ALTAMONT ENVIRONMENTAL, INC.

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Received
AUG 2008
Waste Management

August 7, 2008

Mr. Ervin Lane
North Carolina Department of Environment and Natural Resources
Division of Waste Management
Solid Waste Section
401 Oberlin Road, Suite 150
Raleigh, NC 27605

Subject: International Paper Company– Canton Landfill No. 5
Canton, North Carolina
Permit No. 44-01
Annual Groundwater and Surface Water Sampling Results – July 2008

Dear Mr. Poindexter:

On July 22 and 23, 2008, Altamont Environmental, Inc. (Altamont) conducted the annual groundwater and surface water sampling event at the International Paper Company (IP) – Canton Landfill No. 5 (Landfill). Low-flow sampling techniques were used to collect groundwater samples from all monitoring wells at the site. Laboratory supplied sample bottles were used to collect surface water samples upstream and downstream of the site on Beaverdam Creek. A Site Location Map is included as Figure 1.

Altamont personnel collected seven groundwater samples (including one duplicate sample) from monitoring wells: MW-5B1, MW-5B2, MW-5B3, MW-5C1, MW-5C2, and MW-5C3. Two surface water samples (BD-UP and BD-DOWN) were collected from Beaverdam Creek by Altamont. Sampling locations are shown on Figure 2.

In accordance with the letter dated July 18, 2003 from the North Carolina Department of Environment and Natural Resources (DENR), Solid Waste Section to IP, Altamont is reporting analytical results for the following list of analytes for this annual sampling event:

1. Cadmium;
2. Chloride;
3. Iron;
4. Sulfate; and
5. Total Dissolved Solids (TDS)

In addition, field parameters including: depth to water, temperature, pH, specific conductivity, oxygen reduction potential, dissolved oxygen, and turbidity were measured and recorded for each sample collected. These measurements are shown in Table 1. Table 2 presents current and historical groundwater data for pH and the five analytes analyzed by the laboratory. Table 3 presents the current and historical surface water data.

One blind duplication (DUP-1) groundwater sample from MW-5B3 was collected and analyzed by the laboratory. The variation between the two groundwater samples collected from MW-5B3 is minimal and is documented in Table 2.

The following information summarizes the results of the water quality monitoring:

Groundwater:

- Groundwater samples collected from all six monitoring wells exhibit a pH less than 6.5 which is the lower limit of the *Title 15A, North Carolina Administrative Code (NCAC), Subchapter 2L Groundwater Quality Standard* (2L Standard). Please note that pH was measured in the field and that groundwater with a pH less than 6.5 is common.
- Cadmium was not detected in the groundwater samples collected from the referenced monitoring wells. For each groundwater sample analyzed, the method reporting limit for cadmium was lower than the 2L Standard.
- All detected chloride concentrations were less than the respective 2L Standard for groundwater samples collected from all monitoring wells.
- Iron concentrations of 11.1, 26.8, and 61.8 milligrams per liter (mg/L), were detected in groundwater samples collected from monitoring wells MW-5B1, MW-5B2, and MW-5B3, respectively, all of which exceeded the 2L Standard. Iron was also detected, but did not exceed 2L Standard of 0.3 mg/L, in MW-5C2 and MW-5C3 at concentrations of 0.124 and 0.13 mg/L, respectively.
- All detected sulfate concentrations in groundwater samples were below the 2L Standard.
- All detected total dissolved solids (TDS) concentrations in groundwater samples were below the 2L Standard.

Surface Water:

- Field measured pH values for BD-UP and BD-DOWN were within the acceptable range specified in the 2B Standard.
- Cadmium and sulfate concentrations were below the respective 2B Standard.
- Chloride was detected in BD-DOWN at a concentration below the respective 2B Standard.
- Iron and TDS were detected in BD-UP and BD-DOWN at concentrations below the respective 2B Standards.

A comparison of current analytical results to results recorded annually since 1991, signify that no noteworthy changes in water quality were observed during this sampling event. The next sampling event is scheduled for July 2009.

Altamont is pleased to provide the results for this water quality sampling event for 2008. Please call if you have any questions or need additional information. Thank you for your assistance with this project.

Sincerely,

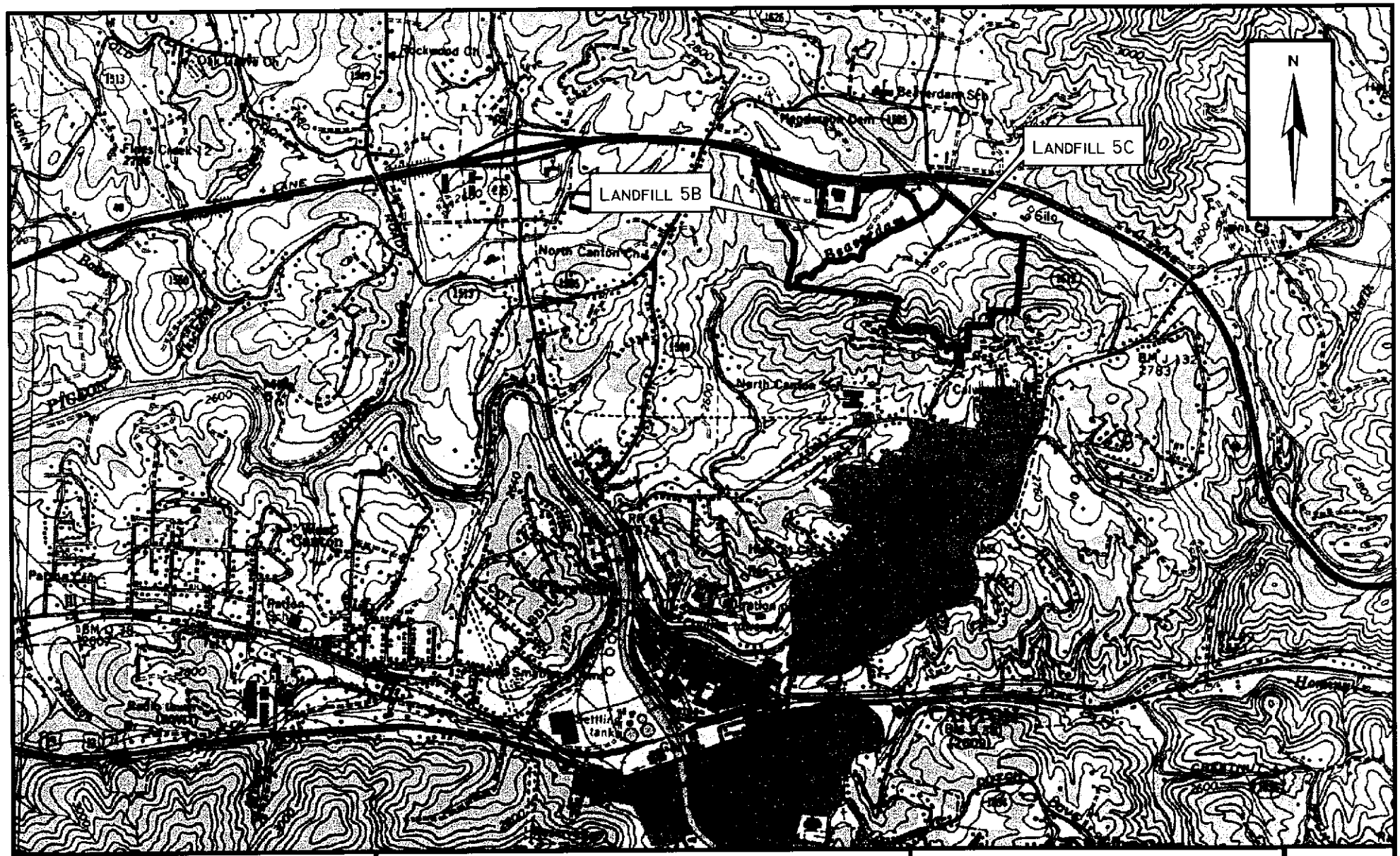
Altamont Environmental, Inc.

