ES CONSULTANTS, INC.
environmental and civil engineering

Civil Engineering

Construction Management

Environmental Services

Solid Waste

Water & Sewer

Water Resources

March 15, 2011

Mr. William "Lee" Martin
Florida Department of Environmental Protection
Division of Waste Management
Bob Martinez Center
2600 Blair Stone Rd.
Tallahassee, Florida 32399

Re: Biscayne Landing (F.K.A. Munisport Landfill)
2200 NE 143rd St. North Miami, Florida
(Closure Permit # 0129514-001-SF, July 2004;
DERM Consent Agreement, February 1998;
IRPAO, January 2002; and
DERM SW-1178/File- 12838)

Subject: 1st Semiannual Water Quality Monitoring Report for 2011

Dear Mr. Martin:

On behalf of the City of North Miami, the owner, and Charles W. DeSanti, Receiver[1] for the Biscayne Landing Project (Munisport Landfill), ES Consultants, Inc. (ESC) hereby submits the first semi-annual water quality monitoring for 2011 for Biscayne Landing (Site) in accordance with Exhibit 1 of the Site closure permit and consent agreement/IRPAO, and FDEP correspondence dated April 24, 2009[2]. A site location map is presented in **Figure 1**.

The monitoring plan for sampling locations and parameters was established/approved in the subject closure permit and consent agreement/IRPAO. The water quality sampling program for the Site consists of 112 sampling locations: 24 surface water sampling points and 47 groundwater monitoring wells associated with the subject closure permit; six surface water sampling points and 35 groundwater monitoring wells associated with the subject consent agreement/IRPAO. The groundwater and surface water sampling locations are presented in **Figure 2**.

The groundwater monitoring wells at the Site are screened within four subsurface zones based on their total depths as detailed below:

- Zone 1 from 0 to -10 ft NGVD
- Zone 2 from -10 ft NGVD to -19.99 ft NGVD
- Zone 3 from -20 ft NGVD to -29.99 ft NGVD; and

[1] Charles W. DeSanti is the Receiver in a foreclosure action, the collateral of which is the Munisport Ground Lease between Biscayne Landing, LLC and the City of North Miami.
[2] 5 +/- acres of the Munisport Landfill have been bifurcated from the Munisport Ground Lease and are under a separate ground lease with the City. That area is denoted on Figure 1 as lands under separate ground lease. However, those lands are included in this report.

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- Zone 4 below -30 ft NGVD

Table 1 provides monitoring well construction details for the Site.

Groundwater and surface water samples were collected from January 26, 2011 through February 14, 2011 by ESC staff. Existing monitoring wells were gauged for depth to water within one tidal cycle on February 23, 2011. The field measurements, sample collection, and sample preservation were conducted in general accordance with the latest FDEP sampling SOPs. The groundwater and surface water samples were couriered under chain-of-custody protocol to Xenco Laboratories, a NELAC-certified laboratory, for laboratory analysis.

Copies of the analytical laboratory reports are enclosed in the attached CD, including field sampling logs, chain-of-custody documentation, Excel spreadsheets for the summary of field data and analytical results, and ADaPT files. The field data and analytical results for this sampling event were reviewed and validated. The analytical results and concentration contours are presented in the attachments as follows:

- Monitoring well construction details and groundwater elevations are presented in **Table 1**. Based on the groundwater elevations, groundwater contours were developed and groundwater flow direction was interpreted in each zone as depicted in **Figure 3** through **Figure 6.**

- A summary of the field parameters recorded at surface water and groundwater sampling locations are presented in **Table 2** and **Table 3**, respectively.

- **Tables 4** and **5** summarize parameters that exceeded State/County surface water and groundwater cleanup target levels, respectively.

- Ammonia concentrations from each groundwater zone are presented in **Figure 7** through **Figure 10**.

- Iron concentrations from each groundwater zone are presented in **Figure 11** through **Figure 14**.

Should you have any questions regarding the information presented in this report, please do not hesitate to contact the undersigned.

Regards,

ES Consultants, Inc.

3/15/11

Lucas A. Barroso-Giachetti, P.E., CHMM
Florida License No. 68283

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Attachments

A. Form 62-522.900(2)
B. Laboratory Analytical Results, Sampling Logs, and ADaPT files

cc: Charles W. DeSanti, Receiver for Biscayne Landing
Richard De Lotto, KPAM
Russell Benford, Carlos Perez, Aleem Ghany, City of North Miami
Lynn Whitfield, City Attorney
Richard Tedder, Peter Grasel, Tor Bejnar, FDEP Tallahassee
Joe Lurix, FDEP Southeast District
Lee Casey, DSWM
Tom Colios, SFWMD
Wilbur Mayorga, Hardeep Anand, DERM

Figures

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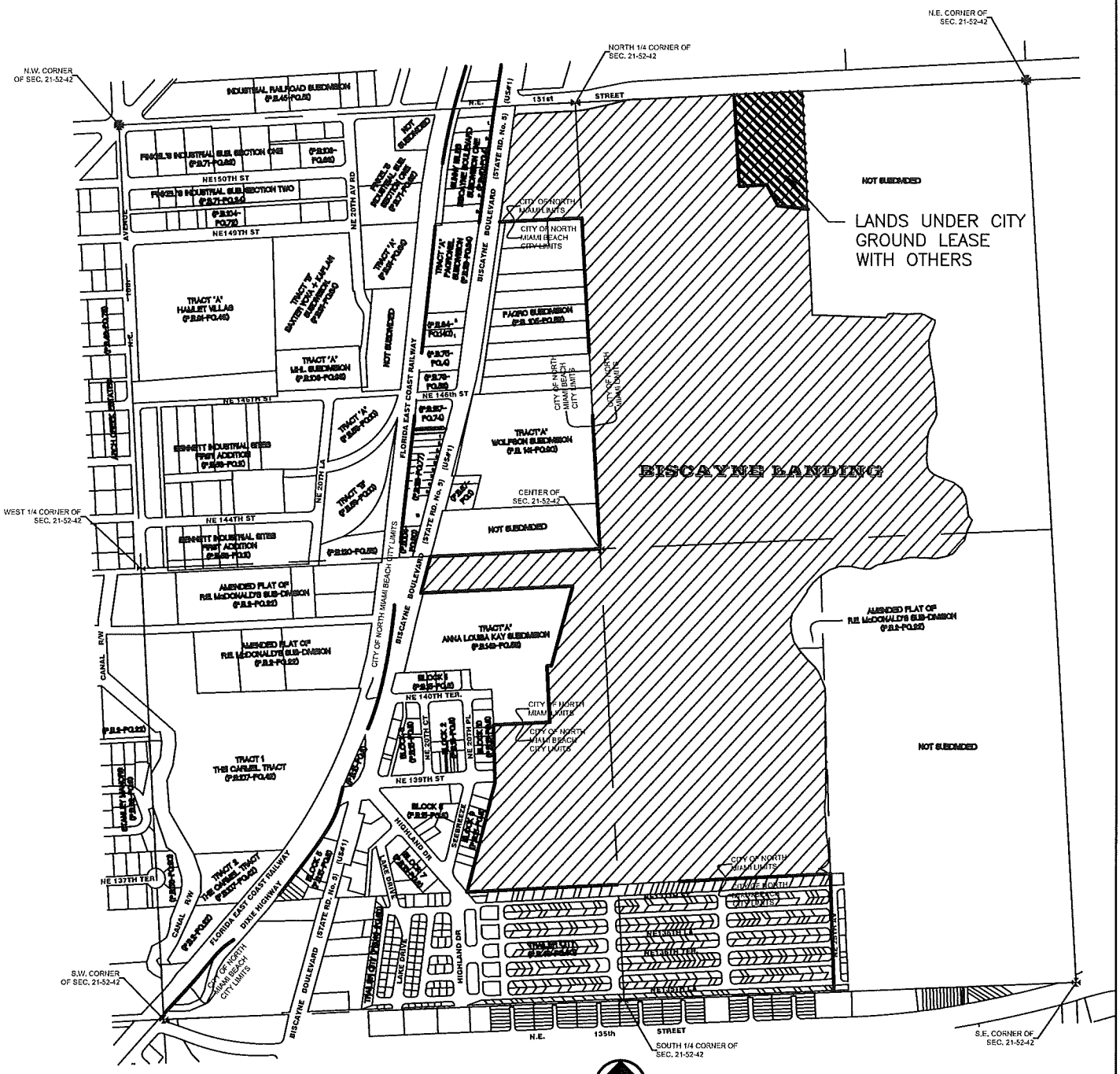


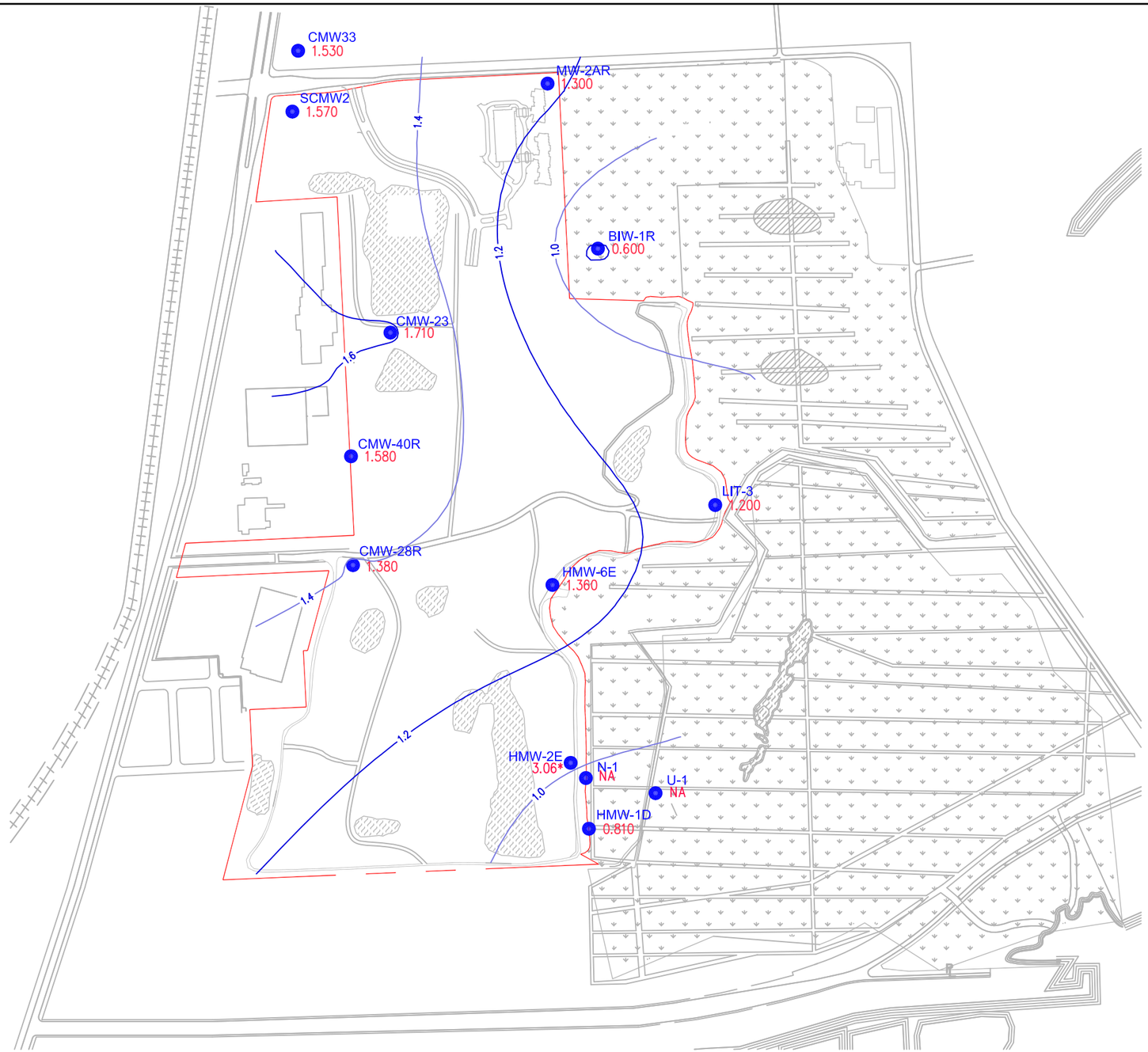
LOCATION MAP

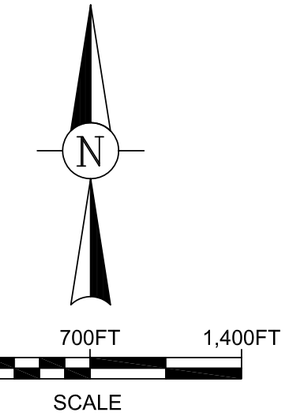
SECTION 21, TOWNSHIP 52 SOUTH, RANGE 42 EAST

0 1000'

