

**Table 1-6
Summary of Environmental Surveillance Samples and Analytical Methods**

2019 BNL Groundwater Status Report

Well ID	Area	Sub Area	Decision Subunit	EPA 524,2 VOCs	EPA 625 Semi-VOCs	EPA 608 Pest/PCBs	Sulfate/Chloride/Nitrate	Metals	EPA 900 Gross Alpha/Beta	EPA 901 Gamma Spec	EPA 906 Tritium	EPA 905 Sr-90	Floating Product	Frequency (events/year)
054-61	BLIP		Upgradient								X			(a)
064-46	BLIP		Upgradient								X			1
064-47	BLIP		Downgradient								X			2
064-48	BLIP		Downgradient								X			2
064-49	BLIP		Downgradient								X			0
064-50	BLIP		Downgradient								X			0
064-67	BLIP		Downgradient								X			2
054-08	AGS	NSRL	Downgradient								X			1
054-191	AGS	NSRL	Downgradient								X			1
064-51	AGS	Booster Beam Stop	Downgradient								X			1
064-52	AGS	Booster Beam Stop	Downgradient								X			1
064-03	AGS	B-914	Downgradient								X			1
064-53	AGS	B-914	Downgradient								X			1
064-54	AGS	B-914	Downgradient								X			1
054-62	AGS	Bkgd. J-10 Beam Stop	Upgradient								X			1
054-63	AGS	J-10 Beam Stop	Downgradient								X			1
054-64	AGS	J-10 Beam Stop	Downgradient								X			1
054-65	AGS	g-2 Beam Stop/Plume Sou	Upgradient								X			1
054-66	AGS	g-2 Beam Stop	Downgradient								X			1
054-67	AGS	g-2 Beam Stop	Downgradient								X			1
054-68	AGS	g-2 Beam Stop	Downgradient								X			1
054-124	AGS	g-2 Beam Stop	Downgradient								X			1
054-125	AGS	g-2 Beam Stop	Downgradient								X			1
054-127	AGS	Fm. U-Line Target	Upgradient								X			1
054-128	AGS	Fm. U-Line Target	Downgradient								X			1
054-129	AGS	Fm. U-Line Target	Downgradient								X			1
054-130	AGS	Fm. U-Line Target	Downgradient								X			1
054-168	AGS	Fm. U-Line Stop	Downgradient								X			1
054-169	AGS	Fm. U-Line Stop	Downgradient								X			1
054-69	AGS	B-912	Upgradient								X			1
055-14	AGS	B-912	Upgradient								X			1
065-120	AGS	B-912	Downgradient								X			1
065-125	AGS	B-912	Downgradient								X			1

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065-126	AGS	B-912	Downgradient								X			1
065-195	AGS	B-912	Downgradient								X			1
055-31	AGS	B-912	Downgradient								X			1
055-15	AGS	B-912	Downgradient								X			1
055-16	AGS	B-912	Downgradient								X			1
065-192	AGS	B-912	Downgradient								X			1
055-29	AGS	B-912	Downgradient								X			1
055-30	AGS	B-912	Downgradient								X			1
055-32	AGS	B-912	Downgradient								X			1
065-121	AGS	B912/g-2 Tritium Plume	Downgradient								X			1
065-122	AGS	B912/g-2 Tritium Plume	Downgradient								X			1
065-193	AGS	B-912/g-2 Tritium Plume	Downgradient								X			1
065-123	AGS	B-912/g-2 Tritium Plume	Downgradient								X			1
065-124	AGS	B-912/g-2 Tritium Plume	Downgradient								X			1
065-194	AGS	B-912/g-2 Tritium Plume	Downgradient								X			1
065-321	AGS	B-912/g-2 Tritium Plume	Downgradient								X			1
065-322	AGS	B-912/g-2 Tritium Plume	Downgradient								X			1
065-323	AGS	B-912/g-2 Tritium Plume	Downgradient								X			1
065-324	AGS	B-912/g-2 Tritium Plume	Downgradient								X			1
064-55	AGS	E-20 Catcher	Downgradient								X			1
064-56	AGS	E-20 Catcher	Downgradient								X			1
064-80	AGS	E-20 Catcher	Downgradient								X			1
054-07	AGS/g-2	g-2 Tritium Plume Source	Downgradient								X			2
054-184	AGS/g-2	g-2 Tritium Plume Source	Downgradient								X			2
054-185	AGS/g-2	g-2 Tritium Plume Source	Downgradient								X			2
064-95	AGS/g-2	g-2 Tritium Plume Source	Downgradient								X			2
054-126	AGS/g-2	g-2 Tritium Plume Source	Downgradient								X			2
025-01	RHIC	B/Y Beam Stop Area	Upgradient								X			2
025-03	RHIC	B/Y Beam Stop Area	Downgradient								X			2
025-04	RHIC	B/Y Beam Stop Area	Downgradient								X			2
025-05	RHIC	B/Y Beam Stop Area	Downgradient								X			2
025-06	RHIC	B/Y Beam Stop Area	Downgradient								X			2
025-07	RHIC	B/Y Beam Stop Area	Downgradient								X			2

