Plant Mitchell Ash Ponds
Analytical Data Summary

Georgia Power is in the process of closing all of its ash ponds. As part of this process, the company is monitoring groundwater around its ash ponds as required by the Environmental Protection Agency's (EPA) Coal Combustion Residuals (CCR) Rule and the Georgia Environmental Protection Division's (EPD) CCR Rule (State CCR rule). The CCR Rule and the State CCR rule require at least eight independent groundwater sampling events to be conducted at monitoring wells around its coal ash ponds to determine background groundwater conditions. These data tables summarize the results from background sample events. Collective data from background sampling events will be required to establish background groundwater conditions at each facility.

Substance		MCL/ (SMCL)	Well ID							
			PZ-1D	PZ-1D	PZ-1D	PZ-1D	PZ-1D	PZ-1D	PZ-1D	PZ-1D
			8/30/2016	12/6/2016	3/21/2017	7/11/2017	10/17/2017			
APPENDIX III	Boron	N/R	ND (0.0132 J)	ND (0.0096 J)	ND (0.0082 J)	ND (0.0067 J)	ND (0.0083 J)			
	Calcium	N/R	40.4	43.3	44.1	47.4	48.7			
	Chloride	(250)	3.1	3.4	2.9	3.4	3.3			
	Fluoride	4.0	ND (0.06 J)	ND (0.06 J)	ND (0.004 J)	ND (0.05 J)	ND			
	Sulfate	(250)	2.1	2.4	2.5	2.6	2.5			
	TDS	(500)	136	207	128	138	101			
APPENDIX IV	Antimony	0.006	ND (0.0009 J)	ND	ND (0.0028 J)	0.0035	ND (0.0025 J)			
	Arsenic	0.01	ND	ND	ND	ND	ND			
	Barium	2.0	0.0335	0.0311	0.0305	0.0305	0.0255			
	Beryllium	0.004	ND	ND	ND	ND	ND			
	Cadmium	0.005	ND	ND	ND	ND	ND			
	Chromium	0.1	ND (0.0039 J)	ND (0.0047 J)	ND (0.0047 J)	ND (0.0054 J)	ND (0.0053 J)			
	Cobalt	N/R	ND	ND	ND	ND	ND			
	Lead	0.015	ND	ND	ND	ND	ND (0.0001 J)			
	Lithium	N/R	ND	ND	ND	ND	ND			
	Mercury	0.002	ND	ND	ND	ND	ND			
	Molybdenum	N/R	ND	ND (0.0019 J)	ND (0.0018 J)	ND (0.0018 J)	ND (0.0016 J)			
	Radium	5.0	0.503 U	0.302 U	0.526 U	0.676 U	0.201 U			
	Selenium	0.05	ND	ND	ND	ND	ND			
	Thallium	0.002	ND	ND	ND	ND	ND			

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7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
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Substance		MCL/ (SMCL)	Well ID							
			PZ-2S	PZ-2S	PZ-2S	PZ-2S	PZ-2S	PZ-2S	PZ-2S	PZ-2S
			8/30/2016	12/15/2016	3/21/2017	7/11/2017	10/17/2017			
APPENDIX III	Boron	N/R	ND (0.0168 J)	ND (0.0163 J)	ND (0.0126 J)	ND	ND (0.0086 J)			
	Calcium	N/R	45	45	45.9	50.7	49.8			
	Chloride	(250)	2.9	ND (0.05 J)	2.8	3.1	3.0			
	Fluoride	4.0	ND (0.09 J)	ND	ND	0.02 J	ND (0.06 J)			
	Sulfate	(250)	1.2	ND (0.07 J)	1.2	1.2	1.2			
	TDS	(500)	155	227	131	137	119			
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND			
	Arsenic	0.01	ND	ND	ND	ND	ND			
	Barium	2.0	0.0137	0.0131	ND (0.0085 J)	ND (0.0088 J)	ND (0.0084 J)			
	Beryllium	0.004	ND	ND	ND	ND	ND			
	Cadmium	0.005	ND	ND	ND	ND	ND			
	Chromium	0.1	ND (0.0021 J)	ND (0.0024 J)	ND (0.0029 J)	ND (0.0033 J)	ND (0.004 J)			
	Cobalt	N/R	ND	ND	ND	ND	ND			
	Lead	0.015	ND (0.0002 J)	ND (0.0002 J)	ND	ND	ND			
	Lithium	N/R	ND	ND	ND	ND	ND			
	Mercury	0.002	ND	ND	ND	ND	ND			
	Molybdenum	N/R	ND	ND	ND (0.0003 J)	ND	ND			
	Radium	5.0	0.794 U	0.870 U	0.422 U	1.0 U	0.282 U			
	Selenium	0.05	ND	ND	ND	ND	ND			
	Thallium	0.002	ND	ND	ND	ND	ND			