Joel D. Lenk, P.G.

cc: Mr. Tom Richardson, International Paper Company

enclosures:
Figure 1 – Site Location Map
Figure 2 – Water Quality Sampling Locations
Table 1 – Water Quality Field Parameters; International Paper Landfill Five
Table 2 – Groundwater Quality Results; International Paper Landfill Five
Table 3 – Surface Water Quality Results; International Paper Landfill Five
Analytical Laboratory Results

FIGURES



SOURCE:
TOPOGRAPHIC MAP
USGS CANTON QUADRANGLE
CREATED: 1967 REVISED: 1990

LEGEND

LF 5 PARCEL BOUNDARY

ALTAMONT ENVIRONMENTAL, INC.

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DRAWN BY: ANNA SAYLOR
PROJECT MANAGER: JOEL LENK
CLIENT: INTERNATIONAL PAPER CO.
DATE: 08/06/2008

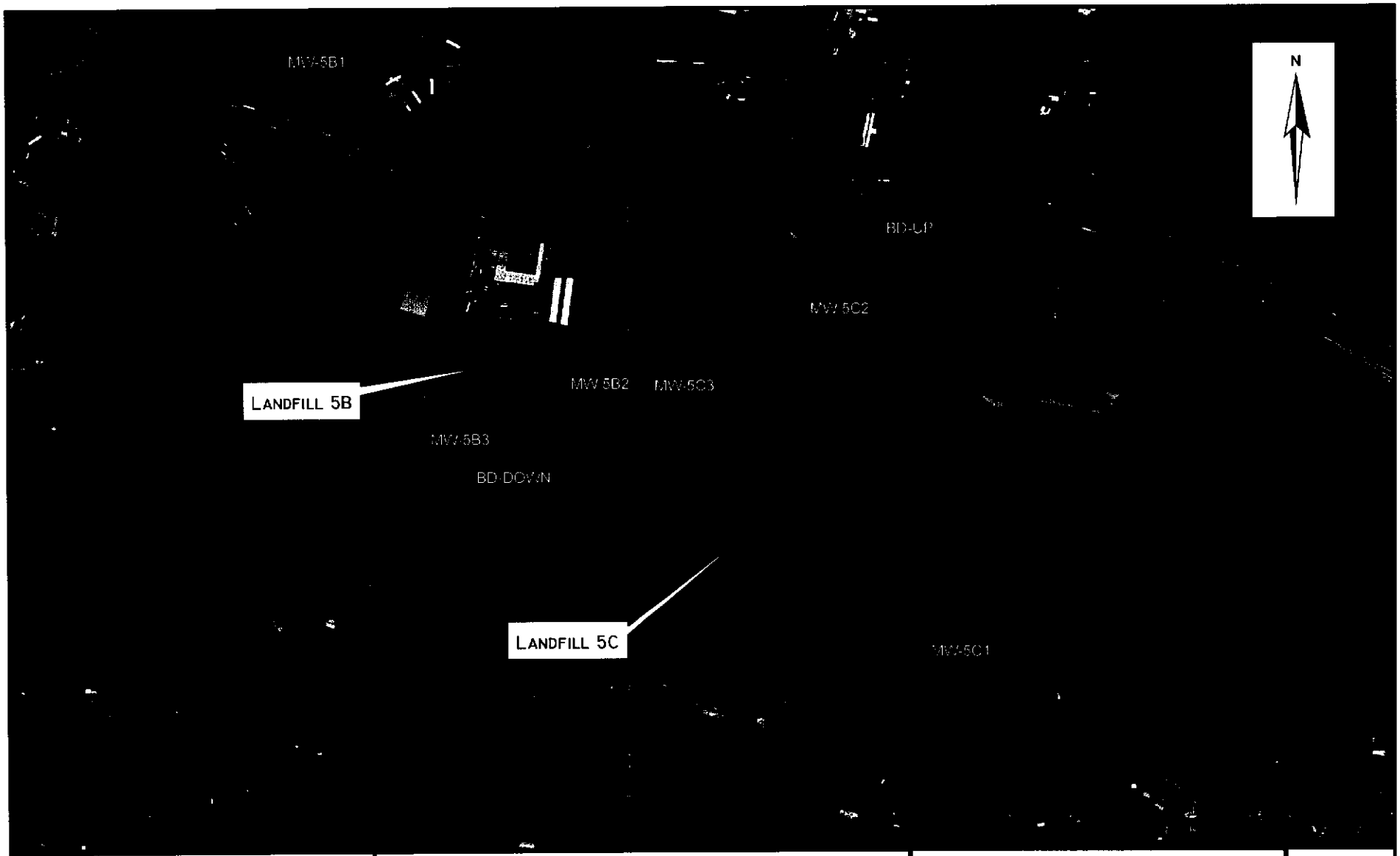
SCALE
0 500 1,000 2,000
FEET

SITE LOCATION MAP

CLOSED INTERNATIONAL PAPER LANDFILL 5
CANTON, NORTH CAROLINA

FIGURE
1

P:\IP\LF 5\LOW FLOW SAMPLING\GIS 2007\LF5 SITE LOCATION MAP.MXD



SOURCE:
HAYWOOD COUNTY COLOR ORTHOPHOTOGRAPHY
APRIL 6, 2004

LEGEND
- SURFACE WATER LOCATIONS
- LF 5 MONITORING WELLS
- LF 5 LEACHATE BOX AND LINE
- LF 5 PARCEL BOUNDARY
- Haywood_County_Hydrology

