

**Table 4-1  
Groundwater Elevation Measurements - September 5, 2018  
Hoffmann-La Roche Inc. Site - Nutley, New Jersey**

Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	September 5, 2018 (3Q 2018)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (ft MSL)	Depth to Water (ft bgs) (Measured on 9-5-18)	Groundwater Elevation (ft MSL) (Measured on 9-5-18)	Depth to Product (ft bgs) (Measured on 9-5-18)	Product Thickness (ft) (Measured on 9-5-18)	PID Headspace (ppm) (Measured on 9-5-18)	
131RI-MW1	IA-10	1W	S1	115.37	2.50	112.87	ND	ND	ND	
187RI-MW2	IA-10	2W	S1	110.69	4.50	106.19	ND	ND	ND	
187RI-MW3	IA-10	2W	S1	107.94	3.97	103.97	ND	ND	ND	
66RI-MW4	IA-10	OVB	S1	118.01	1.34	116.67	ND	ND	ND	
DW-11B	Off-Site - Funston Pl.	5E	D1	103.08	4.89	98.19	ND	ND	2.6	X
DW-11D	Off-Site - Funston Pl.	5E	D3	103.34	7.93	95.41	ND	ND	0.6	
DW-12A	IA-04	4W	D1	120.96	16.97	103.99	ND	ND	0.6	X
DW-12B	IA-04	5W	D1	120.73	22.90	97.83	ND	ND	ND	X
DW-12CR	IA-04	5W	D3	121.06	24.19	96.87	ND	ND	ND	
DW-13A	IA-10	3W	S3	108.25	6.46	101.79	ND	ND	ND	
DW-13B	IA-10	5W	D1	109.01	12.00	97.01	ND	ND	ND	X
DW-13-D2	IA-10	5W	D2	108.66	11.64	97.02	ND	ND	ND	
DW-14A	IA-10	4W	D1	116.34	11.26	105.08	ND	ND	ND	
DW-14B	IA-10	5W	D2	115.70	17.55	98.15	ND	ND	ND	X
DW-14C	IA-10	5W	D3	115.92	16.04	99.88	ND	ND	ND	
DW-15A	IA-10	3W	D1	121.61	15.40	106.21	ND	ND	ND	X
DW-16A	IA-10	3W	D1	124.16	18.90	105.26	ND	ND	ND	X
DW-16B	IA-10	4W	D2	125.02	20.88	104.14	ND	ND	ND	X
DW-16C	IA-10	5W	D3	125.68	61.21	64.47	ND	ND	ND	
DW-17C	IA-14	5E	D1	75.26	14.56	60.70	ND	ND	0.6	
DW-17D	IA-14	5E	D2	74.61	20.54	54.07	ND	ND	ND	
DW-18C	Off-Site - Lois Ave.	5E	D1	132.01	68.97	63.04	ND	ND	11.8	
DW-18D	Off-Site - Lois Ave.	5E	D3	131.61	95.24	36.37	ND	ND	8.1	
DW-1B	Off-Site - Terrace Ave.	5E	S1	106.56	9.95	96.61	ND	ND	ND	
DW-1C	Off-Site - Terrace Ave.	5E	D1	107.08	24.76	82.32	ND	ND	0.6	
DW-1D	Off-Site - Terrace Ave.	5E	D3	106.33	42.85	63.48	ND	ND	0.6	
DW-20D	IA-09	5W	D4	114.06	21.94	92.12	ND	ND	55.5	
DW-21A	IA-04	5W	D1	120.66	16.54	104.12	ND	ND	ND	
DW-21D	IA-04	5W	D3	121.03	--	No DTW	--	--	--	
DW-22D	IA-04	5W	D4	119.87	27.34	92.53	ND	ND	ND	
DW-23D	IA-03	5E	D4	155.72	--	No DTW	--	--	--	
DW-24	Off-Site - Colonial Terrace	5E	D1	132.56	69.47	63.09	ND	ND	ND	
DW-25A	IA-15	5E	D1	96.71	2.35	94.36	ND	ND	7.3	
DW-25B	IA-15	5E	D2	96.45	5.60	90.85	ND	ND	ND	
DW-25C	IA-15	5E	D3	96.59	8.78	87.81	ND	ND	0.3	
DW-25D	IA-15	5E	D4	96.43	31.40	65.03	ND	ND	2.9	
DW-25-D1	IA-15	5E	D1	96.44	26.03	70.41	ND	ND	ND	
DW-27A	IA-10	3W	D1	123.81	17.24	106.57	ND	ND	ND	
DW-27B	IA-10	5W	D2	124.12	23.40	100.72	ND	ND	ND	X
DW-27C	IA-10	5W	D3	123.58	23.34	100.24	ND	ND	ND	
DW-28A	IA-12	5E	D1	149.58	51.20	98.38	ND	ND	ND	
DW-28B	IA-12	5E	D2	149.20	50.04	99.16	ND	ND	3.8	
DW-29A	IA-12	5E	D1	136.71	37.29	99.42	ND	ND	0.3	
DW-29B	IA-12	5E	D2	137.00	38.95	98.05	ND	ND	4.5	
DW-29C	IA-12	5E	D3	137.86	39.90	97.96	ND	ND	1.7	
DW-2B	IA-12	5E	S3	157.15	59.16	97.99	ND	ND	ND	X
DW-2D	IA-12	5E	D3	158.23	60.28	97.95	ND	ND	ND	
DW-2-D1	IA-12	5E	D1	158.71	60.23	98.48	ND	ND	0.7	
DW-2-D2	IA-12	5E	D2	158.75	55.38	103.37	ND	ND	3.1	
DW-30A	IA-12	5W	D1	120.18	19.2	100.98	ND	ND	ND	
DW-30B	IA-12	5W	D2	120.33	20.41	99.92	ND	ND	ND	
DW-31A	IA-12	4W	D1	135.92	31.03	104.89	ND	ND	3	
DW-31B	IA-12	5W	D2	135.62	220.49	-84.87	ND	ND	ND	
DW-31C	IA-12	5W	D3	135.31	323.33	-188.02	ND	ND	ND	
DW-32A	IA-12	3W	D1	119.93	14.03	105.90	ND	ND	ND	X
DW-32B	IA-12	5W	D2	120.09	21.42	98.67	ND	ND	ND	
DW-33A	IA-10	2W	D1	122.05	10.6	111.45	ND	ND	ND	
DW-33B	IA-10	4W	D2	121.95	17.42	104.53	ND	ND	ND	X
DW-33C	IA-10	5W	D3	121.30	58.21	63.09	ND	ND	ND	
DW-34A	Private Road	2W	D1	153.18	34.44	118.74	ND	ND	1.2	
DW-34B	Private Road	3W	D2	153.57	44.23	109.34	ND	ND	1.3	X
DW-36A	IA-03	5E	D1	160.98	--	No DTW	--	--	--	
DW-36B	IA-03	5E	D2	160.61	--	No DTW	--	--	--	
DW-37A	IA-07	5E	D1	153.83	56.22	97.61	ND	ND	ND	
DW-37B	IA-07	5E	D2	153.46	56.50	96.96	ND	ND	ND	
DW-38A	IA-07	5E	D1	148.97	52.74	96.23	ND	ND	ND	
DW-38B	IA-07	5E	D2	148.99	82.67	66.32	ND	ND	ND	
DW-38C	IA-07	5E	D3	151.66	77.98	73.68	ND	ND	ND	
DW-39A	IA-13	5E	D1	115.30	51.94	63.36	ND	ND	1.1	
DW-39B	IA-13	5E	D2	114.88	58.98	55.90	ND	ND	0.9	
DW-39C	IA-13	5E	D3	114.46	51.28	63.18	ND	ND	ND	
DW-3B	IA-07	5E	S3	144.58	47.55	97.03	ND	ND	ND	
DW-3C	IA-07	5E	D1	144.72	47.75	96.97	ND	ND	ND	
DW-3-D2	IA-07	5E	D2	144.81	80.80	64.01	ND	ND	ND	
DW-40A	IA-10	5W	D1	103.88	1.89	101.99	ND	ND	6.3	
DW-40B	IA-10	5W	D2	104.04	9.13	94.91	ND	ND	ND	
DW-40C	IA-10	5W	D3	104.10	0.01	104.09	ND	ND	ND	
DW-41C	IA-03	5E	D3	118.77	21.33	97.44	ND	ND	ND	
DW-42A	IA-11	5E	D1	101.48	6.83	94.65	ND	ND	3	
DW-43A	IA-07	5E	D1	109.35	12.52	96.83	ND	ND	ND	X

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Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	September 5, 2018 (3Q 2018)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (ft MSL)	Depth to Water (ft bgs) (Measured on 9-5-18)	Groundwater Elevation (ft MSL) (Measured on 9-5-18)	Depth to Product (ft bgs) (Measured on 9-5-18)	Product Thickness (ft) (Measured on 9-5-18)	PID Headspace (ppm) (Measured on 9-5-18)	
DW-45A	IA-07	5E	D1	114.50	16.20	98.30	ND	ND	ND	
DW-46A	IA-11	5E	D1	108.23	12.12	96.11	ND	ND	ND	
DW-47A	Off-Site	5E	D1	101.26	5.96	95.30	ND	ND	1.8	
DW-49A	Off-Site	5E	D1	100.76	30.71	70.05	ND	ND	ND	
DW-4C	Off-Site - Nichols Park (Cottage Pl. - Woods)	5E	D1	104.14	37.86	66.28	ND	ND	1.2	
DW-4D	Off-Site - Nichols Park (Cottage Pl. - Woods)	5E	D3	104.09	26.31	77.78	ND	ND	0.6	
DW-50B	IA-07	5E	D1	149.13	59.90	89.23	ND	ND	ND	
DW-50C	IA-07	5E	D2	148.93	51.43	97.50	ND	ND	ND	
DW-51A	IA-11	5E	D1	103.94	9.90	94.04	ND	ND	ND	
DW-52A	IA-11	5E	D1	103.10	8.98	94.12	ND	ND	ND	
DW-53A	IA-13	5E	D1	106.67	10.86	95.81	ND	ND	ND	
DW-54A	IA-13	5E	D1	107.27	18.32	88.95	ND	ND	3.2	
DW-55A	IA-15	5E	D1	96.87	2.34	94.53	ND	ND	ND	
DW-57A	IA-07	5E	D1	147.92	45.43	102.49	ND	ND	ND	
DW-58A	IA-07	5E	D1	137.27	40.14	97.13	ND	ND	ND	
DW-59A	IA-07	5E	D1	140.85	43.78	97.07	ND	ND	ND	
DW-5B	IA-12	4E	D1	138.14	36.75	101.39	ND	ND	7	
DW-5C	IA-12	5E	D2	138.14	40.10	98.04	ND	ND	ND	
DW-60A	IA-12	5E	D1	143.73	44.79	98.94	ND	ND	ND	
DW-61A	IA-12	5E	D1	150.40	52.2	98.20	ND	ND	1	
DW-62A	IA-07	5E	D1	128.32	31.04	97.28	ND	ND	ND	
DW-63A	IA-13	5E	D1	102.82	7.75	95.07	ND	ND	3.8	
DW-64A	Off-Site - DOT Rt. 3 West ROW	5E	D1	147.79	49.63	98.16	ND	ND	ND	
DW-65-105-S3	IA-12	3W	S3	137.71	29.17	108.54	--	--	--	
DW-65-119-S3	IA-12	3W	S3	137.71	-5.80	143.51	--	--	--	
DW-65-126-S3	IA-12	3W	S3	137.71	30.19	107.52	--	--	--	
DW-65-136-S3	IA-12	3W	S3	137.71	30.77	106.94	--	--	--	X
DW-65-145-D1	IA-12	3W	D1	137.71	31.29	106.42	--	--	--	X
DW-65-154-D1	IA-12	3W	D1	137.71	31.38	106.33	--	--	--	
DW-65-167-D1	IA-12	4W	D1	137.71	31.79	105.92	--	--	--	
DW-65-176-D1	IA-12	4W	D1	137.71	32.42	105.29	--	--	--	
DW-65-185-D1	IA-12	4W	D1	137.71	32.41	105.30	--	--	--	
DW-65-199-D1	IA-12	4W	D1	137.71	32.43	105.28	--	--	--	X
DW-65-211-D1	IA-12	4W	D1	137.71	32.49	105.22	--	--	--	
DW-65-221-D1	IA-12	5W	D1	137.71	39.05	98.66	--	--	--	
DW-65-239-D2	IA-12	5W	D2	137.71	39.15	98.56	--	--	--	X
DW-65-249-D2	IA-12	5W	D2	137.71	39.17	98.54	--	--	--	
DW-65-262-D2	IA-12	5W	D2	137.71	39.21	98.50	--	--	--	
DW-65-302-D2	IA-12	5W	D2	137.71	39.12	98.59	--	--	--	
DW-65-331-D2	IA-12	5W	D2	137.71	38.90	98.81	--	--	--	
DW-65-350-D2	IA-12	5W	D2	137.71	39.24	98.47	--	--	--	
DW-65-60-S2	IA-12	2W	S2	137.71	21.34	116.37	--	--	--	
DW-65-66-S2	IA-12	2W	S2	137.71	22.71	115.00	--	--	--	
DW-65-73-S2	IA-12	2W	S2	137.71	22.69	115.02	--	--	--	
DW-65-84-S2	IA-12	2W	S2	137.71	22.72	114.99	--	--	--	
DW-65-91-S3	IA-12	2W	S3	137.71	26.94	110.77	--	--	--	
DW-65-96-S3	IA-12	2W	S3	137.71	27.02	110.69	--	--	--	X
DW-67A	IA-01	5W	D1	120.05	22.09	97.96	ND	ND	ND	X
DW-67B	IA-01	5W	D2	120.00	21.86	98.14	ND	ND	ND	
DW-68A	IA-01	5W	D1	118.00	20.13	97.87	ND	ND	ND	X
DW-68B	IA-01	5W	D2	118.05	20.44	97.61	ND	ND	ND	
DW-69-104-S3	Off-Site	1W	S3	142.35	16.90	125.45	--	--	--	
DW-69-114-S3	Off-Site	1W	S3	142.35	16.94	125.41	--	--	--	
DW-69-134-S3	Off-Site	1W	S3	142.35	18.06	124.29	--	--	--	
DW-69-142-S3	Off-Site	2W	S3	142.35	19.85	122.50	--	--	--	
DW-69-150-D1	Off-Site	2W	D1	142.35	25.22	117.13	--	--	--	
DW-69-160-D1	Off-Site	2W	D1	142.35	25.34	117.01	--	--	--	
DW-69-171-D1	Off-Site	2W	D1	142.35	26.28	116.07	--	--	--	
DW-69-186-D1	Off-Site	2W	D1	142.35	31.05	111.30	--	--	--	
DW-69-195-D1	Off-Site	2W	D1	142.35	31.41	110.94	--	--	--	
DW-69-213-D1	Off-Site	2W	D1	142.35	30.68	111.67	--	--	--	
DW-69-224-D1	Off-Site	2W	D1	142.35	34.58	107.77	--	--	--	
DW-69-234-D1	Off-Site	3W	D1	142.35	37.55	104.80	--	--	--	
DW-69-246-D2	Off-Site	3W	D2	142.35	38.25	104.10	--	--	--	
DW-69-260-D2	Off-Site	3W	D2	142.35	38.87	103.48	--	--	--	
DW-69-270-D2	Off-Site	3W	D2	142.35	38.93	103.42	--	--	--	X
DW-69-283-D2	Off-Site	3W	D2	142.35	39.00	103.35	--	--	--	X
DW-69-303-D2	Off-Site	4W	D2	142.35	38.60	103.75	--	--	--	
DW-69-375-D2	Off-Site	4W	D2	142.35	38.29	104.06	--	--	--	
DW-69-70-S2	Off-Site	1W	S2	142.35	16.50	125.85	--	--	--	
DW-69-86-S2	Off-Site	1W	S2	142.35	16.85	125.50	--	--	--	
DW-6B	IA-07	5E	D1	117.93	20.32	97.61	ND	ND	ND	X
DW-6C	IA-07	5E	D2	117.93	20.10	97.83	ND	ND	ND	
DW-6D	IA-07	5E	D3	118.29	25.10	93.19	ND	ND	ND	
DW-70-114-S3	Off-Site	1W	S3	121.08	3.94	117.14	--	--	--	
DW-70-123-D1	Off-Site	2W	D1	121.08	5.88	115.20	--	--	--	
DW-70-131-D1	Off-Site	2W	D1	121.08	6.12	114.96	--	--	--	
DW-70-140-D1	Off-Site	2W	D1	121.08	6.07	115.01	--	--	--	
DW-70-150-D1	Off-Site	2W	D1	121.08	6.15	114.93	--	--	--	X
DW-70-160-D1	Off-Site	2W	D1	121.08	6.27	114.81	--	--	--	X