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Substance		MCL/ (SMCL)	Well ID							
			PZ-7D	PZ-7D	PZ-7D	PZ-7D	PZ-7D	PZ-7D	PZ-7D	PZ-7D
			9/1/2016	12/7/2016	3/22/2017	7/12/2017	10/19/2017			
APPENDIX III	Boron	N/R	0.379	0.394	0.365	0.267	0.326			
	Calcium	N/R	101	103	111	119	107			
	Chloride	(250)	7.4	7.6	7.2	7.3	7.4			
	Fluoride	4.0	ND	ND (0.15 J)	ND (0.09 J)	ND (0.02 J)	ND			
	Sulfate	(250)	62	57	61	53	55			
	TDS	(500)	373	433	409	374	318			
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND			
	Arsenic	0.01	ND	ND	ND	ND	ND			
	Barium	2.0	0.0117	0.0133	0.0114	ND (0.0097 J)	ND (0.0091 J)			
	Beryllium	0.004	ND	ND	ND	ND	ND			
	Cadmium	0.005	ND	ND	ND	ND	ND			
	Chromium	0.1	ND	ND (0.003 J)	ND (0.0005 J)	ND	ND (0.0005 J)			
	Cobalt	N/R	ND	ND	ND	ND	ND			
	Lead	0.015	ND	ND	ND	ND	ND			
	Lithium	N/R	ND (0.0022 J)	ND (0.0023 J)	ND (0.0025 J)	ND (0.0033 J)	ND			
	Mercury	0.002	ND	ND (0.00006 J)	ND	ND	ND			
	Molybdenum	N/R	ND	ND	ND	ND	ND			
	Radium	5.0	0.880 U	0.179 U	0.279 U	0.125 U	0.329 U			
	Selenium	0.05	ND	ND	ND	ND	ND			
	Thallium	0.002	ND	ND	ND (0.0002 J)	ND (0.0001 J)	ND (0.0001 J)			

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Substance		MCL/ (SMCL)	Well ID							
			PZ-14	PZ-14	PZ-14	PZ-14	PZ-14	PZ-14	PZ-14	PZ-14
			8/31/2016	12/7/2016	3/21/2017	7/11/2017	10/18/2017			
APPENDIX III	Boron	N/R	ND (0.0285 J)	ND (0.0292 J)	ND (0.0198 J)	ND (0.0137 J)	ND (0.0212 J)			
	Calcium	N/R	92.9	93.1	95.0	97.1	100			
	Chloride	(250)	4.9	4.8	4.9	5.0	5.1			
	Fluoride	4.0	ND (0.13 J)	ND (0.07 J)	ND	ND (0.05 J)	ND (0.11 J)			
	Sulfate	(250)	4.1	1.5	2.0	2.0	4.2			
	TDS	(500)	344	393	276	263	261			
APPENDIX IV	Antimony	0.006	ND	ND	ND (0.0004 J)	ND	ND			
	Arsenic	0.01	ND	ND	ND	ND	ND			
	Barium	2.0	0.0253	0.065	0.0379	0.0360	0.0247			
	Beryllium	0.004	ND	ND	ND	ND	ND			
	Cadmium	0.005	ND	ND	ND	ND	ND			
	Chromium	0.1	ND	ND	ND	ND	ND			
	Cobalt	N/R	ND	ND (0.002 J)	ND	ND (0.0003 J)	ND			
	Lead	0.015	ND	ND	ND	ND	ND			
	Lithium	N/R	ND	ND (0.003 J)	ND	ND	ND			
	Mercury	0.002	ND	ND (0.00007 J)	ND	ND	ND			
	Molybdenum	N/R	ND	ND	ND (0.0005 J)	ND	ND			
	Radium	5.0	1.77	0.672 U	0.33 U	0.701 U	0.808 U			
	Selenium	0.05	ND (0.0012 J)	ND	ND	ND	ND			
	Thallium	0.002	ND	ND	ND (0.00006 J)	ND	ND			