SCALE

CHARLES W. DeSANTI RECEIVER FOR BISCAYNE LANDING 4500 PGA BOULEVARD, SUITE 400 PALM BEACH GARDENS, FL 33418	BISCAYNE LANDING (FORMER MUNISPORT LANDFILL) NORTH MIAMI, FL	SITE LOCATION MAP
ES CONSULTANTS, INC. environmental & civil engineering	PROJECT 2011000	FEBRUARY 2011 Fig. 1





LEGEND

	PROPERTY LINE
	MOSQUITO DITCH
MW2AR	MONITORING WELL LOCATION (ZONE 1<-10' NGVD)
1.13	GROUNDWATER ELEVATION, FT NGVD
1.2	GROUNDWATER ELEVATION CONTOUR
NA	GROUNDWATER ELEVATION NOT COLLECTED
3.18*	DATA NOT USED FOR CONTOUR DEVELOPMENT

CHARLES W. DeSANTI
RECEIVER FOR BISCAYNE LANDING
4500 PGA BOULEVARD, SUITE 400
PALM BEACH GARDENS, FL 33418

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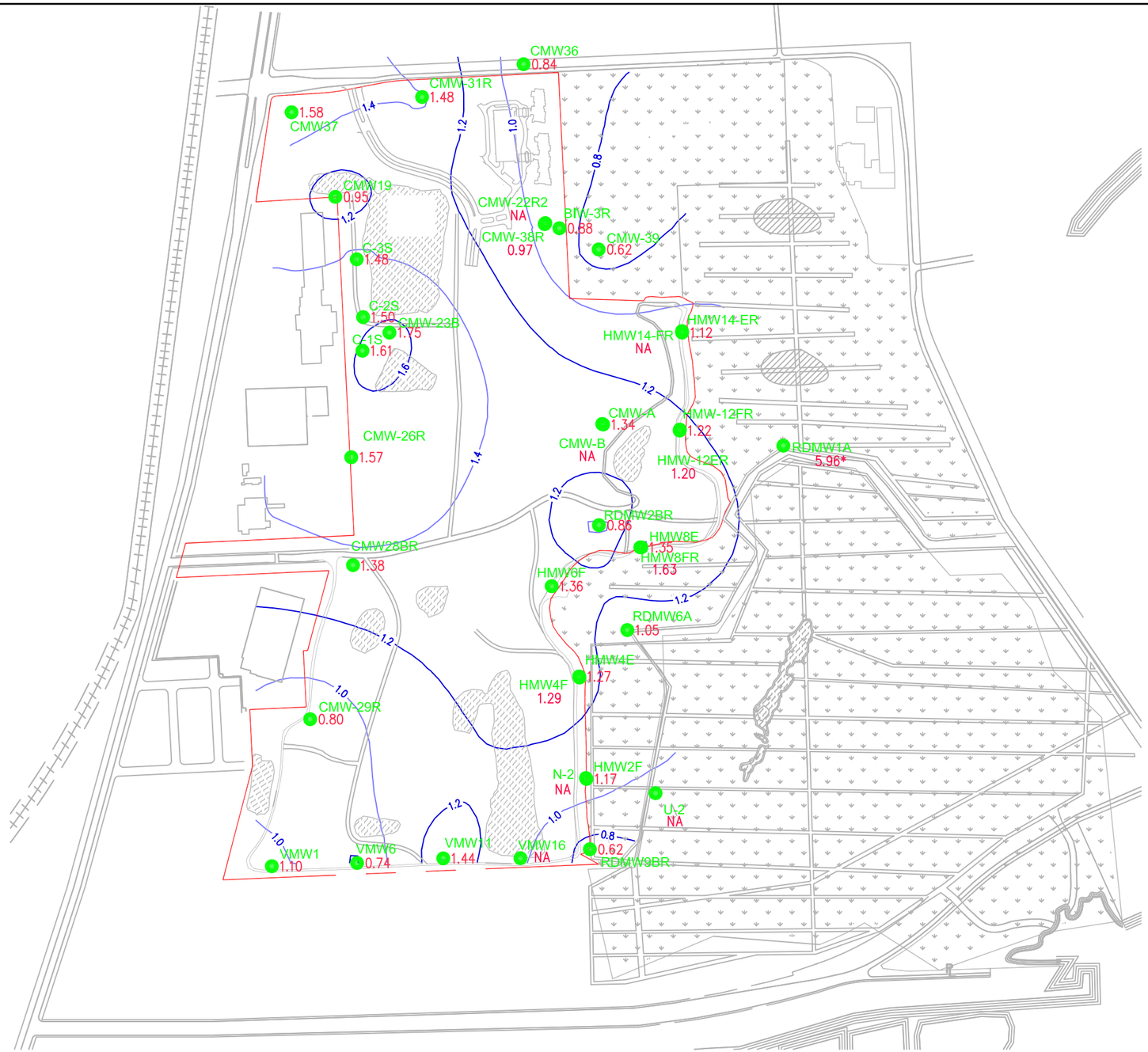
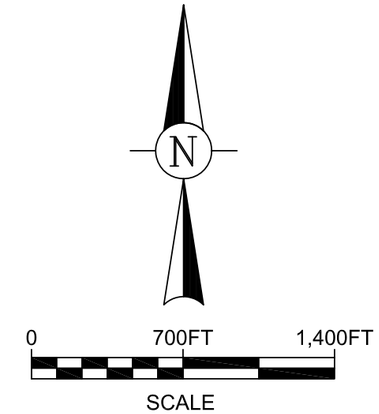
BISCAYNE LANDING
(FORMER MUNISPORT LANDFILL)
NORTH MIAMI, FLORIDA

Project 2011000

GROUNDWATER ELEVATIONS
IN ZONE 1
(FEBRUARY 23, 2011)

APRIL 2011 Fig. 3

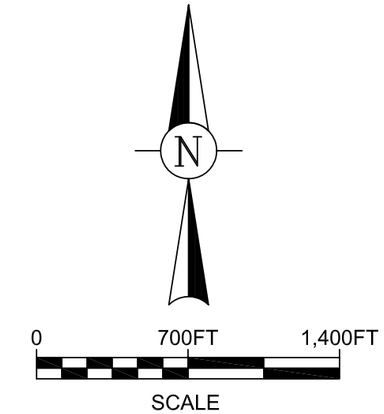




LEGEND

	PROPERTY LINE
	MOSQUITO DITCH
CMW2BR	MONITORING WELL LOCATION (ZONE 2 –10 TO –19.99' NGVD)
1.13	GROUNDWATER ELEVATION, FT NGVD
1.2	GROUNDWATER ELEVATION CONTOUR
NA	GROUNDWATER ELEVATION NOT COLLECTED
3.18*	DATA NOT USED FOR CONTOUR DEVELOPMENT

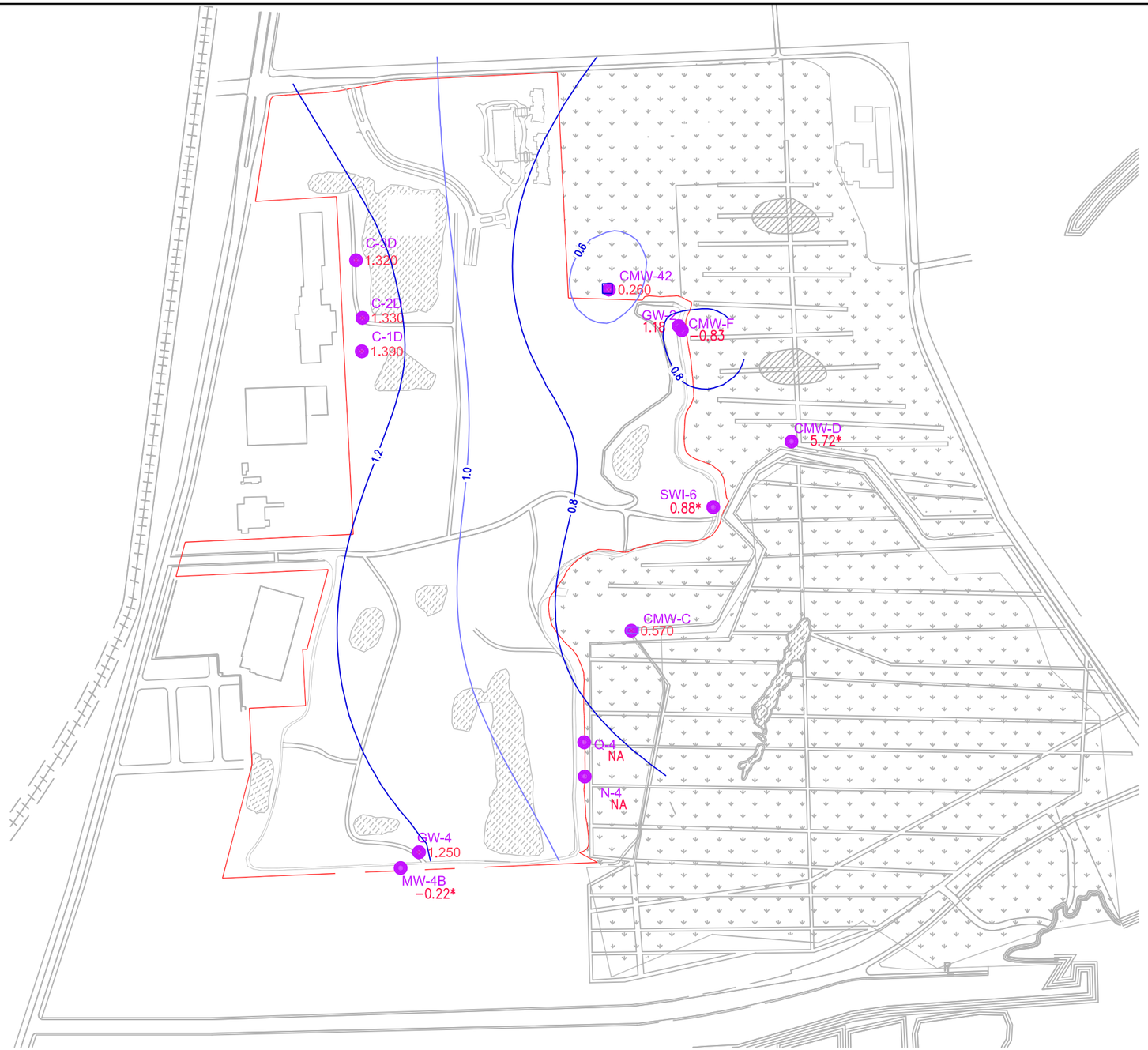
CHARLES W. DeSANTI RECEIVER FOR BISCAYNE LANDING 4500 PGA BOULEVARD, SUITE 400 PALM BEACH GARDENS, FL 33418	BISCAYNE LANDING (FORMER MUNISPORT LANDFILL) NORTH MIAMI, FLORIDA	GROUNDWATER ELEVATIONS IN ZONE 2 (FEBRUARY 23, 2011)
ES CONSULTANTS, INC. environmental & civil engineering	Project 2011000	APRIL 2011 Fig. 4

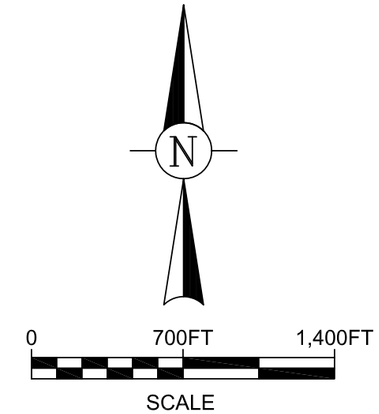


LEGEND

	PROPERTY LINE
	MOSQUITO DITCH
RDMW1B	MONITORING WELL LOCATION (ZONE 3 –20' TO –29.99' NGVD)
1.13	GROUNDWATER ELEVATION, FT NGVD
2.0	GROUNDWATER ELEVATION CONTOUR
NA	GROUNDWATER ELEVATION NOT COLLECTED
3.18*	DATA NOT USED FOR CONTOUR DEVELOPMENT

CHARLES W. DeSANTI RECEIVER FOR BISCAYNE LANDING 4500 PGA BOULEVARD, SUITE 400 PALM BEACH GARDENS, FL 33418	BISCAYNE LANDING (FORMER MUNISPORT LANDFILL) NORTH MIAMI, FLORIDA	GROUNDWATER ELEVATIONS IN ZONE 3 (FEBRUARY 23, 2011)
ES CONSULTANTS, INC. environmental & civil engineering	Project 2011000	APRIL 2011 Fig. 5





LEGEND

	PROPERTY LINE
	MOSQUITO DITCH
RDMW1B	MONITORING WELL LOCATION (ZONE 4 >– 30' NGVD)
1.13	GROUNDWATER ELEVATION, FT NGVD
1.2	GROUNDWATER ELEVATION CONTOUR
NA	GROUNDWATER ELEVATION NOT COLLECTED
3.18*	DATA NOT USED FOR CONTOUR DEVELOPMENT

