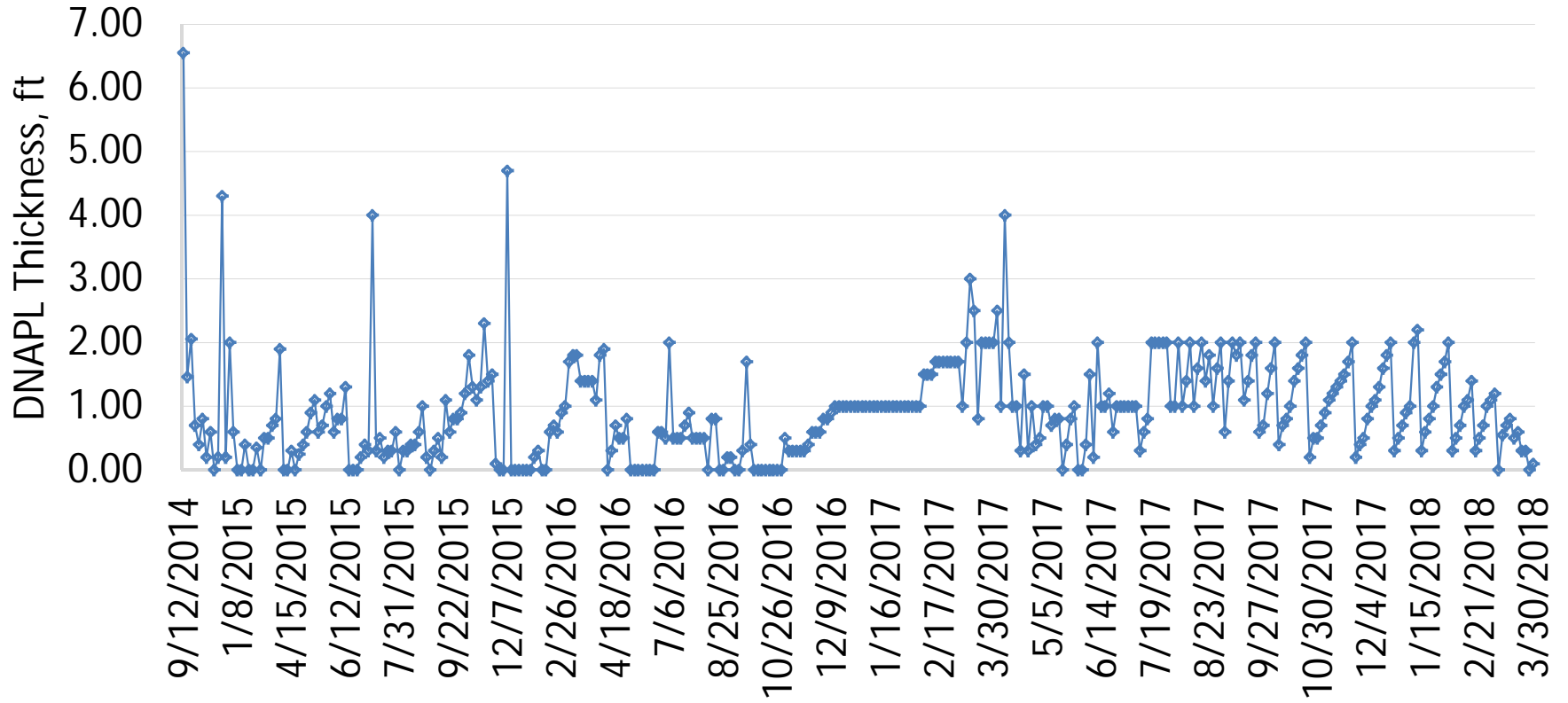
DNAPL in NRW-02



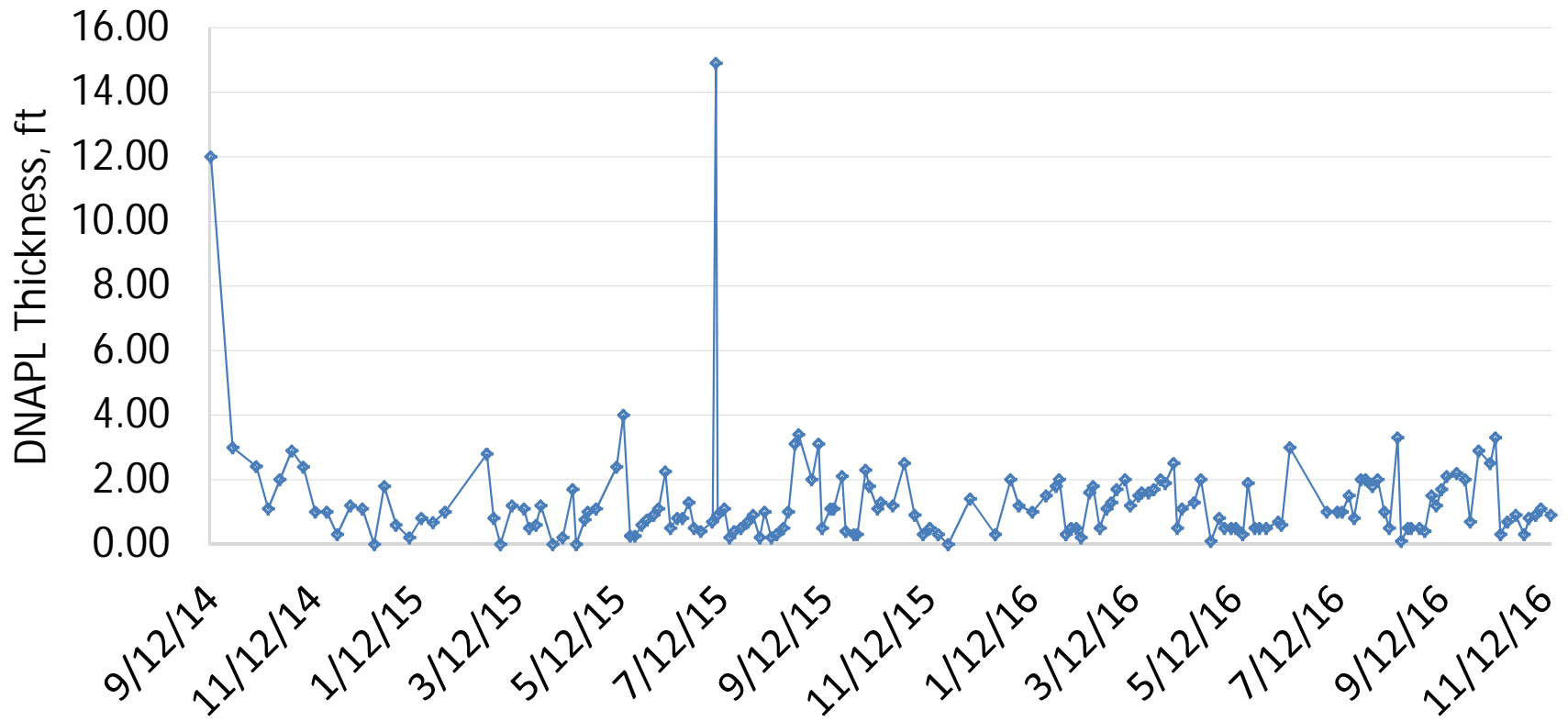