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Substance		MCL/ (SMCL)	Well ID							
			PZ-15	PZ-15	PZ-15	PZ-15	PZ-15	PZ-15	PZ-15	PZ-15
			9/1/2016	12/7/2016	3/22/2017	7/12/2017	10/18/2017			
APPENDIX III	Boron	N/R	0.215	0.224	0.205	0.184	0.197			
	Calcium	N/R	74.8	74	99.3	91.4	92.0			
	Chloride	(250)	7	7.0	7.4	8.0	7.8			
	Fluoride	4.0	ND (0.06 J)	ND (0.09 J)	ND (0.11 J)	ND (0.23 J)	ND (0.19 J)			
	Sulfate	(250)	73	71	80	78	82			
	TDS	(500)	284	242	332	308	275			
APPENDIX IV	Antimony	0.006	ND (0.0010 J)	ND	ND	ND	ND			
	Arsenic	0.01	ND	ND	ND (0.0011 J)	ND (0.0006 J)	ND			
	Barium	2.0	0.103	0.0781	0.0589	0.0613	0.0617			
	Beryllium	0.004	ND	ND	ND	ND	ND			
	Cadmium	0.005	ND	ND	ND	ND	ND			
	Chromium	0.1	ND	ND	ND	ND	ND			
	Cobalt	N/R	ND (0.0012 J)	ND (0.0005 J)	ND (0.0005 J)	ND (0.0004 J)	ND (0.0004 J)			
	Lead	0.015	ND	ND	ND (0.00005 J)	ND	ND			
	Lithium	N/R	ND	ND	ND (0.0011 J)	ND	ND			
	Mercury	0.002	ND	ND	ND	ND	ND			
	Molybdenum	N/R	ND	ND	ND (0.0004 J)	ND	ND			
	Radium	5.0	1.19	1.88	0.617 U	0.674 U	0.844 U			
	Selenium	0.05	ND	ND	ND	ND	ND			
	Thallium	0.002	ND	ND	ND	ND	ND			

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Substance		MCL/ (SMCL)	Well ID							
			PZ-16	PZ-16	PZ-16	PZ-16	PZ-16	PZ-16	PZ-16	PZ-16
			9/6/2016	12/7/2016	3/22/2017	7/11/2017	10/18/2017			
APPENDIX III	Boron	N/R	0.17	0.173	0.218	0.180	0.195			
	Calcium	N/R	74.6	68.9	77.8	77.3	84.7			
	Chloride	(250)	7.9	7.6	7.7	8.1	8.2			
	Fluoride	4.0	ND (0.09 J)	ND (0.09 J)	ND (0.04 J)	ND (0.05 J)	ND (0.04 J)			
	Sulfate	(250)	49	46	53	52	58			
	TDS	(500)	257	248	304	265	240			
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND			
	Arsenic	0.01	ND	ND	ND	ND	ND			
	Barium	2.0	0.0794	0.0689	0.0423	0.0467	0.0446			
	Beryllium	0.004	ND	ND	ND	ND	ND			
	Cadmium	0.005	ND	ND	ND	ND	ND			
	Chromium	0.1	ND	ND	ND (0.0008 J)	ND	ND			
	Cobalt	N/R	ND (0.0005 J)	ND	ND	ND	ND			
	Lead	0.015	ND	ND	ND	ND	ND			
	Lithium	N/R	ND	ND	ND	ND	ND			
	Mercury	0.002	ND	ND	ND	ND	ND			
	Molybdenum	N/R	ND	ND	ND (0.0004 J)	ND	ND			
	Radium	5.0	1.12	1.37	0.435 U	0.76 U	0.847 U			
	Selenium	0.05	ND	ND	ND	ND	ND			
	Thallium	0.002	ND	ND	ND (0.0002 J)	ND (0.0002 J)	ND (0.0002 J)			