CHARLES W. DeSANTI
RECEIVER FOR BISCAYNE LANDING
4500 PGA BOULEVARD, SUITE 400
PALM BEACH GARDENS, FL 33418

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BISCAYNE LANDING
(FORMER MUNISPORT LANDFILL)
NORTH MIAMI, FLORIDA

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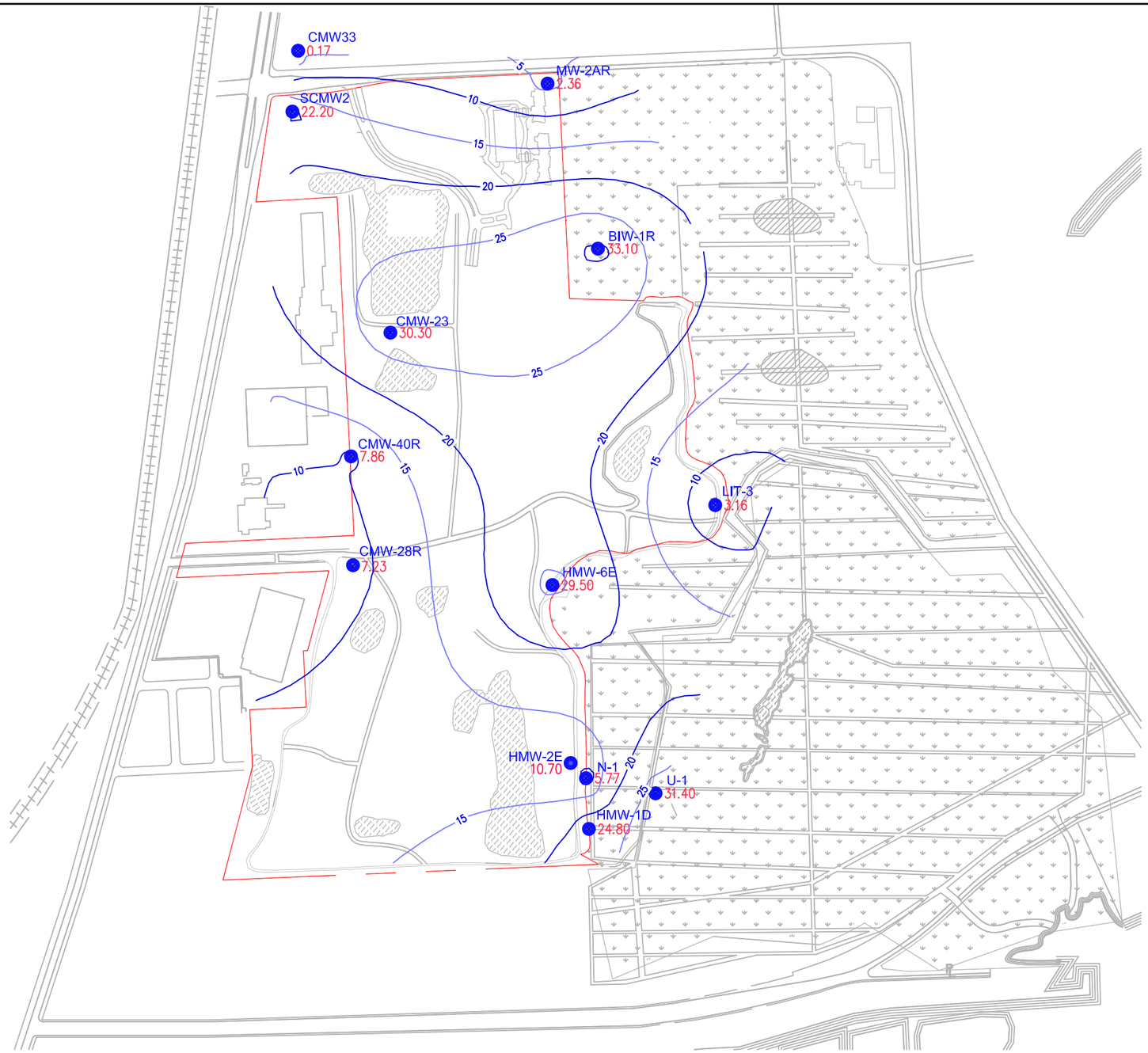
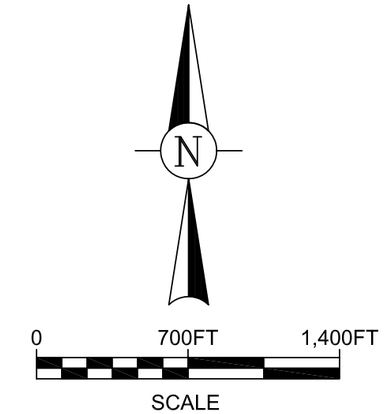
GROUNDWATER ELEVATIONS
IN ZONE 4
(FEBRUARY 23, 2011)

APRIL 2011 Fig. 6

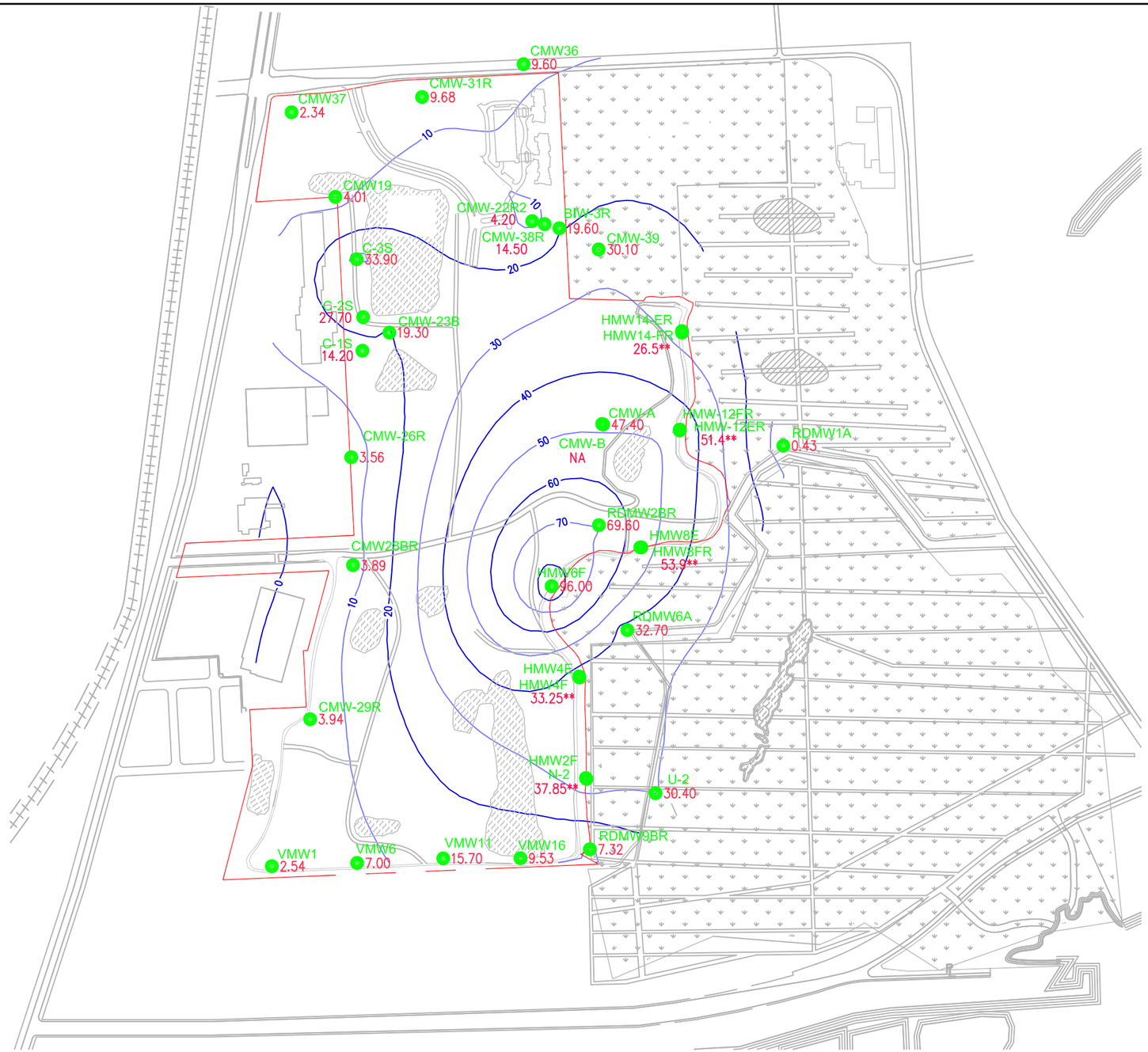


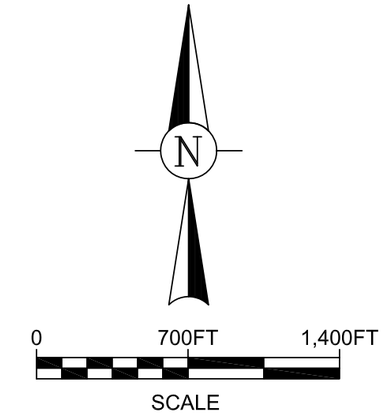


LEGEND

	PROPERTY LINE
	MOSQUITO DITCH
MW2AR	MONITORING WELL LOCATION (ZONE 1<–10' NGVD)
7.50	AMMONIA CONCENTRATION, mg/L
5	AMMONIA ISOCONCENTRATION CONTOUR

CHARLES W. DeSANTI RECEIVER FOR BISCAYNE LANDING 4500 PGA BOULEVARD, SUITE 400 PALM BEACH GARDENS, FL 33418	BISCAYNE LANDING (FORMER MUNISPORT LANDFILL) NORTH MIAMI, FLORIDA	AMMONIA CONCENTRATIONS IN GROUNDWATER – ZONE 1 (FEBRUARY 2011)
ES CONSULTANTS, INC. environmental & civil engineering	Project 2011000	APRIL 2011 Fig. 7