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SCALE
0 150 300 600
FEET

GROUNDWATER AND SURFACE WATER SAMPLE LOCATIONS

CLOSED INTERNATIONAL PAPER LANDFILL 5
HAYWOOD COUNTY, NORTH CAROLINA

FIGURE
2

P:\IP\LF 5\LOW FLOW SAMPLING\GIS 2007\LF5 GW SAMPLE LOCATIONS.MXD

TABLES

Table 1
Water Quality Field Parameters
International Paper Landfill 5
Canton, North Carolina

July 22 and 23, 2008

Well ID	Sample Date	Total Well Depth	Depth to Water (feet)	Temperature (°C)	pH	Specific Conductivity (µS)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
MW-5B1	7/22/2008	40.71	11.00	14.01	6.20	33	66.7	2.18	170.0
MW-5B2	7/23/2008	20.40	4.22	13.72	6.04	565	11.7	1.59	19.6
MW-5B3	7/23/2008	65.56	6.80	15.15	6.35	192	-23.0	1.17	398.0
DUP-1	7/23/2008	65.56	6.80	15.15	6.35	192	-23.0	1.17	398.0
MW-5C1	7/22/2008	29.55	16.62	12.71	5.69	98	189.8	5.19	0.01
MW-5C2	7/22/2008	25.92	4.64	17.70	6.31	197	147.2	2.66	0.00
MW-5C3	7/23/2008	23.80	1.90	15.78	5.64	354	201.6	1.21	0.00
BD-UP	7/22/2008	N/A	N/A	22.06	7.22	75	59.5	4.84	3.83
BD-DOWN	7/22/2008	N/A	N/A	22.79	6.99	80	75.6	5.55	6.21

Notes:

1. µS means microsiemens.
2. Depth to water measured from top of casing during initial reading.
3. pH is measured in Standard Units.
4. DUP-1 was a duplicate sample of MW-5B3.

Table 2
Groundwater Quality Results
International Paper Landfill 5
Canton, North Carolina

July 22 and 23, 2008

Sample Location	Date	pH	Cadmium	Chloride	Iron	Sulfate	Total Dissolved Solids
2L Standards		*6.5 - 8.5*	*0.00175*	*250*	*0.3*	*250*	*500*
MW-5B1	05/01/91	6.73	ND	0.62	**19**	ND	20
	05/01/92	**6.40**	ND	1.5	**15**	3.2	26
	05/01/93	NA	NA	NA	NA	NA	NA
	11/01/93	**6.11**	ND	2.3	**3.1**	3.2	25
	05/01/94	**6.42**	ND	ND	**2.5**	ND	29
	11/01/94	7.20	0.001	1.1	**10.6**	1.4	35
	05/01/95	6.60	ND	1.2	**5.85**	0.24	32
	11/01/95	**5.80**	0.001	1.2	**7.808**	1.3	45
	05/01/96	**6.30**	ND	0.9	**12.77**	ND	27
	11/01/96	6.80	0.001	2.4	**10.43**	ND	34
	05/01/97	6.60	ND	ND	**4.4**	ND	43
	11/01/97	7.20	ND	1.5	**44**	ND	49
	05/01/98	6.60	ND	ND	**2.5**	ND	85
	11/01/98	7.20	ND	2.1	**2.6**	ND	44
	05/01/99	6.70	ND	ND	**2.8**	ND	98
	11/01/99	**6.40**	ND	1	**14**	10.8	38
	05/01/00	**5.80**	**0.0026**	ND	**10**	2.3	41
	11/01/00	6.50	ND	ND	**2.8**	ND	52
	05/01/01	**6.40**	ND	1.4	**1.2**	ND	ND
	11/05/01	**5.79**	ND	ND	**5.2**	1.7	35
	05/28/02	6.55	ND	ND	**1.5**	ND	32
	12/02/02	**5.12**	ND	1.3	**1.6**	ND	38
	12/03/03	**6.39**	ND	1.2	**1.6**	ND	90
	07/20/04	**6.27**	ND	ND	**10**	ND	56
	07/13/05	**5.57**	ND	ND	**20**	ND	48
	07/10/06	**6.02**	ND	ND	**17**	ND	28
	07/27/07	**3.87**	ND	ND	**16**	ND	42
	07/22/08	**6.2**	ND	ND	**11.1**	ND	40

Table 2
Groundwater Quality Results
International Paper Landfill 5
Canton, North Carolina

