New Jersey Median Sewage Sludge Quality

ARSENIC

Year	CAT 1[1] (mg/kg)	CAT 2[1] (mg/kg)	CAT 3[1] (mg/kg)	CAT 4[1] (mg/kg)	CAT 5[1] (mg/kg)	Number of Samples	Percent of Samples w/ Detects (%)	STATEWIDE MEDIAN (mg/kg)
1983	2.09	2.00	2.50	3.05	3.52	NA	NA	2.70
1994	2.79	3.11	2.52	3.06	2.80	NA	NA	2.85
1997	4.19	4.02	3.33	4.92	4.77	1183	61.40	4.33
2001	4.31	3.59	3.90	4.70	NA	1003	43.00	4.40
2002	6.66	5.63	4.38	4.96	NA	1060	56.00	5.00
2003	5.08	4.35	4.14	5.03	NA	1077	49.10	4.86
2004	5.71	4.94	4.85	4.74	NA	1097	45.70	4.90
2005	6.58	4.86	4.90	4.91	NA	1094	48.17	5.00
2006	6.41	4.68	4.51	4.90	NA	1074	43.85	4.83
2007	6.41	4.41	4.82	5.00	NA	1076	46.38	5.00
2008	7.52	5.51	5.20	5.67	NA	1089	50.69	5.63
2009	4.70	3.59	4.44	4.77	NA	1079	51.81	4.60
2010	5.21	3.75	3.98	4.40	NA	1106	67.81	4.29
2011	4.37	3.62	3.28	4.27	NA	1104	58.33	3.89
2012	3.45	3.95	4.02	4.27	NA	1005	57.01	4.11
2013	4.04	3.69	4.34	4.53	NA	1024	66.11	4.35
2014	3.92	3.40	4.12	4.33	NA	1017	59.19	4.24
2015	2.83	2.78	3.07	3.76	NA	997	63.89	3.39
2016	3.28	2.92	3.45	3.99	NA	995	65.13	3.64
2017	3.75	3.15	4.08	4.87	NA	1007	70.21	4.34
2018	9.68	5.38	4.74	4.88	NA	1008	55.75	5.03
2019	7.48	5.42	3.30	5.45	NA	996	54.62	5.40
2020	12.65	6.50	2.97	5.49	NA	980	51.43	5.50
2021	16.00	8.30	3.00	6.03	NA	985	46.40	6.54
2022	23.40	9.70	7.60	6.20	NA	991	39.66	7.60
2023	34.20	13.10	7.39	6.00	NA	980	42.45	7.10

[1] Denote the SQAR reporting category as follows:

Cat 1: domestic treatment works with a permitted flow less than 0.1 MGD

Cat 2: domestic treatment works with a permitted flow of 0.1 to 0.999 MGD

Cat 3: domestic treatment works with a permitted flow from 1.0 to 4.999 MGD

Cat 4: domestic treatment works with a permitted flow equal to or greater than 5.0 MGD

Cat 5: domestic treatment works with a flow to which more than 10 percent of the permitted daily flow or the permitted daily mass loading of BOD, COD or Suspended Solids is contributed by SIUs. (This category was deleted in the 1999 readoption of the SQAR)

Notes: Due to large ranges reported for some parameters there is a considerable difference in magnitude between mean and median values. The true central tendency for the concentration is better represented by the median than by the mean value. For determining median concentrations, if analytical testing did not yield a pollutant concentration above the minimum detection level**, the pollutant concentration was assumed to be the minimum amount of pollutant that could be measured. Equating undetected data points to their minimum detection level is a conservative assumption since it tends to overestimate pollutant concentrations**. The percent of detected samples is indicated on the table.