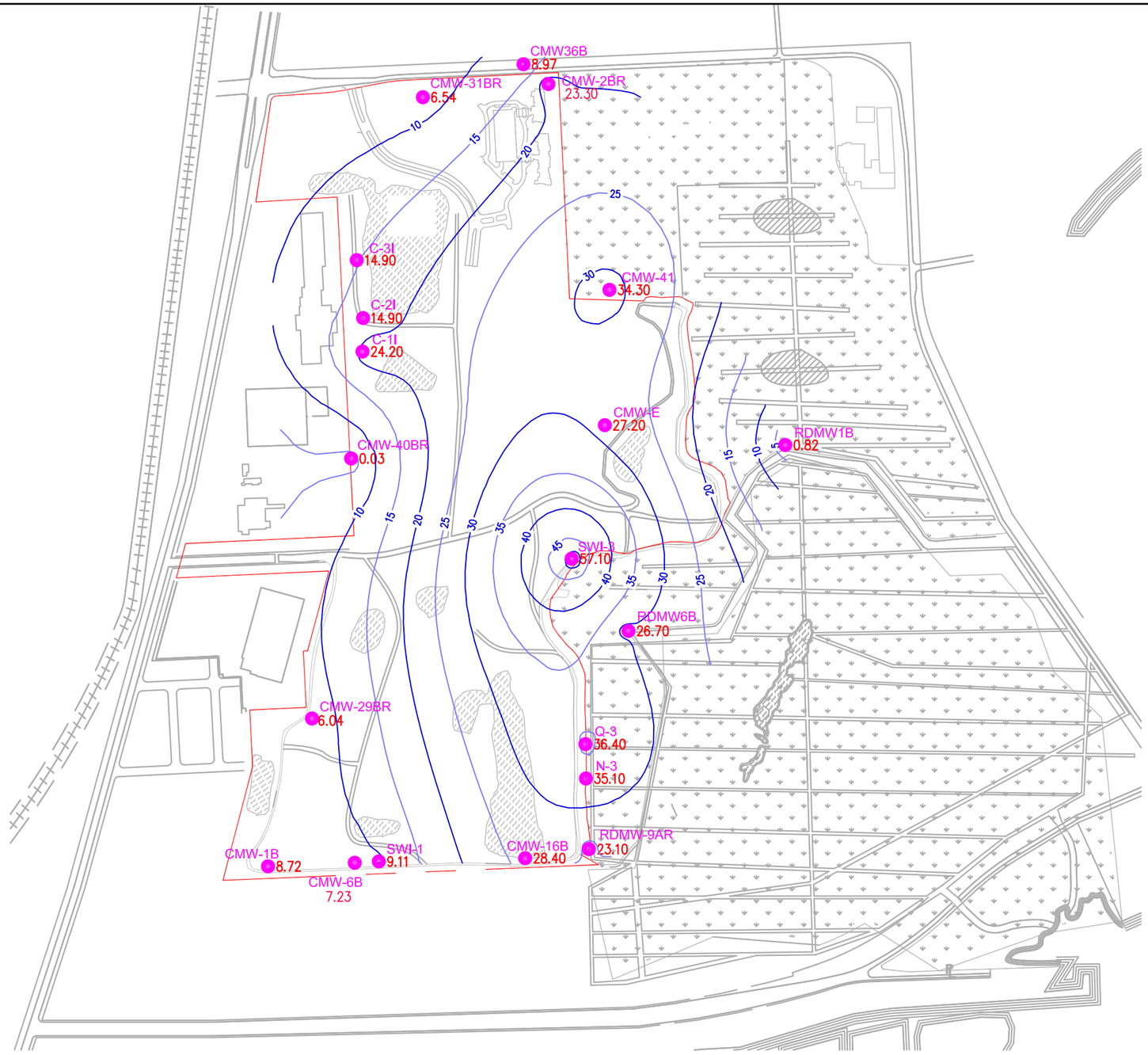


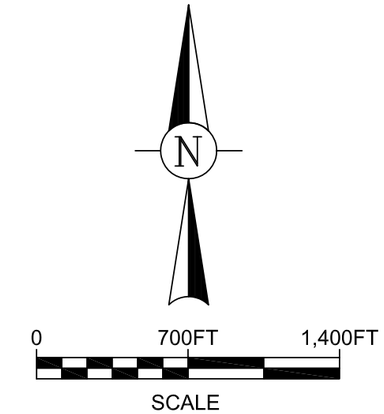


LEGEND

	PROPERTY LINE
	MOSQUITO DITCH
CMW2BR	MONITORING WELL LOCATION (ZONE 2 –10' TO –19.99' NGVD)
2.2	AMMONIA CONCENTRATION, mg/L
10	AMMONIA ISOCONCENTRATION CONTOUR
NA	DATA NOT COLLECTED
**	AVERAGE CONCENTRATION IN TWO ADJACENT WELLS USED FOR CONTOUR DEVELOPMENT

CHARLES W. DeSANTI RECEIVER FOR BISCAYNE LANDING 4500 PGA BOULEVARD, SUITE 400 PALM BEACH GARDENS, FL 33418	BISCAYNE LANDING (FORMER MUNISPORT LANDFILL) NORTH MIAMI, FLORIDA	AMMONIA CONCENTRATIONS IN GROUNDWATER – ZONE 2 (FEBRUARY 2011)
ES CONSULTANTS, INC. environmental & civil engineering	Project 2011000	APRIL 2011 Fig. 8

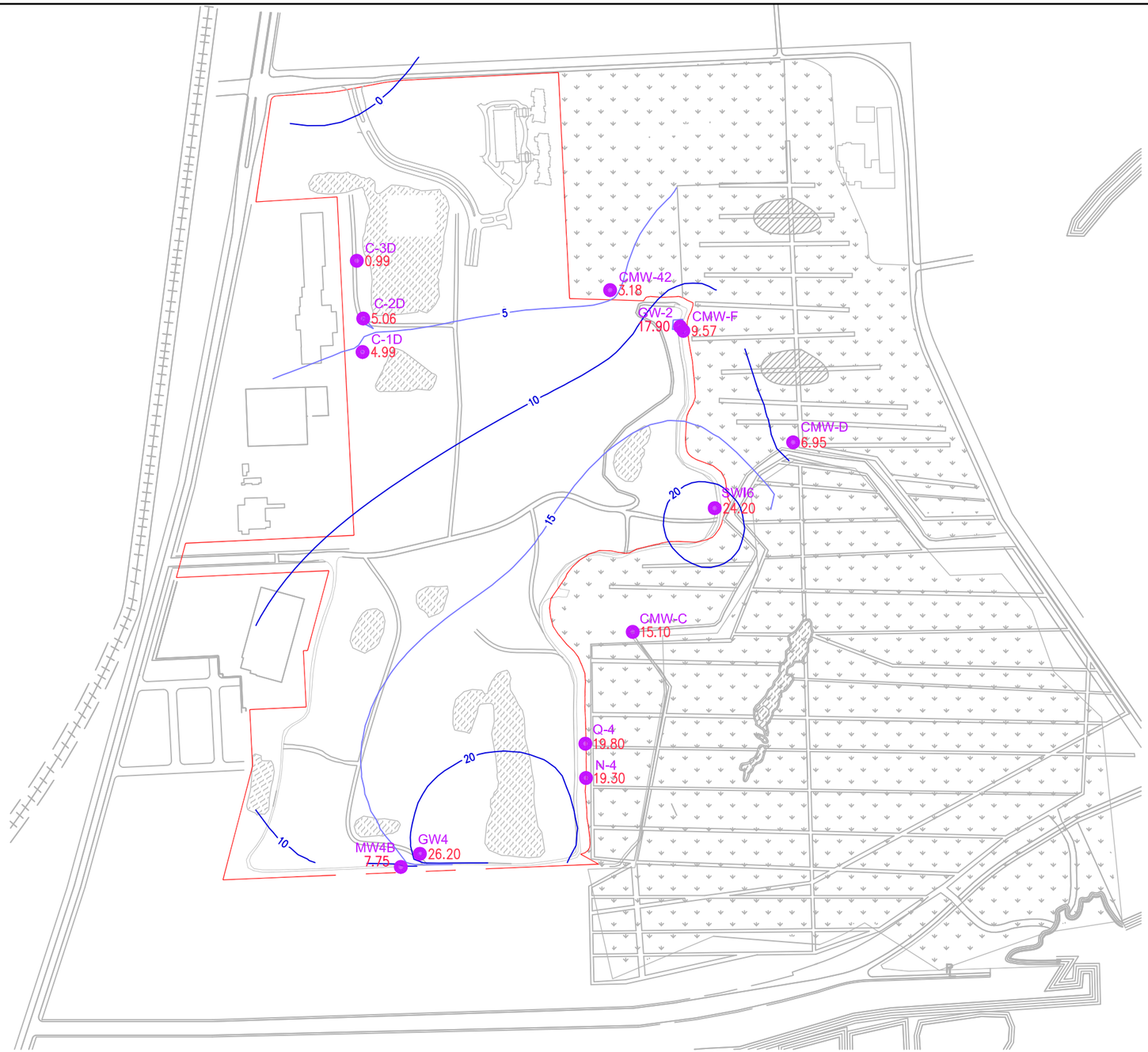


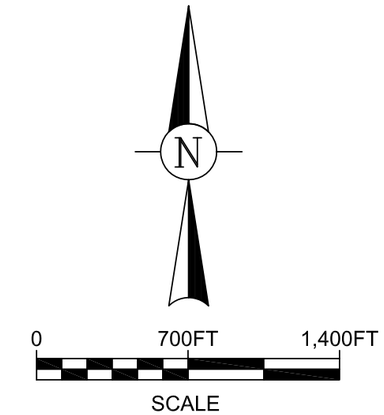


LEGEND

	PROPERTY LINE
	MOSQUITO DITCH
RDMW1B	MONITORING WELL LOCATION (ZONE 3 –20' TO TO –29.99' NGVD)
2.8	AMMONIA CONCENTRATION, mg/L
10	AMMONIA ISOCONCENTRATION CONTOUR

CHARLES W. DeSANTI RECEIVER FOR BISCAYNE LANDING 4500 PGA BOULEVARD, SUITE 400 PALM BEACH GARDENS, FL 33418	BISCAYNE LANDING (FORMER MUNISPORT LANDFILL) NORTH MIAMI, FLORIDA	AMMONIA CONCENTRATIONS IN GROUNDWATER – ZONE 3 (FEBRUARY 2011)
ES CONSULTANTS, INC. environmental & civil engineering	Project 2011000	APRIL 2011 Fig. 9

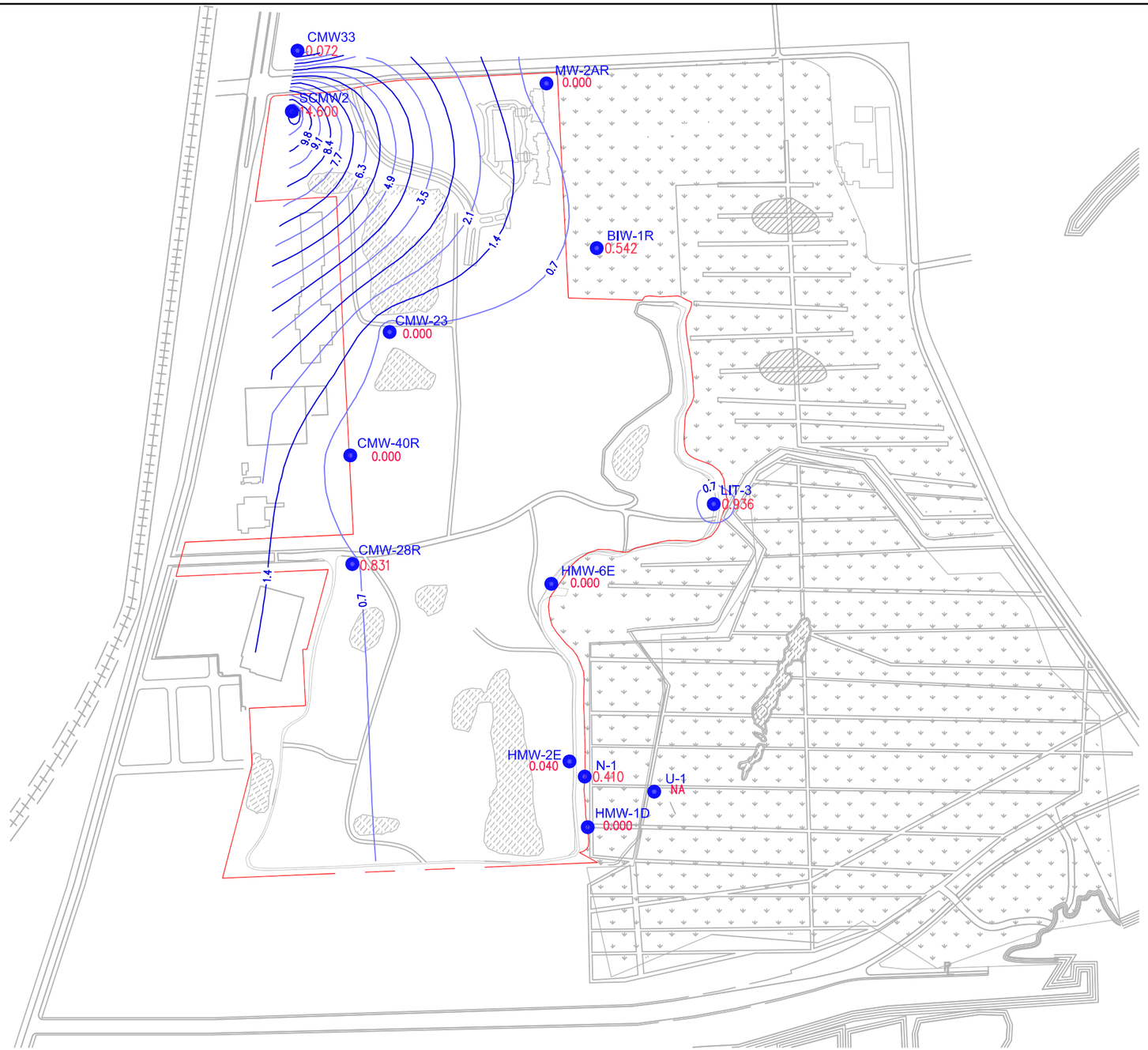


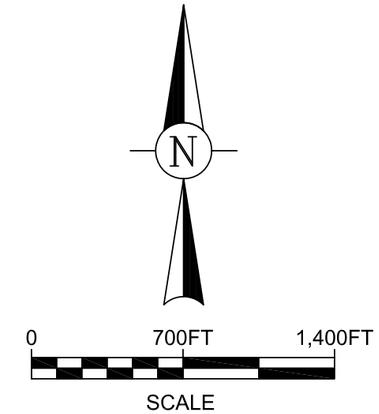


LEGEND

	PROPERTY LINE
	MOSQUITO DITCH
MW4B	MONITORING WELL LOCATION (ZONE 4 >–30' NGVD)
7.60	AMMONIA CONCENTRATIONS, mg/L
5	AMMONIA ISOCONCENTRATIONS CONTOUR

CHARLES W. DeSANTI RECEIVER FOR BISCAYNE LANDING 4500 PGA BOULEVARD, SUITE 400 PALM BEACH GARDENS, FL 33418	BISCAYNE LANDING (FORMER MUNISPORT LANDFILL) NORTH MIAMI, FLORIDA	AMMONIA CONCENTRATIONS IN GROUNDWATER – ZONE 4 (FEBRUARY 2011)
ES CONSULTANTS, INC. environmental & civil engineering	Project 2011000	APRIL 2011 Fig. 10





