

Arsenic Monitoring Results from Select Facilities

Federal Drinking Water Standard = 10 µg/L, TN Recreational Criteria = 10 µg/L, EPA Recommended Human Health (Consumption of Organism) = 0.14 µg/L

State	Company	Plant	Outfall	Waste Type	Receiving Water	Flow Average (mgd)	Flow Maximum (mgd)	# of Samples	READING: MEAN SAMPLE VALUE (µg/L)	READING: MAXIMUM SAMPLE VALUE (µg/L)	LBS/DAY (Mean Concentration Flow Average)	LBS/DAY (Mean Concentration Flow Maximum)	Primary Source	EPA Docket ID
AL	AL Power	Gadsden	002	Ash Pond	Direct Discharge to Coosa River	2.42	7.89	12	50.3	184	1.0152	3.3098	ECHO Monthly Monitoring (2008)	
AL	Southern	Gadsden	002	Ash Pond	Direct Discharge to Coosa River	3.6	1.89	36	86	90	2.5820	1.3556	NPDES Permit No. AL0002887 (May 14, 2007)	EPA-HQ-OW-2006_0771-1797.29
AL	AL Power	Gaston	004	Ash Pond	Direct Discharge to Coosa River	13	29.4	4	32.8	43	3.5561	8.0422	ECHO Quarterly Monitoring (2008)	EPA-HQ-OW-2006-0771-1797.24
AL	Southern	Gorgas	032	Ash Pond	Direct Discharge to Warrior River	19.82		1	61	61	10.0830	0.0000	NYPDES Permit No. AL0002909 (Jan. 2006)	EPA-HQ-OW-2006-0771-1797.34
AL	TVA	Widows Creek	SP-2	FGD Effluent	Direct Discharge to Widows Creek	N/A	N/A	1	46.7	46.7	N/A	N/A	Sample (9/11/2007)	EPA-HQ-OW-2006-0771-1733
AL	TVA	Widows Creek	001	Ash Pond	Direct Discharge to Tennessee River	24.15	51.84	11	36	55	7.2506	15.5641	NPDES Permit No. AL8640006690 App. (Apr. 2004)	EPA-HQ-OW-2006-0771-1797.84

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IN	Duke	Cayuga	002	Ash Pond	Direct Discharge to Wabash River	1.25	3.6	3	30	32	0.3127	0.9007	NPDES Permit No. IN0002763 (Feb. 2006)	EPA-HQ-OW-2006-0771-1797.17
IN	Duke	Wabash River	002	Ash	Direct Discharge to Wabash River	7.01	9.81	12	118.7	181	6.9395	9.7113	ECHO Monthly Monitoring (2008)	EPA-HQ-OW-2006-0771-1797.81
KY	Kentucky Utilities Company	Ghent	001	Ash Treatment Basin	Direct Discharge to Ohio River	18.9	30.7	5	68.5	124	10.7971	17.5382	KYPDES Permit (Dec. 2006)	EPA-HQ-OW-2006-0771-1797.32
KY	Kentucky Utilities Company	Green River	001	Ash Sluice Water	Direct Discharge to Green River	1.508	3.24	130	130.3	314	1.6387	3.5208	KYPES Permit No. KY 0002011 (Apr. 2004)	EPA-HQ-OW-2006-0771-1797.35
KY	TVA	Paradise	001	Ash Pond	Direct Discharge to Jacobs Creek	25.5	36.5	1	23	23	4.8913	7.0013	NPDES Permit No. KY0004201 App. (Feb. 2002)	EPA-HQ-OW-2006-0771-1797.66

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KY	Kentucky Utilities Company	Tyrone	001	Ash Treatment Basin	Discharge to Kentucky River	0.87	1.47	5	110	182	0.7981	1.3485	KPDES Permit No. KY0001899 (July 2006)	EPA-HQ-OW-2006-0771-1797.80
MO	Ameren	Sioux	006	Ash Pond	Discharge to Mississippi River via Poeling Lake	2.4	2.8	1	20	20	0.4003	0.4670	NPDES Permit No. MO0000353 Application	EPA-HQ-OW-2006-0771-1797.78
NC	Duke	Buck	002	Ash Pond	Direct Discharge to Yadkin River	0.1	9.7	4	42.2	57.9	0.0352	3.4138	ECHO Quarterly Monitoring (2007)	EPA-HQ-OW-2006-0771-1797.13
NC	Duke	Dan River	002	Ash Pond	Direct Discharge to Dan River	0.2	1.7	11	35	59.9	0.0584	0.4962	ECHO Monthly Monitoring (2008)	EPA-HQ-OW-2006-0771-1797.22
NC	Duke	River-bend	002	Ash Pond	Direct Discharge to Catawba River (Mountain Island Lake)	1.4	7.8	5	31.1	69.4	0.3631	2.0231	Echo Monthly Monitoring (2008)	EPA-HQ-OW-2006-0771-1797.74
NC	Progress	Asheville	001	Ash Treatment System	Direct Discharge to French Broad River	1.9	10.6	12	38.3	66.5	0.6069	3.3858	ECHO Monthly Monitoring (2008)	EPA-HQ-OW-2006-0771-0300.2