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				Measuring Point Elevation (ft MSL)	Depth to Water (ft bgs) (Measured on 9-5-18)	Groundwater Elevation (ft MSL) (Measured on 9-5-18)	Depth to Product (ft bgs) (Measured on 9-5-18)	Product Thickness (ft) (Measured on 9-5-18)	PID Headspace (ppm) (Measured on 9-5-18)	
DW-70-174-D1	Off-Site	3W	D1	121.08	14.84	106.24	--	--	--	
DW-70-189-D1	Off-Site	3W	D1	121.08	15.33	105.75	--	--	--	X
DW-70-205-D1	Off-Site	3W	D1	121.08	15.42	105.66	--	--	--	X
DW-70-219-D1	Off-Site	3W	D1	121.08	15.47	105.61	--	--	--	
DW-70-231-D2	Off-Site	4W	D2	121.08	16.15	104.93	--	--	--	
DW-70-241-D2	Off-Site	4W	D2	121.08	16.22	104.86	--	--	--	
DW-70-261-D2	Off-Site	4W	D2	121.08	16.38	104.70	--	--	--	X
DW-70-285-D2	Off-Site	4W	D2	121.08	16.54	104.54	--	--	--	
DW-70-350-D2	Off-Site	5W	D2	121.08	-1.93	123.01	--	--	--	
DW-70-53-S2	Off-Site	1W	S2	121.08	2.66	118.42	--	--	--	
DW-70-72-S3	Off-Site	1W	S3	121.08	3.38	117.70	--	--	--	
DW-70-83-S3	Off-Site	1W	S3	121.08	3.38	117.70	--	--	--	X
DW-70-94-S3	Off-Site	1W	S3	121.08	-19.51	140.59	--	--	--	
DW-72-113-S3	Off-Site	4E	S3	155.73	51.62	104.11	--	--	--	
DW-72-120-S3	Off-Site	4E	S3	155.73	51.92	103.81	--	--	--	
DW-72-136-S3	Off-Site	4E	S3	155.73	52.19	103.54	--	--	--	X
DW-72-146-S3	Off-Site	4E	S3	155.73	51.99	103.74	--	--	--	X
DW-72-167-D1	Off-Site	5E	D1	155.73	55.32	100.41	--	--	--	
DW-72-176-D1	Off-Site	5E	D1	155.73	55.78	99.95	--	--	--	X
DW-72-202-D1	Off-Site	5E	D1	155.73	55.88	99.85	--	--	--	
DW-72-217-D1	Off-Site	5E	D1	155.73	32.91	122.82	--	--	--	
DW-72-224-D1	Off-Site	5E	D1	155.73	55.76	99.97	--	--	--	
DW-72-237-D1	Off-Site	5E	D1	155.73	56.17	99.56	--	--	--	
DW-72-246-D1	Off-Site	5E	D1	155.73	55.43	100.30	--	--	--	
DW-72-263-D2	Off-Site	5E	D2	155.73	56.92	98.81	--	--	--	
DW-72-276-D2	Off-Site	5E	D2	155.73	55.89	99.84	--	--	--	
DW-72-288-D2	Off-Site	5E	D2	155.73	57.42	98.31	--	--	--	
DW-72-299-D2	Off-Site	5E	D2	155.73	57.41	98.32	--	--	--	
DW-72-316-D2	Off-Site	5E	D2	155.73	57.47	98.26	--	--	--	
DW-72-330-D2	Off-Site	5E	D2	155.73	57.51	98.22	--	--	--	
DW-72-375-D2	Off-Site	5E	D2	155.73	57.64	98.09	--	--	--	
DW-72-63-S1	Off-Site	2E	S1	155.73	37.42	118.31	--	--	--	
DW-72-84-S2	Off-Site	3E	S2	155.73	39.19	116.54	--	--	--	X
DW-72-99-S2	Off-Site	3E	S2	155.73	40.50	115.23	--	--	--	
DW-7A	Off-Site - DOT Rt. 3 West ROW	3E	D1	122.81	17.92	104.89	ND	ND	ND	
DW-7B	Off-Site - DOT Rt. 3 West ROW	4E	D1	123.23	20.03	103.20	ND	ND	0.4	
DW-7C	Off-Site - DOT Rt. 3 West ROW	5E	D2	123.33	24.35	98.98	ND	ND	ND	
DW-7D	Off-Site - DOT Rt. 3 West ROW	5E	D3	122.83	21.12	101.71	ND	ND	4.5	
DW-8A	IA-12	4E	D1	122.51	17.62	104.89	ND	ND	7.7	
DW-8B	IA-12	5E	D1	122.19	23.41	98.78	ND	ND	ND	
DW-8C	IA-12	5E	D2	122.68	24.23	98.45	ND	ND	213.6	
DW-8D	IA-12	5E	D3	122.42	19.48	102.94	ND	ND	8.4	
DW-9A	IA-03	3E	S3	121.67	18.34	103.33	ND	ND	ND	
DW-9B	IA-03	5E	D1	121.58	22.00	99.58	ND	ND	ND	X
DW-9D	IA-03	5E	D3	121.52	21.85	99.67	ND	ND	ND	
MW-1	IA-01	2W	S1	119.24	3.35	115.89	ND	ND	ND	X
MW-100	IA-11	4E	S1	102.42	9.60	92.82	ND	ND	ND	X
MW-101	IA-11	4E	S1	101.59	8.63	92.96	ND	ND	ND	X
MW-102	IA-11	3E	S1	100.82	7.86	92.96	ND	ND	ND	X
MW-103A	Off-Site - Nichols Park	OVB	S1	99.93	5.87	94.06	ND	ND	ND	X
MW-103B	Off-Site - Nichols Park	4W	S2	99.52	2.20	97.32	ND	ND	ND	X
MW-104A	Off-Site - Nichols Park	OVB	S1	97.13	4.61	92.52	ND	ND	ND	
MW-104B	Off-Site - Nichols Park	3E	S2	97.05	3.56	93.49	ND	ND	ND	
MW-104C	Off-Site - Nichols Park	4E	S3	97.58	2.93	94.65	ND	ND	ND	X
MW-105A	Off-Site - Nichols Park (Buried)	OVB	S1	99.48	2.78	96.70	ND	ND	ND	
MW-105B	Off-Site - Nichols Park (Buried)	4W	S2	99.63	1.91	97.72	ND	ND	ND	X
MW-106A	Off-Site - Nichols Park	3E	S1	97.08	4.70	92.38	ND	ND	ND	
MW-106B	Off-Site - Nichols Park	3E	S2	97.11	0.27	96.84	ND	ND	ND	
MW-108A	Off-Site - Nichols Park (Buried)	OVB	S1	95.56	4.76	90.80	ND	ND	ND	X
MW-108B	Off-Site - Nichols Park (Buried)	4E	S2	95.97	3.29	92.68	ND	ND	ND	
MW-109	Off-Site - Kingsland St. (Sidewalk)	OVB	S1	100.32	7.70	92.62	ND	ND	ND	X
MW-112	IA-15	4E	S1	96.66	6.14	90.52	ND	ND	ND	X
MW-112A	IA-15	4E	S1	96.59	4.98	91.61	ND	ND	0.2	X
MW-112B	IA-15	4E	S2	96.42	3.37	93.05	ND	ND	0.3	
MW-112C	IA-15	5E	S3	96.63	2.58	94.05	ND	ND	ND	
MW-113	IA-12	2E	S3	122.72	10.64	112.08	ND	ND	ND	
MW-114	IA-12	4E	S2	158.19	44.91	113.28	ND	ND	ND	
MW-114A	IA-12	4E	S1	158.71	45.35	113.36	ND	ND	ND	
MW-117	IA-09	5W	S3	109.42	10.14	99.28	ND	ND	0.1	
MW-118	IA-07	4E	S2	149.72	51.5	98.22	ND	ND	ND	X
MW-118C	IA-07	5E	S3	148.87	51.21	97.66	ND	ND	ND	X
MW-119	IA-11	4E	S3	101.75	6.61	95.14	ND	ND	0.7	
MW-120	IA-07	4E	S2	144.94	46.83	98.11	ND	ND	ND	
MW-121	IA-13	5E	S3	113.02	18.67	94.35	ND	ND	ND	
MW-122	IA-07	4E	S2	151.43	53.30	98.13	ND	ND	ND	
MW-124A	IA-15	5E	S1	90.65	19.42	71.23	ND	ND	ND	
MW-124B	IA-15	5E	S2	91.62	22.62	69.00	ND	ND	ND	
MW-124C	IA-15	5E	S3	90.97	23.44	67.53	ND	ND	ND	
MW-125A	IA-07	3E	S2	117.15	16.22	100.93	ND	ND	ND	
MW-126	IA-10	OVB	S1	103.77	6.08	97.69	ND	ND	0.5	X

**Table 4-1  
Groundwater Elevation Measurements - September 5, 2018  
Hoffmann-La Roche Inc. Site - Nutley, New Jersey**

Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	September 5, 2018 (3Q 2018)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (ft MSL)	Depth to Water (ft bgs) (Measured on 9-5-18)	Groundwater Elevation (ft MSL) (Measured on 9-5-18)	Depth to Product (ft bgs) (Measured on 9-5-18)	Product Thickness (ft) (Measured on 9-5-18)	PID Headspace (ppm) (Measured on 9-5-18)	
MW-126B	IA-10	4W	S2	103.79	9.15	94.64	ND	ND	ND	
MW-126C	IA-10	4W	S3	103.78	4.70	99.08	ND	ND	1.7	
MW-128	IA-07	OVB	S1	117.90	15.48	102.42	ND	ND	ND	X
MW-128B	IA-07	3E	S2	117.83	10.53	107.30	ND	ND	ND	
MW-128C	IA-07	3E	S3	117.90	9.92	107.98	ND	ND	ND	
MW-130	IA-15	4E	S1	100.34	7.85	92.49	ND	ND	ND	X
MW-131	IA-14	5E	S1	101.03	11.83	89.20	ND	ND	ND	X
MW-131B	IA-14	5E	S2	100.71	12.54	88.17	ND	ND	ND	
MW-131C	IA-14	5E	S3	101.44	22.52	78.92	ND	ND	ND	
MW-136B	IA-01	3W	S2	118.17	10.46	107.71	ND	ND	ND	
MW-136C	IA-01	3W	S3	118.16	12.65	105.51	ND	ND	ND	
MW-137	IA-02	2W	S1	118.42	8.96	109.46	ND	ND	ND	
MW-138	IA-11	3E	S1	117.40	11.76	105.64	ND	ND	8.4	X
MW-140	IA-14	5E	S3	91.25	26.22	65.03	ND	ND	ND	
MW-141	IA-13	4E	S1	109.94	15.39	94.55	ND	ND	ND	X
MW-142B	IA-13	4E	S2	106.13	13.09	93.04	ND	ND	ND	
MW-142C	IA-13	5E	S3	106.39	10.78	95.61	ND	ND	0.1	
MW-143	IA-13	4E	S1	106.76	13.68	93.08	ND	ND	ND	X
MW-143B	IA-13	4E	S2	108.07	13.72	94.35	ND	ND	ND	
MW-143C	IA-13	5E	S3	107.11	11.65	95.46	ND	ND	ND	
MW-144A	Off-Site - Nichols Park (Buried)	OVB	S1	98.03	6.00	92.03	ND	ND	ND	X
MW-144B	Off-Site - Nichols Park (Buried)	4E	S2	97.84	5.32	92.52	ND	ND	ND	
MW-145A	Off-Site - Building 716 Parking lot (Behind Fence)	4E	S1	101.32	21.79	79.53	ND	ND	ND	X
MW-145B	Off-Site - Building 716 Parking lot (Behind Fence)	5E	S2	101.23	20.98	80.25	ND	ND	ND	
MW-145C	Off-Site	5E	S3	101.17	31.42	69.75	ND	ND	ND	
MW-146A	Off-Site - Nichols Park (Cottage Pl. - Woods)	5E	S1	84.84	17.24	67.60	ND	ND	ND	X
MW-146B	Off-Site - Nichols Park (Cottage Pl. - Woods)	5E	S2	102.14	29.54	72.60	ND	ND	ND	
MW-146C	Off-Site - Nichols Park (Cottage Pl. - Woods)	5E	S3	103.66	33.60	70.06	ND	ND	ND	
MW-148A	IA-14	5E	S2	87.32	21.70	65.62	ND	ND	ND	
MW-148B	IA-14	5E	S3	86.89	21.45	65.44	ND	ND	ND	
MW-149	IA-14	5E	S3	74.14	10.29	63.85	ND	ND	ND	
MW-150	IA-03	2E	S1	121.45	--	No DTW	--	--	--	
MW-152BR	IA-09	4W	S2	118.34	13.42	104.92	ND	ND	ND	
MW-15A	IA-07	OVB	S1	109.24	6.27	102.97	ND	ND	ND	X
MW-15B	IA-07	2W	S2	109.71	7.47	102.24	ND	ND	ND	
MW-16	IA-01	1W	S1	120.38	3.19	117.19	ND	ND	ND	
MW-164	IA-09	OVB	S1	113.74	10.67	103.07	ND	ND	ND	X
MW-170AR	IA-09	OVB	S1	118.26	12.95	105.31	ND	ND	ND	
MW-170BR	IA-09	4W	S2	118.33	11.59	106.74	ND	ND	ND	
MW-171A	Off-Site - Bldg. 716 Driveway	4E	S1	103.26	14.58	88.68	ND	ND	1.2	
MW-171B	Off-Site - Bldg. 716 Driveway	4E	S2	103.16	14.73	88.43	ND	ND	0.8	
MW-171C	Off-Site - Bldg. 716 Driveway	5E	S3	103.44	13.73	89.71	ND	ND	ND	
MW-172	IA-11	4E	S1	136.88	33.42	103.46	ND	ND	ND	X
MW-172C	IA-11	4E	S2	138.01	42.33	95.68	ND	ND	ND	X
MW-172-S3	IA-11	5E	S3	137.62	40.69	96.93	ND	ND	ND	
MW-173C	IA-13	5E	S3	108.01	--	No DTW	--	--	--	
MW-174	IA-04	4W	S1	120.01	10.66	109.35	ND	ND	ND	
MW-178	IA-04	4W	S1	117.49	6.11	111.38	ND	ND	ND	
MW-184	IA-04	3W	S1	121.43	10.25	111.18	ND	ND	ND	
MW-187	IA-03	OVB	S1	116.58	11.10	105.48	ND	ND	ND	
MW-188	IA-03	2E	S1	121.41	11.65	109.76	ND	ND	ND	
MW-189A	IA-03	OVB	S1	119.35	6.90	112.45	ND	ND	ND	X
MW-189B	IA-03	3E	S2	119.39	9.50	109.89	ND	ND	ND	
MW-190A	IA-03	OVB	S1	120.50	7.92	112.58	ND	ND	ND	X
MW-190B	IA-03	3E	S2	120.76	10.73	110.03	ND	ND	ND	
MW-191B	IA-03	3E	S2	119.83	9.80	110.03	ND	ND	ND	
MW-192	IA-07	OVB	S1	110.08	8.92	101.16	ND	ND	ND	X
MW-193	IA-07	OVB	S1	113.09	9.59	103.50	ND	ND	ND	X
MW-194	IA-07	OVB	S1	114.12	9.34	104.78	ND	ND	ND	X
MW-196	IA-07	3E	S1	119.11	10.88	108.23	ND	ND	ND	X
MW-197	IA-07	3E	S1	118.44	11.05	107.39	ND	ND	ND	X
MW-199	IA-07	3E	S1	118.75	13.77	104.98	ND	ND	ND	X
MW-19A	IA-07	3E	S1	118.88	11.23	107.65	ND	ND	ND	X
MW-1G	Off-Site - 413 Kingsland St. Gas station	OVB	S1	102.76	4.60	98.16	ND	ND	ND	X
MW-200	IA-04	3W	S1	120.58	11.65	108.93	ND	ND	ND	
MW-201	Off-Site - DOT Rt. 3 West ROW	2E	S1	122.79	9.65	113.14	ND	ND	ND	
MW-201A	Off-Site - DOT Rt. 3 West ROW	2E	S1	122.69	9.95	112.74	ND	ND	47	X
MW-201B	Off-Site - DOT Rt. 3 West ROW	2E	S2	122.48	9.27	113.21	ND	ND	6.2	
MW-201C	Off-Site - DOT Rt. 3 West ROW	3E	S3	122.48	14.70	107.78	ND	ND	ND	
MW-202	Off-Site - DOT Rt. 3 West ROW	2E	S1	123.39	10.16	113.23	ND	ND	ND	X
MW-203	Off-Site - DOT Rt. 3 West ROW	2E	S1	125.93	9.13	116.80	ND	ND	ND	X
MW-204C	IA-07	4E	S3	108.11	--	No DTW	--	--	--	
MW-206B	IA-10	1W	S2	120.59	2.35	118.24	ND	ND	ND	
MW-206C	IA-10	1W	S3	120.23	0.08	120.15	ND	ND	ND	X
MW-207A	IA-10	OVB	S1	113.92	4.03	109.89	ND	ND	ND	X
MW-207B	IA-10	2W	S2	114.11	6.48	107.63	ND	ND	ND	
MW-207C	IA-10	2W	S3	114.16	8.12	106.04	ND	ND	ND	
MW-208A	IA-10	OVB	S1	110.56	8.36	102.20	ND	ND	ND	X
MW-208B	IA-10	3W	S2	110.16	--	No DTW	--	--	--	
MW-208C	IA-10	3W	S3	110.92	9.43	101.49	ND	ND	0.7	X

**Table 4-1  
Groundwater Elevation Measurements - September 5, 2018  
Hoffmann-La Roche Inc. Site - Nutley, New Jersey**

Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	September 5, 2018 (3Q 2018)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (ft MSL)	Depth to Water (ft bgs) (Measured on 9-5-18)	Groundwater Elevation (ft MSL) (Measured on 9-5-18)	Depth to Product (ft bgs) (Measured on 9-5-18)	Product Thickness (ft) (Measured on 9-5-18)	PID Headspace (ppm) (Measured on 9-5-18)	
MW-209A	Off-Site - Bldg. 120 (Park Pub) Parking lot	OVB	S1	102.84	3.36	99.48	ND	ND	ND	
MW-209B	Off-Site - Bldg. 120 (Park Pub) Parking lot	4W	S2	102.77	3.97	98.80	ND	ND	ND	
MW-209C	Off-Site - Bldg. 120 (Park Pub) Parking lot	4W	S3	102.77	4.03	98.74	ND	ND	0.3	X
MW-21	IA-09	OVB	S1	114.79	11.06	103.73	ND	ND	ND	X
MW-210	IA-10	2W	S1	113.92	3.68	110.24	ND	ND	ND	X
MW-211C	IA-12	5W	S3	123.01	15.25	107.76	ND	ND	ND	
MW-212C	IA-07	5W	S3	114.60	12.45	102.15	ND	ND	ND	
MW-213B	Off-Site - Alexander Ave.	1W	S1	148.46	27.13	121.33	ND	ND	ND	
MW-213C	Off-Site - Alexander Ave.	1W	S2	148.71	29.12	119.59	ND	ND	ND	X
MW-214A	Off-Site - Edison Ave.	OVB	S1	121.74	18.63	103.11	ND	ND	ND	X
MW-214B	Off-Site - Edison Ave.	2W	S2	121.45	18.18	103.27	ND	ND	ND	
MW-214C	Off-Site - Edison Ave.	3W	S3	121.87	19.04	102.83	ND	ND	ND	
MW-215C	Off-Site - Funston Pl.	4E	S3	103.44	9.08	94.36	ND	ND	ND	X
MW-216C	Off-Site - Cottage Pl.	5E	S3	107.80	20.95	86.85	ND	ND	0.5	
MW-217BR	IA-09	4W	S2	119.07	11.55	107.52	ND	ND	ND	
MW-218C	IA-07	3E	S3	108.88	10.71	98.17	ND	ND	ND	X
MW-221C	IA-15	5E	S3	100.17	6.25	93.92	ND	ND	ND	
MW-222	Off-Site - Hillside Ave.	5E	S3	81.99	21.62	60.37	ND	ND	ND	
MW-222C	Off-Site - Hillside Ave.	5E	D2	83.50	30.15	53.35	ND	ND	ND	
MW-224B	IA-12	2E	S2	122.42	10.06	112.36	ND	ND	54.6	
MW-225B	IA-03	2E	S2	122.15	12.45	109.70	ND	ND	ND	
MW-225C	IA-03	5W	S3	121.39	12.6	108.79	ND	ND	ND	
MW-226A	IA-02	3W	S1	119.53	9.66	109.87	ND	ND	ND	X
MW-226B	IA-02	3W	S2	119.51	12.74	106.77	ND	ND	18.5	
MW-226C	IA-02	4W	S3	119.35	14.25	105.10	ND	ND	ND	
MW-227C	IA-11	4E	S3	112.10	16.17	95.93	ND	ND	ND	X
MW-229A	IA-10	OVB	S1	127.19	7.17	120.02	ND	ND	ND	X
MW-229B	IA-10	1W	S2	127.49	8.31	119.18	ND	ND	ND	
MW-229C	IA-10	1W	S3	126.96	8.20	118.76	ND	ND	ND	
MW-230C	IA-10	1W	S3	120.07	2.38	117.69	ND	ND	ND	X
MW-231B	IA-12	3W	S2	120.63	11.30	109.33	ND	ND	ND	
MW-231C	IA-12	4W	S3	120.58	12.46	108.12	ND	ND	ND	
MW-232B	IA-12	2E	S1	132.36	16.01	116.35	ND	ND	ND	
MW-232C	IA-12	3E	S2	133.19	17.40	115.79	ND	ND	2.4	X
MW-233C	IA-12	5W	S3	123.37	11.46	111.91	ND	ND	ND	
MW-235	IA-04	3W	S1	121.19	--	No DTW	--	--	--	
MW-236B	Off-Site - Spruce St.	4W	S2	109.61	9.70	99.91	ND	ND	ND	
MW-236C	Off-Site - Spruce St.	4W	S3	110.07	11.29	98.78	ND	ND	ND	
MW-237A	IA-12	2W	S1	135.43	18.80	116.72	18.68	0.12	458.8	X
MW-237B	IA-12	3W	S2	135.81	23.82	111.99	ND	ND	ND	
MW-237C	IA-12	3W	S3	135.96	28.75	107.21	ND	ND	ND	X
MW-238C	IA-07	5W	S3	108.61	12.14	96.47	ND	ND	ND	X
MW-239	IA-03	OVB	S1	120.84	11.81	109.03	ND	ND	ND	
MW-239C	IA-03	5W	S3	121.61	12.55	109.06	ND	ND	ND	
MW-24	IA-12	2E	S1	122.46	10.76	111.70	ND	ND	ND	
MW-240BR	IA-02	3W	S2	118.78	12.81	105.97	ND	ND	ND	
MW-248A	IA-07	OVB	S1	109.14	10.38	98.76	ND	ND	ND	
MW-249A	IA-07	2E	S1	112.27	11.85	100.42	ND	ND	ND	X
MW-24A	IA-12	2E	S2	123.27	12.55	110.72	ND	ND	ND	
MW-24B	IA-12	2E	S2	122.05	10.53	111.52	ND	ND	31.7	
MW-24C	IA-03	2E	S2	122.05	13.00	109.05	ND	ND	ND	
MW-250B	IA-12	2W	S2	121.63	9.37	112.26	ND	ND	ND	
MW-252C	IA-09	4W	S3	114.88	11.29	103.59	ND	ND	1.5	X
MW-253A	IA-07	2E	S1	112.50	8.68	103.82	ND	ND	ND	X
MW-253B	IA-07	3E	S2	113.16	10.20	102.96	ND	ND	ND	
MW-253C	IA-07	3E	S3	112.95	11.00	101.95	ND	ND	ND	X
MW-255B	IA-01	2W	S1	120.51	6.99	113.52	ND	ND	ND	
MW-257A	Off-Site - Nichols Park (Grass)	4E	S1	101.16	13.31	87.85	ND	ND	ND	X
MW-257B	Off-Site - Nichols Park (Grass)	4E	S2	101.19	13.78	87.41	ND	ND	ND	
MW-258B	Off-Site - Colonial Terrace	5E	S2	132.71	56.91	75.80	ND	ND	ND	
MW-258C	Off-Site - Colonial Terrace	5E	S3	132.76	60.75	72.01	ND	ND	0.1	
MW-260C	IA-03	4E	S2	157.28	58.16	99.12	ND	ND	ND	
MW-260-S3	IA-03	5E	S3	159.19	60.40	98.79	ND	ND	ND	
MW-265B	IA-12	4W	S2	120.22	7.88	112.34	ND	ND	ND	
MW-265C	IA-12	4W	S3	120.33	12.24	108.09	ND	ND	ND	
MW-266A	IA-12	1W	S1	119.80	2.19	117.61	ND	ND	ND	X
MW-266B	IA-12	2W	S2	119.90	3.67	116.23	ND	ND	ND	
MW-266C	IA-12	2W	S3	119.89	5.45	114.44	ND	ND	ND	
MW-267A	Private Road	1W	S1	153.87	24.42	129.45	ND	ND	0.3	
MW-267B	Private Road	1W	S2	152.49	29.84	122.65	ND	ND	ND	
MW-267C	Private Road	2W	S3	152.87	31.86	121.01	ND	ND	1.3	
MW-269A	IA-07	4E	S1	149.26	51.03	98.23	ND	ND	ND	X
MW-269C	IA-07	5E	S3	149.03	52.13	96.90	ND	ND	ND	
MW-27	IA-10	1W	S1	112.81	3.16	109.65	ND	ND	ND	X
MW-270A	IA-07	4E	S1	154.79	56.07	98.72	ND	ND	ND	X
MW-270C	IA-07	5E	S3	154.27	56.50	97.77	ND	ND	ND	X
MW-271A	IA-12	3E	S1	150.96	37.16	113.80	ND	ND	ND	X
MW-271B	IA-12	4E	S2	150.29	48.07	102.22	ND	ND	ND	
MW-271C	IA-12	4E	S3	151.06	51.85	99.21	ND	ND	12.3	
MW-272C	IA-12	3E	S3	136.56	22.68	113.88	ND	ND	0.4	