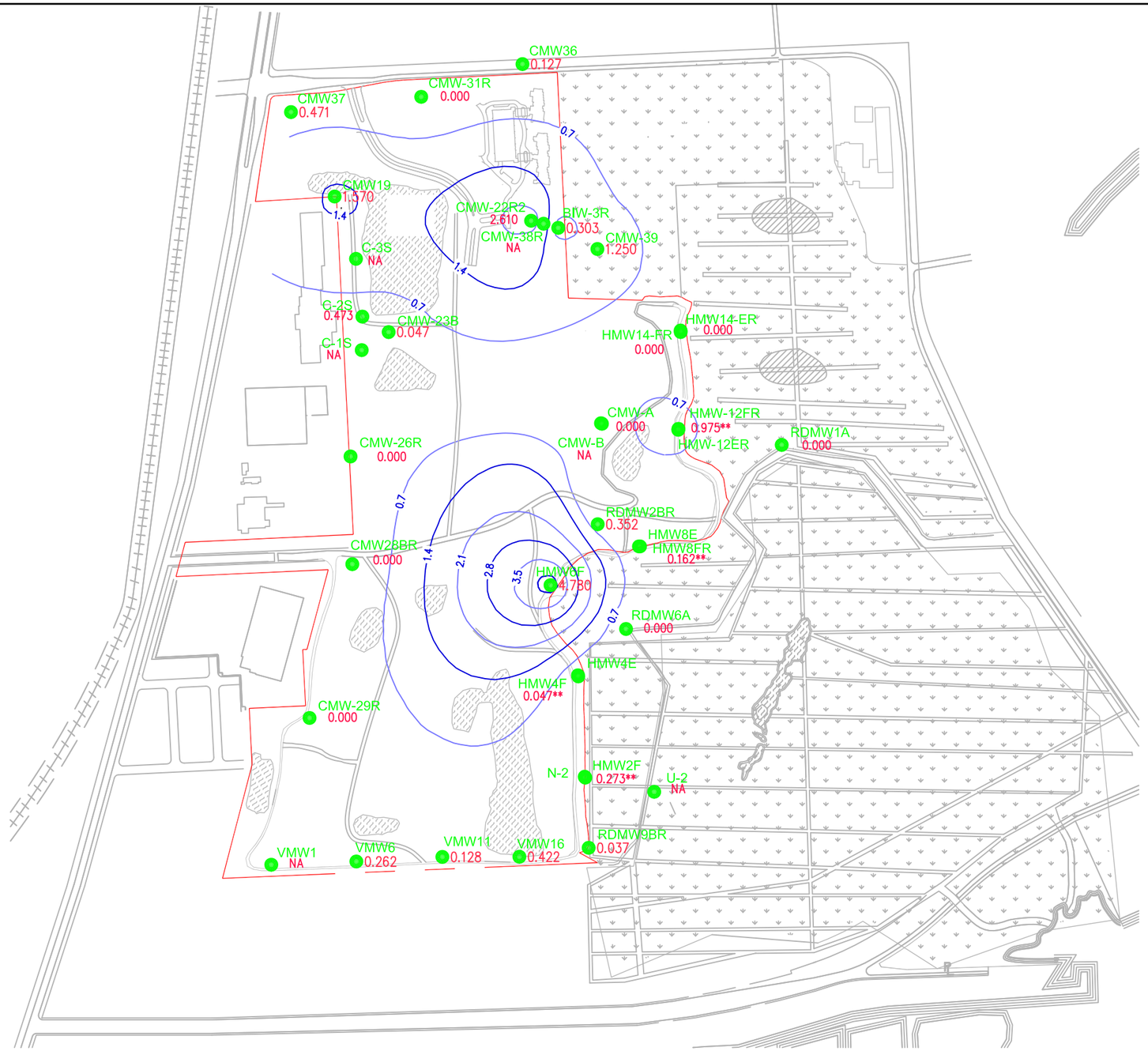
LEGEND

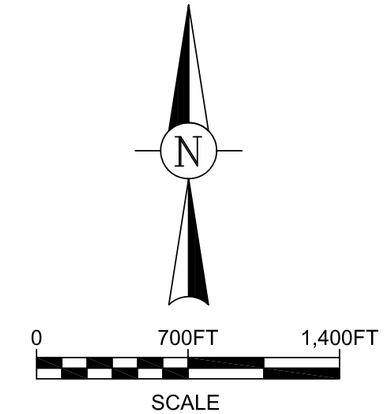
	PROPERTY LINE
	MOSQUITO DITCH
MW2AR	MONITORING WELL LOCATION (ZONE 1 <-10')
0.542	IRON CONCENTRATION, mg/L
0.7	IRON ISOCONCENTRATION CONTOUR
NA	DATA NOT COLLECTED

NOTE:

1. ZERO VALUES USED FOR CONTOUR DEVELOPMENT WHEN BDL WAS REPORTED

CHARLES W. DeSANTI RECEIVER FOR BISCAYNE LANDING 4500 PGA BOULEVARD, SUITE 400 PALM BEACH GARDENS, FL 33418	BISCAYNE LANDING (FORMER MUNISPORT LANDFILL) NORTH MIAMI, FLORIDA	IRON CONCENTRATIONS IN GROUNDWATER IN ZONE 1 (FEBRUARY 2011)
ES CONSULTANTS, INC. environmental & civil engineering	Project 2011000	APRIL 2011 Fig. 11





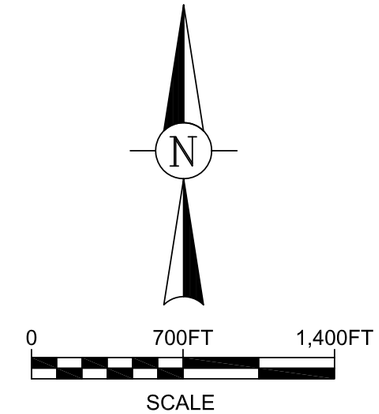
LEGEND

	PROPERTY LINE
	MOSQUITO DITCH
CMW2BR	MONITORING WELL LOCATION (ZONE 2 −10' TO −19.99' NGVD)
1.950	IRON CONCENTRATION, mg/L
0.7	IRON ISOCONCENTRATION CONTOUR
NA	DATA NOT COLLECTED
**	AVERAGE CONCENTRATION IN TWO ADJACENT WELLS USED FOR CONTOUR DEVELOPMENT

NOTE:

1. ZERO VALUES USED FOR CONTOUR DEVELOPMENT WHEN BDL WAS REPORTED

CHARLES W. DeSANTI RECEIVER FOR BISCAYNE LANDING 4500 PGA BOULEVARD, SUITE 400 PALM BEACH GARDENS, FL 33418	BISCAYNE LANDING (FORMER MUNISPORT LANDFILL) NORTH MIAMI, FLORIDA	IRON CONCENTRATIONS IN GROUNDWATER IN ZONE 2 (FEBRUARY 2011)
ES CONSULTANTS, INC. environmental & civil engineering	Project 2011000	APRIL 2011 Fig. 12



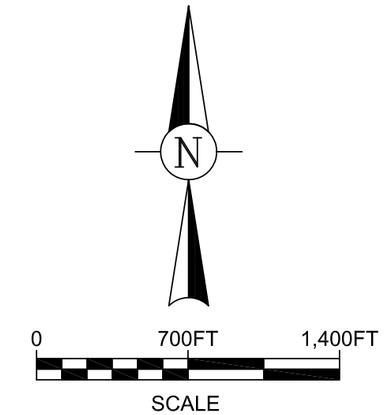
LEGEND

	PROPERTY LINE
	MOSQUITO DITCH
CMW2BR	MONITORING WELL LOCATION (ZONE 3 −20' TO −29.99' NGVD)
3.190	IRON CONCENTRATION, mg/L
0.7	IRON ISOCONCENTRATION CONTOUR
NA	DATA NOT COLLECTED

NOTE:

1. ZERO VALUES USED FOR CONTOUR DEVELOPMENT WHEN BDL WAS REPORTED

CHARLES W. DeSANTI RECEIVER FOR BISCAYNE LANDING 4500 PGA BOULEVARD, SUITE 400 PALM BEACH GARDENS, FL 33418	BISCAYNE LANDING (FORMER MUNISPORT LANDFILL) NORTH MIAMI, FLORIDA	IRON CONCENTRATIONS IN GROUNDWATER IN ZONE 3 (FEBRUARY 2011)
ES CONSULTANTS, INC. environmental & civil engineering	Project 2011000	APRIL 2011 Fig. 13



LEGEND

	PROPERTY LINE
	MOSQUITO DITCH
CMW2BR	MONITORING WELL LOCATION (ZONE 4 >–30' NGVD
0.105	IRON CONCENTRATION, mg/L
0.7	IRON ISOCONCENTRATION CONTOUR
NA	DATA NOT COLLECTED

NOTE:

1. ZERO VALUES USED FOR CONTOUR DEVELOPMENT WHEN BDL WAS REPORTED

CHARLES W. DeSANTI RECEIVER FOR BISCAYNE LANDING 4500 PGA BOULEVARD, SUITE 400 PALM BEACH GARDENS, FL 33418	BISCAYNE LANDING (FORMER MUNISPORT LANDFILL) NORTH MIAMI, FLORIDA	IRON CONCENTRATIONS IN GROUNDWATER IN ZONE 4 (FEBRUARY 2011)
ES CONSULTANTS, INC. environmental & civil engineering	Project 2011000	APRIL 2011 Fig. 14

Tables

ES CONSULTANTS, INC.
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Table 1. Monitoring Well Construction and Groundwater Elevations Summary - February 2011
Biscayne Landing (F.K.A. Munisport), North Miami, Florida

Well ID	Well Types	IRPAO Zone	TOC	DTW	WLE	Screen Elevation		Screen Depth (ft BG)	
			(ft)	(ft)	(ft NGVD)	Top	Bottom	Top	Bottom
ZONE 1									
BIW-1R	FDEP Closure Permit	1	5.18	4.58	0.6	-2.8	-7.8	6	16
CMW-23	FDEP Closure Permit	1	18.95	17.24	1.71	1.0	-4.1	15	20
CMW-28R	FDEP Closure Permit	1	17.69	16.31	1.38	1.7	-8.3	16	26
CMW-33	FDEP Closure Permit	1	6.24	4.71	1.53	1.2	-8.8	3	13
CMW-40R	FDEP Closure Permit	1	12.37	10.79	1.58	-0.6	-5.6	10	15
HMW-1D	FDEP Closure Permit	1	7.62	6.81	0.81	6.5	-6.5	1	14
HMW-2E	FDEP Closure Permit	1	8.96	5.9	3.06	4.1	-10.0	3	17
HMW-6E	FDEP Closure Permit	1	9.27	7.91	1.36	4.2	-9.8	4	18
LIT-3	FDEP Closure Permit	1	6.53	5.33	1.2	3.9	-6.1	3	13
MW-2AR	FDEP Closure Permit	1	10.69	9.39	1.3	-2.3	-7.3	10	15
N-1	DERM Phase II	1	7.90	NM	NA	4.9	-7.1	3	15
SCMW-2	FDEP Closure Permit	1	9.62	8.05	1.57	1.6	-3.4	10	15
U-1	DERM Phase II	1	4.11	NM	NA	3.1	-8.9	1	13
ZONE 2									
BIW-3R	FDEP Closure Permit	2	7.97	7.09	0.88	-8.0	-13.0	13	18
C1-S	DERM Phase II	2	15.77	14.16	1.61	-7.2	-12.2	20	25
C2-S	DERM Phase II	2	15.51	14.01	1.5	-7.5	-12.5	20	25
C3-S	DERM Phase II	2	14.08	12.60	1.48	-8.9	-13.9	20	25
CMW-19	DERM Phase II	2	12.66	11.71	0.95	-4.2	-14.2	14	24
CMW-22R2	FDEP Closure Permit	2	NA	NA	NA	NA	NA	20	25
CMW-23B	FDEP Closure Permit	2	18.57	16.82	1.75	-13.4	-18.4	30	35
CMW-26R	DERM Phase II	2	12.47	10.90	1.57	-10.5	-15.5	20	25
CMW-28BR	FDEP Closure Permit	2	17.44	16.06	1.38	-13.6	-18.6	31	36
CMW-29R	FDEP Closure Permit	2	19.75	18.95	0.8	-0.1	-10.8	18	28
CMW-31R	FDEP Closure Permit	2	9.87	8.39	1.48	-13.1	-18.1	20	25
CMW-36	FDEP Closure Permit	2	7.69	6.85	0.84	-14.3	-19.3	20	25
CMW-37	FDEP Closure Permit	2	9.65	8.07	1.58	-8.9	-13.9	20	25
CMW-38R	FDEP Closure Permit	2	8.96	7.99	0.97	-14.0	-19.0	20	25
CMW-39	FDEP Closure Permit	2	5.87	5.25	0.62	-14.1	-19.1	20	25
CMW-A	DERM Phase II	2	22.09	20.75	1.34	-5.9	-10.9	25	30
CMW-B	DERM Phase II	2	21.79	NM	NA	-12.2	-15.2	31	34
HMW-2F	FDEP Closure Permit	2	7.03	5.86	1.17	-13.5	-18.5	19	24
HMW-4E	FDEP Closure Permit	2	7.36	6.09	1.27	3.9	-10.1	3	17
HMW-4F	FDEP Closure Permit	2	7.32	6.03	1.29	-10.3	-15.3	19	24
HMW-6F	FDEP Closure Permit	2	9.30	7.94	1.36	-9.8	-14.8	19	24
HMW-8E	FDEP Closure Permit	2	7.17	5.82	1.35	3.3	-10.7	3	17
HMW-8FR	FDEP Closure Permit	2	7.01	5.38	1.63	-10.8	-15.8	18	23
HMW-12ER	FDEP Closure Permit	2	4.73	3.51	1.22	-5.2	-10.2	10	15
HMW-12FR	FDEP Closure Permit	2	4.53	3.33	1.2	-10.6	-15.6	11	16
HMW-14ER	FDEP Closure Permit	2	6.69	5.57	1.12	3.1	-10.9	3	17
HMW-14FR	FDEP Closure Permit	2	NA	8.60	NA	-10.5	-15.5	17	22
N-2	DERM Phase II	2	7.90	NM	NA	-12.1	-17.1	20	25
RDMW-1A	DERM Phase II	2	11.19	5.23	5.96	-4.7	-14.7	8	18
RDMW-2BR	FDEP Closure Permit	2	22.46	21.6	0.86	-14.5	-19.5	34	39
RDMW-6A	DERM Phase II	2	5.88	4.83	1.05	-4.1	-14.1	7	17
RDMW-9BR	DERM Phase II	2	8.66	8.04	0.62	-6.3	-16.3	12	22
U-2	DERM Phase II	2	4.11	NM	NA	-13.9	-18.9	18	23
VMW-1	FDEP Closure Permit	2	11.71	10.61	1.1	3.5	-11.5	4	19
VMW-6	FDEP Closure Permit	2	9.35	8.61	0.74	1.1	-13.9	8	23
VMW-11	FDEP Closure Permit	2	13.26	11.82	1.44	1.5	-13.5	9	24
VMW-16	FDEP Closure Permit	2	7.37	NM	NA	1.3	-13.7	6	21