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NC	Progress	Cape Fear	005	Ash Pond	Discharge to Unnamed Tributary to Cape Fear River via Outfall 007 ¹	0.6	0.6	2	121	128	0.6055	0.6055	ECHO Monthly Monitoring (2008)	EPA-HQ-OW-2006-0771-1797.14
NC	Progress	L.V. Sutton	001	Ash Sluice Water	Direct Discharge to Cape Fear River	12.84	270.38	9	21	41	2.2487	47.3533	NPDES Permit No. NCD00083064 (June 26, 2006)	EPA-HQ-OW-2006_0771-1797.48
NC	Progress	Mayo	002	Ash	Direct Discharge to Mayo Lake	6.525	15.31	4	33.3	45	1.8121	4.2518	ECHO Quarterly Monitoring (2008)	EPA-HQ-OW-2006-0771-0300.26
OH	AEP	Cardinal	19	Ash Pond	Direct Discharge to Blockhouse Hollow Run	9.398	77.09	12	182.6	320	14.3117	117.3965	ECHO Monthly Monitoring (2008)	EPA-HQ-OW-2006-0771-1797.15
OH	Duke	Gallagher	002	Ash Pond	Discharge through Outfall 001 to Ohio River	8.31	9.96	3	32	46	2.2177	2.6581	NPDES Permit (July 7, 2004)	EPA-HQ-OW-2006-0771-1797.29
SC	Santee Cooper (SCPSA)	Grainger	001	Ash Pond	Discharge to Waccamaw River ²	0.52	2.8	10	31.8	72	0.1379	0.7426	ECHO Monthly Monitoring (2008)	

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SC	Santee Cooper (SCPSA)	Jefferies	003	Ash Pond	Discharge to Tailrace Canal ³	3.299	3.426	10	52.8	103	1.4527	1.5086	ECHO Monthly Monitoring (2008)	
SC	South Carolina Gas and Electric	Wateree	03A	Ash Transport Waste Waters	Direct Discharge to Wateree River	3.8	6.0	1	93	93	2.9473	4.6536	NPDES Permit No. SC0002038 (Aug. 5, 2004)	EPA-HQ-OW-2006-0771-1797.83
TN	TVA	Allen	001	Ash Pond	Direct Discharge to McKellar Lake	8.21	11.52	1	43	43	2.9442	4.1312	NPDES Permit No. TN0005355 App. (Oct. 2004)	EPA-HQ-OW-2006-0771-1797.1
TN	TVA	Gallatin	001	Ash Pond	Direct Discharge to Cumberland River	22.1	88.5	13	18	34	3.3176	13.2853	NPDES Permit No. TN564000667 7 App. (May 2004)	EPA-HQ-OW-2006-0771-1797.30
TN	TVA	Johnsonville	001	Ash Pond	Direct Discharge to Tennessee River	20.5	35.3	5	153	243	26.1578	45.0425	NPDES Permit No. 9640006681 App. (May 2003)	EPA-HQ-OW-2006-0771-1797.42
TN	TVA	Kingston	001	Ash Pond	Discharge to Clinch River via Plant Intake Canal	24.7	42.2	1	90	90	18.5394	31.6746	NPDES Permit No. TN864000668 2 App. (Dec. 2002)	EPA-HQ-OW-2006-0771-1797.45

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TN	TVA	Kingston	007	Ash Pond Seep- age	Discharge to Clinch River via Plant Intake Canal	0.51	0.51	1	31	31	0.1319	0.1319	NPDES Permit No. TN864000668 2 App. (Dec. 2002)	EPA-HQ-OW-2006-0771-1797.45
VA	Dominion Energy	Bremo	002	Ash Pond	Direct Discharge to James River	1.945	7.9056	1	158	158	2.5629	10.4171	NPDES Permit No. VA0004138 App. (Feb. 2005)	EPA-HQ-OW-2006-0771-1797.12
WV	AEP	Amos	001	Ash Pond	Direct Discharge to Little Scary Creek (to Kanawha River)	0.16	8.9	12	24.3	49	0.0324	1.8037	ECHO Monthly Monitoring (2008)	EPA-HQ-OW-2006-0771-1797.41
WV	Ohio Power	Mitchell	Sample Point 4	Ash Pond Effluent	Ash Pond Directly Discharges to Fish Creek	9.663 ⁴	9.663 ⁴	1	138	138	11.1211	11.1211	Oct. 2007 Sample	EPA-HQ-OW-2006-0771-1736; 0139.1

¹ The ECHO database did not provide arsenic concentration readings for the applicable months from Outfall 007 at the Cape Fear facility.

² The Grainger plant discharges to the Waccamaw River, but ECHO data did not confirm whether Outfall 001 discharges directly into the Waccamaw.

³ The Jefferies plant discharges to the Tailrace Canal, but ECHO data did not confirm whether Outfall 003 discharges directly into the Tailrace Canal.

⁴ This sample did not measure flow. EPA's ECHO database reports maximum flow of 9.663 MGD in October of 2007 from Discharge from ash pond.