New Jersey Median Sewage Sludge Quality

BERYLLIUM

Year	CAT 1[1] (mg/kg)	CAT 2[1] (mg/kg)	CAT 3[1] (mg/kg)	CAT 4[1] (mg/kg)	CAT 5[1] (mg/kg)	Number of Samples	Percent of Samples w/ Detects (%)	STATEWIDE MEDIAN (mg/kg)
1983	NA	NA	NA	NA	NA	NA	NA	NA
1994	NA	NA	NA	NA	NA	NA	NA	NA
1997	NA	NA	NA	NA	NA	NA	NA	NA
2001	0.67	0.76	1.00	1.01	NA	1068	27.53	1.00
2002	1.30	1.11	0.89	0.91	NA	1086	28.18	0.93
2003	1.16	0.86	0.97	0.89	NA	1085	30.14	0.94
2004	0.97	0.82	1.04	1.06	NA	1101	28.16	1.00
2005	1.00	0.76	0.97	1.11	NA	1093	26.72	1.00
2006	0.86	0.77	0.89	1.13	NA	1089	29.11	0.98
2007	0.85	0.72	0.84	0.85	NA	1076	27.97	0.83
2008	0.96	0.77	0.80	0.85	NA	1091	27.31	0.84
2009	0.62	0.68	0.61	0.68	NA	1096	38.14	0.66
2010	0.36	0.26	0.35	0.54	NA	1119	63.09	0.49
2011	0.52	0.40	0.40	0.60	NA	1110	62.88	0.56
2012	0.46	0.49	0.58	0.6	NA	1007	60.58	0.58
2013	0.36	0.34	0.53	0.55	NA	1025	66.34	0.51
2014	0.26	0.37	0.55	0.50	NA	1017	71.19	0.48
2015	0.32	0.39	0.44	0.49	NA	996	67.37	0.45
2016	0.27	0.41	0.54	0.54	NA	997	60.68	0.49
2017	0.21	0.33	0.42	0.70	NA	1007	53.62	0.56
2018	2.00	0.62	0.77	0.99	NA	1007	45.58	0.93
2019	1.40	0.89	0.99	1.38	NA	999	41.74	1.10
2020	0.95	0.78	1.04	1.50	NA	980	40.82	1.20
2021	1.60	1.26	1.30	1.50	NA	984	34.86	1.44
2022	2.00	1.58	1.70	1.80	NA	991	28.36	1.80
2023	1.21	1.30	1.30	1.95	NA	980	34.71	1.71

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Cat 4: domestic treatment works with a permitted flow equal to or greater than 5.0 MGD

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Notes: Due to large ranges reported for some parameters there is a considerable difference in magnitude between mean and median values. The true central tendency for the concentration is better represented by the median than by the mean value. For determining median concentrations, if analytical testing did not yield a pollutant concentration above the minimum detection level**, the pollutant concentration was assumed to be the minimum amount of pollutant that could be measured. Equating undetected data points to their minimum detection level is a conservative assumption since it tends to overestimate pollutant concentrations**. The percent of detected samples is indicated on the table.

New Jersey Median Sewage Sludge Quality

CADMIUM

Year	CAT 1[1] (mg/kg)	CAT 2[1] (mg/kg)	CAT 3[1] (mg/kg)	CAT 4[1] (mg/kg)	CAT 5[1] (mg/kg)	Number of Samples	Percent of Samples w/ Detects (%)	STATEWIDE MEDIAN (mg/kg)
1983	7.38	2.00	10.10	9.90	11.45	NA	NA	9.40
1994	6.60	4.90	4.90	5.68	6.53	NA	NA	5.63
1997	3.00	3.85	3.30	3.36	5.40	1185	65.20	3.50
2001	2.63	1.97	2.67	2.85	NA	1006	62.00	2.70
2002	2.25	1.93	2.29	2.52	NA	1061	58.70	2.40
2003	2.22	1.95	2.06	2.75	NA	1077	60.70	2.48
2004	2.23	1.83	1.95	2.53	NA	1098	55.00	2.29
2005	2.27	1.65	1.81	2.37	NA	1094	52.74	2.12
2006	2.20	1.73	1.68	2.07	NA	1075	48.84	1.94
2007	2.04	1.54	1.66	2.05	NA	1076	46.75	1.92
2008	3.29	1.50	1.59	1.91	NA	1088	48.35	1.84
2009	1.60	1.40	1.40	1.71	NA	1080	56.02	1.60
2010	1.16	0.66	0.75	1.19	NA	1106	68.17	1.10
2011	1.92	0.76	0.74	1.31	NA	1104	62.05	1.20
2012	1.16	0.91	0.99	1.28	NA	1007	64.77	1.18
2013	1.46	1.19	1.20	1.45	NA	1026	81.68	1.36
2014	1.33	1.30	1.30	1.22	NA	1018	78.78	1.26
2015	0.70	0.83	0.94	1.20	NA	997	76.83	1.04
2016	1.19	0.98	1.20	1.41	NA	997	80.64	1.29
2017	1.20	1.14	1.40	1.90	NA	1007	77.36	1.60
2018	2.06	1.55	1.60	2.00	NA	1009	67.69	1.80
2019	2.50	1.96	1.86	1.78	NA	998	63.03	1.85
2020	3.31	2.10	1.60	2.00	NA	981	56.37	2.00
2021	6.25	2.60	2.10	2.20	NA	985	54.52	2.30
2022	8.30	3.60	2.40	2.40	NA	991	47.12	2.60
2023	8.70	3.84	2.60	2.10	NA	980	42.45	2.40