July 22 and 23, 2008

Sample Location	Date	pH	Cadmium	Chloride	Iron	Sulfate	Total Dissolved Solids
2L Standards		*6.5 - 8.5*	*0.00175*	*250*	*0.3*	*250*	*500*
MW-5B2	05/01/91	6.57	ND	40.3	**35.9**	12.5	192
	05/01/92	6.60	ND	31	**70**	18	210
	05/01/93	NA	NA	NA	NA	NA	NA
	11/01/93	**5.96**	ND	33	**28**	ND	190
	05/01/94	**6.30**	ND	42.8	**25.001**	7.3	215
	11/01/94	**6.30**	**0.004**	66.3	**22.2**	8.8	257
	05/01/95	6.70	**0.005**	15.3	**50.277**	38.3	187
	11/01/95	**6.10**	**0.004**	49.5	**27.63**	38.8	263
	05/01/96	**6.20**	ND	65.3	**49**	21.6	298
	11/01/96	6.60	**0.002**	95.4	**19.415**	7	327
	05/01/97	6.60	ND	85	**36**	2.7	280
	11/01/97	**6.30**	ND	110	**12**	7.1	290
	05/01/98	**6.30**	ND	99	0.12	5.1	350
	11/01/98	**6.40**	ND	96	**47**	3.3	330
	05/01/99	6.60	ND	81	**170**	9.13	360
	11/01/99	**6.00**	**0.0022**	110	**32**	132	410
	05/01/00	**6.10**	**0.0041**	97	**39**	13.3	350
	11/01/00	**6.10**	**0.0039**	120	**29**	11	360
	05/01/01	**6.30**	**0.007**	100	**49**	6.8	500
	11/05/01	**6.25**	**0.003**	120	**23**	6.9	160
	05/28/02	**6.36**	**0.034**	87	**89**	**540**	390
	12/02/02	**5.33**	**0.0025**	91	**35**	13	400
	12/03/03	6.57	ND	67	**22**	10	320
	07/19/04	**6.21**	ND	50	**25**	9.9	256
	07/13/05	**4.42**	ND	5.5	**28**	14	170
	07/11/06	6.63	ND	ND	**34**	28	160
	07/27/07	**5.69**	ND	65	**33**	6.9	330
	07/23/08	**6.04**	ND	113	**26.8**	6.6	496

Table 2
Groundwater Quality Results
International Paper Landfill 5
Canton, North Carolina

July 22 and 23, 2008

Sample Location	Date	pH	Cadmium	Chloride	Iron	Sulfate	Total Dissolved Solids
2L Standards		*6.5 - 8.5*	*0.00175*	*250*	*0.3*	*250*	*500*
MW-5B3	05/01/91	6.76	ND	9.73	**26.4**	11.7	102
	05/01/92	6.50	ND	9.8	**46**	ND	90
	05/01/93	NA	NA	NA	NA	NA	NA
	11/01/93	**6.14**	ND	20	**13**	23	140
	05/01/94	**6.40**	ND	21.4	**12.661**	18.1	153
	11/01/94	6.70	**0.004**	27.1	**23.705**	11.2	142
	05/01/95	6.60	**0.004**	26.5	**18.392**	10.9	169
	11/01/95	**5.90**	**0.004**	30.3	**16.407**	7.8	158
	05/01/96	**6.20**	ND	31.5	**15.9**	9.3	157
	11/01/96	6.50	0.001	26.7	**16.03**	9.9	161
	05/01/97	6.50	**0.003**	30	**16**	7.9	180
	11/01/97	**6.30**	ND	31	**26**	8.9	160
	05/01/98	**6.40**	ND	39	**38**	7.4	170
	11/01/98	6.60	ND	36	**17**	9	200
	05/01/99	6.60	ND	38	**17**	7.06	190
	11/01/99	**6.20**	ND	34	**19**	3.1	180
	05/01/00	**6.20**	**0.002**	36	**16**	12.8	190
	11/01/00	**6.30**	**0.0021**	35	**17**	24	190
	05/01/01	**6.20**	**0.0068**	34	**18**	9.4	220
	11/05/01	6.78	**0.0022**	42	**18**	9.4	21
	05/28/02	**6.41**	**0.015**	34	**91**	85	180
	12/02/02	**6.45**	0.0014	31	**13**	15	56
	12/03/03	**6.49**	ND	50	**15**	11	180
	07/20/04	**6.36**	ND	20	**35**	12	124
	07/12/05	**5.86**	ND	19	**33**	17	160
	07/10/06	**6.37**	0.0011	17	**45**	15	120
	07/27/07	**6.29**	ND	17	**36**	12	140
	07/23/08	**6.35**	ND	17.0	**73.6**	13.1	152
DUP-1	07/23/08	**6.35**	ND	16.9	**61.8**	13.9	154

Table 2
Groundwater Quality Results
International Paper Landfill 5
Canton, North Carolina

July 22 and 23, 2008

Sample Location	Date	pH	Cadmium	Chloride	Iron	Sulfate	Total Dissolved Solids
2L Standards		*6.5 - 8.5*	*0.00175*	*250*	*0.3*	*250*	*500*
MW-5C1	05/01/91	**6.26**	ND	7.66	**31.3**	12.7	71
	05/01/92	**6.10**	ND	7.7	0.3	9.4	79
	05/01/93	NA	NA	NA	NA	NA	NA
	11/01/93	**5.52**	ND	8.1	0.14	5.9	63
	05/01/94	**5.60**	ND	7.4	0.078	9.2	76
	11/01/94	6.50	ND	7.7	0.262	10.9	27
	05/01/95	**6.00**	**0.002**	7.5	0.074	8.5	84
	11/01/95	**5.50**	ND	7.9	0.044	8.4	95
	05/01/96	**5.90**	ND	6.8	**765.32**	8.6	51.5
	11/01/96	**6.30**	ND	7.8	ND	9.9	79.5
	05/01/97	**6.00**	ND	7.4	0.27	8.6	85
	11/01/97	**6.00**	ND	7.4	0.11	8.6	94
	05/01/98	**5.60**	ND	5.2	ND	10	75
	11/01/98	**6.00**	NA	NA	NA	NA	NA
	05/01/99	**5.20**	ND	7.7	ND	4	77
	11/01/99	**5.50**	ND	7.2	0.12	7.45	82
	05/01/00	**6.30**	ND	9.1	0.069	10	91
	11/01/00	**6.20**	ND	7.4	0.094	11	77
	05/01/01	**5.40**	ND	7.2	0.064	6.7	140
	11/05/01	**5.46**	ND	8.3	0.18	7.9	96
	05/28/02	**6.07**	ND	9.3	0.083	8.5	76
	12/02/02	**6.20**	ND	6.8	ND	12	100
	12/03/03	**6.02**	ND	8.4	ND	10	60
	07/19/04	**5.80**	ND	6.8	ND	10	76
	07/12/05	**5.00**	ND	7.6	ND	8.5	110
	07/11/06	**5.37**	ND	7.1	ND	6.8	90
	07/27/07	**5.38**	ND	8.8	0.13	5.3	120
DUP-1	07/27/07	**5.38**	ND	8.8	ND	5.2	98
	07/22/08	**5.69**	ND	9.5	ND	6.5	124

Table 2
Groundwater Quality Results
International Paper Landfill 5
Canton, North Carolina