DNAPL in NRW-07



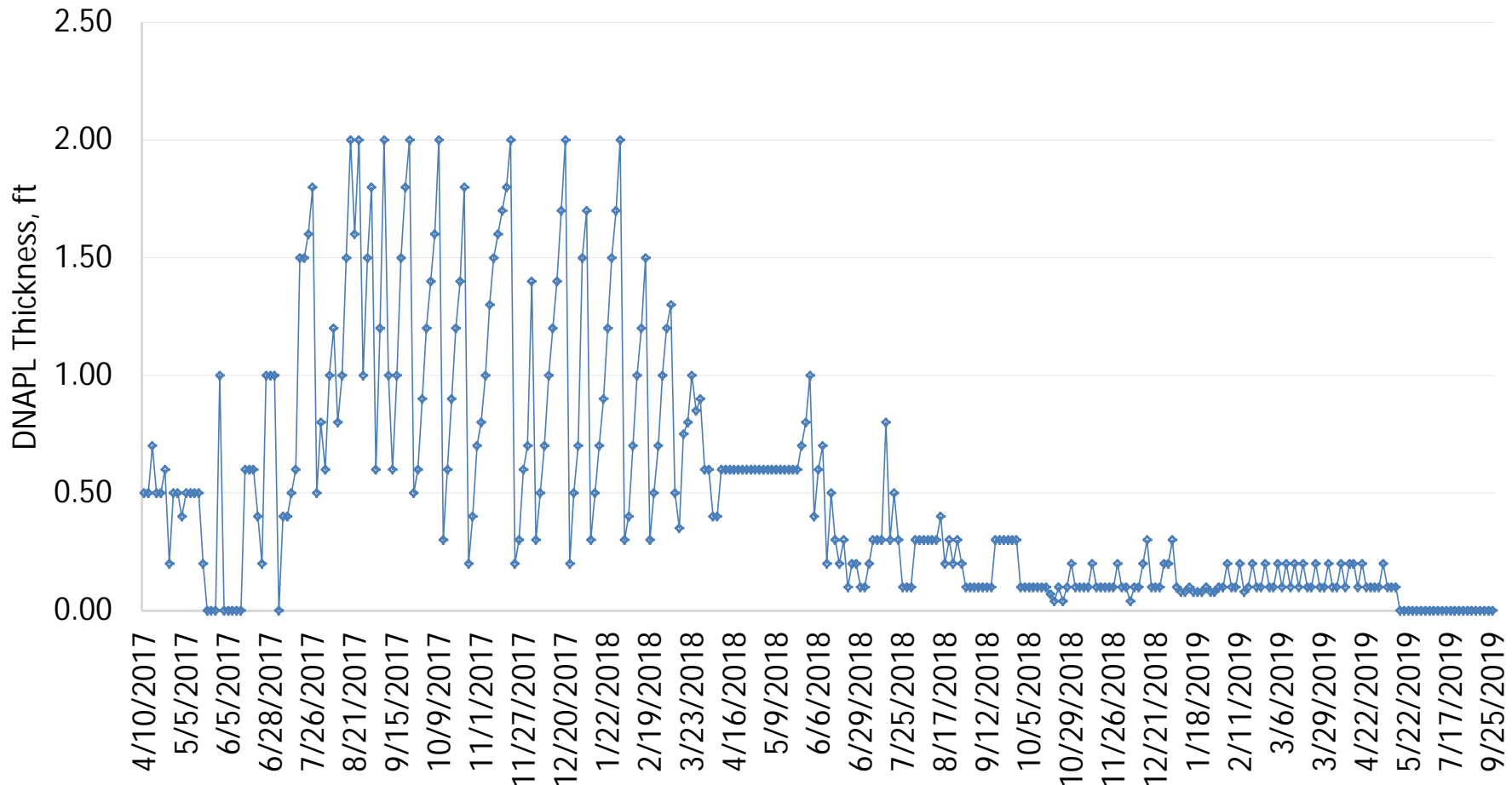
DNAPL in NRW-08