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Groundwater Elevation Measurements - September 5, 2018  
Hoffmann-La Roche Inc. Site - Nutley, New Jersey**

Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	September 5, 2018 (3Q 2018)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (ft MSL)	Depth to Water (ft bgs) (Measured on 9-5-18)	Groundwater Elevation (ft MSL) (Measured on 9-5-18)	Depth to Product (ft bgs) (Measured on 9-5-18)	Product Thickness (ft) (Measured on 9-5-18)	PID Headspace (ppm) (Measured on 9-5-18)	
MW-273B	IA-10	1W	S2	121.77	3.18	118.59	ND	ND	ND	
MW-273C	IA-10	1W	S3	121.55	3.74	117.81	ND	ND	ND	X
MW-274A	IA-10	OVB	S1	128.20	3.09	125.11	ND	ND	ND	X
MW-274B	IA-10	1W	S2	127.31	4.90	122.41	ND	ND	ND	
MW-274C	IA-10	1W	S3	126.57	7.72	118.85	ND	ND	ND	
MW-275A	IA-10	OVB	S1	105.17	4.71	100.46	ND	ND	0.8	X
MW-275B	IA-10	3W	S2	105.38	4.25	101.13	ND	ND	1.9	X
MW-275C	IA-10	4W	S3	105.75	4.61	101.14	ND	ND	2	
MW-276A	IA-13	4E	S1	115.45	17.97	97.48	ND	ND	ND	X
MW-276B	IA-13	5E	S2	114.83	16.60	98.23	ND	ND	ND	
MW-276C	IA-13	5E	S3	114.46	36.85	77.61	ND	ND	ND	
MW-277A	IA-14	OVB	S1	94.50	14.30	80.20	ND	ND	ND	X
MW-277B	IA-14	5E	S2	93.90	13.54	80.36	ND	ND	0.6	
MW-277C	IA-14	5E	S3	93.26	22.58	70.68	ND	ND	ND	
MW-278B	IA-15	5E	S2	92.76	20.06	72.70	ND	ND	ND	
MW-27B	IA-10	2W	S2	113.19	3.59	109.60	ND	ND	ND	
MW-27C	IA-10	2W	S3	112.88	3.90	108.98	ND	ND	ND	X
MW-28	IA-10	1W	S1	113.07	3.57	109.50	ND	ND	ND	X
MW-286A	IA-10	OVB	S1	117.33	1.56	115.77	ND	ND	ND	
MW-287A	IA-10	OVB	S1	117.62	1.49	116.13	ND	ND	ND	
MW-288B	IA-07	2E	S2	113.46	12.84	100.62	ND	ND	ND	X
MW-291A	IA-07	3E	S1	109.19	9.65	99.54	ND	ND	ND	X
MW-292A	IA-07	2E	S1	107.61	8.95	98.66	ND	ND	ND	X
MW-292B	IA-07	3E	S2	106.90	9.19	97.71	ND	ND	ND	X
MW-294C	IA-12	3E	S3	123.14	15.32	107.82	ND	ND	ND	
MW-295C	IA-12	3E	S3	123.38	15.56	107.82	ND	ND	6.8	
MW-296A	IA-12	2E	S1	122.46	10.81	111.65	ND	ND	1.4	X
MW-297B	IA-09	4W	S2	118.77	13.86	104.91	ND	ND	ND	
MW-2B	IA-04	3W	S2	120.55	12.89	107.66	ND	ND	ND	
MW-2C	IA-04	4W	S3	120.55	15.52	105.03	ND	ND	ND	X
MW-3	IA-12	3E	S2	158.50	46.80	111.70	ND	ND	ND	
MW-301C	IA-11	4E	S3	102.25	7.21	95.04	ND	ND	ND	X
MW-302C	IA-11	4E	S3	117.33	20.90	96.43	ND	ND	0.1	
MW-303C	IA-11	4E	S3	110.20	15.24	94.96	ND	ND	ND	
MW-304A	Off-Site	4E	S1	101.04	8.94	92.10	ND	ND	ND	
MW-304B	Off-Site	4E	S2	101.18	8.37	92.81	ND	ND	10.1	
MW-304C	Off-Site	5E	S3	100.99	7.19	93.80	ND	ND	ND	X
MW-305B	IA-02	3W	S2	119.10	13.22	105.88	ND	ND	ND	X
MW-306B	IA-02	3W	S2	118.76	12.24	106.52	ND	ND	ND	
MW-31	IA-10	OVB	S1	113.37	3.80	109.57	ND	ND	ND	X
MW-311C	IA-02	4W	S3	118.88	12.87	106.01	ND	ND	ND	
MW-313B	IA-02	3W	S2	118.57	12.43	106.14	ND	ND	ND	X
MW-315B	IA-02	3W	S2	119.14	13.43	105.71	ND	ND	ND	X
MW-318A	IA-06	2W	S1	114.22	7.61	106.61	ND	ND	20.3	X
MW-318B	IA-06	3W	S2	114.27	9.53	104.74	ND	ND	13.8	
MW-32	IA-10	OVB	S1	118.77	3.58	115.19	ND	ND	ND	X
MW-320C	IA-06	4W	S3	108.38	--	No DTW	--	--	--	
MW-325B	IA-11	3E	S2	101.93	6.49	95.44	ND	ND	ND	
MW-329C	IA-11	4E	S3	102.52	7.23	95.29	ND	ND	0.7	
MW-33	IA-11	OVB	S1	103.69	9.31	94.38	ND	ND	1.3	X
MW-330C	IA-11	4E	S3	101.54	6.26	95.28	ND	ND	0.7	
MW-331C	IA-11	4E	S3	100.09	5.43	94.66	ND	ND	ND	X
MW-332C	IA-11	4E	S3	101.43	6.21	95.22	ND	ND	1.6	
MW-333C	IA-11	4E	S3	100.65	5.97	94.68	ND	ND	ND	X
MW-336B	IA-15	4E	S2	98.51	6.79	91.72	ND	ND	ND	
MW-336C	IA-15	5E	S3	98.48	11.30	87.18	ND	ND	ND	
MW-337C	IA-15	5E	S3	96.80	3.19	93.61	ND	ND	0.1	
MW-338A	Off-Site	4E	S1	102.68	13.24	89.44	ND	ND	ND	
MW-338C	Off-Site	5E	S3	103.00	11.49	91.51	ND	ND	ND	
MW-339C	Off-Site	5E	S3	103.45	12.04	91.41	ND	ND	2.4	
MW-33A	IA-11	OVB	S1	101.91	8.35	93.56	ND	ND	2.1	X
MW-34	IA-03	3E	S1	146.54	34.78	111.76	ND	ND	ND	X
MW-340A	Off-Site	4E	S1	103.99	15.77	88.22	ND	ND	ND	
MW-340B	Off-Site	5E	S2	103.99	18.76	85.23	ND	ND	1.2	
MW-340C	Off-Site	5E	S3	103.96	33.45	70.51	ND	ND	ND	
MW-345C	IA-11	4E	S3	101.82	6.70	95.12	ND	ND	0.9	
MW-347B	IA-10	3W	S2	109.38	6.00	103.38	ND	ND	ND	
MW-347C	IA-10	3W	S3	109.33	6.97	102.36	ND	ND	0.7	X
MW-348B	IA-10	3W	S2	109.45	6.24	103.21	ND	ND	ND	
MW-348C	IA-10	3W	S3	109.25	7.42	101.83	ND	ND	ND	
MW-349B	IA-10	3W	S2	106.47	5.06	101.41	ND	ND	18.7	X
MW-349C	IA-10	4W	S3	106.35	5.13	101.22	ND	ND	11.7	
MW-351B	IA-04	4W	S2	120.81	13.28	107.53	ND	ND	ND	
MW-351C	IA-04	4W	S3	120.39	14.11	106.28	ND	ND	ND	
MW-353A	Off-Site - DOT Rt. 3 West ROW	3E	S1	146.95	32.17	114.78	ND	ND	ND	X
MW-353B	Off-Site - DOT Rt. 3 West ROW	3E	S2	146.95	32.55	114.40	ND	ND	ND	
MW-353C	Off-Site - DOT Rt. 3 West ROW	4E	S3	147.15	45.52	101.63	ND	ND	ND	X
MW-354A	IA-04	2W	S1	121.20	10.23	110.97	ND	ND	ND	
MW-355A	IA-04	2W	S1	121.08	7.06	114.02	ND	ND	ND	
MW-357-S2	IA-01	3W	S2	121.06	8.68	112.38	ND	ND	ND	

**Table 4-1  
Groundwater Elevation Measurements - September 5, 2018  
Hoffmann-La Roche Inc. Site - Nutley, New Jersey**

Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	September 5, 2018 (3Q 2018)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (ft MSL)	Depth to Water (ft bgs) (Measured on 9-5-18)	Groundwater Elevation (ft MSL) (Measured on 9-5-18)	Depth to Product (ft bgs) (Measured on 9-5-18)	Product Thickness (ft) (Measured on 9-5-18)	PID Headspace (ppm) (Measured on 9-5-18)	
MW-357-S3	IA-01	3W	S3	120.85	13.16	107.69	ND	ND	ND	
MW-358B	IA-12	2E	S2	123.76	12.35	111.41	ND	ND	ND	
MW-360B	IA-12	2E	S2	123.90	12.46	111.44	ND	ND	ND	
MW-362B	IA-12	2E	S2	123.12	11.14	111.98	ND	ND	ND	
MW-363A	IA-12	2E	S1	123.23	11.62	111.61	ND	ND	ND	
MW-363C	IA-12	2E	S3	123.39	12.22	111.17	ND	ND	ND	
MW-364C	IA-12	2E	S3	122.52	11.15	111.37	ND	ND	60.8	
MW-366A	IA-11	4E	S1	103.14	10.72	92.42	ND	ND	ND	X
MW-366C	IA-11	5E	S3	103.77	9.30	94.47	ND	ND	ND	
MW-367A	IA-15	OVB	S1	97.02	8.18	88.84	ND	ND	ND	X
MW-367C	IA-15	5E	S3	96.97	3.19	93.78	ND	ND	ND	
MW-367-S2	IA-15	4E	S2	96.96	4.89	92.07	ND	ND	4.8	
MW-367-S3	IA-15	5E	S3	96.85	3.94	92.91	ND	ND	0.5	
MW-37	IA-03	2E	S1	134.73	19.78	114.95	ND	ND	ND	X
MW-371A	IA-04	2W	S1	122.06	8.66	113.40	ND	ND	ND	
MW-371B	IA-04	3W	S2	121.91	10.84	111.07	ND	ND	ND	
MW-371C	IA-04	4W	S3	121.96	18.02	103.94	ND	ND	ND	X
MW-372A	IA-01	2W	S1	120.42	5.49	114.93	ND	ND	ND	
MW-373A	IA-07	4E	S1	138.13	31.39	106.74	ND	ND	ND	
MW-373B	IA-07	4E	S2	137.93	40.69	97.24	ND	ND	ND	X
MW-373C	IA-07	5E	S3	137.48	40.35	97.13	ND	ND	ND	
MW-374B	IA-07	4E	S2	140.57	43.00	97.57	ND	ND	ND	X
MW-374C	IA-07	5E	S3	140.49	43.44	97.05	ND	ND	ND	X
MW-375A	IA-12	2E	S1	143.37	28.82	114.55	ND	ND	ND	
MW-375B	IA-12	3E	S2	144.35	30.50	113.85	ND	ND	ND	X
MW-375C	IA-12	4E	S3	144.76	43.43	101.33	ND	ND	ND	X
MW-376B	IA-12	3E	S2	151.37	37.32	114.05	ND	ND	ND	
MW-376C	IA-12	4E	S3	150.96	52.06	98.90	ND	ND	0.5	
MW-376-S3	IA-12	4E	S3	150.48	50.9	99.58	ND	ND	0.5	X
MW-377B	IA-07	4E	S2	145.15	46.54	98.61	ND	ND	ND	
MW-377C	IA-07	4E	S3	145.21	44.28	100.93	ND	ND	4	X
MW-378C	IA-07	4E	S3	147.85	49.37	98.48	ND	ND	ND	X
MW-38	IA-03	OVB	S1	118.65	5.60	113.05	ND	ND	ND	X
MW-384A	IA-01	2W	S1	119.66	3.38	116.28	ND	ND	ND	X
MW-387A	IA-01	2W	S1	120.69	5.92	114.77	ND	ND	ND	
MW-387B	IA-01	2W	S2	120.68	8.10	112.58	ND	ND	ND	X
MW-387C	IA-01	4W	S3	120.59	15.24	105.35	ND	ND	ND	
MW-388B	IA-01	3W	S2	121.02	11.39	109.63	ND	ND	ND	
MW-390B	IA-01	2W	S2	120.88	7.70	113.18	ND	ND	ND	
MW-391C	IA-01	3W	S3	119.62	14.22	105.40	ND	ND	ND	X
MW-391-S3	IA-01	3W	S3	119.45	11.46	107.99	ND	ND	ND	
MW-392A	IA-01	2W	S1	119.59	14.52	105.07	ND	ND	ND	
MW-392B	IA-01	3W	S2	119.95	10.24	109.71	ND	ND	ND	
MW-392C	IA-01	4W	S3	119.94	7.25	112.69	ND	ND	ND	
MW-393B	IA-01	3W	S2	120.55	9.51	111.04	ND	ND	ND	
MW-393C	IA-01	4W	S3	120.66	14.99	105.67	ND	ND	ND	
MW-394B	IA-01	2W	S2	119.61	5.70	113.91	ND	ND	ND	
MW-394C	IA-01	3W	S3	119.38	13.14	106.24	ND	ND	ND	
MW-3C	IA-12	5E	S3	159.06	61.49	97.57	ND	ND	1.4	X
MW-3G	Off-Site - 413 Kingsland St. Gas station	OVB	S1	102.06	3.50	98.56	ND	ND	2	X
MW-40A	IA-03	3E	S2	118.45	7.80	110.65	ND	ND	ND	
MW-41	IA-03	3E	S2	118.35	9.00	109.35	ND	ND	ND	
MW-413BR	IA-11	3E	S2	101.67	6.25	95.42	ND	ND	ND	
MW-416A	IA-01	2W	S1	118.65	7.54	111.11	ND	ND	ND	
MW-416B	IA-01	2W	S2	118.58	8.77	109.81	ND	ND	ND	X
MW-416C	IA-01	3W	S3	118.53	13.64	104.89	ND	ND	ND	X
MW-417A	IA-07	3E	S1	128.36	22.2	106.16	ND	ND	ND	
MW-417B	IA-07	4E	S2	128.06	30.46	97.60	ND	ND	ND	
MW-417C	IA-07	5E	S3	128.31	31.00	97.31	ND	ND	ND	
MW-426A	IA-04	2W	S1	121.63	9.30	112.33	ND	ND	ND	
MW-426B	IA-04	3W	S2	121.77	12.75	109.02	ND	ND	ND	
MW-427B	IA-04	3W	S2	122.08	13.47	108.61	ND	ND	ND	X
MW-428B	IA-04	3W	S2	121.66	14.12	107.54	ND	ND	ND	
MW-428C	IA-04	4W	S3	121.75	17.34	104.41	ND	ND	ND	
MW-429C	IA-13	5E	S3	102.91	8.26	94.65	ND	ND	ND	X
MW-43	IA-10	1W	S1	123.77	11.81	111.96	ND	ND	ND	
MW-433C	IA-12	4E	S3	134.90	33.71	101.19	ND	ND	0.5	X
MW-434C	IA-03	4E	S3	119.69	20.11	99.58	ND	ND	ND	
MW-436A	IA-12	2E	S1	124.54	11.57	112.97	ND	ND	ND	
MW-437A	IA-12	2W	S1	123.00	11.28	111.72	ND	ND	ND	
MW-438B	IA-04	2W	S2	123.85	14.20	109.65	ND	ND	ND	
MW-439B	IA-03	5W	S2	119.85	10.30	109.55	ND	ND	ND	
MW-44	IA-10	1W	S1	126.99	7.79	119.20	ND	ND	ND	X
MW-443A	IA-12	OVB	S1	125.39	11.73	113.66	ND	ND	ND	
MW-443B	IA-12	2E	S2	125.39	12.62	112.77	ND	ND	ND	
MW-445B	IA-12	2E	S2	123.27	11.66	111.61	ND	ND	ND	
MW-446A	IA-10	1W	S1	114.21	4.04	110.17	ND	ND	ND	
MW-448B	IA-11	3E	S3	104.90	9.81	95.09	ND	ND	ND	
MW-449C	IA-11	4E	S3	106.01	9.57	96.44	ND	ND	ND	
MW-44B	IA-10	1W	S2	126.17	10.29	115.88	ND	ND	ND	

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Groundwater Elevation Measurements - September 5, 2018  
Hoffmann-La Roche Inc. Site - Nutley, New Jersey**

Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	September 5, 2018 (3Q 2018)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (ft MSL)	Depth to Water (ft bgs) (Measured on 9-5-18)	Groundwater Elevation (ft MSL) (Measured on 9-5-18)	Depth to Product (ft bgs) (Measured on 9-5-18)	Product Thickness (ft) (Measured on 9-5-18)	PID Headspace (ppm) (Measured on 9-5-18)	
MW-44C	IA-10	2W	S3	128.26	16.42	111.84	ND	ND	ND	
MW-451B	IA-11	4E	S2	111.15	16.42	94.73	ND	ND	ND	X
MW-452C	IA-11	4E	S3	115.94	19.71	96.23	ND	ND	0.2	X
MW-453C1	IA-11	4E	S3	109.34	13.96	95.38	ND	ND	0.5	
MW-453C2	IA-11	5E	S3	109.35	12.76	96.59	ND	ND	ND	
MW-455C	IA-11	5E	S3	113.05	16.66	96.39	ND	ND	ND	
MW-456C1	IA-11	4E	S3	109.94	12.79	97.15	ND	ND	0.4	X
MW-456C2	IA-11	4E	S3	110.02	13.21	96.81	ND	ND	ND	
MW-457C1	IA-11	4E	S3	106.69	10.29	96.40	ND	ND	19.6	X
MW-457C2	IA-11	5E	S3	106.66	10.51	96.15	ND	ND	3.1	X
MW-458C1	IA-11	4E	S3	103.04	6.95	96.09	ND	ND	1.4	X
MW-458C2	IA-11	4E	S3	103.13	7.43	95.70	ND	ND	0.3	
MW-459C	IA-11	5E	S3	119.19	22.04	97.15	ND	ND	15.7	
MW-46	IA-07	4E	S1	144.55	48.05	96.50	ND	ND	ND	X
MW-460C	IA-13	5E	S3	109.11	12.65	96.46	ND	ND	ND	
MW-461C	IA-13	5E	S3	107.68	11.05	96.63	ND	ND	ND	
MW-462C1	IA-15	5E	S3	95.94	17.94	78.00	ND	ND	ND	
MW-462C2	IA-15	5E	S3	95.96	26.82	69.14	ND	ND	ND	
MW-463C	IA-07	5E	S3	128.46	31.20	97.26	ND	ND	ND	X
MW-464C1	IA-07	4E	S3	116.77	19.46	97.31	ND	ND	ND	X
MW-464C2	IA-07	5E	S3	116.91	19.17	97.74	ND	ND	0.6	X
MW-465C1	IA-07	4E	S3	110.73	12.87	97.86	ND	ND	ND	X
MW-465C2	IA-07	4E	S3	110.69	13.32	97.37	ND	ND	ND	
MW-466A	IA-09	OVB	S1	118.57	12.94	105.63	ND	ND	ND	
MW-467A	IA-09	OVB	S1	119.27	12.77	106.50	ND	ND	ND	
MW-47	IA-14	OVB	S2	77.02	6.80	70.22	ND	ND	ND	
MW-471A	IA-09	OVB	S1	117.57	10.79	106.78	ND	ND	ND	
MW-472A	IA-10	1W	S1	114.56	1.93	112.63	ND	ND	ND	
MW-472S	IA-10	OVB	S1	114.61	5.09	109.52	ND	ND	ND	
MW-473A	Off-Site - Windsor Place	1W	S1	113.47	5.10	108.37	ND	ND	ND	
MW-474A	Off-Site - Windsor Place	1W	S1	114.00	6.84	107.16	ND	ND	ND	
MW-474B	Off-Site - Windsor Place	2W	S2	113.95	2.71	111.24	ND	ND	ND	
MW-475A	Off-Site - Windsor Place	1W	S1	116.40	6.65	109.75	ND	ND	ND	
MW-476A	IA-10	1W	S1	113.35	3.43	109.92	ND	ND	ND	
MW-477A	IA-10	2W	S1	113.08	3.77	109.31	ND	ND	18.7	
MW-478B	Off-Site	4E	S2	97.65	3.51	94.14	ND	ND	ND	
MW-478C	Off-Site	4E	S3	97.85	3.03	94.82	ND	ND	ND	
MW-479A	IA-10	1W	S1	115.73	4.50	111.23	ND	ND	ND	
MW-479B	IA-10	2W	S2	115.48	5.50	109.98	ND	ND	5.2	
MW-479C	IA-10	3W	S3	115.63	10.81	104.82	ND	ND	ND	
MW-479S	IA-10	OVB	S1	115.61	3.73	111.88	ND	ND	ND	
MW-48	IA-14	OVB	S2	68.59	9.76	58.83	ND	ND	ND	
MW-480A	IA-10	1W	S1	119.78	5.48	114.30	ND	ND	ND	
MW-481B	IA-10	2W	S2	118.30	9.97	108.33	ND	ND	ND	
MW-481C	IA-10	2W	S3	118.70	11.20	107.50	ND	ND	ND	X
MW-482B	IA-10	2W	S2	112.92	5.21	107.71	ND	ND	ND	
MW-482C	IA-10	2W	S3	113.28	4.10	109.18	ND	ND	ND	X
MW-483B	IA-10	2W	S2	112.48	5.86	106.62	ND	ND	ND	
MW-483C	IA-10	2W	S3	112.19	4.38	107.81	ND	ND	ND	X
MW-485A	Off-Site - Windsor Place	1W	S1	113.74	2.61	111.13	ND	ND	ND	
MW-486A	Off-Site - Windsor Place	1W	S1	113.70	6.52	107.18	ND	ND	ND	
MW-487A	Off-Site - Windsor Place	1W	S1	114.35	5.23	109.12	ND	ND	12.8	
MW-487B	Off-Site - Windsor Place	2W	S2	114.54	3.53	111.01	ND	ND	ND	
MW-487S	Off-Site - Windsor Place	1W	S1	114.36	7.39	106.97	ND	ND	ND	
MW-488A	Off-Site - Windsor Place	1W	S1	114.88	7.73	107.15	ND	ND	95	
MW-488B	Off-Site - Windsor Place	2W	S2	114.99	3.77	111.22	ND	ND	ND	
MW-489A	Off-Site - Windsor Place	1W	S1	115.55	6.88	108.67	ND	ND	ND	
MW-48B	IA-14	5E	S3	68.52	7.97	60.55	ND	ND	ND	
MW-48C	IA-14	5E	D1	68.15	9.14	59.01	ND	ND	ND	
MW-49	IA-14	5E	S2	70.42	8.49	61.93	ND	ND	ND	
MW-492B	IA-07	3E	S2	113.18	10.39	102.79	ND	ND	1.5	
MW-493B	IA-07	2E	S2	112.68	8.90	103.78	ND	ND	ND	
MW-495B	IA-07	3E	S2	112.66	10.35	102.31	ND	ND	ND	
MW-496A	Off-Site	1W	S1	114.13	4.38	109.75	ND	ND	ND	
MW-496S	Off-Site	1W	S1	114.22	5.27	108.95	ND	ND	ND	
MW-498A	IA-11	OVB	S1	102.58	8.94	93.64	ND	ND	ND	
MW-498B	IA-11	3E	S2	102.58	8.01	94.57	ND	ND	ND	
MW-501B	IA-10	1W	S2	117.27	4.00	113.27	ND	ND	ND	X
MW-502B	IA-09	2E	S2	110.61	9.12	101.49	ND	ND	0.3	
MW-503C	IA-07	3E	S3	110.68	--	No DTW	--	--	--	
MW-55B	IA-11	4E	S2	103.53	9.64	93.89	ND	ND	ND	X
MW-55C	IA-11	5E	S3	103.85	9.76	94.09	ND	ND	ND	X
MW-57	IA-15	4E	S1	98.16	6.94	91.22	ND	ND	ND	X
MW-58	IA-12	1W	S1	137.12	17.35	119.77	ND	ND	ND	
MW-59	IA-12	3W	S1	127.40	12.33	115.07	ND	ND	ND	X
MW-60A	IA-12	2E	S1	125.77	10.95	114.82	ND	ND	ND	X
MW-60A-S2	IA-12	3E	S2	126.18	15.31	110.87	ND	ND	ND	
MW-60A-S3	IA-12	3E	S3	126.41	14.77	111.64	ND	ND	ND	
MW-60B	IA-12	2E	S1	132.06	15.21	116.85	ND	ND	ND	X
MW-60C	IA-12	2W	S1	121.59	8.95	112.64	ND	ND	ND	



**Table 4-1  
Groundwater Elevation Measurements - September 5, 2018  
Hoffmann-La Roche Inc. Site - Nutley, New Jersey**

Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	September 5, 2018 (3Q 2018)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (ft MSL)	Depth to Water (ft bgs) (Measured on 9-5-18)	Groundwater Elevation (ft MSL) (Measured on 9-5-18)	Depth to Product (ft bgs) (Measured on 9-5-18)	Product Thickness (ft) (Measured on 9-5-18)	PID Headspace (ppm) (Measured on 9-5-18)	
MW-60G-S3	IA-12	5W	S3	122.40	10.10	112.30	ND	ND	3.5	
MW-60H	Off-Site - DOT Rt. 3 East ROW	OVB	S1	122.69	10.07	112.62	ND	ND	132.7	X
MW-60I	Off-Site - DOT Rt. 3 East ROW	OVB	S1	123.28	11.00	112.28	ND	ND	0.6	X
MW-60J	Off-Site - DOT Rt. 3 East ROW	OVB	S1	124.31	10.82	113.49	ND	ND	0.1	X
MW-60K	Off-Site - DOT Rt. 3 East ROW	4W	S1	122.02	8.52	113.50	ND	ND	3.6	X
MW-60L	Off-Site - DOT Rt. 3 East ROW	2W	S1	121.81	9.55	112.26	ND	ND	12.6	X
MW-60M	IA-12	2E	S1	123.54	10.79	112.75	ND	ND	ND	
MW-60R	IA-12	OVB	S1	123.13	10.78	112.35	ND	ND	17.5	
MW-60-Z2R	IA-12	2W	S2	122.89	10.35	112.54	ND	ND	ND	
MW-61	IA-12	3E	S1	157.94	28.81	129.13	ND	ND	ND	
MW-61B	IA-12	4E	S2	158.65	57.24	101.41	ND	ND	0.5	X
MW-61C	IA-12	5E	S3	158.08	59.33	98.75	ND	ND	ND	
MW-64	IA-11	OVB	S1	101.75	6.56	95.19	ND	ND	1	X
MW-66	IA-11	OVB	S1	100.49	7.36	93.13	ND	ND	0.5	X
MW-67	IA-11	OVB	S1	102.01	8.92	93.09	ND	ND	0.1	X
MW-68	IA-11	OVB	S1	100.05	7.57	92.48	ND	ND	0.7	X
MW-71	IA-11	3E	S2	99.89	5.81	94.08	ND	ND	ND	
MW-71C	IA-11	4E	S3	100.17	5.51	94.66	ND	ND	0.6	
MW-73	IA-11	3E	S2	101.16	6.96	94.20	ND	ND	1.2	
MW-74	IA-11	3E	S2	102.68	8.18	94.50	ND	ND	ND	
MW-74C	IA-11	4E	S3	99.50	4.99	94.51	ND	ND	ND	
MW-75C	IA-11	4E	S3	101.18	6.21	94.97	ND	ND	1	X
MW-7A	IA-09	OVB	S1	104.32	9.99	94.33	ND	ND	ND	
MW-7B	IA-09	OVB	S1	109.42	9.16	100.26	ND	ND	ND	
MW-7C	IA-09	4W	S2	109.32	9.68	99.64	ND	ND	ND	
MW-80C	IA-12	2E	S1	122.23	10.65	111.58	ND	ND	930.4	X
MW-80-Z2R	IA-12	2W	S2	122.78	10.67	112.11	ND	ND	0.1	
MW-8C	IA-11	4E	S3	120.23	23.62	96.61	ND	ND	0.6	X
MW-99	IA-11	4E	S1	103.73	10.84	92.89	ND	ND	ND	X
MW-99C	IA-11	5E	S3	104.20	10.28	93.92	ND	ND	ND	X
PZ-04	IA-03	OVB	S1	111.30	4.00	107.30	ND	ND	ND	

Notes:  
 -- = not measured  
 bgs = below ground surface  
 DTW = depth to water  
 ft = feet  
 MSL = mean sea level  
 ND = not detected  
 Notes:  
 N/A = not applicable  
 PID = photoionization detector  
 ppm = parts per million  
 TBD = to be determined

Not all production wells and off-site monitoring wells have been assigned to an HGU.

As defined in the January 2018 CSM Report, only wells screened in the middle of an HGU can be used in the Potentiometric Surface Map.

The following formula was used to calculate the groundwater elevation for wells where product was detected:

$$\text{Groundwater Elevation} = \text{Measuring Point Elevation} - [\text{Depth to Water} - (\text{Product Thickness} * \text{Product Specific Gravity})]$$

Product Specific Gravity is estimated to be 0.74

**Table 4-2  
Groundwater Elevation Measurements - March 11, 2019  
Hoffmann-La Roche Inc. Site - Nutley, New Jersey**

Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	March 11, 2019 (1Q 2019)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (MSL)	Depth to Water (ft bgs) (Measured on 3-11-19)	Groundwater Elevation (ft MSL) (Measured on 3-11-19)	Depth to Product (ft bgs) (Measured on 3-11-19)	Product Thickness (ft) (Measured on 3-11-19)	PID Headspace (ppm) (Measured on 3-11-19)	
131RI-MW1	IA-10	1W	S1	115.37	2.53	112.84	ND	ND	0.5	
187RI-MW2	IA-10	2W	S1	110.69	4.20	106.49	ND	ND	ND	
187RI-MW3	IA-10	2W	S1	107.94	3.43	104.51	ND	ND	ND	
66RI-MW4	IA-10	OVb	S1	118.01	2.15	115.86	ND	ND	ND	
DW-11B	Off-Site - Cottage Pl.	5E	D1	103.08	5.67	97.41	ND	ND	0.8	X
DW-11D	Off-Site - Cottage Pl.	5E	D3	103.34	7.81	95.53	ND	ND	1.4	
DW-12A	IA-04	4W	D1	120.96	15.93	105.03	ND	ND	0.3	X
DW-12B	IA-4	5W	D1	120.73	21.79	98.94	ND	ND	ND	X
DW-12CR	IA-4	5W	D3	121.06	22.53	98.53	ND	ND	ND	
DW-13A	IA-10	3W	S3	108.25	5.72	102.53	ND	ND	ND	
DW-13B	IA-10	5W	D1	109.01	11.00	98.01	ND	ND	0.1	X
DW-13-D2	IA-10	5W	D2	108.66	10.6	98.06	ND	ND	ND	
DW-14A	IA-10	4W	D1	116.34	10.14	106.20	ND	ND	0.1	
DW-14B	IA-10	5W	D2	115.70	16.54	99.16	ND	ND	0.4	X
DW-14C	IA-10	5W	D3	115.92	15.37	100.55	ND	ND	0.1	
DW-15A	IA-10	3W	D1	121.61	14.50	107.11	ND	ND	0.6	X
DW-16A	IA-10	3W	D1	124.16	17.71	106.45	ND	ND	1.7	X
DW-16B	IA-10	4W	D2	125.02	19.83	105.19	ND	ND	ND	X
DW-16C	IA-10	5W	D3	125.68	41.02	84.66	ND	ND	ND	
DW-17C	IA-14	5E	D1	75.26	14.46	60.80	ND	ND	0.3	
DW-17D	IA-14	5E	D2	74.61	17.89	56.72	ND	ND	0.6	
DW-18C	Off-Site - Lois Ave.	5E	D1	132.01	64.31	67.70	ND	ND	5.9	
DW-18D	Off-Site - Lois Ave.	5E	D3	131.61	92.94	38.67	ND	ND	7.8	
DW-1B	Off-Site - Terrace Ave.	5E	S1	106.56	8.38	98.18	ND	ND	ND	
DW-1C	Off-Site - Terrace Ave.	5E	D1	107.08	22.96	84.12	ND	ND	0.3	
DW-1D	Off-Site - Terrace Ave.	5E	D3	106.33	40.66	65.67	ND	ND	2.0	
DW-20D	IA-09	5W	D4	114.06	21.34	92.72	ND	ND	4.5	
DW-21A	IA-04	5W	D1	120.66	15.42	105.24	ND	ND	ND	
DW-21D	IA-04	5W	D3	121.03	20.82	100.21	ND	ND	ND	
DW-22D	IA-04	5W	D4	119.87	26.82	93.05	ND	ND	0.2	
DW-23D	IA-03	5E	D4	155.72	--	No DTW	--	--	--	
DW-24	Off-Site - Colonial Terrace	5E	D1	132.56	68.19	64.37	ND	ND	ND	
DW-25A	IA-15	5E	D1	96.71	1.21	95.50	ND	ND	0.6	
DW-25B	IA-15	5E	D2	96.45	5.25	91.20	ND	ND	0.1	
DW-25C	IA-15	5E	D3	96.59	7.09	89.50	ND	ND	9.4	
DW-25D	IA-15	5E	D4	96.43	29.90	66.53	ND	ND	4.3	
DW-25-D1	IA-15	5E	D1	96.44	25.38	71.06	ND	ND	0.1	
DW-27A	IA-10	3W	D1	123.81	6.20	117.61	ND	ND	ND	
DW-27B	IA-10	5W	D2	124.12	22.34	101.78	ND	ND	2.0	X
DW-27C	IA-10	5W	D3	123.58	22.71	100.87	ND	ND	ND	
DW-28A	IA-12	5E	D1	149.58	49.51	100.07	ND	ND	1.0	
DW-28B	IA-12	5E	D2	149.20	49.74	99.46	ND	ND	ND	
DW-29A	IA-12	5E	D1	136.71	36.64	100.07	ND	ND	ND	
DW-29B	IA-12	5E	D2	137.00	47.31	89.69	ND	ND	3.3	
DW-29C	IA-12	5E	D3	137.86	38.77	99.09	ND	ND	3.6	
DW-2B	IA-12	5E	S3	157.15	57.21	99.94	ND	ND	0.3	X
DW-2D	IA-12	5E	D3	158.23	59.23	99.00	ND	ND	0.2	
DW-2-D1	IA-12	5E	D1	158.71	59.04	99.67	ND	ND	0.7	
DW-2-D2	IA-12	5E	D2	158.75	59.15	99.60	ND	ND	0.3	
DW-30A	IA-12	5W	D1	120.18	17.81	102.37	ND	ND	ND	
DW-30B	IA-12	5W	D2	120.33	19.11	101.22	ND	ND	ND	
DW-31A	IA-12	4W	D1	135.92	29.83	106.09	ND	ND	ND	
DW-31B	IA-12	5W	D2	135.62	211.03	-75.41	ND	ND	ND	
DW-31C	IA-12	5W	D3	135.31	315.77	-180.46	ND	ND	ND	
DW-32A	IA-12	3W	D1	119.93	13.22	106.71	ND	ND	ND	X
DW-32B	IA-12	5W	D2	120.09	21.10	98.99	ND	ND	0.5	
DW-33A	IA-10	2W	D1	122.05	9.43	112.62	ND	ND	ND	
DW-33B	IA-10	4W	D2	121.95	16.57	105.38	ND	ND	ND	X
DW-33C	IA-10	5W	D3	121.30	43.60	77.70	ND	ND	18.5	
DW-34A	Private Road	2W	D1	153.18	34.02	119.16	ND	ND	1.2	
DW-34B	Private Road	3W	D2	153.57	--	No DTW	--	--	--	X
DW-36A	Private Road	5E	D1	160.98	61.63	99.35	ND	ND	1.3	
DW-36B	Private Road	5E	D2	161.19	61.84	99.35	ND	ND	0.6	
DW-37A	IA-07	5E	D1	153.26	54.22	99.04	ND	ND	1.8	
DW-37B	IA-07	5E	D2	153.11	54.56	98.55	ND	ND	1.8	
DW-38A	IA-07	5E	D1	148.97	50.86	98.11	ND	ND	2.0	
DW-38B	IA-07	5E	D2	148.99	81.6	67.39	ND	ND	0.5	
DW-38C	IA-07	5E	D3	151.66	75.72	75.94	ND	ND	1.8	
DW-39A	IA-13	5E	D1	115.30	51.13	64.17	ND	ND	0.4	
DW-39B	IA-13	5E	D2	114.88	57.8	57.08	ND	ND	0.4	
DW-39C	IA-13	5E	D3	114.46	50.28	64.18	ND	ND	ND	
DW-3B	IA-07	5E	S3	144.58	46.8	97.78	ND	ND	2.2	
DW-3C	IA-07	5E	D1	144.72	--	No DTW	--	--	--	
DW-3-D2	IA-07	5E	D2	144.81	80.12	64.69	ND	ND	0.5	
DW-40A	IA-10	5W	D1	103.88	4.66	99.22	ND	ND	ND	
DW-40B	IA-10	5W	D2	104.04	7.88	96.16	ND	ND	ND	
DW-40C	IA-10	5W	D3	104.10	0	104.10	ND	ND	ND	
DW-41C	IA-03	5E	D3	118.77	19.96	98.81	ND	ND	0.4	
DW-42A	IA-03	5E	D1	101.48	5.75	95.73	ND	ND	ND	
DW-43A	IA-07	5E	D1	109.35	9.31	100.04	ND	ND	ND	X

