SUMMARY OF METALS ANALYSES

CITY OF DANVILLE WATER TREATMENT PLANT

					Preceding coal ash release 02/02/2014				EPA200.7	EPA200.8	EPA200.8	EPA200.8	EPA200.8	EPA200.8	EPA200.8	EPA200.8	EPA200.8	EPA200.8	EPA200.8	EPA200.8	EPA200.8	EPA200.8
									PACE	PACE	Meritech	Meritech	PACE	PACE	**VDH**	PACE	PACE	PACE	PACE	PACE	PACE	PACE
				YEAR	**2011**	**2012**	**2013**	**2013**	**2014**	**2014**	**2014**	**2014**	**2014**	**2014**	**2014**	**2014**	**2014**	**2014**	**2014**	**2014**	**2014**	**2014**
					POE	POE	POE	RAW	RAW	4 MG	4 MG	8 MG-POE	POE	POE	POE	POE	POE	POE	POE	POE	POE	POE
			PMCL	**SMCL**	5/10	8/13	12/31	12/31	2/4	2/4	2/5	2/5	2/6	2/7	2/7	2/10	2/17	2/24	3/3	3/10	3/17	3/24
	Contaminant		(ppm)	(ppm)	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Al	Aluminum	1002		0.05-0.20	<0.05	<0.05	<0.05	2.93	-	0.0252	0.016	0.023	-	0.0414	<0.05	0.0236	0.0203	0.0346	0.0162	0.0122	0.0198	0.0302
Sb	Antimony	1074	0.006		<.002	<.002	<.002	<0.002	ND	ND	-	-	-	-	<0.002	-	-	ND	ND	ND	ND	ND
As	Arsenic	1005	0.010		<.002	<.002	<.002	<0.002	-	ND	<0.002	<0.002	ND	ND	<0.002	ND	ND	ND	ND	ND	ND	ND
Ba	Barium	1010	2.000		0.018	0.021	0.021	0.036	-	0.033	-	-	-	-	0.029	-	-	0.0224	0.0192	0.018	-	0.0198
Be	Beryllium	1075	0.004		<.002	<.002	<.002	<0.002	-	ND	-	-	-	-	<0.002	-	-	ND	ND	ND	ND	ND
Cd	Cadmium	1015	0.005		<.002	<.002	<.002	<0.002	ND	ND	<0.00015	<0.00015	ND	ND	<0.002	ND	ND	ND	ND	ND	ND	ND
Cr	Chromium	1020	0.100		<.01	<.01	<.01	<0.01	ND	ND	<0.002	<0.002	ND	ND	<0.01	ND	ND	ND	ND	ND	ND	ND
Cu	Copper	1022		1.3	<.01	<.01	<.01	0.01	0.0096	0.031	0.003	0.003	0.015	0.0034	<0.010	0.0036	0.0033	0.0031	0.0036	0.0023	0.0058	0.0022
Fe	Iron	1028		0.3	<.05	<.05	<.05	4.69	1.4	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
Pb	Lead	1030	0.015		<0.002	<0.002	<0.002	0.004	ND	ND	<0.0005	<0.0005	0.0044	ND	<0.002	ND	ND	ND	ND	ND	ND	ND
Mn	Manganese	1032		0.05	<0.01	<0.01	<0.01	0.09	2.9	0.0042	-	-	-	-	<0.01	-	-	0.0023	0.0017	0.0016	0.0013	0.002
Hg	Mercury	1035	0.002		<.0002	<.0002	<.0002	<0.0002	-	ND	-	-	-	-	<0.0002	-	-	ND	ND	ND	ND	ND
Ni	Nickel	1036	0.100		<.01	<.01	<.01	<0.01	ND	ND	-	-	-	-	<0.01	-	-	ND	ND	ND	ND	ND
Se	Selenium	1045	0.050		<.01	<.01	<.01	<0.01	ND	ND	<0.002	<0.002	ND	ND	<0.01	0.0018	ND	ND	ND	ND	ND	ND
Na	Sodium	1052			4.55	5.14	4.79	3.24	5.9	ND	-	-	-	-	5.89	-	-	3.94	4.13	6.62	4.74	4.65
Tl	Thallium	1085	0.002		<.002	<.002	<.002	<0.002	-	-	-	-	-	-	<0.002	-	-	ND	ND	ND	ND	ND
Zn	Zinc	1095		5	<.01	<.01	<.01	0.027	0.029	0.0067	<0.005	<0.005	0.0299	0.0084	<0.010	0.0087	ND	0.0072	ND	ND	ND	0.0052
Ag	Silver			0.10 SMCL	<0.01	<0.002		<0.01	ND	-	-	-	-	-	<0.01	-	-	ND	ND	ND	ND	ND
	Calcium								8.0	-	-	-	-	-		-	-					
	Boron								0.13	-												
															EPA 200.7			EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
										EPA 245.1								EPA 245.1	EPA 245.1	EPA 245.1	EPA 245.1	EPA 245.1