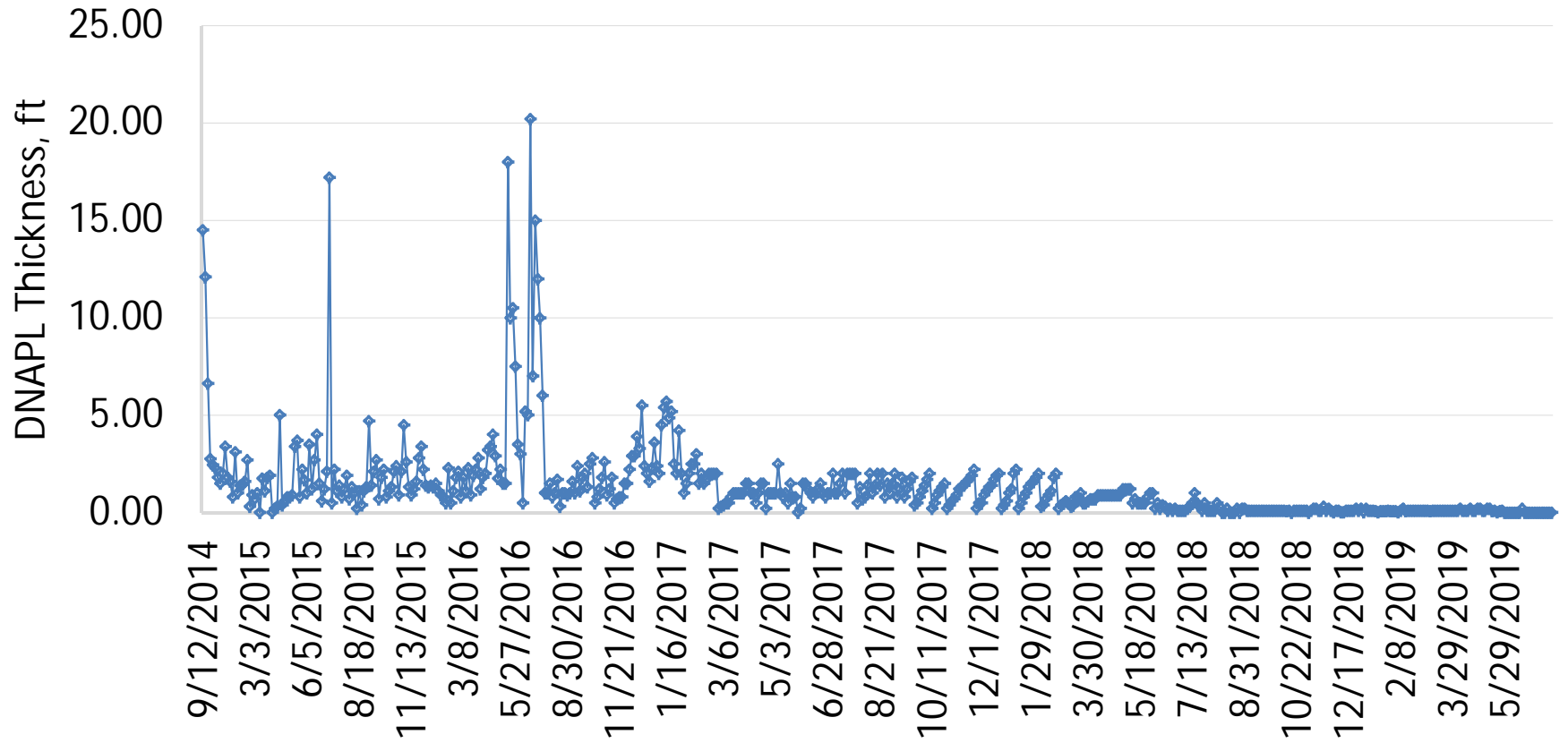
DNAPL in NRW-09



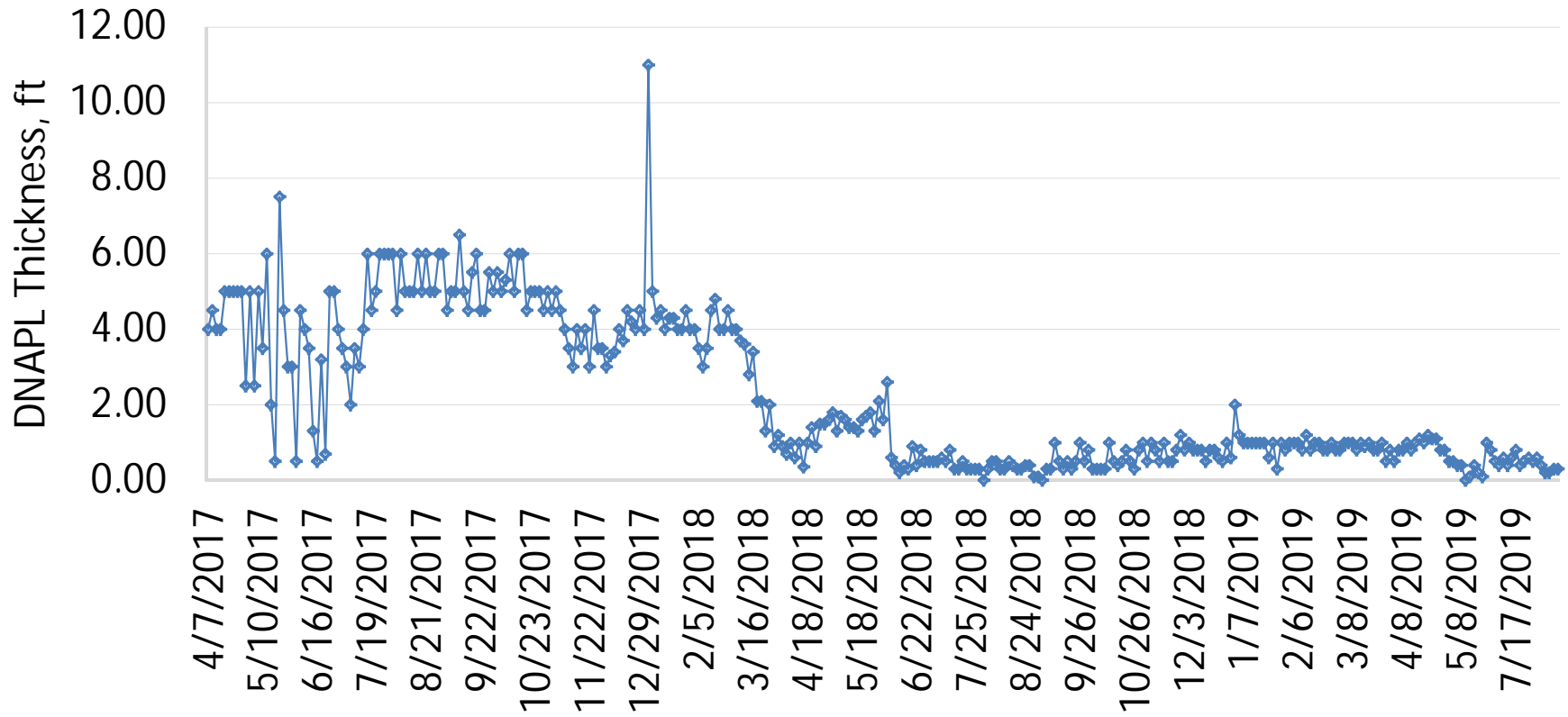
DNAPL in NRW-9R