**Table 4-2  
Groundwater Elevation Measurements - March 11, 2019  
Hoffmann-La Roche Inc. Site - Nutley, New Jersey**

Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	March 11, 2019 (1Q 2019)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (MSL)	Depth to Water (ft bgs) (Measured on 3-11-19)	Groundwater Elevation (ft MSL) (Measured on 3-11-19)	Depth to Product (ft bgs) (Measured on 3-11-19)	Product Thickness (ft) (Measured on 3-11-19)	PID Headspace (ppm) (Measured on 3-11-19)	
DW-45A	IA-07	5E	D1	114.50	15.34	99.16	ND	ND	5.0	
DW-46A	IA-07	5E	D1	108.23	10.60	97.63	ND	ND	ND	
DW-47A	Off-Site	5E	D1	101.26	6.56	94.70	ND	ND	1.8	
DW-49A	Off-Site	5E	D1	100.76	30.59	70.17	ND	ND	0.8	
DW-4C	Off-Site - Nichols Park (Cottage Pl. - Woods)	5E	D1	104.14	3.38	100.76	ND	ND	1.0	
DW-4D	Off-Site - Nichols Park (Cottage Pl. - Woods)	5E	D3	104.09	25.33	78.76	ND	ND	2.48	
DW-50B	IA-07	5E	D1	149.13	49.3	99.83	ND	ND	0.1	
DW-50C	IA-07	5E	D2	148.93	49.52	99.41	ND	ND	0.7	
DW-51A	IA-11	5E	D1	103.94	8.85	95.09	ND	ND	ND	
DW-52A	IA-11	5E	D1	103.10	7.81	95.29	ND	ND	ND	
DW-53A	IA-13	5E	D1	106.67	9.43	97.24	ND	ND	ND	
DW-54A	IA-13	5E	D1	107.27	16.95	90.32	ND	ND	2.8	
DW-55A	IA-15	5E	D1	96.87	1.10	95.77	ND	ND	ND	
DW-57A	IA-07	5E	D1	147.92	48.46	99.46	ND	ND	1.2	
DW-58A	IA-07	5E	D1	137.27	38.60	98.67	ND	ND	0.6	
DW-59A	IA-07	5E	D1	140.85	42.15	98.70	ND	ND	ND	
DW-5B	IA-12	4E	D1	138.14	34.99	103.15	ND	ND	1.3	
DW-5C	IA-12	5E	D2	138.14	38.45	99.69	ND	ND	0.6	
DW-60A	IA-12	5E	D1	143.73	43.96	99.77	ND	ND	0.5	
DW-61A	IA-12	5E	D1	150.40	50.50	99.90	ND	ND	0.3	
DW-62A	IA-07	5E	D1	128.32	29.60	98.72	ND	ND	0.5	
DW-63A	IA-13	5E	D1	102.82	7.26	95.56	ND	ND	ND	
DW-64A	Off-Site - DOT Rt. 3 West ROW	5E	D1	147.79	47.95	99.84	ND	ND	ND	
DW-65-105-S3	IA-12	3W	S3	137.71	27.67	110.04	--	--	--	
DW-65-119-S3	IA-12	3W	S3	137.71	28.25	109.46	--	--	--	
DW-65-126-S3	IA-12	3W	S3	137.71	28.69	109.02	--	--	--	
DW-65-136-S3	IA-12	3W	S3	137.71	29.43	108.28	--	--	--	X
DW-65-145-D1	IA-12	3W	D1	137.71	30.04	107.67	--	--	--	X
DW-65-154-D1	IA-12	3W	D1	137.71	30.15	107.56	--	--	--	
DW-65-167-D1	IA-12	4W	D1	137.71	30.64	107.07	--	--	--	
DW-65-176-D1	IA-12	4W	D1	137.71	31.33	106.38	--	--	--	
DW-65-185-D1	IA-12	4W	D1	137.71	31.35	106.36	--	--	--	
DW-65-199-D1	IA-12	4W	D1	137.71	31.32	106.39	--	--	--	X
DW-65-211-D1	IA-12	4W	D1	137.71	31.29	106.42	--	--	--	
DW-65-221-D1	IA-12	5W	D1	137.71	38.06	99.65	--	--	--	
DW-65-239-D2	IA-12	5W	D2	137.71	38.18	99.53	--	--	--	X
DW-65-249-D2	IA-12	5W	D2	137.71	38.18	99.53	--	--	--	
DW-65-262-D2	IA-12	5W	D2	137.71	38.19	99.52	--	--	--	
DW-65-302-D2	IA-12	5W	D2	137.71	37.90	99.81	--	--	--	
DW-65-331-D2	IA-12	5W	D2	137.71	37.98	99.73	--	--	--	
DW-65-350-D2	IA-12	5W	D2	137.71	38.09	99.62	--	--	--	
DW-65-60-S2	IA-12	2W	S2	137.71	20.11	117.60	--	--	--	
DW-65-66-S2	IA-12	2W	S2	137.71	21.37	116.34	--	--	--	
DW-65-73-S2	IA-12	2W	S2	137.71	21.37	116.34	--	--	--	
DW-65-84-S2	IA-12	2W	S2	137.71	21.41	116.30	--	--	--	
DW-65-91-S3	IA-12	2W	S3	137.71	25.67	112.04	--	--	--	
DW-65-96-S3	IA-12	2W	S3	137.71	25.57	112.14	--	--	--	X
DW-67A	IA-01	5W	D1	120.05	20.90	99.15	ND	ND	ND	X
DW-67B	IA-01	5W	D2	120.00	20.76	99.24	ND	ND	ND	
DW-68A	IA-01	5W	D1	118.00	19.04	98.96	ND	ND	ND	X
DW-68B	IA-01	5W	D2	118.05	19.18	98.87	ND	ND	ND	
DW-69-104-S3	Off-site	1W	S3	142.35	16.37	125.98	--	--	--	
DW-69-114-S3	Off-site	1W	S3	142.35	16.41	125.94	--	--	--	
DW-69-134-S3	Off-site	1W	S3	142.35	17.20	125.15	--	--	--	
DW-69-142-S3	Off-site	2W	S3	142.35	22.64	119.71	--	--	--	
DW-69-150-D1	Off-site	2W	D1	142.35	24.20	118.15	--	--	--	
DW-69-160-D1	Off-site	2W	D1	142.35	24.28	118.07	--	--	--	
DW-69-171-D1	Off-site	2W	D1	142.35	25.10	117.25	--	--	--	
DW-69-186-D1	Off-site	2W	D1	142.35	31.33	111.02	--	--	--	
DW-69-195-D1	Off-site	2W	D1	142.35	31.73	110.62	--	--	--	
DW-69-213-D1	Off-site	2W	D1	142.35	31.60	110.75	--	--	--	
DW-69-224-D1	Off-site	2W	D1	142.35	35.32	107.03	--	--	--	
DW-69-234-D1	Off-site	3W	D1	142.35	36.65	105.70	--	--	--	
DW-69-246-D2	Off-site	3W	D2	142.35	37.49	104.86	--	--	--	
DW-69-260-D2	Off-site	3W	D2	142.35	37.58	104.77	--	--	--	
DW-69-270-D2	Off-site	3W	D2	142.35	37.60	104.75	--	--	--	X
DW-69-283-D2	Off-site	3W	D2	142.35	37.85	104.50	--	--	--	X
DW-69-303-D2	Off-site	4W	D2	142.35	37.49	104.86	--	--	--	
DW-69-375-D2	Off-site	4W	D2	142.35	37.51	104.84	--	--	--	
DW-69-70-S2	Off-site	1W	S2	142.35	15.93	126.42	--	--	--	
DW-69-86-S2	Off-site	1W	S2	142.35	16.36	125.99	--	--	--	
DW-6B	Off-Site	5E	D1	117.93	18.81	99.12	ND	ND	2.6	X
DW-6C	Off-Site	5E	D2	117.93	18.47	99.46	ND	ND	0.2	
DW-6D	Off-Site	5E	D3	118.29	19.06	99.23	ND	ND	2.8	
DW-70-114-S3	Off-site	1W	S3	121.08	3.04	118.04	--	--	--	
DW-70-123-D1	Off-site	2W	D1	121.08	4.50	116.58	--	--	--	
DW-70-131-D1	Off-site	2W	D1	121.08	4.88	116.20	--	--	--	
DW-70-140-D1	Off-site	2W	D1	121.08	4.66	116.42	--	--	--	
DW-70-150-D1	Off-site	2W	D1	121.08	4.72	116.36	--	--	--	X
DW-70-160-D1	Off-site	2W	D1	121.08	4.40	116.68	--	--	--	X

**Table 4-2  
Groundwater Elevation Measurements - March 11, 2019  
Hoffmann-La Roche Inc. Site - Nutley, New Jersey**

Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	March 11, 2019 (1Q 2019)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (MSL)	Depth to Water (ft bgs) (Measured on 3-11-19)	Groundwater Elevation (ft MSL) (Measured on 3-11-19)	Depth to Product (ft bgs) (Measured on 3-11-19)	Product Thickness (ft) (Measured on 3-11-19)	PID Headspace (ppm) (Measured on 3-11-19)	
DW-70-174-D1	Off-site	3W	D1	121.08	13.61	107.47	--	--	--	
DW-70-189-D1	Off-site	3W	D1	121.08	14.13	106.95	--	--	--	X
DW-70-205-D1	Off-site	3W	D1	121.08	14.22	115.46	--	--	--	X
DW-70-219-D1	Off-site	3W	D1	121.08	14.25	106.83	--	--	--	
DW-70-231-D2	Off-site	4W	D2	121.08	14.95	106.13	--	--	--	
DW-70-241-D2	Off-site	4W	D2	121.08	14.97	106.11	--	--	--	
DW-70-261-D2	Off-site	4W	D2	121.08	15.97	105.11	--	--	--	X
DW-70-285-D2	Off-site	4W	D2	121.08	15.21	105.87	--	--	--	
DW-70-350-D2	Off-site	5W	D2	121.08	-5.66	126.74	--	--	--	
DW-70-53-S2	Off-site	1W	S2	121.08	2.22	118.86	--	--	--	
DW-70-72-S3	Off-site	1W	S3	121.08	2.71	118.37	--	--	--	
DW-70-83-S3	Off-site	1W	S3	121.08	2.73	118.35	--	--	--	X
DW-70-94-S3	Off-site	1W	S3	121.08	2.70	118.38	--	--	--	
DW-72-113-S3	Off-site	4E	S3	155.73	50.26	105.47	--	--	--	
DW-72-120-S3	Off-site	4E	S3	155.73	50.60	105.13	--	--	--	
DW-72-136-S3	Off-site	4E	S3	155.73	50.85	104.88	--	--	--	X
DW-72-146-S3	Off-site	4E	S3	155.73	50.79	104.94	--	--	--	X
DW-72-167-D1	Off-site	5E	D1	155.73	54.63	101.10	--	--	--	
DW-72-176-D1	Off-site	5E	D1	155.73	54.56	101.17	--	--	--	X
DW-72-202-D1	Off-site	5E	D1	155.73	54.71	101.02	--	--	--	
DW-72-217-D1	Off-site	5E	D1	155.73	54.78	100.95	--	--	--	
DW-72-224-D1	Off-site	5E	D1	155.73	54.97	100.76	--	--	--	
DW-72-237-D1	Off-site	5E	D1	155.73	54.94	100.79	--	--	--	
DW-72-246-D1	Off-site	5E	D1	155.73	54.95	100.78	--	--	--	
DW-72-263-D2	Off-site	5E	D2	155.73	55.75	99.98	--	--	--	
DW-72-276-D2	Off-site	5E	D2	155.73	56.05	99.68	--	--	--	
DW-72-288-D2	Off-site	5E	D2	155.73	56.22	99.51	--	--	--	
DW-72-299-D2	Off-site	5E	D2	155.73	56.19	99.54	--	--	--	
DW-72-316-D2	Off-site	5E	D2	155.73	56.24	99.49	--	--	--	
DW-72-330-D2	Off-site	5E	D2	155.73	56.26	99.47	--	--	--	
DW-72-375-D2	Off-site	5E	D2	155.73	287.05	-131.32	--	--	--	
DW-72-63-S1	Off-site	2E	S1	155.73	35.67	120.06	--	--	--	
DW-72-84-S2	Off-site	3E	S2	155.73	37.21	118.52	--	--	--	X
DW-72-99-S2	Off-site	3E	S2	155.73	38.54	117.19	--	--	--	
DW-7A	Off-Site - DOT Rt. 3 West ROW	3E	D1	122.81	16.49	106.32	ND	ND	ND	
DW-7B	Off-Site - DOT Rt. 3 West ROW	4E	D1	123.23	18.52	104.71	ND	ND	ND	
DW-7C	Off-Site - DOT Rt. 3 West ROW	5E	D2	123.33	22.93	100.40	ND	ND	ND	
DW-7D	Off-Site - DOT Rt. 3 West ROW	5E	D3	122.83	21.17	101.66	ND	ND	2.6	
DW-8A	IA-12	4E	D1	122.51	16.50	106.01	ND	ND	ND	
DW-8B	IA-12	5E	D1	122.19	22.11	100.08	ND	ND	ND	
DW-8C	IA-12	5E	D2	122.68	22.48	100.20	ND	ND	10.8	
DW-8D	IA-12	5E	D3	122.42	18.79	103.63	ND	ND	ND	
DW-9A	IA-03	3E	S3	121.67	17.04	104.63	ND	ND	ND	
DW-9B	IA-03	5E	D1	121.58	25.60	95.98	ND	ND	0.1	X
DW-9D	IA-03	5E	D3	121.52	21.29	100.23	ND	ND	0.1	
MW-1	IA-01	2W	S1	119.24	2.16	117.08	ND	ND	ND	X
MW-100	IA-11	4E	S1	102.42	8.05	94.37	ND	ND	ND	X
MW-101	IA-11	4E	S1	101.59	7.22	94.37	ND	ND	ND	X
MW-102	IA-11	3E	S1	100.82	6.13	94.69	ND	ND	ND	X
MW-103A	Off-Site - Nichols Park	OVB	S1	99.93	5.86	94.07	ND	ND	0.9	X
MW-103B	Off-Site - Nichols Park	4W	S2	99.52	1.74	97.78	ND	ND	0.9	X
MW-104A	Off-Site - Nichols Park	OVB	S1	97.13	4.36	92.77	ND	ND	ND	
MW-104B	Off-Site - Nichols Park	3E	S2	97.05	1.82	95.23	ND	ND	ND	
MW-104C	Off-Site - Nichols Park	4E	S3	97.58	2.02	95.56	ND	ND	0.4	X
MW-105A	Off-Site - Nichols Park (Buried)	OVB	S1	99.48	0.94	98.54	ND	ND	ND	
MW-105B	Off-Site - Nichols Park (Buried)	4W	S2	99.63	1.31	98.32	ND	ND	ND	X
MW-106A	Off-Site - Nichols Park	3E	S1	97.08	4.44	92.64	ND	ND	ND	
MW-106B	Off-Site - Nichols Park	3E	S2	97.11	0	97.11	ND	ND	ND	
MW-108A	Off-Site - Nichols Park (Buried)	OVB	S1	95.56	3.70	91.86	ND	ND	ND	X
MW-108B	Off-Site - Nichols Park (Buried)	4E	S2	95.97	2.51	93.46	ND	ND	ND	
MW-109	Off-Site - Kingsland St. (Sidewalk)	OVB	S1	100.32	6.6	93.72	ND	ND	ND	X
MW-112	IA-15	4E	S1	96.66	5.73	90.93	ND	ND	ND	X
MW-112A	IA-15	4E	S1	96.59	4.41	92.18	ND	ND	0.9	X
MW-112B	IA-15	4E	S2	96.42	3.18	93.24	ND	ND	0.1	
MW-112C	IA-15	5E	S3	96.63	2.26	94.37	ND	ND	0.5	
MW-113	IA-12	2E	S3	122.72	9.86	112.86	ND	ND	ND	
MW-114	IA-12	4E	S2	158.19	42.78	115.41	ND	ND	0.2	
MW-114A	IA-12	4E	S1	158.71	43.2	115.51	ND	ND	ND	
MW-117	IA-09	5W	S3	109.42	9.13	100.29	ND	ND	ND	
MW-118	IA-07	4E	S2	149.72	49.7	100.02	ND	ND	ND	X
MW-118C	IA-07	5E	S3	148.87	49.55	99.32	ND	ND	0.1	X
MW-119	IA-11	4E	S2	101.75	5.53	96.22	ND	ND	ND	
MW-120	IA-07	4E	S2	144.94	44.95	99.99	ND	ND	0.2	
MW-121	IA-13	5E	S3	113.02	16.96	96.06	ND	ND	ND	
MW-122	IA-07	4E	S2	151.43	51.57	99.86	ND	ND	2.3	
MW-124A	IA-15	5E	S1	90.65	19.17	71.48	ND	ND	ND	
MW-124B	IA-15	5E	S2	91.62	21.61	70.01	ND	ND	ND	
MW-124C	IA-15	5E	S3	90.97	22.44	68.53	ND	ND	ND	
MW-125A	IA-07	3E	S2	117.15	15.34	101.81	ND	ND	0.2	
MW-126	IA-10	OVB	S1	103.77	5.50	98.27	ND	ND	ND	X

**Table 4-2  
Groundwater Elevation Measurements - March 11, 2019  
Hoffmann-La Roche Inc. Site - Nutley, New Jersey**

Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	March 11, 2019 (1Q 2019)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (MSL)	Depth to Water (ft bgs) (Measured on 3-11-19)	Groundwater Elevation (ft MSL) (Measured on 3-11-19)	Depth to Product (ft bgs) (Measured on 3-11-19)	Product Thickness (ft) (Measured on 3-11-19)	PID Headspace (ppm) (Measured on 3-11-19)	
MW-126B	IA-10	4W	S2	103.79	4.47	99.32	ND	ND	0.9	
MW-126C	IA-10	4W	S3	103.78	4.00	99.78	ND	ND	0.5	
MW-128	IA-07	OVB	S1	117.90	15.17	102.73	ND	ND	ND	X
MW-128B	IA-07	3E	S2	117.83	8.65	109.18	ND	ND	ND	
MW-128C	IA-07	3E	S3	117.90	8.20	109.70	ND	ND	ND	
MW-130	IA-15	4E	S1	100.34	7.02	93.32	ND	ND	ND	X
MW-131	IA-14	5E	S1	101.03	10.5	90.53	ND	ND	ND	X
MW-131B	IA-14	5E	S2	100.71	11.06	89.65	ND	ND	ND	
MW-131C	IA-14	5E	S3	101.44	21.32	80.12	ND	ND	ND	
MW-136B	IA-01	3W	S2	118.17	9.11	109.06	ND	ND	ND	
MW-136C	IA-01	3W	S3	118.16	10.82	107.34	ND	ND	ND	
MW-137	IA-02	2W	S1	118.42	7.56	110.86	ND	ND	ND	
MW-138	IA-11	3E	S1	117.40	9.31	108.09	ND	ND	ND	X
MW-140	IA-14	5E	S3	91.25	25.14	66.11	ND	ND	ND	
MW-141	IA-13	4E	S1	109.94	14.32	95.62	ND	ND	ND	X
MW-142B	IA-13	4E	S2	106.13	12.06	94.07	ND	ND	1.4	
MW-142C	IA-13	5E	S3	106.39	9.52	96.87	ND	ND	ND	
MW-143	IA-13	4E	S1	106.76	12.15	94.61	ND	ND	ND	X
MW-143B	IA-13	4E	S2	108.07	13.19	94.88	ND	ND	0.6	
MW-143C	IA-13	5E	S3	107.11	12.67	94.44	ND	ND	ND	
MW-144A	Off-Site - Nichols Park (Buried)	OVB	S1	98.03	5.35	92.68	ND	ND	ND	X
MW-144B	Off-Site - Nichols Park (Buried)	4E	S2	97.84	4.48	93.36	ND	ND	ND	
MW-145A	Off-Site - Building 716 Parking lot (Behind Fence)	4E	S1	101.32	17.09	84.23	ND	ND	ND	X
MW-145B	Off-Site - Building 716 Parking lot (Behind Fence)	5E	S2	101.23	19.87	81.36	ND	ND	ND	
MW-145C	Off-Site	5E	S3	101.17	30.62	70.55	ND	ND	ND	
MW-146A	Off-Site - Nichols Park (Cottage Pl. - Woods)	5E	S1	84.84	15.66	69.18	ND	ND	ND	X
MW-146B	Off-Site - Nichols Park (Cottage Pl. - Woods)	5E	S2	102.14	29.93	72.21	ND	ND	0.1	
MW-146C	Off-Site - Nichols Park (Cottage Pl. - Woods)	5E	S3	103.66	31.74	71.92	ND	ND	ND	
MW-148A	IA-14	5E	S2	87.32	21.45	65.87	ND	ND	ND	
MW-148B	IA-14	5E	S3	86.89	21.3	65.59	ND	ND	ND	
MW-149	IA-14	5E	S3	74.14	9.51	64.63	ND	ND	ND	
MW-150	IA-14	2E	S1	121.45	7.83	113.62	ND	ND	0.1	
MW-152BR	IA-09	4W	S2	118.34	12.29	106.05	ND	ND	ND	
MW-15A	IA-07	OVB	S1	109.24	5.81	103.43	ND	ND	ND	X
MW-15B	IA-07	2W	S2	109.71	--	No DTW	--	--	--	
MW-16	IA-01	1W	S1	120.38	2.06	118.32	ND	ND	ND	
MW-16A	IA-09	OVB	S1	113.74	10.14	103.60	ND	ND	ND	X
MW-170AR	IA-09	OVB	S1	118.26	12.32	105.94	ND	ND	ND	
MW-170BR	IA-09	4W	S2	118.33	10.83	107.50	ND	ND	0.3	
MW-171A	Off-Site - Bldg. 716 Driveway	4E	S1	103.26	14.27	88.99	ND	ND	2.7	
MW-171B	Off-Site - Bldg. 716 Driveway	4E	S2	103.16	14.16	89.00	ND	ND	1.1	
MW-171C	Off-Site - Bldg. 716 Driveway	5E	S3	103.44	12.73	90.71	ND	ND	ND	
MW-172	IA-11	4E	S1	136.88	31.01	105.87	ND	ND	ND	X
MW-172C	IA-11	4E	S2	138.01	41.02	96.99	ND	ND	ND	X
MW-172-S3	IA-11	5E	S3	137.62	39.14	98.48	ND	ND	0.1	
MW-173C	IA-11	5E	S3	108.01	10.08	97.93	ND	ND	ND	
MW-174	IA-04	4W	S1	120.01	9.35	110.66	ND	ND	ND	
MW-178	IA-04	4W	S1	117.49	5.14	112.35	ND	ND	ND	
MW-184	IA-04	3W	S1	121.43	9.86	111.57	ND	ND	ND	
MW-187	IA-03	OVB	S1	116.58	10.81	105.77	ND	ND	ND	
MW-188	IA-03	2E	S1	121.41	9.84	111.57	ND	ND	ND	
MW-189A	IA-03	OVB	S1	119.35	4.31	115.04	ND	ND	0.1	X
MW-189B	IA-03	3E	S2	119.39	7.77	111.62	ND	ND	0.5	
MW-190A	IA-03	OVB	S1	120.50	5.21	115.29	ND	ND	ND	X
MW-190B	IA-03	3E	S2	120.76	8.85	111.91	ND	ND	ND	
MW-191B	IA-03	3E	S2	119.83	7.98	111.85	ND	ND	0.1	
MW-192	IA-07	OVB	S1	110.08	8.04	102.04	ND	ND	ND	X
MW-193	IA-07	OVB	S1	113.09	9.30	103.79	ND	ND	ND	X
MW-194	IA-07	OVB	S1	114.12	--	No DTW	--	--	--	X
MW-196	IA-07	3E	S1	119.11	11.05	108.06	ND	ND	0.4	X
MW-197	IA-07	3E	S1	118.44	--	No DTW	--	--	--	X
MW-199	IA-07	3E	S1	118.75	12.91	105.84	ND	ND	ND	X
MW-19A	IA-07	3E	S1	118.88	7.81	111.07	ND	ND	ND	X
MW-1G	Off-Site - 413 Kingsland St. Gas station	OVB	S1	102.76	4.71	98.05	ND	ND	ND	X
MW-200	IA-04	3W	S1	120.58	8.92	111.66	ND	ND	ND	
MW-201	Off-Site - DOT Rt. 3 West ROW	2E	S1	122.79	7.30	115.49	ND	ND	ND	
MW-201A	Off-Site - DOT Rt. 3 West ROW	2E	S1	122.69	9.67	113.02	ND	ND	32.7	X
MW-201B	Off-Site - DOT Rt. 3 West ROW	2E	S2	122.48	8.24	114.24	ND	ND	0.3	
MW-201C	Off-Site - DOT Rt. 3 West ROW	3E	S3	122.48	14.28	108.20	ND	ND	0.8	
MW-202	Off-Site - DOT Rt. 3 West ROW	2E	S1	123.39	8.96	114.43	ND	ND	ND	X
MW-203	Off-Site - DOT Rt. 3 West ROW	2E	S1	125.93	7.51	118.42	ND	ND	ND	X
MW-204C	IA-07	4E	S3	114.76	13.57	101.19	ND	ND	ND	
MW-206B	IA-10	1W	S2	120.59	2.20	118.39	ND	ND	ND	
MW-206C	IA-10	1W	S3	120.23	1.76	118.47	ND	ND	ND	X
MW-207A	IA-10	OVB	S1	113.92	3.38	110.54	ND	ND	ND	X
MW-207B	IA-10	2W	S2	114.11	5.73	108.38	ND	ND	ND	
MW-207C	IA-10	2W	S3	114.16	7.41	106.75	ND	ND	0.1	
MW-208A	IA-10	OVB	S1	110.56	7.49	103.07	ND	ND	ND	X
MW-208B	IA-10	3W	S2	110.16	7.49	102.67	ND	ND	ND	
MW-208C	IA-10	3W	S3	110.92	8.68	102.24	ND	ND	0.1	X