July 22 and 23, 2008

Sample Location	Date	pH	Cadmium	Chloride	Iron	Sulfate	Total Dissolved Solids
2L Standards		*6.5 - 8.5*	*0.00175*	*250*	*0.3*	*250*	*500*
MW-5C2	05/01/91	7.56	ND	7.30	**0.41**	ND	**1607**
	05/01/92	6.90	ND	25	**100**	16	140
	05/01/93	NA	NA	NA	NA	NA	NA
	11/01/93	**6.18**	ND	11	**2.3**	8.6	97
	05/01/94	6.58	ND	12.5	0.157	2.2	99
	11/01/94	7.20	ND	15	**0.598**	17.3	99.5
	05/01/95	6.70	ND	13.7	**11.19**	2.1	96
	11/01/95	**6.10**	ND	14.5	**3.123**	2.1	103
	05/01/96	**6.40**	ND	12.6	**6.029**	2.2	83
	11/01/96	**6.40**	**0.002**	16.2	NA	3.3	104
	05/01/97	6.80	ND	14	**3.2**	ND	90
	11/01/97	7.20	ND	13	**1.6**	1.6	86
	05/01/98	6.50	ND	14	**24**	1.4	100
	11/01/98	**5.70**	NA	NA	NA	NA	NA
	05/01/99	6.60	ND	13	**7.6**	ND	100
	11/01/99	**5.80**	ND	11	**0.32**	ND	96
	05/01/00	**5.80**	ND	16	**0.51**	ND	120
	11/01/00	6.80	0.0016	14	**16**	6.9	110
	05/01/01	**6.40**	ND	13	**1.2**	1.2	140
	11/05/01	**6.21**	ND	15	**2**	2.8	97
	05/28/02	6.75	0.0014	15	**4.1**	ND	88
	12/02/02	**4.98**	ND	15	**1.9**	5.5	110
	12/03/03	6.61	ND	27	**0.58**	ND	92
	07/19/04	**6.24**	ND	24	ND	ND	106
	07/12/05	**5.89**	ND	28	0.26	ND	170
	07/11/06	**6.12**	ND	30	0.14	ND	420
	07/27/07	**6.26**	ND	37	0.076	ND	210
	07/22/08	**6.31**	ND	43.0	0.124	ND	218

Table 2
Groundwater Quality Results
International Paper Landfill 5
Canton, North Carolina

July 22 and 23, 2008

Sample Location	Date	pH	Cadmium	Chloride	Iron	Sulfate	Total Dissolved Solids
2L Standards		*6.5 - 8.5*	*0.00175*	*250*	*0.3*	*250*	*500*
MW- 5C3	05/01/91	**6.18**	ND	23.9	**11.3**	2.3	315
	05/01/92	6.60	ND	40	**89**	5.1	430
	05/01/93	NA	NA	NA	NA	NA	NA
	11/01/93	**5.66**	ND	46	**0.39**	ND	170
	05/01/94	**5.82**	ND	52.2	0.171	1.8	186
	11/01/94	**6.30**	ND	55.7	**0.597**	2	187
	05/01/95	**6.40**	**0.005**	63.9	**31.08**	32.2	374
	11/01/95	**5.50**	**0.003**	70.2	**15.28**	1.9	272.5
	05/01/96	**5.70**	ND	75.6	**1.45**	1.9	242
	11/01/96	**6.00**	**0.003**	95.5	**12.5**	2.6	223
	05/01/97	6.90	ND	83	**2.9**	ND	310
	11/01/97	7.00	ND	20	**2.4**	8.4	350
	05/01/98	**5.80**	ND	86	0.06	1.7	350
	11/01/98	**5.70**	ND	92	**0.32**	2.2	380
	05/01/99	**5.80**	ND	94	**1.7**	7.42	330
	11/01/99	**5.80**	ND	96	**0.79**	3.1	310
	05/01/00	**5.50**	ND	98	**0.86**	ND	280
	11/01/00	**6.00**	ND	93	**6.6**	ND	280
	05/01/01	**5.90**	ND	93	**2.7**	1.1	360
	11/05/01	**5.83**	0.0017	100	**1.5**	2.6	290
	05/28/02	**5.90**	ND	96	**2**	ND	400
	12/02/02	**5.31**	ND	99	**1.2**	6.7	340
	12/03/03	**5.64**	ND	130	0.12	ND	280
	07/19/04	**5.50**	ND	97	0.072	ND	312
	07/13/05	**5.20**	ND	100	0.10	ND	490
	07/11/06	**5.47**	ND	88	ND	ND	**980**
	07/27/07	**5.57**	ND	85	ND	ND	410
	07/23/08	**5.64**	ND	88.6	0.13	ND	388

Notes:

1. 2L Standard values were taken from Title 15A, North Carolina Administrative Code (NCAC), Subchapter 2L Groundwater Quality Standards.
2. **Bold** indicates exceedance of 2L Standard in monitoring wells.
3. pH is measured in Standard Units.
4. Concentrations are in milligrams per liter (mg/L).
5. ND signifies that the parameter was not detected at or above the laboratory reporting limit.
6. NA signifies that analytical data is not present or available.

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Table 3
Surface Water Quality Results
International Paper Landfill 5
Canton, North Carolina

July 22 and 23, 2008

Sample Location	Date	pH	Cadmium	Chloride	Iron	Sulfate	Total Dissolved Solids
2B Standards		*6.0 - 9.0*	*2.0*	*230*	*1.0*	*250*	*500*
BD-UP	05/01/91	7.47	ND	1.56	0.96	ND	37
	05/01/92	NA	NA	NA	**1.6**	NA	NA
	05/01/93	NA	NA	NA	NA	NA	NA
	11/01/93	7.50	ND	2.9	0.41	4.1	75
	05/01/94	7.10	ND	1.9	0.24	4.3	37
	11/01/94	7.40	ND	3.3	**1.179**	3.7	56
	05/01/95	7.90	ND	2.5	**1.125**	4.1	49
	11/01/95	6.20	ND	4.2	0.192	4.9	72
	05/01/96	6.20	ND	2.6	**1.316**	5.9	34
	11/01/96	7.10	ND	2.9	**1.099**	3.7	43
	05/01/97	7.30	ND	1.5	0.64	3.1	62
	11/01/97	7.40	ND	3.4	0.3	3.8	38
	05/01/98	7.60	ND	ND	ND	3	36
	11/01/98	NA	NA	NA	NA	NA	NA
	05/01/99	6.70	ND	2.0	0.81	4.1	76
	11/01/99	6.60	ND	1.5	0.28	2.63	75
	05/01/00	6.70	ND	2.4	0.39	6.1	68
	11/01/00	7.20	ND	3.2	0.29	7.7	55
	05/01/01	6.90	ND	3.9	0.46	ND	86
	11/05/01	7.80	ND	2.9	0.44	3.7	64
	05/28/02	7.20	ND	3.2	0.56	ND	62
	12/02/02	6.62	ND	3.2	**2.9**	9.1	66
	12/03/03	7.32	ND	3.6	0.53	ND	50
	07/19/04	6.86	ND	ND	0.88	ND	50
	07/12/05	NA	ND	ND	0.60	ND	86
	07/11/06	7.7	ND	ND	0.29	ND	36
	07/27/07	**5.31**	ND	ND	0.70	ND	72
	07/22/08	7.22	ND	ND	0.512	ND	64