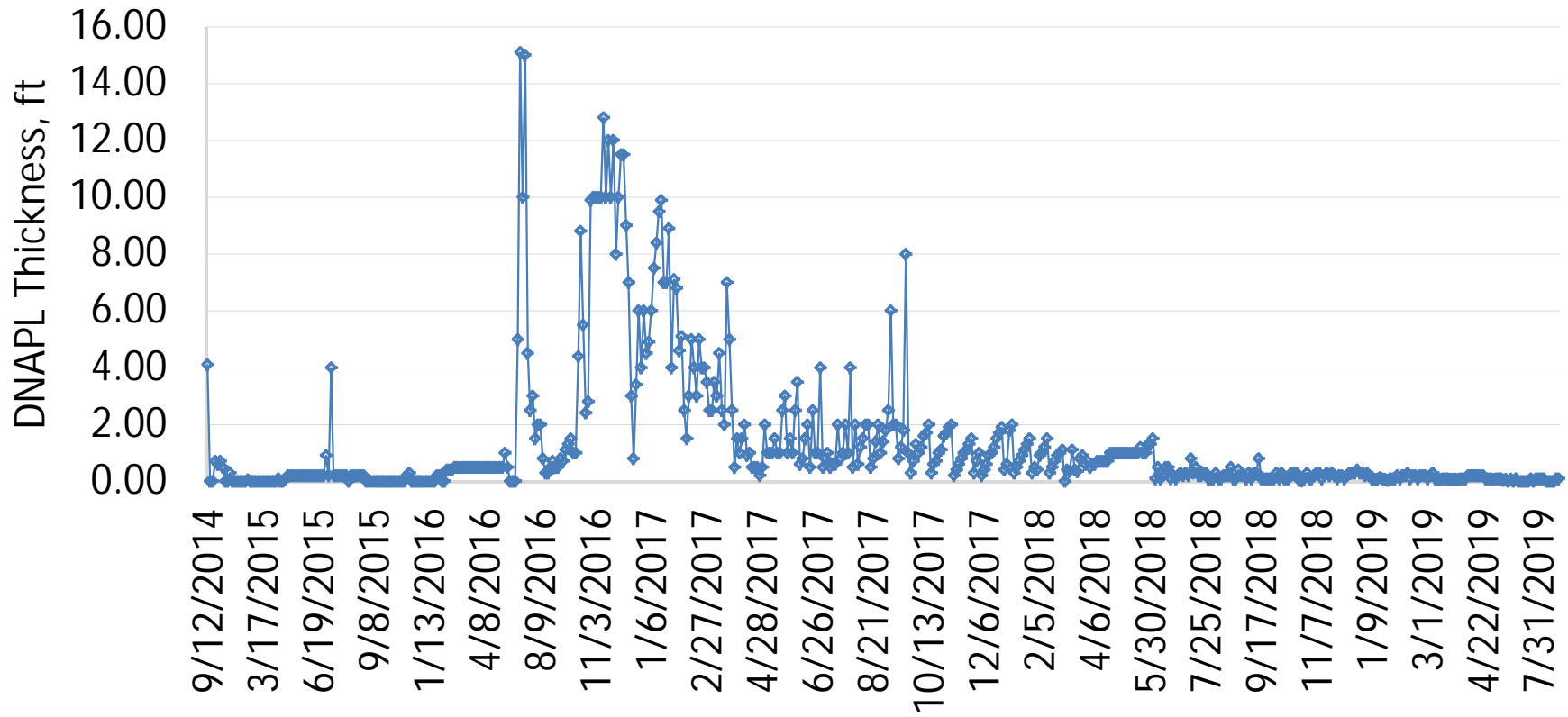
DNAPL in NRW-10



DNAPL in NRW-11R



DNAPL in NRW-12