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Cat 3: domestic treatment works with a permitted flow from 1.0 to 4.999 MGD

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New Jersey Median Sewage Sludge Quality

CHROMIUM

Year	CAT 1[1] (mg/kg)	CAT 2[1] (mg/kg)	CAT 3[1] (mg/kg)	CAT 4[1] (mg/kg)	CAT 5[1] (mg/kg)	Number of Samples	Percent of Samples w/ Detects (%)	STATEWIDE MEDIAN (mg/kg)
1983	33.60	29.00	88.80	115.00	60.00	NA	NA	93.00
1994	27.00	23.00	27.00	39.00	88.00	NA	NA	39.00
1997	19.70	25.00	20.00	29.60	42.40	1185	89.30	26.00
2001	15.10	14.30	22.30	28.90	NA	1008	92.50	24.50
2002	13.80	14.80	21.00	31.00	NA	1061	93.00	24.80
2003	15.60	15.70	21.00	26.40	NA	1077	93.10	22.40
2004	15.80	16.40	20.00	26.90	NA	1098	92.20	22.30
2005	15.50	14.30	19.10	24.30	NA	1093	95.33	20.30
2006	15.40	13.00	18.80	23.80	NA	1076	95.54	20.20
2007	14.40	13.60	17.40	23.30	NA	1076	95.45	19.50
2008	17.60	16.70	17.60	23.40	NA	1086	92.91	20.40
2009	14.90	14.00	16.30	21.80	NA	1078	95.55	18.70
2010	16.10	13.80	16.80	22.80	NA	1106	97.38	20.20
2011	13.80	13.20	16.60	22.30	NA	1105	97.38	18.90
2012	14.50	13.20	16.70	21.60	NA	1007	98.51	18.80
2013	13.70	13.10	17.20	21.70	NA	1027	98.93	19.80
2014	14.35	12.45	16.25	20.90	NA	1018	98.43	18.95
2015	12.50	11.95	16.20	21.00	NA	997	99.00	19.00
2016	10.90	12.20	15.10	20.50	NA	997	98.50	17.90
2017	11.50	11.10	16.20	21.80	NA	1007	99.01	18.80
2018	15.75	13.55	17.45	22.00	NA	1008	98.02	19.90
2019	15.30	14.10	18.30	21.55	NA	999	97.30	19.60
2020	16.40	13.00	16.90	19.00	NA	981	95.82	17.40
2021	15.40	12.90	18.20	21.85	NA	985	93.10	19.40
2022	15.30	13.00	18.00	20.70	NA	991	93.24	19.00
2023	20.10	14.80	18.70	21.10	NA	980	93.78	20.00

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New Jersey Median Sewage Sludge Quality