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			PZ-17	PZ-17	PZ-17	PZ-17	PZ-17	PZ-17	PZ-17	PZ-17
			9/7/2016	12/8/2016	3/22/2017	7/12/2017	10/18/2017			
APPENDIX III	Boron	N/R	0.276	0.303	0.342	0.278	0.277			
	Calcium	N/R	100	102	113	110	122			
	Chloride	(250)	7.7	7.2	7.3	7.4	7.6			
	Fluoride	4.0	ND (0.03 J)	ND (0.18 J)	ND (0.09 J)	ND (0.21 J)	ND (0.24 J)			
	Sulfate	(250)	99	94	100	100	100			
	TDS	(500)	392	431	456	445	349			
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND			
	Arsenic	0.01	ND	ND	ND (0.0007 J)	ND	ND			
	Barium	2.0	0.0823	0.0668	0.0821	0.0805	0.0776			
	Beryllium	0.004	ND	ND	ND	ND	ND			
	Cadmium	0.005	ND	ND	ND	ND	ND			
	Chromium	0.1	ND	ND	ND	ND	ND			
	Cobalt	N/R	ND (0.0011 J)	ND (0.0006 J)	ND (0.0006 J)	ND (0.0005 J)	ND (0.0005 J)			
	Lead	0.015	ND	ND	ND	ND	ND			
	Lithium	N/R	ND	ND	ND (0.0021 J)	ND (0.002 J)	ND (0.002 J)			
	Mercury	0.002	ND	ND	ND	ND	ND			
	Molybdenum	N/R	ND	ND	ND (0.0004 J)	ND	ND			
	Radium	5.0	1.06 U	1.30	0.566 U	0.856 U	0.957			
	Selenium	0.05	ND	ND	ND	ND	ND			
	Thallium	0.002	ND	ND	ND	ND	ND			

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Substance		MCL/ (SMCL)	Well ID							
			PZ-18	PZ-18	PZ-18	PZ-18	PZ-18	PZ-18	PZ-18	PZ-18
			9/7/2016	12/8/2016	3/22/2017	7/12/2017	10/18/2017			
APPENDIX III	Boron	N/R	0.355	0.351	0.405	0.350	0.370			
	Calcium	N/R	112	113	122	129	125			
	Chloride	(250)	6.9	6.8	6.8	6.7	6.8			
	Fluoride	4.0	ND (0.12 J)	ND (0.18 J)	ND (0.08 J)	ND (0.17 J)	ND (0.06 J)			
	Sulfate	(250)	96	94	95	96	99			
	TDS	(500)	415	441	469	432	368			
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND			
	Arsenic	0.01	ND	ND	ND	ND	ND			
	Barium	2.0	0.0717	0.0513	0.0273	0.0269	0.0258			
	Beryllium	0.004	ND	ND	ND	ND	ND			
	Cadmium	0.005	ND	ND	ND	ND	ND			
	Chromium	0.1	ND	ND	ND	ND	ND			
	Cobalt	N/R	ND (0.0011 J)	ND	ND	ND	ND			
	Lead	0.015	ND	ND	ND	ND	ND			
	Lithium	N/R	ND	ND	ND (0.0029 J)	ND (0.0024 J)	ND (0.0027 J)			
	Mercury	0.002	ND	ND	ND	ND	ND			
	Molybdenum	N/R	ND	ND	ND	ND	ND			
	Radium	5.0	1.51	1.29	0.799 U	0.400 U	0.613 U			
	Selenium	0.05	ND	ND	ND	ND	ND			
	Thallium	0.002	ND	ND	ND (0.00004 J)	ND	ND (0.00005 J)			

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR Rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Plant Mitchell Ash Ponds
Analytical Data Summary

Georgia Power is in the process of closing all of its ash ponds. As part of this process, the company is monitoring groundwater around its ash ponds as required by the Environmental Protection Agency's (EPA) Coal Combustion Residuals (CCR) Rule and the Georgia Environmental Protection Division's (EPD) CCR Rule (State CCR rule). The CCR Rule and the State CCR rule require at least eight independent groundwater sampling events to be conducted at monitoring wells around its coal ash ponds to determine background groundwater conditions. These data tables summarize the results from background sample events. Collective data from background sampling events will be required to establish background groundwater conditions at each facility.