DNAPL in NRW-13

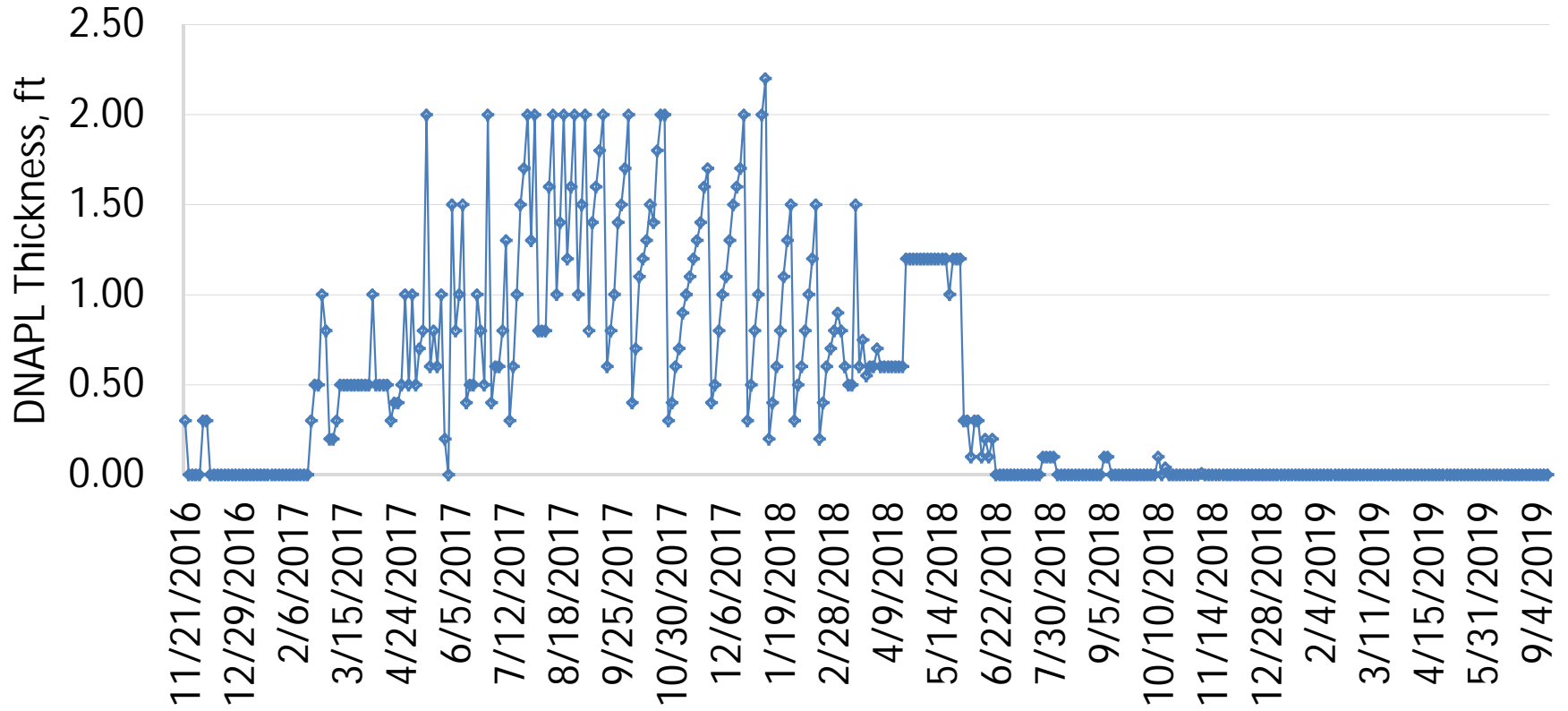
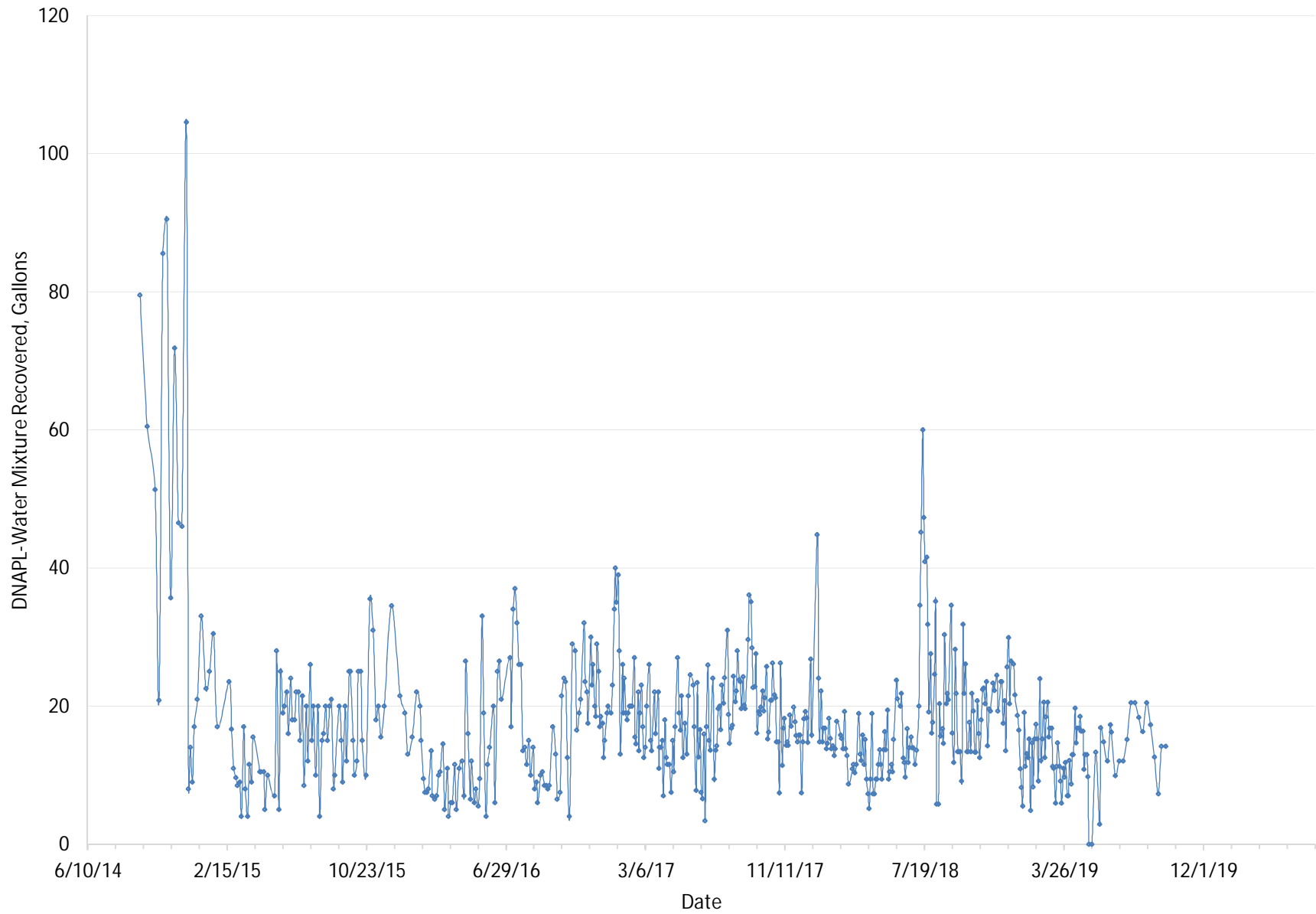