Table 3
Surface Water Quality Results
International Paper Landfill 5
Canton, North Carolina

July 22 and 23, 2008

Sample Location	Date	pH	Cadmium	Chloride	Iron	Sulfate	Total Dissolved Solids
2B Standards		*6.0 - 9.0*	*2.0*	*230*	*1.0*	*250*	*500*
BD-DOWN	05/01/91	7.47	ND	2.41	0.67	ND	46
	05/01/92	NA	NA	NA	**1.7**	NA	NA
	05/01/93	NA	NA	NA	NA	NA	NA
	11/01/93	7.45	ND	5.2	0.51	9.6	110
	05/01/94	7.04	ND	3.2	0.343	4	42
	11/01/94	7.30	ND	4.4	0.89	3.3	34
	05/01/95	7.20	ND	3.0	**1.495**	3.9	48
	11/01/95	6.40	ND	4.4	0.241	5.1	52
	05/01/96	6.70	ND	3.4	**1.513**	7	41
	11/01/96	7.20	ND	4.2	0.264	3.9	49
	05/01/97	6.80	ND	3.9	**1.3**	3.6	65
	11/01/97	7.00	ND	3.7	0.19	3.1	51
	05/01/98	7.20	ND	2.6	0.51	3.1	48
	11/01/98	NA	NA	NA	NA	NA	NA
	05/01/99	6.60	ND	4.7	0.9	3.54	75
	11/01/99	6.90	ND	2.6	0.36	2.63	60
	05/01/00	6.60	ND	3.1	0.27	6.9	59
	11/01/00	6.90	ND	4.2	0.3	8.1	87
	05/01/01	6.90	ND	4.2	0.62	2.8	**2600**
	11/05/01	7.98	ND	4.7	0.33	3.8	ND
	05/28/02	7.20	ND	4.4	0.63	ND	66
	12/02/02	6.19	ND	6.0	**7.0**	10	88
	12/03/03	7.32	ND	5.0	0.57	ND	50
	07/19/04	6.92	ND	ND	**1.5**	ND	62
	07/12/05	NA	ND	ND	0.84	ND	84
	07/10/06	7.58	ND	ND	0.28	ND	44
	07/27/07	7.03	ND	ND	1.0	ND	66
	07/22/08	6.99	ND	5.7	0.555	ND	92.0

Notes:

1. 2B Standard values were taken from Title 15A, North Carolina Administrative Code (NCAC), Subchapter 2B Surface Water and Wetland Standards.
2. **Bold** indicates exceedance of 2B Standard in monitoring wells.
3. pH is measured in Standard Units.
4. Concentrations are in milligrams per liter (mg/L).
5. ND signifies that the parameter was not detected at or above the laboratory reporting limit.
6. NA signifies that analytical data is not present or available.

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ANALYTICAL LABORATORY RESULTS

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July 31, 2008

Mr. Joel Lenk
Altamont Environmental
50 College Street
Asheville, NC 28801

RE: Project: IP LF 5 2055.05
Pace Project No.: 9223979

Dear Mr. Lenk:
Enclosed are the analytical results for sample(s) received by the laboratory on July 23, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lorri Patton

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: IP LF 5 2055.05
Pace Project No.: 9223979

Charlotte Certification IDs

Florida/NELAP Certification Number: E87627
Kansas Certification Number: E-10364
Louisiana/LELAP Certification Number: 04034
North Carolina Drinking Water Certification Number: 37706
North Carolina Wastewater Certification Number: 12
North Carolina Field Services Certification Number: 5342
South Carolina Certification Number: 990060001
South Carolina Bioassay Certification Number: 990060003
Tennessee Certification Number: 04010
Virginia Certification Number: 00213

Asheville Certification IDs

Florida/NELAP Certification Number: E87648
Louisiana/LELAP Certification Number: 03095
New Jersey Certification Number: NC011
North Carolina Drinking Water Certification Number: 37712
North Carolina Wastewater Certification Number: 40
North Carolina Bioassay Certification Number: 9
Pennsylvania Certification Number: 68-03578
South Carolina Certification Number: 99030001
South Carolina Bioassay Certification Number: 99030002
Tennessee Certification Number: 2980
Virginia Certification Number: 00072

Eden Certification IDs

North Carolina Drinking Water Certification Number: 37738
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633

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ANALYTICAL RESULTS

Project: IP LF 5 2055.05
Pace Project No.: 9223979

Sample: MW-5B1 **Lab ID: 9223979001** Collected: 07/22/08 15:40 Received: 07/23/08 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Cadmium	ND	ug/L	1.0	1	07/25/08 12:50	07/29/08 09:33	7440-43-9	
Iron	**11100**	ug/L	50.0	1	07/25/08 12:50	07/29/08 09:33	7439-89-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**40.0**	mg/L	20.0	1		07/28/08 20:48		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	ND	mg/L	5.0	1		07/29/08 15:41	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90							
Sulfate	ND	mg/L	5.0	1		07/26/08 21:17	14808-79-8	

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ANALYTICAL RESULTS

Project: IP LF 5 2055.05
Pace Project No.: 9223979

Sample: MW-5B2 **Lab ID: 9223979002** Collected: 07/23/08 11:44 Received: 07/23/08 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Cadmium	ND	ug/L	1.0	1	07/25/08 12:50	07/29/08 09:36	7440-43-9	
Iron	**26800**	ug/L	50.0	1	07/25/08 12:50	07/29/08 09:36	7439-89-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**496**	mg/L	20.0	1		07/28/08 20:49		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**113**	mg/L	25.0	5		07/29/08 16:13	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90							
Sulfate	**6.6**	mg/L	5.0	1		07/26/08 21:17	14808-79-8	