Substance		MCL/ (SMCL)	Well ID							
			PZ-19	PZ-19	PZ-19	PZ-19	PZ-19	PZ-19	PZ-19	PZ-19
			9/7/2016	12/8/2016	3/23/2017	7/12/2017	10/19/2017			
APPENDIX III	Boron	N/R	0.573	0.588	0.703	0.598	0.660			
	Calcium	N/R	138	135	137	145	140			
	Chloride	(250)	6.8	6.6	6.6	6.6	6.5			
	Fluoride	4.0	ND (0.15 J)	ND (0.12 J)	ND (0.14 J)	ND (0.07 J)	ND			
	Sulfate	(250)	87	84	90	93	92			
	TDS	(500)	508	556	482	497	448			
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND			
	Arsenic	0.01	ND	ND	ND (0.0007 J)	ND	ND			
	Barium	2.0	0.0670	0.0522	0.0591	0.0604	0.0542			
	Beryllium	0.004	ND	ND	ND	ND	ND			
	Cadmium	0.005	ND	ND	ND	ND	ND			
	Chromium	0.1	ND	ND	ND	ND	ND			
	Cobalt	N/R	ND (0.0012 J)	ND (0.0009 J)	ND	ND	ND			
	Lead	0.015	ND	ND	ND	ND	ND			
	Lithium	N/R	ND (0.0082 J)	ND (0.0061 J)	ND (0.0122 J)	ND (0.013 J)	ND (0.013 J)			
	Mercury	0.002	ND	ND	ND	ND	ND			
	Molybdenum	N/R	ND (0.0027 J)	ND (0.0022 J)	ND (0.0025 J)	ND (0.0022 J)	ND (0.0021 J)			
	Radium	5.0	1.22	1.69	1.07	0.849 U	0.398 U			
	Selenium	0.05	ND	ND	ND	ND	ND			
	Thallium	0.002	ND	ND (0.0003 J)	ND (0.0003 J)	ND (0.0004 J)	ND (0.0005 J)			

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR Rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Plant Mitchell Ash Ponds
Analytical Data Summary

Georgia Power is in the process of closing all of its ash ponds. As part of this process, the company is monitoring groundwater around its ash ponds as required by the Environmental Protection Agency's (EPA) Coal Combustion Residuals (CCR) Rule and the Georgia Environmental Protection Division's (EPD) CCR Rule (State CCR rule). The CCR Rule and the State CCR rule require at least eight independent groundwater sampling events to be conducted at monitoring wells around its coal ash ponds to determine background groundwater conditions. These data tables summarize the results from background sample events. Collective data from background sampling events will be required to establish background groundwater conditions at each facility.

Substance		MCL/ (SMCL)	Well ID							
			PZ-23	PZ-23	PZ-23	PZ-23	PZ-23	PZ-23	PZ-23	PZ-23
			8/31/2016	12/7/2016	3/21/2017	7/11/2017	10/18/2017			
APPENDIX III	Boron	N/R	0.166	0.182	0.172	0.149	0.158			
	Calcium	N/R	132	125	138	139	144			
	Chloride	(250)	5.1	5.2	5.5	5.7	5.1			
	Fluoride	4.0	ND (0.13 J)	ND (0.13 J)	ND (0.05 J)	ND (0.05 J)	ND			
	Sulfate	(250)	29	24	31	37	34			
	TDS	(500)	400	406	409	414	366			
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND			
	Arsenic	0.01	ND	ND	ND	ND	ND			
	Barium	2.0	0.0407	0.0581	0.0678	0.0574	0.0351			
	Beryllium	0.004	ND	ND	ND	ND	ND			
	Cadmium	0.005	ND (0.0002 J)	ND (0.0002 J)	ND	ND	ND			
	Chromium	0.1	ND	ND	ND (0.0009 J)	ND (0.0016 J)	ND (0.0019 J)			
	Cobalt	N/R	ND	ND (0.0008 J)	ND	ND	ND			
	Lead	0.015	ND	ND	ND	ND	ND			
	Lithium	N/R	ND	ND	ND	ND	ND			
	Mercury	0.002	ND	ND (0.00009 J)	ND	ND	ND			
	Molybdenum	N/R	ND	ND	ND (0.0006 J)	ND	ND			
	Radium	5.0	1.85	0.844 U	0.832 U	0.824 U	1.19			
	Selenium	0.05	ND (0.0014 J)	ND	ND	ND	ND			
	Thallium	0.002	ND	ND (0.0002 J)	ND (0.0003 J)	ND (0.0002 J)	ND (0.0001 J)			