COPPER

Year	CAT 1[1] (mg/kg)	CAT 2[1] (mg/kg)	CAT 3[1] (mg/kg)	CAT 4[1] (mg/kg)	CAT 5[1] (mg/kg)	Number of Samples	Percent of Samples w/ Detects (%)	STATEWIDE MEDIAN (mg/kg)
1983	697.00	657.00	949.00	776.00	1170.00	NA	NA	825.00
1994	594.00	679.00	658.00	667.00	819.00	NA	NA	679.00
1997	524.00	669.00	663.00	622.00	832.00	1185	99.20	628.00
2001	500.00	538.00	667.00	527.00	NA	1009	99.80	552.00
2002	518.00	547.00	700.00	570.00	NA	1062	99.40	584.00
2003	496.00	588.00	582.00	532.00	NA	1077	99.60	545.00
2004	529.00	622.00	595.00	522.00	NA	1098	99.40	552.00
2005	540.00	579.00	614.00	499.00	NA	1094	100.00	537.00
2006	408.00	535.00	601.00	484.00	NA	1075	99.81	506.00
2007	547.00	608.00	602.00	495.00	NA	1076	99.54	537.00
2008	494.00	615.00	600.00	523.00	NA	1087	99.17	551.00
2009	519.00	580.00	587.00	481.00	NA	1080	99.54	528.00
2010	514.00	604.00	544.00	501.00	NA	1106	99.73	521.00
2011	551.00	557.00	547.00	489.00	NA	1106	99.82	514.00
2012	590.00	664.00	595.00	505.00	NA	1007	99.70	550.00
2013	585.00	615.00	630.00	519.00	NA	1026	99.90	555.00
2014	574.00	571.50	601.50	496.50	NA	1018	100.00	522.50
2015	527.50	567.00	576.00	496.50	NA	997	100.00	523.00
2016	424.50	513.00	566.00	473.00	NA	997	99.90	489.00
2017	381.50	531.00	543.00	465.50	NA	1008	100.00	480.00
2018	610.00	537.50	532.00	406.00	NA	1009	100.00	453.00
2019	487.00	534.00	316.00	429.50	NA	999	99.70	454.00
2020	523.00	580.00	323.00	463.00	NA	981	99.59	490.00
2021	430.00	536.00	310.00	469.50	NA	985	99.29	486.00
2022	420.00	529.00	329.00	434.00	NA	991	99.70	450.00
2023	512.00	603.00	297.00	430.00	NA	980	99.80	459.50

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New Jersey Median Sewage Sludge Quality

LEAD

Year	CAT 1[1] (mg/kg)	CAT 2[1] (mg/kg)	CAT 3[1] (mg/kg)	CAT 4[1] (mg/kg)	CAT 5[1] (mg/kg)	Number of Samples	Percent of Samples w/ Detects (%)	STATEWIDE MEDIAN (mg/kg)
1983	127.00	122.00	195.00	196.00	411.00	NA	NA	210.00
1994	100.00	74.00	86.00	108.00	137.00	NA	NA	100.00
1997	62.00	75.80	57.10	64.50	82.00	1186	84.80	65.20
2001	40.20	25.30	44.20	53.80	NA	1009	93.00	48.50
2002	38.50	27.70	46.90	58.90	NA	1061	91.30	52.20
2003	30.20	26.80	36.80	54.40	NA	1077	92.00	43.70
2004	29.40	27.60	34.50	51.70	NA	1098	91.40	42.20
2005	23.70	26.00	34.70	46.90	NA	1094	93.51	38.60
2006	17.20	21.10	30.30	45.40	NA	1075	92.00	36.00
2007	18.00	23.70	29.40	43.70	NA	1076	92.19	35.10
2008	31.40	25.00	31.20	42.90	NA	1088	90.44	37.30
2009	23.10	22.10	30.20	42.70	NA	1081	93.52	34.70
2010	20.40	21.00	26.80	41.20	NA	1106	96.47	33.20
2011	21.30	21.80	27.80	42.70	NA	1106	96.47	34.20
2012	19.80	22.70	26.60	39.60	NA	1007	97.22	34.20
2013	17.70	21.70	26.10	39.90	NA	1027	96.79	33.10
2014	15.05	19.40	25.90	38.95	NA	1017	95.97	33.10
2015	12.60	18.60	24.90	38.50	NA	997	97.89	31.10
2016	12.35	15.70	24.50	36.50	NA	996	95.28	29.00
2017	8.93	13.60	22.30	38.50	NA	1007	95.73	28.30
2018	18.60	19.00	26.30	38.70	NA	1009	95.64	30.60
2019	19.20	20.60	21.90	33.25	NA	999	91.39	27.90
2020	17.40	21.50	25.00	32.40	NA	981	92.15	28.10
2021	22.00	21.70	23.30	34.90	NA	985	86.50	28.70
2022	23.40	23.10	22.00	31.60	NA	991	84.56	27.00
2023	43.90	25.70	23.30	30.70	NA	980	84.29	28.35

