



EA Engineering, P.C.
EA Science and Technology

Log of Sediment Sample Collection

Coordinates: Northing: 1027494.498 Easting: 1084774.539
Surface Water Elevation: N/A
Reference Elevation: 586.97
Reference Description: Ground Surface

Job. No. 1490710	Client: NYSDEC Project: Lackawanna Incinerator	Location Lackawanna, NY
Sampling Location Description: cement outfall pipe downstream of the larger culvert at eastern edge of site	Sample Location ID: 915206-SW-03	Sheet 1 of 1
Sample Method: Ziplock Bag, Grab	Sampling Date/Time	
Depth of Water Body: Trickle of water	Start	Finish
Width of Water Body: N/A	7-Nov-12	7-Nov-12
Water Body Location Smokes Creek Lackawanna, NY	TIME 14:49	TIME

	Water Quality Parameters							Surface Conditions: Small stream of water from pipe
	Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Weather: Cloudy, ~35 degrees F
	Description of Water							
Water quality parameters collected from Smokes Creek where outfall met the creek	1459	7.75	0.849	11.8	10.76	4.13	141	Water coming from large cement pipe outfall Outfall channel made up of cobbles and large rocks until it meets up with Smokes Creek Slight yellow tint to water noted when collected
								Collected samples in ziplock bag - due to amount of water present, had to collect from trickle by ziplock, then transfer to sample jar. No sheen present on water. Sample collected immediately off of cement pipe

Total Quantity of Water Removed (gal): N/A
Samplers: RP/HW
Sampling Date: 11/7/2012

Sampling Time: 1450
Split Sample With: N/A
Sample Type: Grab



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Log of Sediment Sample Collection

Coordinates: Northing: 1027493.55 Easting: 1084521.244
Surface Water Elevation: N/A
Reference Elevation: 586.19
Reference Description: Ground Surface

Job. No. 1490710	Client: NYSDEC Project: Lackawanna Incinerator	Location Lackawanna, NY
Sampling Location Description: Outfall pipe ate western edge of site, close to MW-08		Sample Location ID: 915206-SW-04
Sample Method: Ziplock Bag, Grab		Sheet 1 of 1
Depth of Water Body: Trickle of water		Sampling Date/Time
Width of Water Body: N/A		Start 7-Nov-12
Water Body Location Smokes Creek		Finish 7-Nov-12
Lackawanna, NY		TIME

	Water Quality Parameters							Surface Conditions: Tiny stream of water from pipe
	Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Weather: Overcast, ~35 degrees F
	Description of Sediment							
Water quality parameters collected from Smokes Creek where outfall met the creek	1425	7.76	0.651	23.1	10.42	5.09	124	Small stream of water coming from outfall Outfall channel made up of brick and other large cobbles until it meets Smokes Creek Rust colored algae / biotic material present in entire length of outfall channel
	1440	7.8	0.667	6.1	10.18	4	138	Collected SW sample approximately 5 feet below initial outfall, and 20 feet above entrance to creek Sheen present on water flow - likely natural Slight yellow tint to water collected in ziplock bag
								Due to water availability, had to collect sample in ziplock bag and then transfer to sample jars.

Total Quantity of Water Removed (gal): N/A
Samplers: RP/HW
Sampling Date: 11/7/2012

Sampling Time: 1415
Split Sample With: Duplicate
Sample Type: Grab



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Coordinates: Northing: N/A Easting: N/A
Surface Water Elevation: N/A
Reference Elevation: N/A
Reference Description: N/A

Job. No. 1490710	Client: Project: NYSDEC Lackawanna Incinerator	Location Lackawanna, NY	
Sampling Location Description: Upstream from site		Sample Location ID: 915206-SW-05	
Sample Method: Grab		Sheet 1 of 1	
Depth of Water Body: N/A		Sampling Date/Time	
Width of Water Body: N/A		Start	Finish
Water Body Location Smokes Creek		18-Apr-12	18-Apr-12
Lackawanna, NY		TIME N/A	TIME N/A

	Water Quality Parameters							Surface Conditions:
	Time	pH	Cond.	Turb.	DO	Temp	ORP	Weather:
	(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)	Description of Surface Water
Water quality parameters collected from Smokes Creek	1008	8.36	0.608	0	15.45	14.21	-13	N/A
	1010	8.34	0.609	0	11.34	13.44	0	

Total Quantity of Water Removed (gal): N/A
Samplers: CY / RP
Sampling Date: 4/18/2012

Sampling Time: 1450
Split Sample With: N/A
Sample Type: Grab



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Coordinates: Northing: N/A Easting: N/A
Surface Water Elevation: N/A
Reference Elevation: N/A
Reference Description: N/A