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ANALYTICAL RESULTS

Project: IP LF 5 2055.05
Pace Project No.: 9223979

Sample: MW-5B3 **Lab ID: 9223979003** Collected: 07/23/08 10:07 Received: 07/23/08 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Cadmium	ND	ug/L	1.0	1	07/25/08 12:50	07/29/08 09:40	7440-43-9	
Iron	**73600**	ug/L	50.0	1	07/25/08 12:50	07/29/08 09:40	7439-89-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**152**	mg/L	20.0	1		07/28/08 20:49		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**17.0**	mg/L	5.0	1		07/29/08 15:41	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90							
Sulfate	**13.1**	mg/L	5.0	1		07/26/08 21:19	14808-79-8	

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ANALYTICAL RESULTS

Project: IP LF 5 2055.05
Pace Project No.: 9223979

Sample: MW-5C1 **Lab ID: 9223979004** Collected: 07/22/08 11:11 Received: 07/23/08 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Cadmium	ND	ug/L	1.0	1	07/25/08 12:50	07/29/08 09:44	7440-43-9	
Iron	ND	ug/L	50.0	1	07/25/08 12:50	07/29/08 09:44	7439-89-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**124**	mg/L	20.0	1		07/28/08 20:48		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**9.5**	mg/L	5.0	1		07/29/08 15:41	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90							
Sulfate	**6.5**	mg/L	5.0	1		07/26/08 21:19	14808-79-8	

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ANALYTICAL RESULTS

Project: IP LF 5 2055.05
Pace Project No.: 9223979

Sample: MW-5C2 **Lab ID: 9223979005** Collected: 07/22/08 13:07 Received: 07/23/08 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Cadmium	ND	ug/L	1.0	1	07/28/08 11:20	07/30/08 03:06	7440-43-9	
Iron	**124**	ug/L	50.0	1	07/28/08 11:20	07/30/08 03:06	7439-89-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**218**	mg/L	20.0	1		07/28/08 20:48		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**43.0**	mg/L	10.0	2		07/29/08 15:58	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90							
Sulfate	ND	mg/L	5.0	1		07/26/08 21:19	14808-79-8	

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ANALYTICAL RESULTS

Project: IP LF 5 2055.05
Pace Project No.: 9223979

Sample: MW-5C3 **Lab ID: 9223979006** Collected: 07/23/08 13:37 Received: 07/23/08 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Cadmium	ND	ug/L	1.0	1	07/28/08 11:20	07/30/08 03:22	7440-43-9	
Iron	**130**	ug/L	50.0	1	07/28/08 11:20	07/30/08 03:22	7439-89-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**388**	mg/L	20.0	1		07/28/08 20:49		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**88.6**	mg/L	20.0	4		07/29/08 10:10	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90							
Sulfate	ND	mg/L	5.0	1		07/26/08 21:19	14808-79-8	

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ANALYTICAL RESULTS

Project: IP LF 5 2055.05
Pace Project No.: 9223979

Sample: BD-UP **Lab ID: 9223979007** Collected: 07/22/08 14:33 Received: 07/23/08 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Cadmium	ND	ug/L	1.0	1	07/28/08 11:20	07/30/08 03:31	7440-43-9	
Iron	**512**	ug/L	50.0	1	07/28/08 11:20	07/30/08 03:31	7439-89-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**64.0**	mg/L	20.0	1		07/28/08 20:49		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	ND	mg/L	5.0	1		07/29/08 15:42	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90							
Sulfate	ND	mg/L	5.0	1		07/26/08 21:22	14808-79-8	

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ANALYTICAL RESULTS

Project: IP LF 5 2055.05
Pace Project No.: 9223979

Sample: BD-DOWN **Lab ID: 9223979008** Collected: 07/22/08 14:20 Received: 07/23/08 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Cadmium	ND	ug/L	1.0	1	07/28/08 11:20	07/30/08 03:36	7440-43-9	
Iron	**555**	ug/L	50.0	1	07/28/08 11:20	07/30/08 03:36	7439-89-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**92.0**	mg/L	20.0	1		07/28/08 20:49		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**5.7**	mg/L	5.0	1		07/29/08 15:43	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90							
Sulfate	ND	mg/L	5.0	1		07/26/08 21:22	14808-79-8	

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ANALYTICAL RESULTS

Project: IP LF 5 2055.05
Pace Project No.: 9223979

Sample: DUP-1 **Lab ID: 9223979009** Collected: 07/23/08 00:00 Received: 07/23/08 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Cadmium	ND	ug/L	1.0	1	07/28/08 11:20	07/30/08 03:40	7440-43-9	
Iron	**61800**	ug/L	50.0	1	07/28/08 11:20	07/30/08 03:40	7439-89-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**154**	mg/L	20.0	1		07/28/08 20:49		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**16.9**	mg/L	5.0	1		07/29/08 15:43	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90							
Sulfate	**13.9**	mg/L	5.0	1		07/26/08 21:25	14808-79-8	

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QUALITY CONTROL DATA

Project: IP LF 5 2055.05
Pace Project No.: 9223979

QC Batch: MPRP/2721 — Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 — Analysis Description: 200.7 MET
Associated Lab Samples: 9223979001, 9223979002, 9223979003, 9223979004

METHOD BLANK: 144492
Associated Lab Samples: 9223979001, 9223979002, 9223979003, 9223979004

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cadmium	ug/L	ND	1.0	
Iron	ug/L	ND	50.0	

LABORATORY CONTROL SAMPLE: 144493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	500	505	101	85-115	
Iron	ug/L	5000	5100	102	85-115	

MATRIX SPIKE SAMPLE: 144494

Parameter	Units	9224066012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	ND	500	495	99	70-130	
Iron	ug/L	1030	5000	5840	96	70-130	

SAMPLE DUPLICATE: 144495

Parameter	Units	9224081001 Result	Dup Result	RPD	Qualifiers
Cadmium	ug/L	ND	ND	0	
Iron	ug/L	2160	2100	3	