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New Jersey Median Sewage Sludge Quality

MERCURY

Year	CAT 1[1] (mg/kg)	CAT 2[1] (mg/kg)	CAT 3[1] (mg/kg)	CAT 4[1] (mg/kg)	CAT 5[1] (mg/kg)	Number of Samples	Percent of Samples w/ Detects (%)	STATEWIDE MEDIAN (mg/kg)
1983	1.30	2.90	5.00	3.25	3.77	NA	NA	3.60
1994	2.08	2.24	2.50	2.40	2.29	NA	NA	2.34
1997	1.74	1.96	2.20	1.65	2.89	1185	78.00	1.93
2001	1.04	1.23	1.88	1.74	NA	1007	91.00	1.66
2002	1.10	1.22	1.88	1.95	NA	1062	90.20	1.80
2003	0.79	1.19	1.47	1.62	NA	1077	88.30	1.47
2004	0.74	1.08	1.35	1.48	NA	1098	87.90	1.31
2005	0.71	1.02	1.41	1.16	NA	1094	86.29	1.13
2006	0.92	1.05	1.45	1.41	NA	1075	84.65	1.28
2007	0.99	1.04	1.24	1.28	NA	1076	82.53	1.22
2008	1.20	1.32	1.29	1.30	NA	1087	77.83	1.28
2009	1.00	1.10	1.10	1.10	NA	1081	77.98	1.10
2010	0.98	0.97	0.97	0.94	NA	1107	80.40	0.94
2011	1.17	0.71	0.86	0.93	NA	1105	75.29	0.92
2012	0.53	0.72	0.88	0.88	NA	1005	77.71	0.84
2013	0.63	0.72	0.85	0.86	NA	1025	84.98	0.82
2014	0.47	0.64	0.82	0.71	NA	1016	88.29	0.71
2015	0.40	0.64	0.69	0.70	NA	997	86.76	0.69
2016	0.39	0.53	0.71	0.68	NA	995	86.63	0.66
2017	0.30	0.59	0.68	0.63	NA	1005	79.50	0.63
2018	1.10	0.61	0.79	0.68	NA	1008	73.61	0.71
2019	1.70	0.85	0.72	0.64	NA	998	68.64	0.69
2020	1.12	0.85	0.67	0.67	NA	980	68.57	0.68
2021	0.79	0.75	0.85	0.80	NA	980	62.76	0.81
2022	2.60	0.98	0.85	0.74	NA	989	60.36	0.85
2023	1.83	1.11	0.75	0.80	NA	978	59.61	0.87

[1] Denote the SQAR reporting category as follows:

Cat 1: domestic treatment works with a permitted flow less than 0.1 MGD

Cat 2: domestic treatment works with a permitted flow of 0.1 to 0.999 MGD

Cat 3: domestic treatment works with a permitted flow from 1.0 to 4.999 MGD

Cat 4: domestic treatment works with a permitted flow equal to or greater than 5.0 MGD

Cat 5: domestic treatment works with a flow to which more than 10 percent of the permitted daily flow or the permitted daily mass loading of BOD, COD or Suspended Solids is contributed by SIUs. (This category was deleted in the 1999 readoption of the SQAR)

Notes: Due to large ranges reported for some parameters there is a considerable difference in magnitude between mean and median values. The true central tendency for the concentration is better represented by the median than by the mean value. For determining median concentrations, if analytical testing did not yield a pollutant concentration above the minimum detection level**, the pollutant concentration was assumed to be the minimum amount of pollutant that could be measured. Equating undetected data points to their minimum detection level is a conservative assumption since it tends to overestimate pollutant concentrations**. The percent of detected samples is indicated on the table.