Table 2
Summary of DNAPL-Water Removal
50 Kent Avenue Property Holder Area
Brooklyn, New York

Well ID	50 Kent Avenue Property Holder Area															Event Volume Gallons					
	NRW-01 Gallons	NRW-01R Gallons	NRW-02 Gallons	NRW-03 Gallons	NRW-04 Gallons	NRW-05 Gallons	NRW-06 Gallons	NRW-07 Gallons	NRW-08 Gallons	NRW-08R Gallons	NRW-09 Gallons	NRW-09R Gallons	NRW-10 Gallons	NRW-11 Gallons	NRW-11R Gallons		NRW-12 Gallons	NRW-13 Gallons			
1/25/2019	--		0					--	2	--								2	1	--	5
1/28/2019	--		0					--	6	--								8	0	--	15
1/30/2019	--		0					--	2	--								6	0	--	8
2/1/2019	--		0					--	6	--								8	1	--	15
2/4/2019	--		0					--	8	--								8	0	--	17
2/6/2019	--		0					--	6	--								8	1	--	15
2/8/2019	--		0					--	2	--								6	1	--	9
2/11/2019	--		0					--	8	--								12	2	--	24
2/13/2019	--		1					--	4	--								6	1	--	12
2/15/2019	--		0					--	4	--								10	1	--	15
2/18/2019	--		0					--	8	--								10	1	--	21
2/20/2019	--		0					--	4	--								8	0	--	13
2/22/2019	--		1					--	8	--								8	1	--	18
2/25/2019	--		1					--	8	--								10	1	--	21
2/27/2019	--		0					--	6	--								8	1	--	15
3/1/2019	--		0					--	8	--								8	0	--	17
3/4/2019	--		0					--	8	--								8	0	--	17
3/6/2019	--		0					--	6	--								4	1	--	11
3/8/2019	--		0					--	6	--								4	0	--	11
3/11/2019	--		0					--	2	--								4	0	--	6
3/13/2019	--		0					--	6	--								4	0	--	11
3/15/2019	--		0					--	8	--								6	0	--	15
3/18/2019	--		0					--	6	--								4	0	--	11
3/20/2019	--		0					--	2	--								6	1	--	9
3/22/2019	--		0					--	2	--								4	0	--	6
3/25/2019	--		0					--	6	--								4	0	--	11
3/27/2019	--		0					--	6	--								2	0	--	10
3/29/2019	--		0					--	6	--								4	0	--	12
4/1/2019	--		0					--	4	--								2	0	--	7
4/3/2019	--		0					--	2	--								4	1	--	7
4/5/2019	--		0					--	6	--								4	0	--	12
4/8/2019	--		0					--	2	--								4	1	--	9
4/10/2019	--		0					--	6	--								4	1	--	13
4/12/2019	--		1					--	4	--								3	2	--	13
4/15/2019	--		2					--	8	--								6	2	--	20
4/17/2019	--		2					--	6	--								4	2	--	15
4/19/2019	--		2					--	6	--								6	1	--	17
4/22/2019	--		1					--	6	--								6	2	--	17
4/24/2019	--		1					--	8	--								6	1	--	18
4/26/2019	--		1					--	8	--								6	0	--	16
4/29/2019	--		1					--	8	--								6	0	--	16
5/1/2019	--		1					--	4	--								4	0	--	11
5/3/2019	--		1					--	6	--								4	0	--	13
5/6/2019	--		1					--	6	--								4	1	--	13
5/8/2019	--		--					--	6	--								2	0	--	10
5/10/2019	--		--					--	--	--								--	--	--	0
5/15/2019	--		--					--	--	--								--	--	--	0
5/22/2019	--		--					--	8	--								4	--	--	13
5/29/2019	--		--					--	2	--								1	0	--	3
5/31/2019	--		6					--	8	--								2	--	--	17
6/5/2019	--		4					--	6	--								4	0	--	15
6/12/2019	--		2					--	6	--								4	--	--	12
6/17/2019	--		4					--	10	--								4	--	--	17
6/19/2019	--		9					--	4	--								4	--	--	16
6/26/2019	--		2					--	6	--								2	--	--	10
7/3/2019	--		2					--	8	--								2	--	--	12
7/10/2019	--		4					--	6	--								2	1	--	12
7/17/2019	--		2					--	10	--								4	--	--	15
7/24/2019	--		2					--	16	--								2	1	--	20
7/31/2019	--		4					--	14	--								2	1	--	20
8/7/2019	--		4					--	10	--								4	1	--	18
8/14/2019	--		2					--	10	--								4	1	--	16
8/21/2019	--		4					--	12	--								4	--	--	20
8/28/2019	--		2					--	12	--								4	--	--	17
9/4/2019	--		2					--	10	--								1	--	--	13
9/11/2019	--		--					--	6	--								2	--	--	7
9/17/2019	--		4					--	8	--								2	1	--	14
9/25/2019	--		2					--	10	--								2	1	--	14
Total Gallons To Date	0	54	650	33	70	0	0	4,547	165	1	254	172	930	3	1,944	1004	60	9,887			
Percent of Total	0%	1%	7%	0%	1%	0%	0%	46%	2%	0%	3%	2%	9%	0%	20%	10%	1%	100%			