Table 1. Monitoring Well Construction and Groundwater Elevations Summary - February 2011
Biscayne Landing (F.K.A. Munisport), North Miami, Florida

Well ID	Well Types	IRPAO Zone	TOC	DTW	WLE	Screen Elevation		Screen Depth (ft BG)	
			(ft)	(ft)	(ft NGVD)	Top	Bottom	Top	Bottom
			ZONE 3						
C1-I	DERM Phase II	3	16.68	15.07	1.61	-20.3	-25.3	34	39
C2-I	DERM Phase II	3	16.48	14.99	1.49	-20.5	-25.5	34	39
C3-I	DERM Phase II	3	14.08	12.52	1.56	-22.9	-27.9	34	39
CMW-1B	FDEP Closure Permit	3	12.58	11.42	1.16	-20.4	-25.4	30	35
CMW-2BR	FDEP Closure Permit	3	9.70	NM	NA	-12.3	-22.3	19	29
CMW-6B	FDEP Closure Permit	3	10.32	8.85	1.47	-22.7	-27.7	30	35
CMW-16B	FDEP Closure Permit	3	10.37	9.26	1.11	-22.6	-27.6	30	35
CMW-29BR	FDEP Closure Permit	3	20.59	19.80	0.79	-15.4	-20.4	33	38
CMW-31BR	FDEP Closure Permit	3	10.40	8.85	1.55	-21.9	-26.9	30	35
CMW-36B	FDEP Closure Permit	3	7.42	6.59	0.83	-22.7	-27.7	30	35
CMW-40BR	FDEP Closure Permit	3	12.70	11.1	1.6	-20.3	-25.3	30	35
CMW-41	DERM Phase II	3	6.89	6.27	0.62	-16.1	-21.1	20	25
CMW-E	DERM Phase II	3	22.68	21.66	1.02	-24.3	-29.3	44	49
N-3	DERM Phase II	3	7.90	NM	NA	-22.1	-27.1	30	35
Q3	DERM Phase II	3	6.51	NM	NA	-22.5	-26.5	29	33
RDMW-1B	DERM Phase II	3	12.46	6.51	5.95	2.5	-24.5	19	29
RDMW-6B	DERM Phase II	3	5.67	4.64	1.03	-18.3	-28.3	21	31
RDMW-9AR	FDEP Closure Permit	3	9.60	8.92	0.68	-15.0	-20.0	18	23
SWI-1	DERM Phase II	3	10.90	9.52	1.38	-16.2	-26.2	24	34
SWI-3	DERM Phase II	3	11.09	9.80	1.29	-17.6	-27.6	25	35
			ZONE 4						
C1-D	DERM Phase II	4	16.20	14.81	1.39	-41.8	-46.8	55	60
C2-D	DERM Phase II	4	16.82	15.49	1.33	-40.2	-45.2	54	59
C3-D	DERM Phase II	4	14.39	13.07	1.32	-39.6	-44.6	54	59
CMW-42	DERM Phase II	4	7.13	6.87	0.26	-39.9	-44.9	44	49
CMW-C	DERM Phase II	4	5.73	5.16	0.57	-39.2	-44.2	44	49
CMW-D	DERM Phase II	4	12.58	6.86	5.72	-37.4	-42.4	45	50
CMW-F	DERM Phase II	4	10.94	10.11	0.83	-34.1	-39.1	42	47
GW-2	DERM Phase II	4	6.99	5.81	1.18	-29.5	-34.5	37	42
GW-4	FDEP Closure Permit	4	10.87	9.62	1.25	-27.6	-32.6	37	42
MW-4B	DERM Phase II	4	7.08	7.30	-0.22	-33.0	-43.0	37	47
N-4	DERM Phase II	4	7.90	NM	NA	-37.1	-47.1	45	55
Q-4	DERM Phase II	4	6.51	NM	NA	-36.5	-46.5	43	53
SWI-6	FDEP Closure Permit	4	10.91	10.03	0.88	3.6	-31.4	5	40

Notes:
1. IRPAO = Intermediate Remedial Plan Approval Order
2. TOC = Top of casing. Elevations for TOC and screen in feet NGVD (National Geodetic Vertical Datum)
3. ft BG = feet Below grade, approximate
4. ft = feet
5. DTW = Depth to water, in feet below TOC
6. WLE = Water level elevation, in feet NGVD
7. NM = Not measured; NA= Not available
8. IRPAO ZONES: 1 = <-10 FT NGVD; 2 = -10 TO -19.99 FT NGVD; 3 = -20 -29.99 FT NGVD; 4 = >-30 FT NGVD
9. DTW collected within one tidal cycle on 2/23/2011

Table 2. Surface Water Field Parameters - February 2011
Biscayne Landing (F.K.A. Munisport), North Miami, Florida

WELL ID	SAMPLE DATE	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temperature (°C)	Turbidity (NTU)	ORP (mV)
AM-1	2/8/2011	1.62	6.99	947	19.4	4.74	-1.3
AM-2	2/7/2011	1.17	7.39	442	22.9	2.54	93.5
B-1D	2/14/2011	6.23	8.35	56700	20.2	5.22	133
B-1S	2/14/2011	6.26	8.65	56300	20.8	3.84	121
CB-1	2/1/2011	4.7	7.51	53600	20.5	2.03	113
CB-2	2/1/2011	4.63	7.44	53900	20.5	1.81	120.1
D-1	2/4/2011	1.9	6.47	831	20.7	2.91	-57.5
D-2	2/4/2011	2.2	6.62	43600	20.5	5.6	-257
D-3	2/4/2011	0.87	5.87	442	20.7	7.23	-110
D-4	2/4/2011	2.64	6.98	45700	21.3	9.24	-11.4
D-5	2/4/2011	0.35	5.81	9100	22.5	24	-255
D-6	2/4/2011	2.71	7.34	34700	22.7	12.5	-36.7
D-7	2/4/2011	0.22	6.13	6270	22	15.4	-334
D-8	2/1/2011	2.32	6.85	43600	20.7	1.97	-163.1
East Lake (15')	2/3/2011	1.41	7.23	2500	18.2	9.85	-254
East Lake (0-2')	2/3/2011	8.65	7.84	2450	22.2	9.58	-102
MPL-1	2/7/2011	1.25	7.71	50500	22.8	3.17	-1.1
Northwest Lake (15')	2/2/2011	5.79	7.09	724	17.8	11.6	-79.5
Northwest Lake (0-2')	2/2/2011	8.76	7.96	716	21.2	7.55	30.8
SE Lake (15')	2/3/2011	0.88	6.29	2180	17.9	7.23	-129
SE Lake (0-2')	2/3/2011	7.1	7.43	2120	23.2	6.72	-15.5
SI-1D	2/14/2011	5.88	8.77	55100	20.9	5.32	108
SI-1S	2/14/2011	6.26	8.77	56600	20.8	3.89	108
Southwest Lake (15')	2/2/2011	0.56	6.66	898	17.9	3.69	-159.6
Southwest Lake (0-2')	2/2/2011	5.59	7.13	889	21.7	1.02	-8.1
SW-14	2/3/2011	0.55	6.83	49500	21.2	32.4	-207
SW-2A	1/31/2011	2.7	7.27	2420	16.5	4.57	-119.7
SW-2B	1/31/2011	7.73	8.02	329	21.6	2.84	-125
SW-8	2/7/2011	6.32	7.41	1190	25.3	48.4	-223
SWO-1	1/31/2011	1.35	7.06	46600	17.8	3.04	-39.5

Notes:
1. NR = Not Recorded
2. °C = Degrees Celcius
3. µS/cm = Micro Siemens per Centimeter
4. NTU = Nephelometric Turbidity Units
5. ORP = Oxidation Reduction Potential
6. mV = Millivolts
7. mg/L = Milligrams per Liter

Table 3. Groundwater Field Parameters - February 2011
Biscayne Landing (F.K.A. Munisport), North Miami, Florida

WELL ID	SAMPLE DATE	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temperature (°C)	Turbidity (NTU)	ORP (mV)
BIW-1R	2/10/2011	1.31	6.66	2240	23.1	5.06	16.8
BIW-3R	2/11/2011	0.36	6.80	1590	25.0	1.89	158.3
C1-D	1/27/2011	0.60	6.78	6370	26.3	1.69	-99.6
C1-I	1/27/2011	0.56	6.44	2090	26.0	0.94	-138.7
C1-S	1/27/2011	0.45	6.50	1330	26.0	3.99	-172.3
C2-D	1/27/2011	0.85	6.94	8370	25.9	1.12	-129.5
C2-I	1/27/2011	0.59	6.89	1670	26.0	0.14	-145.7
C2-S	1/27/2011	0.44	6.70	1590	26.3	1.04	-140.9
C3-D	1/27/2011	0.43	7.41	13800	26.3	2.03	-162.1
C3-I	1/27/2011	0.51	6.78	1250	26.8	1.07	-94.8
C3-S	1/27/2011	0.42	6.64	1960	26.9	2.96	-116.7
CMW-16B	2/1/2011	0.38	6.32	9240	22.6	2.25	-299.9
CMW-19	1/26/2011	3.75	6.90	880	26.4	2.06	-147.9
CMW-1B	1/26/2011	1.09	7.13	2050	26.1	1.48	21.6
CMW-2BR	1/26/2011	0.76	6.83	1750	25.0	2.12	29.7
CMW-22R2	2/11/2011	0.66	7.04	683	25.2	7.33	-11.1
CMW-23	1/27/2011	0.45	6.50	1580	26.0	1.82	-212.2
CMW-23B	1/27/2011	1.20	6.63	1290	26.3	5.41	-204.3
CMW-26R	1/28/2011	0.51	6.88	824	26.3	3.39	-226.9
CMW-28BR	1/28/2011	0.40	6.80	2170	27.1	2.97	-233.9
CMW-28R	1/28/2011	0.79	6.59	1130	26.7	1.12	-99.5
CMW-29BR	1/28/2011	0.75	6.64	725	25.9	1.89	-206.1
CMW-29R	1/28/2011	0.78	6.51	872	25.9	1.42	-225.9
CMW-31BR	1/27/2011	0.44	7.18	980	24.9	0.94	0.4
CMW-31R	1/27/2011	0.83	6.85	990	26.2	1.69	-133.6
CMW-33	1/26/2011	2.01	7.38	499	25.5	2.89	-108.7
CMW-36	1/26/2011	1.18	7.07	1150	26.0	0.92	-36.7
CMW-36B	1/26/2011	0.73	6.84	1070	26.3	0.42	-85.9
CMW-37	1/26/2011	1.79	7.27	589	26.7	1.61	-101.9
CMW-38R	2/11/2011	0.64	7.15	1100	26.0	3.14	-50.6
CMW-39	2/10/2011	1.53	6.90	2510	24.0	3.78	-13.9
CMW-40BR	1/28/2011	0.68	7.72	1440	26.6	1.15	-208.9
CMW-40R	1/28/2011	0.45	6.67	1070	26.9	1.94	-248.1
CMW-41	2/11/2011	0.31	7.10	2210	23.6	0.64	-229.4
CMW-42	2/11/2011	0.20	6.76	28300	24.0	2.50	-105.5
CMW-6B	1/31/2011	0.50	6.75	1220	25.9	0.00	-70.8
CMW-A	2/10/2011	1.19	6.67	2630	28.4	4.87	-187.0
CMW-C	2/7/2011	1.36	6.52	37100	25.7	0.72	-97.0
CMW-D	2/8/2011	0.45	6.24	37800	23.4	2.56	-135.1
CMW-E	2/10/2011	1.35	6.76	8480	28.1	2.81	-181.9
CMW-F	2/10/2011	2.63	6.23	32800	25.1	1.21	-201.3
GW-2	2/10/2011	1.42	6.55	17000	25.0	0.00	-113.7
GW-4	2/8/2011	0.46	6.30	2060	26.4	0.93	-131.3
HMW-12ER	2/11/2011	0.13	6.90	2890	26.9	10.10	-231.0
HMW-12FR	2/11/2011	0.15	6.79	3490	26.9	3.27	-210.4
HMW-14E	2/10/2011	1.07	6.74	2460	25.2	0.16	-171.6
HMW-14FR	2/10/2011	1.21	6.46	2600	25.3	14.00	-276.6
HMW-1D	2/2/2011	0.21	6.21	5668	25.1	0.76	-273.2
HMW-2E	2/3/2011	1.01	6.55	2290	25.4	2.37	-234.2
HMW-2F	2/8/2011	0.48	6.29	4060	26.1	2.32	-273.7
HMW-4E	2/7/2011	0.61	6.85	2340	26.2	0.43	-230.6
HMW-4F	2/8/2011	0.77	6.34	3210	26.3	1.88	-264.4
HMW-6E	2/9/2011	1.42	6.61	1890	26.9	1.09	-134.1