PMCL - Primary Maximum Contaminate Level
SCML - Secondary (aesthetics) Maximum Contaminate Level

ND = Not Detected
-- = Not Analyzed

					EPA200.8	EPA200.8	EPA200.8	EPA200.8	EPA200.8	EPA200.8	EPA200.8	EPA200.8							
					PACE	PACE	PACE	PACE	PACE	VDH	PACE	PACE							
				YEAR	**2014**	**2014**	**2014**	**2014**	**2014**	**2014**	**2014**	**2014**							
					POE	POE	POE	POE	POE	POE	POE	POE							
			PMCL	**SMCL**	4/1	4/10	4/14	4/22	4/28	5/5	6/2	7/7	August	September					
	Contaminant		(ppm)	(ppm)	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm							
Al	Aluminum	1002		0.05-0.20	0.0289	0.0243	0.0238	0.0276	0.0230	ND	0.0250	0.0210							
Sb	Antimony	1074	0.006		ND	ND	ND	ND	ND	ND	ND	ND							
As	Arsenic	1005	0.010		ND	ND	ND	ND	ND	ND	ND	ND							
Ba	Barium	1010	2.000		0.0177	0.0262	0.0202	0.0209	0.0180	0.0220	0.021	0.0170							
Be	Beryllium	1075	0.004		ND	ND	ND	ND	ND	ND	ND	ND							
Cd	Cadmium	1015	0.005		ND	ND	ND	ND	ND	ND	ND	ND							
Cr	Chromium	1020	0.100		ND	ND	ND	ND	ND	ND	ND	ND							
Cu	Copper	1022		1.3	0.0034	0.0079	0.007	0.0030	0.0110	ND	0.0057	0.0041							
Fe	Iron	1028		0.3	-	-	-	-	-	ND	-	-							
Pb	Lead	1030	0.015		ND	ND	ND	ND	ND	ND	ND	ND							
Mn	Manganese	1032		0.05	0.0024	0.0014	0.0013	0.0013	0.0018	ND	0.0017	0.0011							
Hg	Mercury	1035	0.002		ND	ND	ND	ND	ND	ND	ND	ND							
Ni	Nickel	1036	0.100		ND	ND	ND	ND	ND	ND	ND	ND							
Se	Selenium	1045	0.050		ND	ND	ND	ND	ND	ND	ND	ND							
Na	Sodium	1052			5.27	8.17	4.95	5.02	3.8000	4.55	5.2	5.0							
Tl	Thallium	1085	0.002		ND	ND	ND	ND	ND	ND	ND	ND							
Zn	Zinc	1095		5	ND	0.0053	0.005	0.0052	0.0150	ND	ND	ND							
Ag	Silver			0.10 SMCL	ND	ND	ND	ND	ND	ND	ND	ND							
	Calcium																		
	Boron																		
					EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7										
					EPA 245.1	EPA 245.1	EPA 245.1	EPA 245.1	EPA 245.1										

Collecting monthly samples starting in May

PMCL - Primary Maximum Contaminate Level
SCML - Secondary (aesthetics) Maximum Contaminate Level