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QUALITY CONTROL DATA

Project: IP LF 5 2055.05
Pace Project No.: 9223979

QC Batch: MPRP/2730 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET
Associated Lab Samples: 9223979005, 9223979006, 9223979007, 9223979008, 9223979009

METHOD BLANK: 144916
Associated Lab Samples: 9223979005, 9223979006, 9223979007, 9223979008, 9223979009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cadmium	ug/L	ND	1.0	
Iron	ug/L	ND	50.0	

LABORATORY CONTROL SAMPLE: 144917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	500	491	98	85-115	
Iron	ug/L	5000	4940	99	85-115	

MATRIX SPIKE SAMPLE: 145228

Parameter	Units	9223979006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	ND	500	472	94	70-130	
Iron	ug/L	130	5000	4790	93	70-130	

SAMPLE DUPLICATE: 144919

Parameter	Units	9223979005 Result	Dup Result	RPD	Qualifiers
Cadmium	ug/L	ND	ND	63	R3
Iron	ug/L	124	115	8	

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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: IP LF 5 2055.05
Pace Project No.: 9223979

QC Batch: WETA/3152 Analysis Method: ASTM D516-90
QC Batch Method: ASTM D516-90 Analysis Description: ASTM D516-90 Sulfate Water
Associated Lab Samples: 9223979001, 9223979002, 9223979003, 9223979004, 9223979005, 9223979006, 9223979007, 9223979008, 9223979009

METHOD BLANK: 145113
Associated Lab Samples: 9223979001, 9223979002, 9223979003, 9223979004, 9223979005, 9223979006, 9223979007, 9223979008, 9223979009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfate	mg/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 145114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.2	106	90-110	

MATRIX SPIKE SAMPLE: 145115

Parameter	Units	9223812006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	ND	20	21.0	99	75-125	

MATRIX SPIKE SAMPLE: 145117

Parameter	Units	9223979007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	ND	20	22.7	98	75-125	

SAMPLE DUPLICATE: 145116

Parameter	Units	9223812007 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	24.1	25.0	4	

SAMPLE DUPLICATE: 145118

Parameter	Units	9223979008 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	ND	ND	.3	

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QUALITY CONTROL DATA

Project: IP LF 5 2055.05
Pace Project No.: 9223979

QC Batch: WET/4851 — Analysis Method: SM 2540C
QC Batch Method: SM 2540C — Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 9223979001, 9223979002, 9223979003, 9223979004, 9223979005, 9223979006, 9223979007, 9223979008, 9223979009

METHOD BLANK: 145446
Associated Lab Samples: 9223979001, 9223979002, 9223979003, 9223979004, 9223979005, 9223979006, 9223979007, 9223979008, 9223979009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	ND	20.0	

LABORATORY CONTROL SAMPLE: 145447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	270	108	80-120	

SAMPLE DUPLICATE: 145448

Parameter	Units	9223804002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	314	326	4	

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QUALITY CONTROL DATA

Project: IP LF 5 2055.05
Pace Project No.: 9223979

QC Batch: WETA/3166 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 9223979001, 9223979002, 9223979003, 9223979004, 9223979005

METHOD BLANK: 145472
Associated Lab Samples: 9223979001, 9223979002, 9223979003, 9223979004, 9223979005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 145473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.1	106	90-110	

MATRIX SPIKE SAMPLE: 145474

Parameter	Units	9223432001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	93.0	20	111	91	75-125	

MATRIX SPIKE SAMPLE: 145476

Parameter	Units	9223481009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	18.7	20	37.6	95	75-125	

SAMPLE DUPLICATE: 145475

Parameter	Units	9223465003 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	198	200	1	

SAMPLE DUPLICATE: 145477

Parameter	Units	9224204001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	412	416	1	

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QUALITY CONTROL DATA

Project: IP LF 5 2055.05
Pace Project No.: 9223979

QC Batch: WETA/3167 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 9223979006, 9223979007, 9223979008, 9223979009

METHOD BLANK: 145478
Associated Lab Samples: 9223979006, 9223979007, 9223979008, 9223979009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 145479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.3	107	90-110	

MATRIX SPIKE SAMPLE: 145480

Parameter	Units	9223979006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	88.6	20	109	102	75-125	

MATRIX SPIKE SAMPLE: 145482

Parameter	Units	9224044002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	ND	20	21.6	101	75-125	

SAMPLE DUPLICATE: 145481

Parameter	Units	9223979007 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	ND	ND	1	

SAMPLE DUPLICATE: 145483

Parameter	Units	9224044003 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	ND	ND	.8	

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QUALIFIERS

Project: IP LF 5 2055.05
Pace Project No.: 9223979

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

R3 RPD value was outside control limits due to uncertainty of values at or near the PRL.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1176371

Section A Required Client Information:

Company: Altamont Environmental
Address: 50 College St, Asheville, NC
Email To:
Phone: 281-3350 Fax: 281-3351
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Joel Lenk
Copy To:
Purchase Order No.:
Project Name: IP LF 5
Project Number: 2055.05

Section C Invoice Information:

Attention: Judith Robertson
Company Name: Altamont
Address: same
Pace Quote Reference:
Pace Project Manager: Lorri Patton
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Iron, Cadmium, Chloride, Sulfate, TDS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	Iron, Cadmium	Chloride, Sulfate	TDS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-5B1	WT	G			7-22	15:40	14	3	2		1							X	X	X		9223979001
2	MW-5B2	WT	G			7-23	11:44	14	3	2		1							X	X	X		002
3	MW-5B3	WT	G			7-23	10:07	15	3	2		1							X	X	X		003
4	MW-5C1	WT	G			7-22	11:11	13	3	2		1							X	X	X		004
5	MW-5C2	WT	G			7-22	13:07	18	3	2		1							X	X	X		005
6	MW-5C3	WT	G			7-23	13:37	16	3	2		1							X	X	X		006
7	BD-UP	WT	G			7-22	14:33	22	3	2		1							X	X	X		007
8	BD-DOWN	WT	G			7-22	14:20	23	3	2		1							X	X	X		008
9	DUP-1	WT	G			7-23	—	—	3	2		1							X	X	X		009
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Jon Hazinski	7/23/08		[signature]	7/23/08	14:40

SAMPLE CONDITIONS: Temp in °C 4.2; Received on Ice (Y/N) X; Custody Sealed Cooler (Y/N) N; Samples Intact (Y/N) Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jon Hazinski
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 7/23/08

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007