Table 3. Groundwater Field Parameters - February 2011
Biscayne Landing (F.K.A. Munisport), North Miami, Florida

WELL ID	SAMPLE DATE	Dissolved Oxygen (mg/L)	pH	Specific Conductivity (µS/cm)	Temperature (°C)	Turbidity (NTU)	ORP (mV)
HMW-6F	2/9/2011	1.34	6.57	1710	26.8	5.45	-68.8
HMW-8E	2/9/2011	1.29	6.99	2070	26.3	1.60	115.6
HMW-8FR	2/11/2011	0.70	6.97	2230	25.2	7.11	-76.9
LIT-3	2/9/2011	1.76	6.46	1490	24.8	5.06	55.9
MW-2AR	1/26/2011	0.83	6.90	780	24.3	0.22	56.7
MW-4B	2/1/2011	0.67	6.49	1450	26.1	3.36	214.8
N-1	2/2/2011	1.30	6.53	1990	25.3	0.94	11.0
N-2	2/2/2011	0.31	6.57	4980	25.9	1.64	-269.2
N-3	2/2/2011	0.54	6.70	16700	26.2	0.89	-262.8
N-4	2/2/2011	0.38	6.56	38500	25.9	0.12	-96.6
Q-3	2/3/2011	1.01	6.45	7360	25.9	0.76	-200.1
Q-4	2/3/2011	0.88	6.16	36700	25.9	1.12	-122.5
RDMW-1A	2/8/2011	1.43	6.32	4140	23.3	3.11	-291.9
RDMW-1B	2/8/2011	0.57	6.40	6260	23.4	2.11	-292.9
RDMW-2BR	2/11/2011	0.24	6.84	2950	28.0	3.90	142.9
RDMW-6A	2/9/2011	2.60	6.75	3070	25.0	0.63	-195.8
RDMW-6B	2/9/2011	1.46	6.87	4620	25.5	0.89	-5.0
RDMW-9AR	2/3/2011	1.11	6.47	1770	25.7	0.78	-255.5
RDMW-9BR	2/2/2011	0.95	6.58	4060	25.8	0.52	-184.8
SCMW-2	1/26/2011	1.38	6.77	1150	26.5	1.12	-138.8
SWI-1	1/31/2011	0.57	6.80	1270	26.1	0.09	-91.9
SWI-3	2/10/2011	1.40	6.61	2990	28.1	3.95	-183.6
SWI-6	2/9/2011	1.78	6.59	2000	25.4	0.33	-69.8
U-1	2/3/2011	0.90	6.48	11200	24.5	1.29	-301.0
U-2	2/3/2011	0.52	6.53	11300	25.0	0.89	-300.5
VMW-1	1/31/2011	1.26	6.29	1900	25.1	1.11	-18.6
VMW-11	2/1/2011	0.51	6.37	1810	26.3	1.35	37.7
VMW-16	2/1/2011	0.88	6.65	2410	24.0	15.20	-219.1
VMW-6	1/31/2011	0.36	6.85	1330	25.5	0.96	-142.2

Notes:
1. NR = Not Recorded
2. °C = Degrees Celcius
3. µS/cm = Micro Siemens per Centimeter
4. NTU = Nephelometric Turbidity Units
5. ORP = Oxidation Reduction Potential
6. mV = Millivolts
7. mg/L = Milligrams per Liter

Table 4. Summary of Exceedances for Surface Water Analytical Results - February 2011
Biscayne Landing (F.K.A. Munisport), North Miami, Florida

Sample ID	Date	Parameter	Result	Units	Qualifier	MDL
East Lake 15'	2/3/2011	Ammonia (as N)	13.8	mg/L		1
SE Lake 15'	2/3/2011	Ammonia (as N)	7.03	mg/L	J	0.2
SE Lake Surface	2/3/2011	Ammonia (as N)	5.54	mg/L		0.2
SWO-1	1/31/2011	Ammonia (as N)	5.43	mg/L		1
D-8	2/1/2011	Ammonia (as N)	5.29	mg/L		0.2
D-6	2/4/2011	Ammonia (as N)	3.9	mg/L		1
SW-14	2/3/2011	Ammonia (as N)	3.0	mg/L		0.2
East Lake Surface	2/3/2011	Ammonia (as N)	2.28	mg/L		0.2
D-7	2/4/2011	Ammonia (as N)	1.82	mg/L		0.2
AM-1	2/8/2011	Ammonia (as N)	1.23	mg/L		0.2
NW Lake 15'	2/2/2011	Ammonia (as N)	1.22	mg/L		0.2
MPL-1	2/7/2011	Ammonia (as N)	1.16	mg/L		0.2
D-5	2/4/2011	Ammonia (as N)	1.05	mg/L		0.2
NW Lake Surface	2/2/2011	Ammonia (as N)	0.745	mg/L		0.2
D-8	2/1/2011	COD	1980	mg/L		200
CB-2	2/1/2011	COD	1400	mg/L		200
SW-14	2/3/2011	COD	1340	mg/L		200
SI-1 Surface	2/14/2011	COD	1320	mg/L		400
D-4	2/4/2011	COD	1310	mg/L		200
SWO-1	1/31/2011	COD	1280	mg/L		200
SI-1 (15')	2/14/2011	COD	1250	mg/L		400
B-1 (15')	2/14/2011	COD	1220	mg/L		400
D-2	2/4/2011	COD	1210	mg/L		200
B-1 Surface	2/14/2011	COD	1120	mg/L		400
CB-1	2/1/2011	COD	1090	mg/L		200
D-6	2/4/2011	COD	704	mg/L		100
MPL-1	2/7/2011	COD	616	mg/L		100
D-7	2/4/2011	COD	392	mg/L		20
D-5	2/4/2011	COD	317	mg/L		20
D-3	2/4/2011	COD	213	mg/L		20
SW-2A	1/31/2011	COD	179	mg/L		20
SW-8	2/7/2011	COD	143	mg/L		20
D-3	2/4/2011	Fecal Coliform	13000	cfu/100ml		100
D-1	2/4/2011	Fecal Coliform	8500	cfu/100ml		100
AM-2	2/7/2011	Fecal Coliform	5800	cfu/100ml		100
D-7	2/4/2011	Fecal Coliform	5100	cfu/100ml		100
AM-1	2/8/2011	Fecal Coliform	4900	cfu/100ml		100
SWO-1	1/31/2011	Fecal Coliform	2790	cfu/100ml		10

Table 4. Summary of Exceedances for Surface Water Analytical Results - February 2011
Biscayne Landing (F.K.A. Munisport), North Miami, Florida

Sample ID	Date	Parameter	Result	Units	Qualifier	MDL
D-8	2/1/2011	Fecal Coliform	1670	cfu/100ml		10
SW-8	2/7/2011	Fecal Coliform	900	cfu/100ml		10
SW-2A	1/31/2011	Fecal Coliform	860	cfu/100ml		10
SW-14	2/3/2011	Fecal Coliform	670	cfu/100ml		10
East Lake Surface	2/3/2011	Fecal Coliform	572	cfu/100ml		4
SW Lake Surface	2/2/2011	Fecal Coliform	520	cfu/100ml		10
SE Lake Surface	2/3/2011	Fecal Coliform	352	cfu/100ml		2
East Lake 15'	2/3/2011	Fecal Coliform	246	cfu/100ml		2
D-6	2/4/2011	Fecal Coliform	216	cfu/100ml		4
D-2	2/4/2011	Fecal Coliform	160	cfu/100ml		2
CB-1	2/1/2011	Fecal Coliform	116	cfu/100ml		2
NW Lake 15'	2/2/2011	Fecal Coliform	106	cfu/100ml		2
MPL-1	2/7/2011	Fecal Coliform	106	cfu/100ml		2
D-5	2/4/2011	Fecal Coliform	100	cfu/100ml		100
SW-2B	1/31/2011	Fecal Coliform	94	cfu/100ml		2
CB-2	2/1/2011	Fecal Coliform	86	cfu/100ml		2
NW Lake Surface	2/2/2011	Fecal Coliform	68	cfu/100ml		2
SW Lake 15'	2/2/2011	Fecal Coliform	40	cfu/100ml		2
East Lake Surface	2/3/2011	Nitrate as N	0.533	mg/L		0.25
NW Lake Surface	2/2/2011	Nitrate as N	0.123	mg/L		0.05

Notes:
1. mg/L = Milligrams per Liter equivalent to parts per million (ppm)
2. ug/L = Micrograms per Liter equivalent to parts per billion (ppb)
3. MDL = Method Detection Limit
4. cfu/100mL = Colony forming units per 100 milliliters
5. COD = Chemical Oxygen Demand
6. Results compared to CTLs from Miami Dade Section 24-44(2)(f)(v)1
7. J = (EPA) - Estimated value below the lowest calibration point

Table 5. Summary of Exceedances for Groundwater Analytical Results - February 2011
Biscayne Landing (F.K.A. Munisport), North Miami, Florida