**Table 4-2  
Groundwater Elevation Measurements - March 11, 2019  
Hoffmann-La Roche Inc. Site - Nutley, New Jersey**

Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	March 11, 2019 (1Q 2019)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (MSL)	Depth to Water (ft bgs) (Measured on 3-11-19)	Groundwater Elevation (ft MSL) (Measured on 3-11-19)	Depth to Product (ft bgs) (Measured on 3-11-19)	Product Thickness (ft) (Measured on 3-11-19)	PID Headspace (ppm) (Measured on 3-11-19)	
MW-209A	Off-Site - Bldg. 120 (Park Pub) Parking lot	OVB	S1	102.84	2.83	100.01	ND	ND	ND	
MW-209B	Offsite	4W	S2	102.77	--	No DTW	--	--	--	
MW-209C	Offsite	4W	S3	102.77	--	No DTW	--	--	--	X
MW-21	IA-09	OVB	S1	114.79	10.25	104.54	ND	ND	ND	X
MW-210	IA-10	2W	S1	113.92	3.07	110.85	ND	ND	ND	X
MW-211C	IA-12	5W	S3	123.01	13.96	109.05	ND	ND	5.3	
MW-212C	IA-07	5W	S3	114.60	11.31	103.29	ND	ND	2.3	
MW-213B	Off-Site - Alexander Ave.	1W	S1	148.46	28.42	120.04	ND	ND	ND	
MW-213C	Off-Site - Alexander Ave.	1W	S2	148.71	26.09	122.62	ND	ND	ND	X
MW-214A	Off-Site - Edison Ave.	OVB	S1	121.74	17.82	103.92	ND	ND	ND	X
MW-214B	Off-Site - Edison Ave.	2W	S2	121.45	17.43	104.02	ND	ND	ND	
MW-214C	Off-Site - Edison Ave.	3W	S3	121.87	18.19	103.68	ND	ND	ND	
MW-215C	Off-Site - Funston Pl.	4E	S3	103.44	8.25	95.19	ND	ND	0.1	X
MW-216C	Off-Site - Cottage Pl.	5E	S3	107.80	20.26	87.54	ND	ND	ND	
MW-217BR	IA-09	4W	S2	119.07	10.56	108.51	ND	ND	0.3	
MW-218C	IA-07	3E	S3	108.88	9.52	99.36	ND	ND	3.8	X
MW-221C	IA-15	5E	S3	100.17	6.36	93.81	ND	ND	ND	
MW-222	Off-Site - Hillside Ave.	5E	S3	81.99	20.87	61.12	ND	ND	ND	
MW-222C	Off-Site - Hillside Ave.	5E	D2	83.50	28.98	54.52	ND	ND	ND	
MW-224B	IA-12	2E	S2	122.42	9.06	113.36	ND	ND	2.0	
MW-225B	IA-03	2E	S2	122.15	11.14	111.01	ND	ND	1.0	
MW-225C	IA-03	5W	S3	121.39	11.98	109.41	ND	ND	ND	
MW-226A	IA-02	3W	S1	119.53	7.90	111.63	ND	ND	ND	X
MW-226B	IA-02	3W	S2	119.51	11.13	108.38	ND	ND	ND	
MW-226C	IA-02	4W	S3	119.35	13.11	106.24	ND	ND	ND	
MW-227C	IA-11	4E	S3	112.10	12.94	99.16	ND	ND	ND	X
MW-229A	IA-10	OVB	S1	127.19	7.81	119.38	ND	ND	1.0	X
MW-229B	IA-10	1W	S2	127.49	8.20	119.29	ND	ND	0.6	
MW-229C	IA-10	1W	S3	126.96	7.94	119.02	ND	ND	1.9	
MW-230C	IA-10	1W	S3	120.07	2.09	117.98	ND	ND	ND	X
MW-231B	IA-12	3W	S2	120.63	9.67	110.96	ND	ND	ND	
MW-231C	IA-12	4W	S3	120.58	11.31	109.27	ND	ND	0.2	
MW-232B	IA-12	2E	S1	132.36	13.64	118.72	ND	ND	ND	
MW-232C	IA-12	3E	S2	133.19	20.07	113.12	ND	ND	ND	X
MW-233C	IA-12	5W	S3	123.37	10.11	113.26	ND	ND	ND	
MW-235	IA-12	3W	S1	121.19	10.13	111.06	ND	ND	ND	
MW-236B	Off-Site - Spruce St.	4W	S2	109.61	8.75	100.86	ND	ND	ND	
MW-236C	Off-Site - Spruce St.	4W	S3	110.07	10.46	99.61	ND	ND	ND	
MW-237A	IA-10	2W	S1	135.43	16.52	119.09	16.28	0.24	688.9	X
MW-237B	IA-12	3W	S2	135.81	21.1	114.71	ND	ND	ND	
MW-237C	IA-12	3W	S3	135.96	27.57	108.39	ND	ND	ND	X
MW-238C	IA-07	5W	S3	108.61	11.30	97.31	ND	ND	ND	X
MW-239	IA-03	OVB	S1	120.84	10.78	110.06	ND	ND	0.1	
MW-239C	IA-03	5W	S3	121.61	11.99	109.62	ND	ND	19.7	
MW-24	IA-12	2E	S1	122.46	9.71	112.75	ND	ND	0.9	
MW-240BR	IA-02	3W	S2	118.78	11.21	107.57	ND	ND	ND	
MW-248A	IA-07	OVB	S1	109.14	9.65	99.49	ND	ND	ND	
MW-249A	IA-07	2E	S1	112.27	11.25	101.02	ND	ND	0.9	X
MW-24A	IA-12	2E	S2	123.27	11.40	111.87	ND	ND	56.4	
MW-24B	IA-12	2E	S2	122.05	9.32	112.73	ND	ND	7.1	
MW-24C	IA-03	2E	S2	122.05	11.67	110.38	ND	ND	3.5	
MW-250B	IA-12	2W	S2	121.63	8.81	112.82	ND	ND	4.0	
MW-252C	IA-09	4W	S3	114.88	10.27	104.61	ND	ND	0.2	X
MW-253A	IA-07	2E	S1	112.50	8.54	103.96	ND	ND	ND	X
MW-253B	IA-07	3E	S2	113.16	9.30	103.86	ND	ND	ND	
MW-253C	IA-07	3E	S3	112.95	9.61	103.34	ND	ND	0.9	X
MW-255B	IA-01	2W	S1	120.51	5.64	114.87	ND	ND	ND	
MW-257A	Off-Site - Nichols Park (Grass)	4E	S1	101.16	13.36	87.80	ND	ND	ND	X
MW-257B	Off-Site - Nichols Park (Grass)	4E	S2	101.19	13.02	88.17	ND	ND	ND	
MW-258B	Off-Site - Colonial Terrace	5E	S2	132.71	53.47	79.24	ND	ND	ND	
MW-258C	Off-Site - Colonial Terrace	5E	S3	132.76	58.39	74.37	ND	ND	0.4	
MW-260C	IA-03	4E	S2	157.15	56.3	100.85	ND	ND	ND	
MW-260-S3	IA-03	5E	S3	160.61	61.44	99.17	ND	ND	0.2	
MW-265B	IA-12	4W	S2	120.22	6.92	113.30	ND	ND	ND	
MW-265C	IA-12	4W	S3	120.33	10.88	109.45	ND	ND	ND	
MW-266A	IA-12	1W	S1	119.80	1.83	117.97	ND	ND	ND	X
MW-266B	IA-12	2W	S2	119.90	0.10	119.80	ND	ND	ND	
MW-266C	IA-12	2W	S3	119.89	4.81	115.08	ND	ND	1.1	
MW-267A	Private Road	1W	S1	153.87	23.44	130.43	ND	ND	ND	
MW-267B	Private Road	1W	S2	152.49	28.70	123.79	ND	ND	ND	
MW-267C	Private Road	2W	S3	152.87	31.51	121.36	ND	ND	0.8	
MW-269A	IA-07	4E	S1	149.26	49.24	100.02	ND	ND	ND	X
MW-269C	IA-07	5E	S3	149.03	50.28	98.75	ND	ND	0.1	
MW-27	IA-10	1W	S1	112.81	2.82	109.99	ND	ND	0.3	X
MW-270A	IA-07	4E	S1	154.79	54.44	100.35	ND	ND	0.1	X
MW-270C	IA-07	5E	S3	154.27	54.97	99.30	ND	ND	0.1	X
MW-271A	IA-12	3E	S1	150.96	35.00	115.96	ND	ND	ND	X
MW-271B	IA-12	4E	S2	150.29	46.69	103.60	ND	ND	ND	
MW-271C	IA-12	4E	S3	151.06	49.91	101.15	ND	ND	2.4	
MW-272C	IA-12	3E	S3	136.56	20.52	116.04	ND	ND	0.3	

**Table 4-2  
Groundwater Elevation Measurements - March 11, 2019  
Hoffmann-La Roche Inc. Site - Nutley, New Jersey**

Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	March 11, 2019 (1Q 2019)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (MSL)	Depth to Water (ft bgs) (Measured on 3-11-19)	Groundwater Elevation (ft MSL) (Measured on 3-11-19)	Depth to Product (ft bgs) (Measured on 3-11-19)	Product Thickness (ft) (Measured on 3-11-19)	PID Headspace (ppm) (Measured on 3-11-19)	
MW-273B	IA-10	1W	S2	121.77	2.93	118.84	ND	ND	ND	
MW-273C	IA-10	1W	S3	121.55	2.92	118.63	ND	ND	0.1	X
MW-274A	IA-10	OVB	S1	128.20	2.93	125.27	ND	ND	4.4	X
MW-274B	IA-10	1W	S2	127.31	5.83	121.48	ND	ND	ND	
MW-274C	IA-10	1W	S3	126.57	7.80	118.77	ND	ND	1.1	
MW-275A	IA-10	OVB	S1	105.17	4.03	101.14	ND	ND	ND	X
MW-275B	IA-10	3W	S2	105.38	3.59	101.79	ND	ND	3.4	X
MW-275C	IA-10	4W	S3	105.75	3.85	101.90	ND	ND	ND	
MW-276A	IA-13	4E	S1	115.45	15.81	99.64	ND	ND	ND	X
MW-276B	IA-13	5E	S2	114.83	15.89	98.94	ND	ND	ND	
MW-276C	IA-13	5E	S3	114.46	36.04	78.42	ND	ND	ND	
MW-277A	IA-14	OVB	S1	94.50	13.15	81.35	ND	ND	ND	X
MW-277B	IA-14	5E	S2	93.90	13.04	80.86	ND	ND	0.1	
MW-277C	IA-14	5E	S3	93.26	21.55	71.71	ND	ND	ND	
MW-278B	IA-15	5E	S2	92.76	19.11	73.65	ND	ND	ND	
MW-27B	IA-10	2W	S2	113.19	2.93	110.26	ND	ND	0.1	
MW-27C	IA-10	2W	S3	112.88	3.10	109.78	ND	ND	0.2	X
MW-28	IA-10	1W	S1	113.07	2.99	110.08	ND	ND	ND	X
MW-286A	IA-10	OVB	S1	117.33	--	No DTW	--	--	--	
MW-288B	IA-07	2E	S2	113.46	11.88	101.58	ND	ND	ND	X
MW-291A	IA-07	3E	S1	109.19	8.14	101.05	ND	ND	ND	X
MW-292A	IA-07	2E	S1	107.61	8.21	99.40	ND	ND	ND	X
MW-292B	IA-07	3E	S2	106.90	8.32	98.58	ND	ND	ND	X
MW-294C	IA-12	3E	S3	123.14	13.85	109.29	ND	ND	ND	
MW-295C	IA-12	3E	S3	123.38	14.14	109.24	ND	ND	ND	
MW-296A	IA-12	2E	S1	122.46	9.53	112.93	ND	ND	ND	X
MW-297B	IA-09	4W	S2	118.77	12.78	105.99	ND	ND	ND	
MW-2B	IA-04	3W	S2	120.55	11.90	108.65	ND	ND	ND	
MW-2C	IA-04	4W	S3	120.55	14.36	106.19	ND	ND	ND	X
MW-3	IA-12	3E	S2	158.50	44.86	113.64	ND	ND	ND	
MW-301C	IA-12	4E	S3	102.25	6.10	96.15	ND	ND	ND	X
MW-302C	IA-11	4E	S3	117.33	18.77	98.56	ND	ND	ND	
MW-303C	IA-11	4E	S3	110.20	13.95	96.25	ND	ND	ND	
MW-304A	Off-Site	4E	S1	101.04	9.12	91.92	ND	ND	ND	
MW-304B	Off-Site	4E	S2	101.18	7.80	93.38	ND	ND	8.9	
MW-304C	Off-Site	5E	S3	100.99	6.19	94.80	ND	ND	1.9	X
MW-305B	IA-02	3W	S2	119.10	11.61	107.49	ND	ND	ND	X
MW-306B	IA-02	3W	S2	118.76	10.7	108.06	ND	ND	ND	
MW-31	IA-10	OVB	S1	113.37	3.06	110.31	ND	ND	ND	X
MW-311C	IA-02	4W	S3	118.88	11.19	107.69	ND	ND	ND	
MW-313B	IA-02	3W	S2	118.57	10.73	107.84	ND	ND	ND	X
MW-315B	IA-02	3W	S2	119.14	11.72	107.42	ND	ND	ND	X
MW-32	IA-10	OVB	S1	118.77	4.25	114.52	ND	ND	ND	X
MW-320C	IA-10	4W	S3	108.38	2.09	106.29	ND	ND	ND	
MW-325B	IA-11	3E	S2	101.93	5.30	96.63	ND	ND	ND	
MW-329C	IA-11	4E	S3	102.52	6.15	96.37	ND	ND	ND	
MW-33	IA-11	OVB	S1	103.69	7.57	96.12	ND	ND	ND	X
MW-330C	IA-11	4E	S3	101.54	5.13	96.41	ND	ND	ND	
MW-331C	IA-11	4E	S3	100.09	4.50	95.59	ND	ND	ND	X
MW-332C	IA-11	4E	S3	101.43	5.25	96.18	ND	ND	ND	
MW-333C	IA-11	4E	S3	100.65	4.91	95.74	ND	ND	ND	X
MW-336B	IA-15	4E	S2	98.51	5.93	92.58	ND	ND	ND	
MW-336C	IA-15	5E	S3	98.48	--	No DTW	--	--	--	
MW-337C	IA-15	5E	S3	96.80	2.20	94.60	ND	ND	ND	
MW-338A	Off-Site	4E	S1	102.68	12.71	89.97	ND	ND	ND	
MW-338C	Off-Site	5E	S3	103.00	10.72	92.28	ND	ND	0.6	
MW-339C	Off-Site	5E	S3	103.45	11.36	92.09	ND	ND	3.8	
MW-33A	IA-11	OVB	S1	101.91	5.37	96.54	ND	ND	ND	X
MW-34	IA-03	3E	S1	148.88	35.25	113.63	ND	ND	0.1	X
MW-340A	Off-Site	4E	S1	103.99	11.18	92.81	ND	ND	ND	
MW-340B	Off-Site	5E	S2	103.99	17.48	86.51	ND	ND	1.0	
MW-340C	Off-Site	5E	S3	103.96	32.56	71.40	ND	ND	ND	
MW-345C	Off-Site	4E	S3	101.82	5.55	96.27	ND	ND	ND	
MW-347B	IA-10	3W	S2	109.38	5.29	104.09	ND	ND	0.3	
MW-347C	IA-10	3W	S3	109.33	6.21	103.12	ND	ND	1.2	X
MW-348B	IA-10	3W	S2	109.45	5.39	104.06	ND	ND	0.3	
MW-348C	IA-10	3W	S3	109.25	6.65	102.60	ND	ND	0.9	
MW-349B	IA-10	3W	S2	106.47	4.38	102.09	ND	ND	0.5	X
MW-349C	IA-10	4W	S3	106.35	4.40	101.95	ND	ND	0.7	
MW-351B	IA-04	4W	S2	120.81	12.44	108.37	ND	ND	ND	
MW-351C	IA-04	4W	S3	120.39	12.80	107.59	ND	ND	ND	
MW-353A	Off-Site - DOT Rt. 3 West ROW	3E	S1	146.95	30.22	116.73	ND	ND	ND	X
MW-353B	Off-Site - DOT Rt. 3 West ROW	3E	S2	146.95	30.52	116.43	ND	ND	ND	
MW-353C	Off-Site - DOT Rt. 3 West ROW	4E	S3	147.15	43.85	103.30	ND	ND	4.3	X
MW-354A	IA-04	2W	S1	121.20	7.75	113.45	ND	ND	ND	
MW-355A	IA-04	2W	S1	121.08	6.10	114.98	ND	ND	ND	
MW-357-S2	IA-01	3W	S2	121.06	5.23	115.83	ND	ND	ND	
MW-357-S3	IA-01	3W	S3	120.85	11.61	109.24	ND	ND	ND	
MW-358B	IA-12	2E	S2	123.76	11.31	112.45	ND	ND	0.3	
MW-360B	IA-12	2E	S2	123.90	11.44	112.46	ND	ND	2.3	