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR Rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Plant Mitchell Ash Ponds
Analytical Data Summary

Georgia Power is in the process of closing all of its ash ponds. As part of this process, the company is monitoring groundwater around its ash ponds as required by the Environmental Protection Agency's (EPA) Coal Combustion Residuals (CCR) Rule and the Georgia Environmental Protection Division's (EPD) CCR Rule (State CCR rule). The CCR Rule and the State CCR rule require at least eight independent groundwater sampling events to be conducted at monitoring wells around its coal ash ponds to determine background groundwater conditions. These data tables summarize the results from background sample events. Collective data from background sampling events will be required to establish background groundwater conditions at each facility.

Substance		MCL/ (SMCL)	Well ID							
			PZ-24	PZ-24	PZ-24	PZ-24	PZ-24	PZ-24	PZ-24	PZ-24
			9/8/2016							
APPENDIX III	Boron	N/R	ND (0.0261 J)							
	Calcium	N/R	85.4							
	Chloride	(250)	7.2							
	Fluoride	4.0	ND (0.22 J)							
	Sulfate	(250)	13							
	TDS	(500)	337							
APPENDIX IV	Antimony	0.006	ND							
	Arsenic	0.01	ND							
	Barium	2.0	0.0931							
	Beryllium	0.004	ND	See Note 10						
	Cadmium	0.005	ND							
	Chromium	0.1	ND							
	Cobalt	N/R	ND (0.0015 J)							
	Lead	0.015	ND							
	Lithium	N/R	ND							
	Mercury	0.002	ND							
	Molybdenum	N/R	ND							
	Radium	5.0	0.486 U							
	Selenium	0.05	ND							
	Thallium	0.002	ND							

Notes:

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3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR Rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
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10. Well no longer sampled as part of background monitoring due to well replacement, proximity to closure activities, or modification to the proposed well network.

Plant Mitchell Ash Ponds
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Substance		MCL/ (SMCL)	PZ-25	PZ-25	PZ-25	PZ-25	PZ-25	PZ-25	PZ-25	PZ-25
			9/8/2016	12/8/2016	3/22/2017	7/11/2017	10/18/2017			
APPENDIX III	Boron	N/R	0.204	0.216	0.247	0.194	0.186			
	Calcium	N/R	85.2	84.5	85.3	93.0	87.6			
	Chloride	(250)	4	3.6	3.3	3.0	2.9			
	Fluoride	4.0	ND (0.25 J)	ND (0.22 J)	ND (0.16 J)	ND (0.23 J)	ND (0.28 J)			
	Sulfate	(250)	48	46	53	51	50			
	TDS	(500)	293	309	299	301	256			
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND			
	Arsenic	0.01	ND (0.0017 J)	ND	ND (0.001 J)	ND	ND			
	Barium	2.0	0.102	0.102	0.0951	0.102	0.0997			
	Beryllium	0.004	ND	ND	ND	ND	ND			
	Cadmium	0.005	ND	ND	ND	ND	ND			
	Chromium	0.1	ND	ND	ND	ND	ND			
	Cobalt	N/R	ND (0.0008 J)	ND	ND (0.001 J)	ND (0.001 J)	ND (0.0011 J)			
	Lead	0.015	ND	ND	ND	ND	ND			
	Lithium	N/R	ND (0.0038 J)	ND (0.0038 J)	ND (0.0068 J)	ND (0.0059 J)	ND (0.0057 J)			
	Mercury	0.002	ND	ND	ND	ND	ND			
	Molybdenum	N/R	ND	ND	ND (0.001 J)	ND	ND			
	Radium	5.0	1.41	1.39	0.852 U	1.04	0.678 U			
	Selenium	0.05	ND	ND	ND	ND	ND			
	Thallium	0.002	ND	ND	ND	ND	ND			