Job. No. 1490710	Client: Project: NYSDEC Lackawanna Incinerator	Location Lackawanna, NY	
Sampling Location Description: Upstream edge of site, near SD-06 transect		Sample Location ID: 915206-SW-06	
Sample Method: Grab		Sheet 1 of 1	
Depth of Water Body: N/A		Sampling Date/Time	
Width of Water Body: N/A		Start	Finish
Water Body Location Smokes Creek		18-Apr-12	18-Apr-12
Lackawanna, NY		TIME N/A	TIME N/A

	Water Quality Parameters							Surface Conditions:
	Time	pH	Cond.	Turb.	DO	Temp	ORP	Weather:
	(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)	Description of Sediment
Water quality parameters collected from Smokes Creek	954	8.28	0.607	0	10.12	13.95	33	N/A
	955	8.25	0.607	0	9.66	13.29	44	

Total Quantity of Water Removed (gal): N/A
Samplers: CY / RP
Sampling Date: 4/18/2012

Sampling Time: 957
Split Sample With: Duplicate 02
Sample Type: Grab



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Coordinates: Northing: N/A Easting: N/A
Surface Water Elevation: N/A
Reference Elevation: N/A
Reference Description: N/A

Job. No. 1490710	Client: Project: NYSDEC Lackawanna Incinerator	Location Lackawanna, NY	
Sampling Location Description: Downstream edge of site, near SD-07 transect		Sample Location ID: 915206-SW-07	
Sample Method: Grab		Sheet 1 of 1	
Depth of Water Body: N/A		Sampling Date/Time	
Width of Water Body: N/A		Start	Finish
Water Body Location Smokes Creek		18-Apr-12	18-Apr-12
Lackawanna, NY		TIME N/A	TIME N/A

	Water Quality Parameters							Surface Conditions:
	Time	pH	Cond.	Turb.	DO	Temp	ORP	Weather:
	(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)	Description of Sediment
Water quality parameters collected from Smokes Creek	910	8.12	0.624	0	10.1	12.73	95	N/A
	912	8.12	0.623	0	9.54	12.39	97	

Total Quantity of Water Removed (gal): N/A
Samplers: CY / RP
Sampling Date: 4/18/2012

Sampling Time: 910
Split Sample With: N/A
Sample Type: Grab



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Coordinates: Northing: N/A Easting: N/A
Surface Water Elevation: N/A
Reference Elevation: N/A
Reference Description: N/A

Job. No. 1490710	Client: Project: NYSDEC Lackawanna Incinerator	Location Lackawanna, NY	
Sampling Location Description: Downstream from site midstream between SW-06 and SW-07; co-located with SD-08		Sample Location ID: 915206-SW-08	
Sample Method: Grab		Sheet 1 of 1	
Depth of Water Body: N/A		Sampling Date/Time	
Width of Water Body: N/A		Start	Finish
Water Body Location Smokes Creek		18-Apr-12	18-Apr-12
Lackawanna, NY		TIME N/A	TIME N/A

	Water Quality Parameters							Surface Conditions:
	Time	pH	Cond.	Turb.	DO	Temp	ORP	Weather:
	(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)	Description of Sediment
Water quality parameters collected from Smokes Creek	938	8.13	0.604	0	13.12	13.81	122	N/A
	940	8.12	0.614	0	11.08	13.05	122	

Total Quantity of Water Removed (gal): N/A
Samplers: CY / RP
Sampling Date: 4/18/2012

Sampling Time: 943
Split Sample With: MS/MSD
Sample Type: Grab



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Coordinates: Northing: N/A Easting: N/A
Surface Water Elevation: N/A
Reference Elevation: N/A
Reference Description: N/A

Job. No. 1490710	Client: Project: NYSDEC Lackawanna Incinerator	Location Lackawanna, NY	
Sampling Location Description: Downstream from site, co-located with SD-09		Sample Location ID: 915206-SW-09	
Sample Method: Grab		Sheet 1 of 1	
Depth of Water Body: N/A		Sampling Date/Time	
Width of Water Body: N/A		Start	Finish
Water Body Location Smokes Creek		18-Apr-12	18-Apr-12
Lackawanna, NY		TIME N/A	TIME N/A

	Water Quality Parameters							Surface Conditions:
	Time	pH	Cond.	Turb.	DO	Temp	ORP	Weather:
	(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)	Description of Sediment
Water quality parameters collected from Smokes Creek	900	8.16	0.636	0.5	37.52	12.64	67	N/A
	905	8.22	0.625	0	11.77	12.32	78	

Total Quantity of Water Removed (gal): N/A
Samplers: CY / RP
Sampling Date: 4/18/2012

Sampling Time: 900
Split Sample With: N/A
Sample Type: Grab