New Jersey Median Sewage Sludge Quality

MOLYBDENUM

Year	CAT 1[1] (mg/kg)	CAT 2[1] (mg/kg)	CAT 3[1] (mg/kg)	CAT 4[1] (mg/kg)	CAT 5[1] (mg/kg)	Number of Samples	Percent of Samples w/ Detects (%)	STATEWIDE MEDIAN (mg/kg)
1983	NA	NA	NA	NA	NA	NA	NA	NA
1994	15.30	20.00	12.20	14.90	15.20	NA	NA	15.03
1997	12.80	20.80	12.00	9.60	16.30	1183	60.50	12.60
2001	18.70	8.52	11.55	10.86	NA	1007	62.00	11.10
2002	16.50	8.71	12.60	11.33	NA	1059	67.30	11.50
2003	14.05	8.35	12.10	11.00	NA	1076	64.00	11.00
2004	11.40	8.29	11.60	11.00	NA	1098	62.00	11.00
2005	9.41	7.64	10.60	9.49	NA	1093	60.11	9.44
2006	9.09	7.27	9.30	9.20	NA	1074	59.31	9.08
2007	9.64	6.61	8.97	9.02	NA	1076	58.27	8.85
2008	13.75	6.90	9.32	9.09	NA	1089	53.26	9.05
2009	7.20	6.60	8.07	7.80	NA	1080	62.04	7.62
2010	6.15	5.50	6.57	6.69	NA	1106	82.64	6.32
2011	6.48	5.71	6.07	6.22	NA	1105	82.35	6.15
2012	6.01	6.13	7.28	6.91	NA	1007	85.30	6.85
2013	5.90	5.83	7.16	6.52	NA	1025	86.44	6.54
2014	5.49	5.37	6.90	8.46	NA	1017	84.27	6.50
2015	6.16	5.59	6.48	7.40	NA	996	87.75	6.95
2016	5.18	4.82	6.25	6.80	NA	997	89.17	6.33
2017	5.10	5.28	6.46	7.24	NA	1008	87.00	6.84
2018	9.20	6.43	6.84	7.26	NA	1009	80.28	7.10
2019	9.72	6.90	6.80	7.00	NA	999	76.38	7.00
2020	8.98	6.73	7.10	7.13	NA	980	75.10	7.20
2021	16.70	7.90	8.20	8.06	NA	985	70.25	8.30
2022	26.90	10.00	9.17	7.90	NA	991	62.66	8.50
2023	55.00	14.70	9.26	7.80	NA	980	62.55	9.15

[1] Denote the SQAR reporting category as follows:

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New Jersey Median Sewage Sludge Quality