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025-08	RHIC	B/Y Beam Stop Area	Downgradient								X			2
034-05	RHIC	B/Y Collimator Area	Downgradient								X			2
034-06	RHIC	B/Y Collimator Area	Downgradient								X			2
043-01	RHIC	B/Y Collimator Area	Downgradient								X			2
043-02	RHIC	B/Y Collimator Area	Downgradient								X			2
044-13	RHIC	B/Y Collimator Area	Downgradient								X			2
044-14	RHIC	B/Y Collimator Area	Downgradient								X			2
044-29	RHIC	W-Line Stop	Downgradient								X			2
084-12	BMRR		Downgradient											0(d)
084-13	BMRR		Downgradient											0(d)
084-27	BMRR		Downgradient											0(d)
084-28	BMRR		Upgradient											0(d)
102-05	Motor Pool	Gasoline USTs	Downgradient	X									X	1
102-06	Motor Pool	Gasoline USTs	Downgradient	X									X	1
102-08	Motor Pool	B-326	Upgradient											0(a)
102-10	Motor Pool	B-326/USTs	Downgradient											0
102-11	Motor Pool	B-326	Downgradient											0
102-12	Motor Pool	B-326	Downgradient											0
102-13	Motor Pool	B-326	Downgradient											0
085-17	Gas Station	Pump Island	Downgradient											0(h)
085-235	Gas Station	Gasoline USTs	Downgradient											0(h)
085-236	Gas Station	Gasoline USTs	Downgradient											0(h)
085-237	Gas Station	Gasoline USTs	Downgradient											0(h)
055-03	WMF	Bkgd.	Upgradient	X			X(b)	X(b)	X	X	X			2
055-10	WMF	Bkgd.	Upgradient	X			X(b)	X(b)	X	X	X			2
056-21	WMF	RCRA Bldg.	Downgradient	X			X(b)	X(b)	X	X	X			2(e)
056-22	WMF	Rad. Bldg.	Downgradient	X			X(b)	X(b)	X	X	X			2(e)
056-23	WMF	Rad. Bldg.	Downgradient											(e)
066-07	WMF	Bkgd	Upgradient											(e)
066-83	WMF	Mixed Waste Bldg.	Downgradient											(e)
066-84	WMF	Bkgd.	Upgradient											(e)
066-220	WMF	RCRA Bldg.	Downgradient	X			X(b)	X(b)	X	X	X			2
066-221	WMF	RCRA Bldg.	Downgradient	X			X(b)	X(b)	X	X	X			2

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066-222	WMF	Rad. Bldg.	Downgradient	X			X(b)	X(b)	X	X	X			2
066-223	WMF	Rad. Bldg.	Downgradient	X			X(b)	X(b)	X	X	X			2
066-224	WMF	Mixed Waste Bldg.	Downgradient											0(f)
076-16	MPF	Tank Area	Downgradient	X	X								X(c)	2
076-17	MPF	Tank Area	Downgradient	X	X								X(c)	2
076-18	MPF	Tank Area	Downgradient	X	X						X(g)		X(c)	2
076-19	MPF	Tank Area	Downgradient	X	X						X(g)		X(c)	2
076-25	MPF	Tank Area	Upgradient	X	X								X(c)	2
076-378	MPF	Tank Area	Downgradient	X	X								X(c)	2
076-379	MPF	Tank Area	Downgradient	X	X								X(c)	2
076-380	MPF	Tank Area	Downgradient	X	X								X(c)	2
039-87	STP	Recharge Basins - Upgrad	Downgradient					X						1
039-88	STP	Holding Ponds/Recharge B	Downgradient					X						1
039-89	STP	Holding Ponds/Recharge B	Downgradient					X						1
039-90	STP	Holding Ponds	Downgradient											0
039-115	STP	Recharge Basins	Downgradient					X						1
048-08	STP	Recharge Basins	Downgradient					X						1
048-09	STP	Recharge Basins	Downgradient					X						1
048-10	STP	Recharge Basins	Downgradient					X						1
085-43	B452	Source Area	Downgradient											0
085-73	B452	Source Area	Downgradient	X										1
085-380	B452	Source Area	Downgradient	X										1
085-381	B452	Source Area	Downgradient	X										1
085-382	B452	Source Area	Downgradient	X										2
085-383	B452	Source Area	Downgradient	X										2
085-384	B452	Source Area	Downgradient	X										0
085-385	B452	Downgradient	Downgradient	X										1
085-386	B452	Downgradient	Downgradient	X										1
085-387	B452	Downgradient	Downgradient	X										1
085-388	B452	Downgradient	Downgradient	X										0
095-313	B452	Downgradient	Downgradient	X										1
095-314	B452	Downgradient	Downgradient	X										1
095-315	B452	Downgradient	Downgradient	X										1

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076-18	NSLS-II	Linac	Upgradient								X			1(h)
076-19	NSLS-II	Linac	Upgradient								X			1(h)
086-123	NSLS-II	Linac	Downgradient								X			1
086-124	NSLS-II	Linac	Downgradient								X			1
086-125	NSLS-II	Linac	Downgradient								X			1
086-126	NSLS-II	Linac	Downgradient								X			1

Notes:

AGS = Alternating Gradient Synchrotron

BLIP = Brookhaven Linear Isotope Producer

- (a) Upgradient well, not routinely monitored.
- (b) Anions and metals analyzed annually.
- (c) MPF wells tested monthly for floating petroleum.
- (d) BMRR wells sampled every 2 years; next period in 2020.
- (e) Well sampled only if groundwater flow directions are to the north.
- (f) Well will not be routinely monitored following closure of Mixed Waste Building.
- (g) Well sampled for tritium during planned MPF monitoring schedule (NSLS-II Background).
- (h) Underground storage tanks were removed in 2018. Monitoring program has ended.