**Table 4-2  
Groundwater Elevation Measurements - March 11, 2019  
Hoffmann-La Roche Inc. Site - Nutley, New Jersey**

Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	March 11, 2019 (1Q 2019)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (MSL)	Depth to Water (ft bgs) (Measured on 3-11-19)	Groundwater Elevation (ft MSL) (Measured on 3-11-19)	Depth to Product (ft bgs) (Measured on 3-11-19)	Product Thickness (ft) (Measured on 3-11-19)	PID Headspace (ppm) (Measured on 3-11-19)	
MW-362B	IA-12	2E	S2	123.12	10.3	112.82	ND	ND	ND	
MW-363A	IA-12	2E	S1	123.23	10.59	112.64	ND	ND	ND	
MW-363C	IA-12	2E	S3	123.39	10.99	112.40	ND	ND	ND	
MW-364C	IA-12	2E	S3	122.52	10.20	112.32	ND	ND	ND	
MW-366A	IA-11	4E	S1	103.14	9.06	94.08	ND	ND	ND	X
MW-366C	IA-11	5E	S3	103.77	2.19	101.58	ND	ND	ND	
MW-367A	IA-15	OVB	S1	97.02	7.19	89.83	ND	ND	ND	X
MW-367C	IA-15	5E	S3	96.97	2.12	94.85	ND	ND	ND	
MW-367-S2	IA-15	4E	S2	96.96	2.91	94.05	ND	ND	2.1	
MW-367-S3	IA-15	5E	S3	96.85	2.88	93.97	ND	ND	ND	
MW-37	IA-03	2E	S1	134.73	--	No DTW	--	--	--	X
MW-371A	IA-04	2W	S1	122.06	5.79	116.27	ND	ND	ND	
MW-371B	IA-04	3W	S2	121.91	9.16	112.75	ND	ND	ND	
MW-371C	IA-04	4W	S3	121.96	16.31	105.65	ND	ND	ND	X
MW-372A	IA-01	2W	S1	120.42	3.35	117.07	ND	ND	ND	
MW-373A	IA-07	4E	S1	138.13	28.81	109.32	ND	ND	0.1	
MW-373B	IA-07	4E	S2	137.93	38.96	98.97	ND	ND	0.6	X
MW-373C	IA-07	5E	S3	137.48	38.88	98.60	ND	ND	0.2	
MW-374B	IA-07	4E	S2	140.57	41.18	99.39	ND	ND	ND	X
MW-374C	IA-07	5E	S3	140.49	41.81	98.68	ND	ND	ND	X
MW-375A	IA-12	2E	S1	143.37	26.86	116.51	ND	ND	ND	
MW-375B	IA-12	3E	S2	144.35	28.33	116.02	ND	ND	ND	X
MW-375C	IA-12	4E	S3	144.76	41.55	103.21	ND	ND	ND	X
MW-376B	IA-12	3E	S2	151.37	38.35	113.02	ND	ND	0.1	
MW-376C	IA-12	4E	S3	150.96	50.90	100.06	ND	ND	0.6	
MW-376-S3	IA-12	4E	S3	150.48	49.05	101.43	ND	ND	1.0	X
MW-377B	IA-07	4E	S2	145.15	--	No DTW	--	--	--	
MW-377C	IA-07	4E	S3	145.21	45.09	100.12	ND	ND	0.3	X
MW-378C	IA-07	4E	S3	147.85	29.25	118.60	ND	ND	ND	X
MW-38	IA-03	OVB	S1	118.65	--	No DTW	--	--	--	X
MW-384A	IA-01	2W	S1	119.66	2.37	117.29	ND	ND	ND	X
MW-387A	IA-01	2W	S1	120.69	4.71	115.98	ND	ND	ND	
MW-387B	IA-01	2W	S2	120.68	6.21	114.47	ND	ND	ND	X
MW-387C	IA-01	4W	S3	120.59	13.84	106.75	ND	ND	ND	
MW-388B	IA-01	3W	S2	121.02	8.45	112.57	ND	ND	ND	
MW-390B	IA-01	2W	S2	120.88	6.14	114.74	ND	ND	ND	
MW-391C	IA-01	3W	S3	119.62	12.93	106.69	ND	ND	ND	X
MW-391-S3	IA-01	3W	S3	119.45	9.94	109.51	ND	ND	ND	
MW-392A	IA-01	2W	S1	119.59	1.85	117.74	ND	ND	ND	
MW-392B	IA-01	3W	S2	119.95	9.88	110.07	ND	ND	ND	
MW-392C	IA-01	4W	S3	119.94	13.23	106.71	ND	ND	ND	
MW-393B	IA-01	3W	S2	120.55	9.93	110.62	ND	ND	ND	
MW-393C	IA-01	4W	S3	120.66	13.80	106.86	ND	ND	ND	
MW-394B	IA-01	2W	S2	119.61	4.54	115.07	ND	ND	ND	
MW-394C	IA-01	3W	S3	119.38	11.19	108.19	ND	ND	ND	
MW-3C	IA-12	5E	S3	159.06	59.54	99.52	ND	ND	1.6	X
MW-3G	Off-Site - 413 Kingsland St. Gas station	OVB	S1	102.06	3.37	98.69	ND	ND	ND	X
MW-40A	IA-03	3E	S2	118.45	6.45	112.00	ND	ND	ND	
MW-41	IA-03	3E	S2	118.35	7.23	111.12	ND	ND	ND	
MW-413BR	IA-11	3E	S2	101.67	5.15	96.52	ND	ND	ND	
MW-416A	IA-01	2W	S1	118.65	6.54	112.11	ND	ND	ND	
MW-416B	IA-01	2W	S2	118.58	7.60	110.98	ND	ND	ND	X
MW-416C	IA-01	3W	S3	118.53	12.03	106.50	ND	ND	ND	X
MW-417A	IA-07	3E	S1	128.36	19.81	108.55	ND	ND	0.4	
MW-417B	IA-07	4E	S2	128.06	28.89	99.17	ND	ND	ND	
MW-417C	IA-07	5E	S3	128.31	29.39	98.92	ND	ND	1.7	
MW-426A	IA-04	2W	S1	121.63	6.61	115.02	ND	ND	ND	
MW-426B	IA-04	3W	S2	121.77	11.10	110.67	ND	ND	ND	
MW-427B	IA-04	3W	S2	122.08	12.13	109.95	ND	ND	ND	X
MW-428B	IA-04	3W	S2	121.66	12.41	109.25	ND	ND	ND	
MW-428C	IA-04	4W	S3	121.75	16.15	105.60	ND	ND	ND	
MW-429C	IA-13	5E	S3	102.91	8.21	94.70	ND	ND	ND	X
MW-43	IA-10	1W	S1	123.77	10.93	112.84	ND	ND	ND	
MW-433C	IA-12	4E	S3	134.90	33.67	101.23	ND	ND	0.5	X
MW-434C	IA-03	4E	S3	119.69	18.36	101.33	ND	ND	11.6	
MW-436A	IA-12	2E	S1	124.54	9.94	114.60	ND	ND	ND	
MW-437A	IA-12	2W	S1	123.00	10.25	112.75	ND	ND	2.3	
MW-438B	IA-04	2W	S2	123.85	13.23	110.62	ND	ND	8.5	
MW-439B	IA-03	5W	S2	119.85	9.20	110.65	ND	ND	0.8	
MW-44	IA-10	1W	S1	126.99	7.09	119.90	ND	ND	0.1	X
MW-443A	IA-12	OVB	S1	125.39	10.22	115.17	ND	ND	ND	
MW-443B	IA-12	2E	S2	125.39	11.13	114.26	ND	ND	ND	
MW-445B	IA-12	2E	S2	123.27	10.42	112.85	ND	ND	ND	
MW-446A	IA-10	1W	S1	114.21	3.75	110.46	ND	ND	ND	
MW-448B	IA-11	3E	S3	104.90	8.80	96.10	ND	ND	ND	
MW-449C	IA-11	4E	S3	106.01	8.55	97.46	ND	ND	ND	
MW-44B	IA-10	1W	S2	126.17	10.94	115.23	ND	ND	ND	
MW-44C	IA-10	2W	S3	128.26	15.88	112.38	ND	ND	ND	
MW-451B	IA-11	4E	S2	111.15	14.96	96.19	ND	ND	ND	X
MW-452C	IA-11	4E	S3	115.94	18.14	97.80	ND	ND	ND	X



**Table 4-2  
Groundwater Elevation Measurements - March 11, 2019  
Hoffmann-La Roche Inc. Site - Nutley, New Jersey**

Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	March 11, 2019 (1Q 2019)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (MSL)	Depth to Water (ft bgs) (Measured on 3-11-19)	Groundwater Elevation (ft MSL) (Measured on 3-11-19)	Depth to Product (ft bgs) (Measured on 3-11-19)	Product Thickness (ft) (Measured on 3-11-19)	PID Headspace (ppm) (Measured on 3-11-19)	
MW-453C1	IA-11	4E	S3	109.34	12.58	96.76	ND	ND	ND	
MW-453C2	IA-11	5E	S3	109.35	11.28	98.07	ND	ND	ND	
MW-455C	IA-11	5E	S3	113.05	15.20	97.85	ND	ND	ND	
MW-456C1	IA-11	4E	S3	109.94	11.38	98.56	ND	ND	ND	X
MW-456C2	IA-11	4E	S3	110.02	11.79	98.23	ND	ND	3.8	
MW-457C1	IA-11	4E	S3	106.69	8.86	97.83	ND	ND	ND	X
MW-457C2	IA-11	5E	S3	106.66	9.07	97.59	ND	ND	ND	X
MW-458C1	IA-11	4E	S3	103.04	--	No DTW	--	--	--	X
MW-458C2	IA-11	4E	S3	103.13	7.86	95.27	ND	ND	ND	
MW-459C	IA-11	5E	S3	119.11	20.71	98.40	ND	ND	ND	
MW-46	IA-07	4E	S1	144.55	46.3	98.25	ND	ND	0.1	X
MW-460C	IA-13	5E	S3	109.11	11.71	97.40	ND	ND	ND	
MW-461C	IA-13	5E	S3	107.68	9.47	98.21	ND	ND	0.1	
MW-462C1	IA-15	5E	S3	95.94	16.76	79.18	ND	ND	ND	
MW-462C2	IA-15	5E	S3	95.96	25.87	70.09	ND	ND	ND	
MW-463C	IA-07	5E	S3	128.46	29.73	98.73	ND	ND	8.4	X
MW-464C1	IA-07	4E	S3	116.77	17.87	98.90	ND	ND	ND	X
MW-464C2	IA-07	5E	S3	116.91	18.07	98.84	ND	ND	ND	X
MW-465C1	IA-07	4E	S3	110.73	11.51	99.22	ND	ND	ND	X
MW-465C2	IA-07	4E	S3	110.69	11.87	98.82	ND	ND	ND	
MW-466A	IA-09	OVb	S1	118.57	12.57	106.00	ND	ND	7.0	
MW-467A	IA-09	OVb	S1	119.27	12.07	107.20	ND	ND	ND	
MW-47	IA-14	OVb	S2	77.02	6.19	70.83	ND	ND	ND	
MW-471A	IA-09	OVb	S1	117.57	9.42	108.15	ND	ND	ND	
MW-472A	IA-10	1W	S1	114.56	4.61	109.95	ND	ND	0.2	
MW-472S	IA-10	OVb	S1	114.61	3.40	111.21	ND	ND	ND	
MW-473A	Off-Site - Windsor Place	1W	S1	113.47	5.21	108.26	ND	ND	ND	
MW-474A	Off-Site - Windsor Place	1W	S1	114.00	7.05	106.95	ND	ND	1.2	
MW-474B	Off-Site - Windsor Place	2W	S2	113.95	2.20	111.75	ND	ND	ND	
MW-475A	Off-Site - Windsor Place	1W	S1	116.40	6.47	109.93	ND	ND	0.3	
MW-476A	IA-10	1W	S1	113.35	3.20	110.15	ND	ND	ND	
MW-477A	IA-10	2W	S1	113.08	2.42	110.66	ND	ND	4.2	
MW-478B	Off-Site	4E	S2	97.65	2.74	94.91	ND	ND	ND	
MW-478C	Off-Site	4E	S3	97.85	2.65	95.20	ND	ND	0.2	
MW-479A	IA-10	1W	S1	115.73	3.13	112.60	ND	ND	0.1	
MW-479B	IA-10	2W	S2	115.48	4.79	110.69	ND	ND	3.4	
MW-479C	IA-10	3W	S3	115.63	9.20	106.43	ND	ND	0.1	
MW-479S	IA-10	OVb	S1	115.61	2.50	113.11	ND	ND	ND	
MW-48	IA-14	OVb	S2	68.59	9.50	59.09	ND	ND	ND	
MW-480A	IA-10	1W	S1	119.78	5.14	114.64	ND	ND	ND	
MW-481B	IA-10	2W	S2	118.30	9.45	108.85	ND	ND	0.2	
MW-481C	IA-10	2W	S3	118.70	10.73	107.97	ND	ND	0.2	X
MW-482B	IA-10	2W	S2	112.92	4.85	108.07	ND	ND	ND	
MW-482C	IA-10	2W	S3	113.28	5.93	107.35	ND	ND	1.2	X
MW-483B	IA-10	2W	S2	112.48	5.18	107.30	ND	ND	0.3	
MW-483C	IA-10	2W	S3	112.19	6.08	106.11	ND	ND	0.4	X
MW-485A	Off-Site - Windsor Place	1W	S1	113.74	2.94	110.80	ND	ND	0.2	
MW-486A	Off-Site - Windsor Place	1W	S1	113.70	6.90	106.80	ND	ND	ND	
MW-487A	Off-Site - Windsor Place	1W	S1	114.35	4.99	109.36	ND	ND	34.80	
MW-487B	Off-Site - Windsor Place	2W	S2	114.54	3.02	111.52	ND	ND	ND	
MW-487S	Off-Site - Windsor Place	1W	S1	114.36	7.43	106.93	ND	ND	ND	
MW-488A	Off-Site - Windsor Place	1W	S1	114.88	7.80	107.08	ND	ND	110.7	
MW-488B	Off-Site - Windsor Place	2W	S2	114.99	3.47	111.52	ND	ND	0.3	
MW-489A	Off-Site - Windsor Place	1W	S1	115.55	6.86	108.69	ND	ND	0.5	
MW-48B	IA-14	5E	S3	68.52	7.37	61.15	ND	ND	ND	
MW-48C	IA-14	5E	D1	68.15	8.18	59.97	ND	ND	ND	
MW-49	IA-14	5E	S2	70.42	7.84	62.58	ND	ND	ND	
MW-492B	IA-07	3E	S2	113.18	9.67	103.51	ND	ND	0.2	
MW-493B	IA-07	2E	S2	112.68	--	No DTW	--	--	--	
MW-495B	IA-07	3E	S2	112.66	9.66	103.00	ND	ND	0.3	
MW-496A	Off-Site	1W	S1	114.13	4.12	110.01	ND	ND	1.8	
MW-496S	Off-Site	1W	S1	114.22	5.73	108.49	ND	ND	ND	
MW-498A	IA-11	OVb	S1	102.58	7.31	95.27	ND	ND	NR	
MW-498B	IA-11	3E	S2	102.58	7.02	95.56	ND	ND	ND	
MW-501B	IA-10	1W	S2	117.27	3.53	113.74	ND	ND	ND	X
MW-502B	IA-09	2E	S2	110.61	8.27	102.34	ND	ND	0.5	
MW-503C	IA-09	3E	S3	110.68	9.63	101.05	ND	ND	0.3	
MW-55B	IA-11	4E	S2	103.53	8.35	95.18	ND	ND	ND	X
MW-55C	IA-11	5E	S3	103.85	8.63	95.22	ND	ND	ND	X
MW-57	IA-15	4E	S1	98.16	5.76	92.40	ND	ND	ND	X
MW-58	IA-12	1W	S1	137.12	15.85	121.27	ND	ND	ND	
MW-59	IA-12	3W	S1	127.40	8.69	118.71	ND	ND	ND	X
MW-60A	IA-12	2E	S1	125.77	8.73	117.04	ND	ND	ND	X
MW-60A-S2	IA-12	3E	S2	126.18	13.43	112.75	ND	ND	ND	
MW-60A-S3	IA-12	3E	S3	126.41	14.75	111.66	ND	ND	ND	
MW-60B	IA-12	2E	S1	132.06	13.97	118.09	ND	ND	ND	X
MW-60C	IA-12	2W	S1	121.59	8.23	113.36	ND	ND	ND	
MW-60G-S3	IA-12	5W	S3	122.40	9.04	113.36	ND	ND	ND	
MW-60H	Off-Site - DOT Rt. 3 East ROW	OVb	S1	122.69	9.30	113.39	ND	ND	ND	X
MW-60I	Off-Site - DOT Rt. 3 East ROW	OVb	S1	123.28	9.88	113.40	ND	ND	ND	X

**Table 4-2  
Groundwater Elevation Measurements - March 11, 2019  
Hoffmann-La Roche Inc. Site - Nutley, New Jersey**

Well Name	Investigative Area (IA)	Hydro-geologic Unit (HGU)	Vertical Investigation Zone	March 11, 2019 (1Q 2019)						Potentiometric Surface Map (Figure 4)
				Measuring Point Elevation (MSL)	Depth to Water (ft bgs) (Measured on 3-11-19)	Groundwater Elevation (ft MSL) (Measured on 3-11-19)	Depth to Product (ft bgs) (Measured on 3-11-19)	Product Thickness (ft) (Measured on 3-11-19)	PID Headspace (ppm) (Measured on 3-11-19)	
MW-60J	Off-Site - DOT Rt. 3 East ROW	OVB	S1	124.31	5.64	118.67	ND	ND	ND	X
MW-60K	Off-Site - DOT Rt. 3 East ROW	4W	S1	122.02	5.35	116.67	ND	ND	ND	X
MW-60L	Off-Site - DOT Rt. 3 East ROW	2W	S1	121.81	7.69	114.12	ND	ND	ND	X
MW-60M	IA-12	2E	S1	123.54	8.36	115.18	ND	ND	ND	
MW-60R	IA-12	OVB	S1	123.13	9.57	113.56	ND	ND	ND	
MW-60-Z2R	IA-12	2W	S2	122.56	8.97	113.59	ND	ND	ND	
MW-61	IA-12	3E	S1	157.94	28.04	129.90	ND	ND	ND	
MW-61B	IA-12	4E	S2	158.65	55.11	103.54	ND	ND	ND	X
MW-61C	IA-12	5E	S3	158.08	57.87	100.21	ND	ND	ND	
MW-64	IA-12	OVB	S1	101.75	5.75	96.00	ND	ND	ND	X
MW-66	IA-11	OVB	S1	100.49	--	No DTW	--	--	--	X
MW-67	IA-11	OVB	S1	102.01	7.05	94.96	ND	ND	ND	X
MW-68	IA-11	OVB	S1	100.05	7.00	93.05	ND	ND	ND	X
MW-71	IA-11	3E	S2	99.89	4.95	94.94	ND	ND	NR	
MW-71C	IA-11	4E	S3	100.17	4.55	95.62	ND	ND	ND	
MW-73	IA-11	3E	S2	101.16	5.65	95.51	ND	ND	ND	
MW-74	IA-11	3E	S2	102.68	7.25	95.43	ND	ND	ND	
MW-74C	IA-11	4E	S3	99.50	4.02	95.48	ND	ND	ND	
MW-75C	IA-11	4E	S3	101.18	5.16	96.02	ND	ND	ND	X
MW-7A	IA-09	OVB	S1	104.32	5.25	99.07	ND	ND	ND	
MW-7B	IA-09	OVB	S1	109.42	7.77	101.65	ND	ND	ND	
MW-7C	IA-09	4W	S2	109.32	8.80	100.52	ND	ND	ND	
MW-80C	IA-12	2E	S1	122.23	9.45	112.78	ND	ND	ND	X
MW-80-Z2R	IA-12	2W	S2	122.78	9.40	113.38	ND	ND	ND	
MW-8C	IA-11	4E	S3	120.23	21.98	98.25	ND	ND	ND	X
MW-99	IA-11	4E	S1	103.73	8.25	95.48	ND	ND	ND	X
MW-99C	IA-11	5E	S3	104.20	9.52	94.68	ND	ND	ND	X
PZ-04	IA-03	OVB	S1	111.30	0.31	110.99	ND	ND	ND	

Notes:  
 -- = not measured  
 bgs = below ground surface  
 DTW = depth to water  
 ft = feet  
 MSL = mean sea level  
 ND = not detected  
 N/A = not applicable  
 NR = not recorded  
 PID = photoionization detector  
 ppm = parts per million  
 TBD = to be determined

Not all production wells and off-site monitoring wells have been assigned to an HGU.