Note:
 -- DNAPL was not pumped
 Volumes in the table include DNAPL volume as well as the volume of groundwater that may have been pumped along with DNAPL inevitably.
 NRW-03, -04, -05, -09, and -11 were abandoned and replacement recovery wells NRW-09R and NRW-11R were installed in April 2017
 Volume of water in the tube at the beginning of recovery is deducted from the total fluid recovery volume after June 1, 2017.
 -- Well does not exist
 NRW-01 and NRW-08 were abandoned and replacement recovery wells NRW-01R and NRW-08R were installed in May 2019

DNAPL-Water Mixture Recovery



Cumulative DNAPL-Water Mixture Removal

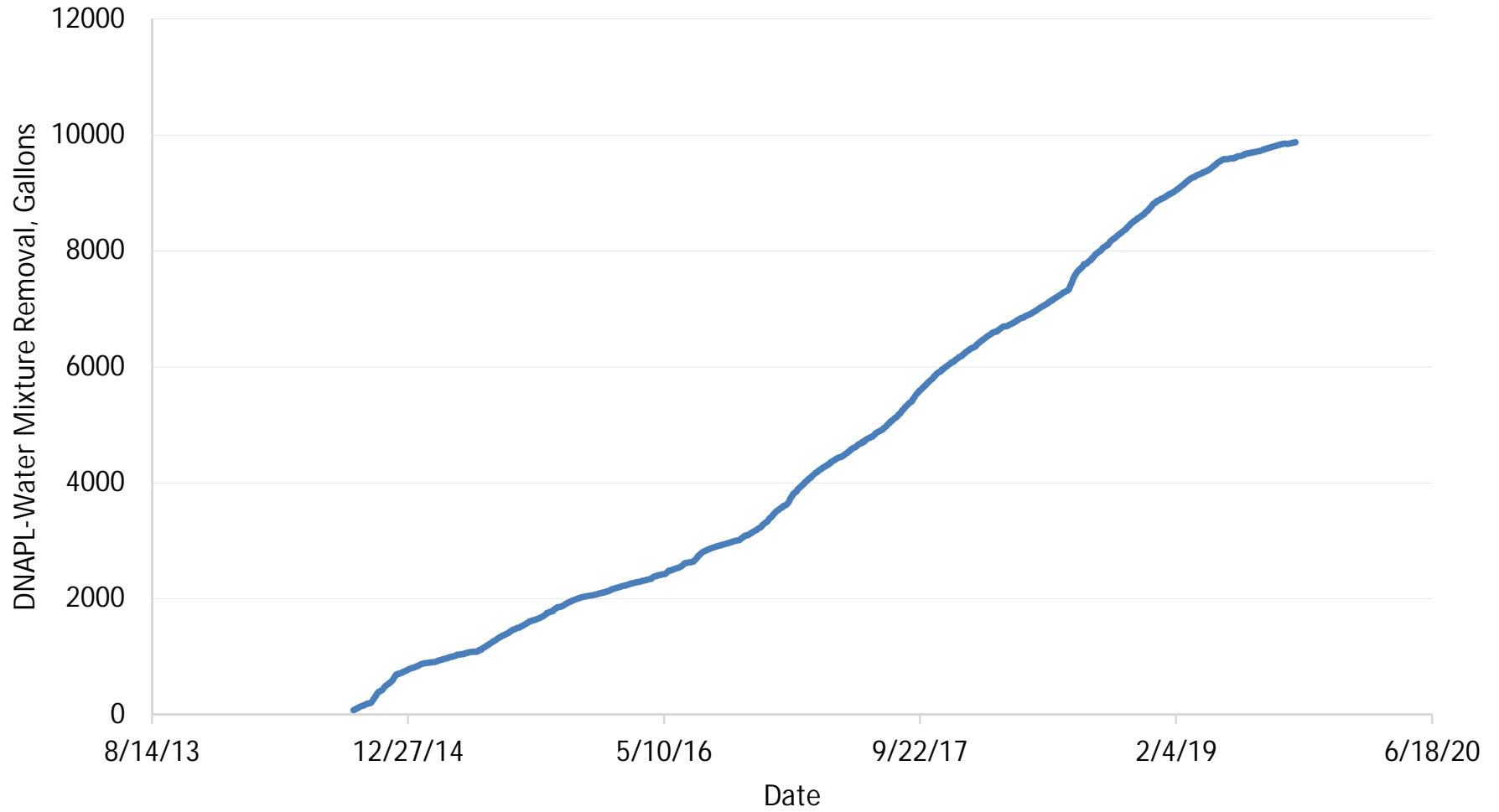


Table 3
 Summary of Depth to Bottom Measurements
 50 Kent Avenue Property Holder Area
 Brooklyn, New York