Notes:

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3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
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7. TDS indicates total dissolved solids.
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Substance		MCL/ (SMCL)	Well ID							
			PZ-31	PZ-31	PZ-31	PZ-31	PZ-31	PZ-31	PZ-31	PZ-31
			10/18/2016	12/6/2016	3/21/2017	7/11/2017	10/17/2017			
APPENDIX III	Boron	N/R	ND (0.0174 J)	ND (0.0133 J)	ND (0.0103 J)	ND	ND (0.0116 J)			
	Calcium	N/R	88.3	83.4	94.0	86.0	91.6			
	Chloride	(250)	4.5	5.0	4.3	4.7	4.6			
	Fluoride	4.0	ND (0.16 J)	ND (0.15 J)	ND (0.02 J)	ND (0.06 J)	ND (0.05 J)			
	Sulfate	(250)	2.2	6.1	5.7	4.8	6.4			
	TDS	(500)	264	299	260	244	218			
APPENDIX IV	Antimony	0.006	ND (0.0018 J)	ND	ND	ND	ND			
	Arsenic	0.01	ND	ND	ND	ND	ND			
	Barium	2.0	0.0257	0.113	0.0226	0.0139	0.0103			
	Beryllium	0.004	ND	ND	ND	ND	ND			
	Cadmium	0.005	ND	ND	ND	ND	ND			
	Chromium	0.1	ND	ND	ND (0.0006 J)	ND (0.0006 J)	ND (0.0008 J)			
	Cobalt	N/R	ND	ND (0.0018 J)	ND	ND	ND			
	Lead	0.015	ND	ND	ND	ND	ND (0.0005 J)			
	Lithium	N/R	ND	ND	ND	ND	ND			
	Mercury	0.002	ND	ND	ND	ND	ND			
	Molybdenum	N/R	ND	ND	ND (0.0005 J)	ND	ND			
	Radium	5.0	0.0311 U	0.301 U	0.506 U	0.0701 U	0.412 U			
	Selenium	0.05	ND	ND	ND	ND	ND			
	Thallium	0.002	ND	ND	ND (0.00006 J)	ND	ND			

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6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR Rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
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Substance		MCL/ (SMCL)	Well ID							
			PZ-32	PZ-32	PZ-32	PZ-32	PZ-32	PZ-32	PZ-32	PZ-32
			10/18/2016	12/7/2016	3/23/2017	7/11/2017	10/17/2017			
APPENDIX III	Boron	N/R	ND (0.0156 J)	ND (0.0157 J)	ND (0.0103 J)	ND	ND (0.0142 J)			
	Calcium	N/R	57.2	52.8	59.1	59.7	64.9			
	Chloride	(250)	3.5	3.2	2.9	3.1	3.0			
	Fluoride	4.0	ND (0.11 J)	ND (0.07 J)	ND	ND (0.02 J)	ND			
	Sulfate	(250)	2.3	1.9	1.7	1.8	1.9			
	TDS	(500)	152	214	165	162	140			
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND			
	Arsenic	0.01	ND	ND (0.002 J)	ND	ND	ND			
	Barium	2.0	0.0248	0.0506	0.0175	0.0161	0.0158			
	Beryllium	0.004	ND	ND	ND	ND	ND			
	Cadmium	0.005	ND	ND	ND	ND	ND			
	Chromium	0.1	ND	ND	ND (0.0005 J)	ND	ND (0.0005 J)			
	Cobalt	N/R	ND	ND (0.0015 J)	ND	ND	ND			
	Lead	0.015	ND (0.0001 J)	ND	ND (0.0002 J)	ND	ND (0.00007 J)			
	Lithium	N/R	ND	ND	ND	ND	ND			
	Mercury	0.002	ND	ND	ND	ND	ND			
	Molybdenum	N/R	ND	ND	ND	ND	ND			
	Radium	5.0	0.0333 U	0.507 U	0.378 U	1.04	0.779 U			
	Selenium	0.05	ND	ND	ND	ND	ND			
	Thallium	0.002	ND	ND (0.0002 J)	ND (0.00008 J)	ND (0.00007 J)	ND (0.00008 J)			