NICKEL

Year	CAT 1[1] (mg/kg)	CAT 2[1] (mg/kg)	CAT 3[1] (mg/kg)	CAT 4[1] (mg/kg)	CAT 5[1] (mg/kg)	Number of Samples	Percent of Samples w/ Detects (%)	STATEWIDE MEDIAN (mg/kg)
1983	29.50	34.00	49.50	43.20	90.00	NA	NA	45.80
1994	31.00	26.00	26.00	30.00	48.00	NA	NA	31.00
1997	18.00	27.20	23.20	24.10	33.00	1185	86.50	23.40
2001	15.20	12.20	18.90	21.40	NA	1009	92.00	18.70
2002	15.90	12.70	19.20	22.10	NA	1061	92.00	19.30
2003	16.30	13.20	17.50	22.50	NA	1077	91.40	19.10
2004	14.80	13.70	17.60	21.00	NA	1098	89.00	18.10
2005	14.80	13.50	15.20	17.30	NA	1094	88.30	16.00
2006	14.30	11.70	14.40	17.60	NA	1075	91.53	15.20
2007	15.10	13.00	14.70	17.00	NA	1076	93.59	15.80
2008	19.50	13.50	14.70	17.50	NA	1088	91.54	16.40
2009	14.20	13.20	15.10	17.70	NA	1081	95.19	15.50
2010	15.80	13.30	14.80	17.40	NA	1106	95.30	16.10
2011	14.70	12.50	14.80	17.70	NA	1105	94.75	16.00
2012	15.70	13.10	14.50	16.50	NA	1007	96.92	15.70
2013	13.60	12.60	15.70	17.30	NA	1027	97.47	16.10
2014	13.20	12.55	14.70	17.10	NA	1018	97.25	15.80
2015	11.30	12.25	13.80	16.95	NA	997	98.29	15.20
2016	9.90	9.69	13.05	15.80	NA	997	97.69	13.90
2017	9.78	11.00	12.70	16.20	NA	1007	98.01	14.50
2018	14.35	13.00	14.40	15.30	NA	1009	96.43	14.80
2019	14.30	12.80	14.90	15.00	NA	999	92.39	14.70
2020	15.45	11.00	13.50	14.30	NA	981	91.54	13.90
2021	14.00	11.80	14.00	15.75	NA	985	89.24	14.32
2022	12.70	13.40	14.00	14.80	NA	991	86.38	14.30
2023	17.90	14.60	14.90	16.00	NA	980	90.71	15.85

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Cat 3: domestic treatment works with a permitted flow from 1.0 to 4.999 MGD

Cat 4: domestic treatment works with a permitted flow equal to or greater than 5.0 MGD

Cat 5: domestic treatment works with a flow to which more than 10 percent of the permitted daily flow or the permitted daily mass loading of BOD, COD or Suspended Solids is contributed by SIUs. (This category was deleted in the 1999 readoption of the SQAR)

Notes: Due to large ranges reported for some parameters there is a considerable difference in magnitude between mean and median values. The true central tendency for the concentration is better represented by the median than by the mean value. For determining median concentrations, if analytical testing did not yield a pollutant concentration above the minimum detection level**, the pollutant concentration was assumed to be the minimum amount of pollutant that could be measured. Equating undetected data points to their minimum detection level is a conservative assumption since it tends to overestimate pollutant concentrations**. The percent of detected samples is indicated on the table.

New Jersey Median Sewage Sludge Quality

SELENIUM

Year	CAT 1[1] (mg/kg)	CAT 2[1] (mg/kg)	CAT 3[1] (mg/kg)	CAT 4[1] (mg/kg)	CAT 5[1] (mg/kg)	Number of Samples	Percent of Samples w/ Detects (%)	STATEWIDE MEDIAN (mg/kg)
1983	NA	NA	NA	NA	NA	NA	NA	NA
1994	2.38	2.70	2.40	1.74	1.30	NA	NA	2.07
1997	4.80	4.83	3.08	5.74	5.78	1184	66.20	4.91
2001	7.38	6.11	6.92	7.27	NA	1007	43.00	7.02
2002	10.08	6.81	7.72	6.59	NA	1060	52.00	7.10
2003	9.66	6.76	7.28	6.91	NA	1077	48.60	7.11
2004	9.48	7.38	8.47	7.47	NA	1098	43.40	8.00
2005	10.30	7.41	8.32	7.79	NA	1093	38.70	8.10
2006	10.00	7.08	7.16	7.91	NA	1075	37.12	7.90
2007	10.00	6.61	8.08	8.13	NA	1076	36.90	8.08
2008	13.85	7.06	8.21	8.72	NA	1088	40.72	8.68
2009	9.61	7.75	7.50	7.14	NA	1079	45.13	7.49
2010	7.29	6.10	4.58	4.43	NA	1105	51.49	4.85
2011	7.78	4.84	4.61	4.20	NA	1104	42.66	4.61
2012	7.03	7.62	5.68	5.27	NA	1007	59.48	5.59
2013	9.15	7.70	5.87	5.20	NA	1026	58.58	5.70
2014	6.80	6.32	7.00	5.83	NA	1016	53.74	6.19
2015	7.19	6.03	6.43	5.85	NA	997	49.55	6.10
2016	8.10	6.55	5.74	6.11	NA	996	72.09	6.09
2017	6.96	5.89	6.10	6.13	NA	1007	70.31	6.12
2018	13.35	7.34	6.90	5.90	NA	1009	53.52	6.65
2019	14.20	9.47	8.40	7.04	NA	999	43.24	7.51
2020	12.50	9.13	7.60	6.90	NA	981	48.42	7.70
2021	20.80	11.60	9.10	8.50	NA	985	46.70	9.30
2022	27.80	12.00	10.70	8.40	NA	991	38.85	10.30
2023	34.45	18.40	10.40	8.19	NA	979	36.16	10.70