50 Kent Avenue Property Holder Area												
Well ID	NRW-01	NRW-01R	NRW-02	NRW-06	NRW-07	NRW-08	NRW-08R	NRW-09R	NRW-10	NRW-11R	NRW-12	NRW-13
Date	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet
As-Installed	60.00	58.50	65.00	67.00	63.00	59.00	60.50	60.00	55.00	63.00	60.00	60.00
9/11/2014	60.11		64.52	66.37	61.65	58.31			53.88		59.36	59.45
12/18/2014	60.10		64.50	66.40	61.70	58.30			53.90		59.40	59.50
1/8/2015	60.10		64.50	66.50	61.70	58.30			54.30		59.40	59.50
1/15/2015	60.00		64.70	66.30	61.70	58.50			54.30		59.50	59.60
3/10/2015	NM		NM	NM	61.70	58.30			53.90		59.40	59.50
10/4/2016	59.60		64.50	66.40	NM	58.20			54.50		59.50	59.60
4/26/2017	59.50		62.80	66.40	61.90	57.80		53.50	54.30	58.20	59.40	59.60
5/31/2017	30.70*		62.40	66.50	61.30	57.80		53.20	54.10	59.40	59.40	58.40
7/5/2017	30.70*		62.45	66.45	59.35	57.61		52.96	54.28	58.74	59.47	58.58
8/28/2017	30.70*		62.40	66.50	59.50	57.50		53.10	53.90	58.80	59.60	58.50
11/1/2017	29.80*		62.60	66.30	61.22	56.10		53.50	54.00	58.43	59.85	59.83
11/10/2017	30.75*		62.50	66.31	59.35	57.34		53.33	53.81	58.21	59.14	58.21
1/12/2018	29.45*		62.97	66.50	59.42	58.55		53.11	54.00	58.45	59.00	58.58
2/12/2018	29.55*		62.59	66.50	59.80	57.48		53.00	54.10	58.53	59.70	58.61
3/16/2018	NM		NM	NM	59.50	NM		52.95	NM	58.53	59.40	58.50
4/11/2018	30.70*		62.46	66.41	59.38	28.75*		52.96	53.96	58.48	59.48	58.42
5/2/2018	30.70*		62.30	66.40	59.40	27.00*		52.93	53.94	58.62	54.65	58.49
6/13/2018	30.70*		62.50	66.40	59.40	NM		53.10	54.70	58.80	59.60	58.50
8/8/2018	30.80*		62.55	66.50	59.40	28.55*		53.29	53.89	58.60	59.84	59.96
9/24/2018	30.90*		62.51	66.48	59.45	28.78*		53.28	53.91	59.00	59.84	59.98
10/12/2018	30.80*		62.61	66.60	59.49	28.75*		53.38	53.90	58.97	59.73	59.90
11/2/2018	30.78*		62.20	66.50	59.48	28.70*		53.40	54.01	58.95	59.75	59.96
12/3/2018	30.81*		62.69	66.51	59.30	28.40*		53.39	53.88	58.97	59.63	59.89
1/2/2019	30.72*		62.79	66.53	59.41	28.41*		53.39	54.01	58.99	59.59	59.90
2/4/2019	30.73*		62.31	66.61	59.51	28.69*		53.24	54.04	59.94	59.39	59.60
3/6/2019	30.70*		62.42	66.61	59.50	28.72*		53.28	54.17	59.81	59.71	58.60
4/5/2019	30.73*		62.50	67.00	59.71	28.43*		53.23	54.50	59.68	59.70	58.60
5/1/2019	30.80*		62.60	66.46	59.51	28.70*		53.27	54.30	59.66	59.69	58.60
5/10/2019			64.12	NM	59.50			57.85	53.99	62.50	59.56	NM
5/29/2019		58.35	64.02	66.40	61.30		59.90	58.50	54.85	62.35	59.55	59.20
6/5/2019		58.30	64.10	66.39	61.41		59.60	58.47	54.80	62.55	59.55	59.15
6/26/2019		58.64	64.24	66.40	61.76		59.75	58.50	53.95	62.54	59.50	59.20
7/3/2019		58.60	64.12	66.40	61.73		59.71	58.44	53.94	62.54	59.52	59.18
7/10/2019		58.55	64.15	66.40	61.40		59.75	58.35	53.95	62.55	59.50	59.15
7/17/2019		58.60	64.25	66.40	61.40		59.80	58.35	53.95	62.55	59.55	59.15
7/24/2019		58.60	64.25	66.40	61.40		59.80	58.35	53.95	62.55	59.55	59.15
7/31/2019		58.65	64.20	66.40	61.50		59.80	58.35	53.95	62.55	59.50	59.15
8/7/2019		58.55	64.20	66.40	61.45		59.80	58.35	53.90	62.55	59.50	59.15
8/14/2019		58.55	64.22	66.40	61.40		59.88	58.35	53.95	62.55	59.50	59.15
8/21/2019		58.56	64.20	66.40	61.42		59.88	58.35	53.95	62.55	59.55	59.15
8/28/2019		58.55	64.20	66.40	61.40		59.80	58.30	53.90	62.55	59.55	59.15
9/4/2019		58.55	64.20	66.40	61.45		59.80	58.35	53.90	62.55	59.50	59.15
9/11/2019		58.55	64.25	66.40	61.45		59.80	58.35	53.90	62.55	59.50	59.15
9/17/2019		58.55	64.20	66.40	61.45		59.80	58.35	53.95	62.55	59.55	59.15
9/25/2019		58.55	64.20	66.40	61.40		59.80	58.35	53.90	62.50	59.50	59.15

NM - Not Measured

- Well does not exist

NRW-03, -04, -05, -09, and -11 were abandoned and replacement recovery wells NRW-09R and NRW-11R were installed in April 2017

* - Depths measured are not true bottom of the well measurements due to obstructions. National Grid is making efforts to secure access with NYC Parks to remove obstructions and rehabilitate these and other recovery wells.

NRW-01 and NRW-08 were abandoned on 5/14/19 and 5/22/19, respectively, due to obstruction that couldn't be removed

NRW-01R and NRW-08R were installed on 5/21/19 and 5/24/19, respectively, to replace NRW-01 and NRW-08, in location approved by the NYSDEC