Notes:  
 As defined in the January 2018 CSM Report, only wells screened in the middle of an HGU can be used in the Potentiometric Surface Map.  
 Multipoints were measured on the following days:

- DW-65 - March 6, 2019
- DW-69 - March 7, 2019
- DW-70 - March 5, 2019
- DW-72 - March 8, 2019

The following formula was used to calculate the groundwater elevation for wells where product was detected:

$$\text{Groundwater Elevation} = \text{Measuring Point Elevation} - [\text{Depth to Water} - (\text{Product Thickness} * \text{Product Specific Gravity})]$$

Product Specific Gravity is estimated to be 0.74

**Table 4-3**  
**Multiport Groundwater Elevation Measurements**  
**Hoffmann-La Roche, Inc. Site - Nutley, New Jersey**  
**DW-65 - September 5, 2018**

DW-65				Gauging Date: 9/5/2018		
Ground Surface Elevation (GSE): 137.71 [feet (ft) above mean sea level (amsl), per survey]				Starting Atmospheric Pressure (P <sub>atm</sub> ): 14.83 [field measurement, pounds per square inch (psi)]		
Port No.	Port Depth (ft) (D <sub>p</sub> ) [per well construction]	Zone Pressure (psi) (P <sub>psi</sub> ) [field measurement]	Atmospheric Pressure Change (psi) (P <sub>d</sub> ) [field measurement]	Pressure (ft) (P <sub>ft</sub> ) [calculated] [P <sub>ft</sub> = (P <sub>psi</sub> - (P <sub>atm</sub> + P <sub>d</sub> ))/0.4335*] [*1 ft water = 0.4335 psi]	Depth to Water (ft) (DTW) [calculated] [DTW = D <sub>p</sub> - P <sub>ft</sub> ]	Groundwater Elevation (ft amsl) (GWE) [calculated] [GWE = GSE - DTW]
1	56.7	30.16	0	35.36	21.34	116.37
2	63.7	32.6	0	40.99	22.71	115
3	69.7	35.21	0	47.01	22.69	115.02
4	82.7	40.83	0	59.98	22.72	114.99
5	87.7	41.17	0	60.76	26.94	110.77
6	94.7	44.17	0	67.68	27.02	110.69
7	101.7	46.27	0	72.53	29.17	108.54
8	115.7	67.5	0	121.5	-5.80	143.51
9	124.7	55.8	0	94.51	30.19	107.52
10	133.7	59.45	0	102.93	30.77	106.94
11	143.7	63.56	0	112.41	31.29	106.42
12	148.7	65.69	0	117.32	31.38	106.33
13	162.7	71.58	0	130.91	31.79	105.92
14	174.7	76.51	0	142.28	32.42	105.29
15	179.7	78.68	0	147.29	32.41	105.3
16	193.7	84.74	0	161.27	32.43	105.28
17	206.7	90.35	0	174.21	32.49	105.22
18	216.7	91.84	0	177.65	39.05	98.66
19	236.7	100.47	0	197.55	39.15	98.56
20	245.7	104.36	0	206.53	39.17	98.54
21	255.7	108.68	0	216.49	39.21	98.5
22	282.7	120.42	0	243.58	39.12	98.59
23	323.7	138.29	0	284.8	38.90	98.81
24	334.7	142.91	0	295.46	39.24	98.47

**Table 4-3**  
**Multiport Groundwater Elevation Measurements**  
**Hoffmann-La Roche, Inc. Site - Nutley, New Jersey**  
**DW-69 - September 5, 2018**

DW-69				Gauging Date: 9/5/2018		
Ground Surface Elevation (GSE): 142.35 [feet (ft) above mean sea level (amsl), per survey]				Starting Atmospheric Pressure (P <sub>atm</sub> ): 14.84 [field measurement, pounds per square inch (psi)]		
Port No.	Port Depth (ft) (D <sub>p</sub> ) [per well construction]	Zone Pressure (psi) (P <sub>psi</sub> ) [field measurement]	Atmospheric Pressure Change (psi) (P <sub>d</sub> ) [field measurement]	Pressure (ft) (P <sub>ft</sub> ) [calculated] [P <sub>ft</sub> = (P <sub>psi</sub> - (P <sub>atm</sub> + P <sub>d</sub> ))/0.4335*] [*1 ft water = 0.4335 psi]	Depth to Water (ft) (DTW) [calculated] [DTW = D <sub>p</sub> - P <sub>ft</sub> ]	Groundwater Elevation (ft amsl) (GWE) [calculated] [GWE = GSE - DTW]
1	64	35.43	0	47.5	16.50	125.85
2	81	42.65	0	64.15	16.85	125.5
3	93	47.83	0	76.1	16.90	125.45
4	110	55.18	0	93.06	16.94	125.41
5	125	61.2	0	106.94	18.06	124.29
6	141	67.36	0	121.15	19.85	122.5
7	149	68.5	0	123.78	25.22	117.13
8	156	71.48	0	130.66	25.34	117.01
9	166	75.41	0	139.72	26.28	116.07
10	180	79.41	0	148.95	31.05	111.3
11	193	84.89	0	161.59	31.41	110.94
12	208	91.71	0	177.32	30.68	111.67
13	220	95.22	0	185.42	34.58	107.77
14	228	97.4	0	190.45	37.55	104.8
15	241	102.73	0	202.75	38.25	104.1
16	254	108.1	0	215.13	38.87	103.48
17	268	114.14	0	229.07	38.93	103.42
18	279	118.88	0	240	39.00	103.35
19	292	124.69	0	253.4	38.60	103.75
20	340	145.63	0	301.71	38.29	104.06

**Table 4-3**  
**Multiport Groundwater Elevation Measurements**  
**Hoffmann-La Roche, Inc. Site - Nutley, New Jersey**  
**DW-70 - September 5, 2018**

DW-70				Gauging Date: 9/5/2018		
Ground Surface Elevation (GSE): 121.08 [feet (ft) above mean sea level (amsl), per survey]				Starting Atmospheric Pressure (P <sub>atm</sub> ): 14.83 [field measurement, pounds per square inch (psi)]		
Port No.	Port Depth (ft) (D <sub>p</sub> ) [per well construction]	Zone Pressure (psi) (P <sub>psi</sub> ) [field measurement]	Atmospheric Pressure Change (psi) (P <sub>d</sub> ) [field measurement]	Pressure (ft) (P <sub>ft</sub> ) [calculated] [P <sub>ft</sub> = (P <sub>psi</sub> - (P <sub>atm</sub> + P <sub>d</sub> ))/0.4335*] [*1 ft water = 0.4335 psi]	Depth to Water (ft) (DTW) [calculated] [DTW = D <sub>p</sub> - P <sub>ft</sub> ]	Groundwater Elevation (ft amsl) (GWE) [calculated] [GWE = GSE - DTW]
1	49	34.92	0	46.34	2.66	118.42
2	67	42.41	0	63.62	3.38	117.7
3	81	48.48	0	77.62	3.38	117.7
4	89	61.87	0	108.51	-19.51	140.59
5	105	58.64	0	101.06	3.94	117.14
6	120	64.3	0	114.12	5.88	115.2
7	130	68.53	0	123.88	6.12	114.96
8	137	71.59	0	130.93	6.07	115.01
9	147	75.89	0	140.85	6.15	114.93
10	156	79.74	0	149.73	6.27	114.81
11	169	81.66	0	154.16	14.84	106.24
12	182	87.08	0	166.67	15.33	105.75
13	199	94.41	0	183.58	15.42	105.66
14	213	100.46	0	197.53	15.47	105.61
15	226	105.8	0	209.85	16.15	104.93
16	237	110.54	0	220.78	16.22	104.86
17	252	116.97	0	235.62	16.38	104.7
18	272	125.57	0	255.46	16.54	104.54
19	310	150.05	0	311.93	-1.93	123.01

**Table 4-3**  
**Multiport Groundwater Elevation Measurements**  
**Hoffmann-La Roche, Inc. Site - Nutley, New Jersey**  
**DW-72 - September 5, 2018**

DW-72				Gauging Date: 9/5/2018		
Ground Surface Elevation (GSE): 155.73 [feet (ft) above mean sea level (amsl), per survey]				Starting Atmospheric Pressure (P <sub>atm</sub> ): 14.74 [field measurement, pounds per square inch (psi)]		
Port No.	Port Depth (ft) (D <sub>p</sub> ) [per well construction]	Zone Pressure (psi) (P <sub>psi</sub> ) [field measurement]	Atmospheric Pressure Change (psi) (P <sub>d</sub> ) [field measurement]	Pressure (ft) (P <sub>ft</sub> ) [calculated] [P <sub>ft</sub> = (P <sub>psi</sub> - (P <sub>atm</sub> + P <sub>d</sub> ))/0.4335*] [*1 ft water = 0.4335 psi]	Depth to Water (ft) (DTW) [calculated] [DTW = D <sub>p</sub> - P <sub>ft</sub> ]	Groundwater Elevation (ft amsl) (GWE) [calculated] [GWE = GSE - DTW]
1	58	23.66	0	20.58	37.42	118.31
2	74	29.83	0	34.81	39.19	116.54
3	93	37.5	0	52.5	40.50	115.23
4	108	39.18	0	56.38	51.62	104.11
5	119	43.82	0	67.08	51.92	103.81
6	130	48.47	0	77.81	52.19	103.54
7	142	53.76	0	90.01	51.99	103.74
8	158	59.25	0	102.68	55.32	100.41
9	175	66.42	0	119.22	55.78	99.95
10	190	72.88	0	134.12	55.88	99.85
11	211	91.94	0	178.09	32.91	122.82
12	223	87.24	0	167.24	55.76	99.97
13	231	90.53	0	174.83	56.17	99.56
14	243	96.05	0	187.57	55.43	100.3
15	259	102.34	0	202.08	56.92	98.81
16	271	107.99	0	215.11	55.89	99.84
17	283	112.53	0	225.58	57.42	98.31
18	294	117.3	0	236.59	57.41	98.32
19	309	123.78	0	251.53	57.47	98.26
20	323	129.83	0	265.49	57.51	98.22
21	350	141.48	0	292.36	57.64	98.09

**Table 4-4**  
**Multiport Groundwater Elevation Measurements**  
**Hoffmann-La Roche, Inc. - Nutley, New Jersey**  
**DW-65 March 6, 2019**

DW-65				Gauging Date: 3/6/2019		
Ground Surface Elevation (GSE): 137.71 [feet (ft) above mean sea level (amsl), per survey]				Starting Atmospheric Pressure (P <sub>atm</sub> ): 14.77 [field measurement, pounds per square inch (psi)]		
Port No.	Port Depth (ft) (D <sub>p</sub> ) [per well construction]	Zone Pressure (psi) (P <sub>psi</sub> ) [field measurement]	Atmospheric Pressure Change (psi) (P <sub>a</sub> ) [field measurement]	Pressure (ft) (P <sub>ft</sub> ) [calculated] [P <sub>ft</sub> = (P <sub>psi</sub> - (P <sub>atm</sub> + P <sub>a</sub> ))/0.4335*] [*1 ft water = 0.4335 psi]	Depth to Water (ft) (DTW) [calculated] [DTW = D <sub>p</sub> - P <sub>ft</sub> ]	Groundwater Elevation (ft amsl) (GWE) [calculated] [GWE = GSE - DTW]
1	56.7	30.63	0.00	36.59	20.11	117.60
2	63.7	33.12	0.00	42.33	21.37	116.34
3	69.7	35.72	0.00	48.33	21.37	116.34
4	82.7	41.34	0.00	61.29	21.41	116.30
5	87.7	41.66	0.00	62.03	25.67	112.04
6	94.7	44.74	0.00	69.13	25.57	112.14
7	101.7	46.86	0.00	74.03	27.67	110.04
8	115.7	52.68	0.00	87.45	28.25	109.46
9	124.7	56.39	0.00	96.01	28.69	109.02
10	133.7	59.97	0.00	104.27	29.43	108.28
11	143.7	64.04	0.00	113.66	30.04	107.67
12	148.7	66.16	0.00	118.55	30.15	107.56
13	162.7	72.02	0.00	132.06	30.64	107.07
14	174.7	76.92	0.00	143.37	31.33	106.38
15	179.7	79.08	0.00	148.35	31.35	106.36
16	193.7	85.16	0.00	162.38	31.32	106.39
17	206.7	90.81	0.00	175.41	31.29	106.42
18	216.7	92.21	0.00	178.64	38.06	99.65
19	236.7	100.83	0.00	198.52	38.18	99.53
20	245.7	104.73	0.00	207.52	38.18	99.53
21	255.7	109.06	0.00	217.51	38.19	99.52
22	282.7	120.89	0.00	244.80	37.90	99.81
23	323.7	138.63	0.00	285.72	37.98	99.73
24	334.7	143.35	0.00	296.61	38.09	99.62

**Multiport Groundwater Elevation Measurements**  
**Hoffmann-La Roche, Inc. - Nutley, New Jersey**

DW-69				Gauging Date: 3/7/2019		
Ground Surface Elevation (GSE): 142.35 [feet (ft) above mean sea level (amsl), per survey]				Starting Atmospheric Pressure (P <sub>atm</sub> ): 14.83 [field measurement, pounds per square inch (psi)]		
Port No.	Port Depth (ft) (D <sub>p</sub> ) [per well construction]	Zone Pressure (psi) (P <sub>psi</sub> ) [field measurement]	Atmospheric Pressure Change (psi) (P <sub>d</sub> ) [field measurement]	Pressure (ft) (P <sub>ft</sub> ) [calculated] [P <sub>ft</sub> = (P <sub>psi</sub> - (P <sub>atm</sub> + P <sub>d</sub> ))/0.4335*] [*1 ft water = 0.4335 psi]	Depth to Water (ft) (DTW) [calculated] [DTW = D <sub>p</sub> - P <sub>ft</sub> ]	Groundwater Elevation (ft amsl) (GWE) [calculated] [GWE = GSE - DTW]
1	64.0	35.67	0.00	48.07	15.93	126.42
2	81.0	42.85	0.00	64.64	16.36	125.99
3	93.0	48.05	0.00	76.63	16.37	125.98
4	110.0	55.40	0.00	93.59	16.41	125.94
5	125.0	61.56	0.00	107.80	17.20	125.15
6	141.0	66.14	0.00	118.36	22.64	119.71
7	149.0	68.93	0.00	124.80	24.20	118.15
8	156.0	71.93	0.00	131.72	24.28	118.07
9	166.0	75.91	0.00	140.90	25.10	117.25
10	180.0	79.28	0.00	148.67	31.33	111.02
11	193.0	84.74	0.00	161.27	31.73	110.62
12	208.0	91.30	0.00	176.40	31.60	110.75
13	220.0	94.89	0.00	184.68	35.32	107.03
14	228.0	97.78	0.00	191.35	36.65	105.70
15	241.0	103.05	0.00	203.51	37.49	104.86
16	254.0	108.65	0.00	216.42	37.58	104.77
17	268.0	114.71	0.00	230.40	37.60	104.75
18	279.0	119.37	0.00	241.15	37.85	104.50
19	292.0	125.16	0.00	254.51	37.49	104.86
20	340.0	145.96	0.00	302.49	37.51	104.84



**Multiport Groundwater Elevation Measurements**  
**Hoffmann-La Roche, Inc. - Nutley, New Jersey**

DW-70				Gauging Date: 3/5/2019		
Ground Surface Elevation (GSE): 121.08 [feet (ft) above mean sea level (amsl), per survey]				Starting Atmospheric Pressure (P <sub>atm</sub> ): 14.67 [field measurement, pounds per square inch (psi)]		
Port No.	Port Depth (ft) (D <sub>p</sub> ) [per well construction]	Zone Pressure (psi) (P <sub>psi</sub> ) [field measurement]	Atmospheric Pressure Change (psi) (P <sub>d</sub> ) [field measurement]	Pressure (ft) (P <sub>ft</sub> ) [calculated] [P <sub>ft</sub> = (P <sub>psi</sub> - (P <sub>atm</sub> + P <sub>d</sub> ))/0.4335*] [*1 ft water = 0.4335 psi]	Depth to Water (ft) (DTW) [calculated] [DTW = D <sub>p</sub> - P <sub>ft</sub> ]	Groundwater Elevation (ft amsl) (GWE) [calculated] [GWE = GSE - DTW]
1	49.0	34.95	0.00	46.78	2.22	118.86
2	67.0	42.54	0.00	64.29	2.71	118.37
3	81.0	48.60	0.00	78.27	2.73	118.35
4	89.0	52.08	0.00	86.30	2.70	118.38
5	105.0	58.87	0.00	101.96	3.04	118.04
6	120.0	64.74	0.00	115.50	4.50	116.58
7	130.0	68.91	0.00	125.12	4.88	116.20
8	137.0	72.04	0.00	132.34	4.66	116.42
9	147.0	76.35	0.00	142.28	4.72	116.36
10	156.0	80.19	0.00	151.60	4.40	116.68
11	169.0	82.03	0.00	155.39	13.61	107.47
12	182.0	87.44	0.00	167.87	14.13	106.95
13	199.0	94.77	0.00	184.78	14.22	106.86
14	213.0	100.83	0.00	198.75	14.25	106.83
15	226.0	106.16	0.00	211.05	14.95	106.13
16	237.0	110.92	0.00	222.03	14.97	106.11
17	252.0	117.06	0.00	236.03	15.97	105.11
18	272.0	125.99	0.00	256.79	15.21	105.87
19	310.0	151.51	0.00	315.66	-5.66	126.74

**Table 4-4**  
**Multiport Groundwater Elevation Measurements**  
**Hoffmann-La Roche, Inc. - Nutley, New Jersey**  
**DW-72 March 8, 2019**

DW-72				Gauging Date: 3/8/2019		
Ground Surface Elevation (GSE): 155.73 [feet (ft) above mean sea level (amsl), per survey]				Starting Atmospheric Pressure (P <sub>atm</sub> ): 14.89 [field measurement, pounds per square inch (psi)]		
Port No.	Port Depth (ft) (D <sub>p</sub> ) [per well construction]	Zone Pressure (psi) (P <sub>psi</sub> ) [field measurement]	Atmospheric Pressure Change (psi) (P <sub>d</sub> ) [field measurement]	Pressure (ft) (P <sub>ft</sub> ) [calculated] [P <sub>ft</sub> = (P <sub>psi</sub> - (P <sub>atm</sub> + P <sub>d</sub> ))/0.4335*] [*1 ft water = 0.4335 psi]	Depth to Water (ft) (DTW) [calculated] [DTW = D <sub>p</sub> - P <sub>ft</sub> ]	Groundwater Elevation (ft amsl) (GWE) [calculated] [GWE = GSE - DTW]
1	58.0	24.57	0.00	22.33	35.67	120.06
2	74.0	30.84	0.00	36.79	37.21	118.52
3	93.0	38.50	0.00	54.46	38.54	117.19
4	108.0	39.92	0.00	57.74	50.26	105.47
5	119.0	44.54	0.00	68.40	50.60	105.13
6	130.0	49.20	0.00	79.15	50.85	104.88
7	142.0	54.43	0.00	91.21	50.79	104.94
8	158.0	59.70	0.00	103.37	54.63	101.10
9	175.0	67.10	0.00	120.44	54.56	101.17
10	190.0	73.54	0.00	135.29	54.71	101.02
11	211.0	82.61	0.00	156.22	54.78	100.95
12	223.0	87.73	0.00	168.03	54.97	100.76
13	231.0	91.21	0.00	176.06	54.94	100.79
14	243.0	96.41	0.00	188.05	54.95	100.78
15	259.0	103.00	0.00	203.25	55.75	99.98
16	271.0	108.07	0.00	214.95	56.05	99.68
17	283.0	113.20	0.00	226.78	56.22	99.51
18	294.0	117.98	0.00	237.81	56.19	99.54
19	309.0	124.46	0.00	252.76	56.24	99.49
20	323.0	130.52	0.00	266.74	56.26	99.47
21	350.0	42.18	0.00	62.95	287.05	-131.32