Notes:

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3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
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7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
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Substance		MCL/ (SMCL)	Well ID							
			PZ-33	PZ-33	PZ-33	PZ-33	PZ-33	PZ-33	PZ-33	PZ-33
			12/8/2016	3/23/2017	7/12/2017	10/19/2017				
APPENDIX III	Boron	N/R	0.375	0.396	0.343	0.413				
	Calcium	N/R	117	122	124	118				
	Chloride	(250)	6.9	6.2	6.0	6.4				
	Fluoride	4.0	ND (0.21 J)	ND (0.18 J)	ND (0.06 J)	ND				
	Sulfate	(250)	100	100	97	97				
	TDS	(500)	503	430	438	393				
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND				
	Arsenic	0.01	ND	ND (0.0007 J)	ND	ND				
	Barium	2.0	ND (0.162)	0.0753	0.0756	0.0681				
	Beryllium	0.004	ND	ND	ND	ND				
	Cadmium	0.005	ND	ND (0.0001 J)	ND	ND				
	Chromium	0.1	ND	ND (0.0017 J)	ND	ND				
	Cobalt	N/R	ND (0.0041 J)	ND (0.0008 J)	ND (0.0007 J)	ND (0.0005 J)				
	Lead	0.015	ND	ND (0.00009 J)	ND	ND				
	Lithium	N/R	ND	ND	ND	ND				
	Mercury	0.002	ND	ND	ND	ND				
	Molybdenum	N/R	ND	ND	ND	ND				
	Radium	5.0	0.968 U	0.444 U	0.814 U	0.748 U				
	Selenium	0.05	ND	ND	ND	ND				
	Thallium	0.002	ND	ND (0.0001 J)	ND (0.0001 J)	ND (0.0001 J)				

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR Rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Plant Mitchell Ash Ponds
Analytical Data Summary

Georgia Power is in the process of closing all of its ash ponds. As part of this process, the company is monitoring groundwater around its ash ponds as required by the Environmental Protection Agency's (EPA) Coal Combustion Residuals (CCR) Rule and the Georgia Environmental Protection Division's (EPD) CCR Rule (State CCR rule). The CCR Rule and the State CCR rule require at least eight independent groundwater sampling events to be conducted at monitoring wells around its coal ash ponds to determine background groundwater conditions. These data tables summarize the results from background sample events. Collective data from background sampling events will be required to establish background groundwater conditions at each facility.

Substance		MCL/ (SMCL)	Well ID							
			PZ-6S	PZ-6S	PZ-6S	PZ-6S	PZ-6S	PZ-6S	PZ-6S	PZ-6S
			12/7/2016	3/22/2017						
APPENDIX III	Boron	N/R	0.263	0.294						
	Calcium	N/R	13.5	13.0						
	Chloride	(250)	6.5	5.7						
	Fluoride	4.0	ND (0.08 J)	ND (0.03 J)						
	Sulfate	(250)	33	35						
	TDS	(500)	192	76						
APPENDIX IV	Antimony	0.006	ND (0.0029 J)	0.0448						
	Arsenic	0.01	ND	ND						
	Barium	2.0	ND (0.0234)	0.0224						
	Beryllium	0.004	ND (0.0002 J)	ND (0.0001 J)	See Note 10					
	Cadmium	0.005	ND (0.0006 J)	ND (0.0006 J)						
	Chromium	0.1	ND	ND (0.0007 J)						
	Cobalt	N/R	ND	ND						
	Lead	0.015	ND (0.0002 J)	ND (0.0002 J)						
	Lithium	N/R	ND	ND						
	Mercury	0.002	ND (0.00018 J)	ND (0.00006 J)						
	Molybdenum	N/R	ND	ND						
	Radium	5.0	1.68	1.33						
	Selenium	0.05	ND (0.0017 J)	ND (0.0017 J)						
	Thallium	0.002	ND	ND (0.00005 J)						

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR Rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.
10. Well no longer sampled as part of background monitoring due to well replacement, proximity to closure activities, or modification to the proposed well network.