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Notes: Due to large ranges reported for some parameters there is a considerable difference in magnitude between mean and median values. The true central tendency for the concentration is better represented by the median than by the mean value. For determining median concentrations, if analytical testing did not yield a pollutant concentration above the minimum detection level**, the pollutant concentration was assumed to be the minimum amount of pollutant that could be measured. Equating undetected data points to their minimum detection level is a conservative assumption since it tends to overestimate pollutant concentrations**. The percent of detected samples is indicated on the table.

New Jersey Median Sewage Sludge Quality

ZINC

Year	CAT 1[1] (mg/kg)	CAT 2[1] (mg/kg)	CAT 3[1] (mg/kg)	CAT 4[1] (mg/kg)	CAT 5[1] (mg/kg)	Number of Samples	Percent of Samples w/ Detects (%)	STATEWIDE MEDIAN (mg/kg)
1983	803.00	825.00	1200.00	1010.00	2300.00	NA	NA	1110.00
1994	904.00	684.00	738.00	846.00	999.00	NA	NA	826.00
1997	674.00	666.00	740.00	936.00	1000.00	1185	98.90	810.00
2001	746.00	574.00	785.00	902.00	NA	1007	99.80	832.00
2002	836.00	630.00	737.00	1015.00	NA	1062	99.30	870.00
2003	702.00	705.00	678.00	936.00	NA	1077	99.99	820.00
2004	754.00	723.00	702.00	937.00	NA	1098	100.00	832.00
2005	848.00	613.00	677.00	897.00	NA	1094	99.91	819.00
2006	676.00	653.00	723.00	906.00	NA	1075	99.91	808.00
2007	691.00	588.00	783.00	898.00	NA	1076	100.00	822.00
2008	697.00	689.00	778.00	860.00	NA	1087	99.63	792.00
2009	712.00	681.00	792.00	810.00	NA	1080	99.81	780.00
2010	712.00	647.00	768.00	813.00	NA	1107	99.82	784.00
2011	678.00	670.00	742.00	806.00	NA	1106	99.90	754.00
2012	708.00	637.00	743.00	851.00	NA	1007	99.80	801.00
2013	666.00	638.00	785.00	843.00	NA	1027	100.00	799.00
2014	700.50	644.00	672.00	805.00	NA	1018	100.00	760.00
2015	628.00	592.50	680.00	801.50	NA	997	100.00	751.00
2016	617.50	559.00	641.00	805.00	NA	995	99.80	733.00
2017	515.50	530.00	663.00	803.00	NA	1008	100.00	713.50
2018	548.00	576.00	682.00	784.00	NA	1009	99.90	746.00
2019	568.50	618.00	683.00	808.50	NA	999	99.80	751.00
2020	630.00	600.00	676.00	897.00	NA	981	99.80	818.00
2021	540.00	668.00	746.00	1022.50	NA	984	99.70	870.00
2022	685.00	636.00	780.00	1000.00	NA	991	99.80	875.00
2023	757.00	690.00	755.00	1000.00	NA	980	99.59	888.50

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