Sample ID	Date	Parameter	Result	Qualifier	Units	MDL
N-1	2/2/2011	Arsenic	12.1		ug/L	10
CMW-19	1/26/2011	Arsenic	11.7		ug/L	10
N-4	2/2/2011	Chloride	14,600		mg/L	25
CMW-C	2/7/2011	Chloride	13,600		mg/L	25
CMW-D	2/8/2011	Chloride	13,400	D	mg/L	25
CMW-F	2/10/2011	Chloride	11,700		mg/L	25
CMW-42	2/11/2011	Chloride	9,990	D	mg/L	25
N-3	2/2/2011	Chloride	5,150		mg/L	12.5
CMW-E	2/10/2011	Chloride	2,720		mg/L	5
CMW-16B	2/1/2011	Chloride	2,540		mg/L	5
C2-D	1/27/2011	Chloride	2,380		mg/L	2.5
RDMW-1B	2/8/2011	Chloride	1,630		mg/L	2.5
HMW-1D	2/2/2011	Chloride	1,360		mg/L	2.5
N-2	2/2/2011	Chloride	1,110	J	mg/L	2.5
RDMW-6B	2/9/2011	Chloride	1,070	J	mg/L	2.5
HMW-2F	2/8/2011	Chloride	788		mg/L	2.5
HMW-4F	2/8/2011	Chloride	603		mg/L	2.5
HMW-12FR	2/11/2011	Chloride	574		mg/L	2.5
RDMW-6A	2/9/2011	Chloride	549		mg/L	2.5
HMW-12ER	2/11/2011	Chloride	483		mg/L	2.5
CMW-39	2/10/2011	Chloride	451		mg/L	2.5
VMW-16	2/1/2011	Chloride	395		mg/L	2.5
HMW-14E	2/10/2011	Chloride	384		mg/L	2.5
HMW-14FR	2/10/2011	Chloride	383		mg/L	2.5
HMW-2E	2/3/2011	Chloride	367		mg/L	2.5
HMW-8E	2/9/2011	Chloride	365		mg/L	2.5
CMW-40BR	1/28/2011	Chloride	358		mg/L	0.5
BIW-1R	2/10/2011	Chloride	351		mg/L	2.5
RDMW-2BR	2/11/2011	Chloride	310		mg/L	2.5
CMW-A	2/10/2011	Chloride	308		mg/L	2.5
N-1	2/2/2011	Chloride	284		mg/L	2.5
CMW-2BR	1/26/2011	Chloride	268	J	mg/L	0.5
HMW-4E	2/7/2011	Chloride	257		mg/L	2.5
SCMW-2	1/26/2011	Iron	14,600		ug/L	200
SWI-6	2/9/2011	Iron	5,400		ug/L	200
HMW-6F	2/9/2011	Iron	4,780		ug/L	200
C2-D	1/27/2011	Iron	4,330		ug/L	200
CMW-2BR	1/26/2011	Iron	3,190		ug/L	200
CMW-22R2	2/11/2011	Iron	2,610		ug/L	200
HMW-12ER	2/11/2011	Iron	1,950		ug/L	200
CMW-19	1/26/2011	Iron	1,570		ug/L	200
N-4	2/2/2011	Iron	1,470		ug/L	200
CMW-39	2/10/2011	Iron	1,250		ug/L	200
LIT-3	2/9/2011	Iron	936		ug/L	200
CMW-28R	1/28/2011	Iron	831		ug/L	200
CMW-1B	1/26/2011	Iron	768		ug/L	200
HMW-2F	2/8/2011	Iron	546		ug/L	200
BIW-1R	2/10/2011	Iron	542		ug/L	200
N-3	2/2/2011	Iron	541		ug/L	200

Table 5. Summary of Exceedances for Groundwater Analytical Results - February 2011
Biscayne Landing (F.K.A. Munisport), North Miami, Florida

Sample ID	Date	Parameter	Result	Qualifier	Units	MDL
C2-S	1/27/2011	Iron	473		ug/L	200
CMW-37	1/26/2011	Iron	471		ug/L	200
VMW-16	2/1/2011	Iron	422		ug/L	200
N-1	2/2/2011	Iron	410		ug/L	200
RDMW-2BR	2/11/2011	Iron	352		ug/L	200
BIW-3R	2/11/2011	Iron	303		ug/L	200
HMW-6F	2/9/2011	Nitrogen, Ammonia (as N)	96		mg/L	5
RDMW-2BR	2/11/2011	Nitrogen, Ammonia (as N)	69.6		mg/L	2
HMW-8E	2/9/2011	Nitrogen, Ammonia (as N)	58.9		mg/L	2
HMW-12FR	2/11/2011	Nitrogen, Ammonia (as N)	58.6		mg/L	2
SWI-3	2/10/2011	Nitrogen, Ammonia (as N)	57.1		mg/L	2
CMW-A	2/10/2011	Nitrogen, Ammonia (as N)	47.4		mg/L	2
HMW-12ER	2/11/2011	Nitrogen, Ammonia (as N)	44.2		mg/L	1
HMW-8FR	2/11/2011	Nitrogen, Ammonia (as N)	43.3		mg/L	1
N-2	2/2/2011	Nitrogen, Ammonia (as N)	39.8		mg/L	1
CMW-16B	2/1/2011	Nitrogen, Ammonia (as N)	38.4		mg/L	1
HMW-4E	2/7/2011	Nitrogen, Ammonia (as N)	36.4		mg/L	1
Q-3	2/3/2011	Nitrogen, Ammonia (as N)	36.4		mg/L	1
HMW-2F	2/8/2011	Nitrogen, Ammonia (as N)	35.9		mg/L	1
N-3	2/2/2011	Nitrogen, Ammonia (as N)	35.1		mg/L	1
CMW-41	2/11/2011	Nitrogen, Ammonia (as N)	34.3		mg/L	1
C3-S	1/27/2011	Nitrogen, Ammonia (as N)	33.9		mg/L	1
BIW-1R	2/10/2011	Nitrogen, Ammonia (as N)	33.1	J	mg/L	1
RDMW-6A	2/9/2011	Nitrogen, Ammonia (as N)	32.7		mg/L	1
U-1	2/3/2011	Nitrogen, Ammonia (as N)	31.4	J	mg/L	1
U-2	2/3/2011	Nitrogen, Ammonia (as N)	30.4		mg/L	1
CMW-23	1/27/2011	Nitrogen, Ammonia (as N)	30.3		mg/L	1
HMW-4F	2/8/2011	Nitrogen, Ammonia (as N)	30.1		mg/L	1
CMW-39	2/10/2011	Nitrogen, Ammonia (as N)	30.1		mg/L	1
HMW-6E	2/9/2011	Nitrogen, Ammonia (as N)	29.5		mg/L	1
C2-S	1/27/2011	Nitrogen, Ammonia (as N)	27.7		mg/L	1
CMW-E	2/10/2011	Nitrogen, Ammonia (as N)	27.2		mg/L	1
HMW-14E	2/10/2011	Nitrogen, Ammonia (as N)	27.2		mg/L	1
RDMW-6B	2/9/2011	Nitrogen, Ammonia (as N)	26.7	J	mg/L	1
GW-4	2/8/2011	Nitrogen, Ammonia (as N)	26.2		mg/L	1
HMW-14FR	2/10/2011	Nitrogen, Ammonia (as N)	25.8		mg/L	1
HMW-1D	2/2/2011	Nitrogen, Ammonia (as N)	24.8		mg/L	1
C1-I	1/27/2011	Nitrogen, Ammonia (as N)	24.2		mg/L	1
SWI-6	2/9/2011	Nitrogen, Ammonia (as N)	24.2		mg/L	1
CMW-2BR	1/26/2011	Nitrogen, Ammonia (as N)	23.3		mg/L	1
RDMW-9AR	2/3/2011	Nitrogen, Ammonia (as N)	23.1		mg/L	1
SCMW-2	1/26/2011	Nitrogen, Ammonia (as N)	22.2		mg/L	1
Q-4	2/3/2011	Nitrogen, Ammonia (as N)	19.8		mg/L	1
BIW-3R	2/11/2011	Nitrogen, Ammonia (as N)	19.6		mg/L	1
CMW-23B	1/27/2011	Nitrogen, Ammonia (as N)	19.3		mg/L	1
N-4	2/2/2011	Nitrogen, Ammonia (as N)	19.3		mg/L	1
GW-2	2/10/2011	Nitrogen, Ammonia (as N)	17.9		mg/L	1
VMW-11	2/1/2011	Nitrogen, Ammonia (as N)	15.7		mg/L	0.4
CMW-C	2/7/2011	Nitrogen, Ammonia (as N)	15.1		mg/L	1

Table 5. Summary of Exceedances for Groundwater Analytical Results - February 2011
Biscayne Landing (F.K.A. Munisport), North Miami, Florida

Sample ID	Date	Parameter	Result	Qualifier	Units	MDL
C2-I	1/27/2011	Nitrogen, Ammonia (as N)	14.9		mg/L	1
C3-I	1/27/2011	Nitrogen, Ammonia (as N)	14.9	J	mg/L	1
CMW-38R	2/11/2011	Nitrogen, Ammonia (as N)	14.5		mg/L	1
C1-S	1/27/2011	Nitrogen, Ammonia (as N)	14.2		mg/L	1
HMW-2E	2/3/2011	Nitrogen, Ammonia (as N)	10.7		mg/L	1
CMW-31R	1/27/2011	Nitrogen, Ammonia (as N)	9.68		mg/L	0.2
CMW-36	1/26/2011	Nitrogen, Ammonia (as N)	9.6		mg/L	0.2
VMW-16	2/1/2011	Nitrogen, Ammonia (as N)	9.53		mg/L	0.2
SWI-1	1/31/2011	Nitrogen, Ammonia (as N)	9.11		mg/L	0.2
CMW-36B	1/26/2011	Nitrogen, Ammonia (as N)	8.97		mg/L	0.2
CMW-1B	1/26/2011	Nitrogen, Ammonia (as N)	8.72		mg/L	0.2
CMW-40R	1/28/2011	Nitrogen, Ammonia (as N)	7.86		mg/L	0.2
MW-4B	2/1/2011	Nitrogen, Ammonia (as N)	7.75	J	mg/L	0.2
RDMW-9BR	2/2/2011	Nitrogen, Ammonia (as N)	7.32		mg/L	0.2
CMW-28R	1/28/2011	Nitrogen, Ammonia (as N)	7.23		mg/L	0.2
CMW-6B	1/31/2011	Nitrogen, Ammonia (as N)	7.23		mg/L	0.2
VMW-6	1/31/2011	Nitrogen, Ammonia (as N)	7	J	mg/L	0.2
CMW-D	2/8/2011	Nitrogen, Ammonia (as N)	6.95		mg/L	0.2
CMW-31BR	1/27/2011	Nitrogen, Ammonia (as N)	6.54		mg/L	0.2
CMW-29BR	1/28/2011	Nitrogen, Ammonia (as N)	6.04		mg/L	0.2
N-1	2/2/2011	Nitrogen, Ammonia (as N)	5.77		mg/L	0.2
C2-D	1/27/2011	Nitrogen, Ammonia (as N)	5.06		mg/L	0.2
C1-D	1/27/2011	Nitrogen, Ammonia (as N)	4.99	J	mg/L	0.2
CMW-22R2	2/11/2011	Nitrogen, Ammonia (as N)	4.2		mg/L	0.2
CMW-19	1/26/2011	Nitrogen, Ammonia (as N)	4.01		mg/L	0.2
CMW-29R	1/28/2011	Nitrogen, Ammonia (as N)	3.94		mg/L	0.2
CMW-28BR	1/28/2011	Nitrogen, Ammonia (as N)	3.89	J	mg/L	0.2
CMW-26R	1/28/2011	Nitrogen, Ammonia (as N)	3.56		mg/L	0.2
CMW-42	2/11/2011	Nitrogen, Ammonia (as N)	3.18		mg/L	0.2
LIT-3	2/9/2011	Nitrogen, Ammonia (as N)	3.16		mg/L	0.2
CMW-D	2/8/2011	Sodium	9,330		mg/L	25
CMW-C	2/7/2011	Sodium	7,370		mg/L	25
N-4	2/2/2011	Sodium	6,880		mg/L	5
CMW-42	2/11/2011	Sodium	6,470		mg/L	25
CMW-F	2/10/2011	Sodium	4,830	J	mg/L	2.5
GW-2	2/10/2011	Sodium	3,230		mg/L	25
N-3	2/2/2011	Sodium	2,800		mg/L	5
CMW-E	2/10/2011	Sodium	1,770		mg/L	5
CMW-16B	2/1/2011	Sodium	1,340	V	mg/L	5
C2-D	1/27/2011	Sodium	1,310		mg/L	5
RDMW-1B	2/8/2011	Sodium	886		mg/L	0.5
HMW-1D	2/2/2011	Sodium	716		mg/L	0.5
RDMW-6B	2/9/2011	Sodium	548		mg/L	0.5
N-2	2/2/2011	Sodium	542		mg/L	0.5
RDMW-1A	2/8/2011	Sodium	509		mg/L	0.5
HMW-2F	2/8/2011	Sodium	405		mg/L	0.5
HMW-12FR	2/11/2011	Sodium	387		mg/L	5
HMW-4F	2/8/2011	Sodium	316		mg/L	0.5
CMW-39	2/10/2011	Sodium	311		mg/L	5

Table 5. Summary of Exceedances for Groundwater Analytical Results - February 2011
Biscayne Landing (F.K.A. Munisport), North Miami, Florida

Sample ID	Date	Parameter	Result	Qualifier	Units	MDL
RDMW-6A	2/9/2011	Sodium	307		mg/L	0.5
HMW-12ER	2/11/2011	Sodium	305		mg/L	5
HMW-14E	2/10/2011	Sodium	246		mg/L	0.5
CMW-28BR	1/28/2011	Sodium	244		mg/L	0.5
HMW-2E	2/3/2011	Sodium	244		mg/L	0.5
HMW-14FR	2/10/2011	Sodium	242		mg/L	0.5
BIW-1R	2/10/2011	Sodium	224		mg/L	0.5
HMW-8E	2/9/2011	Sodium	216		mg/L	0.5
VMW-16	2/1/2011	Sodium	216	V	mg/L	0.5
CMW-A	2/10/2011	Sodium	199		mg/L	0.5
RDMW-2BR	2/11/2011	Sodium	190		mg/L	0.5
CMW-2BR	1/26/2011	Sodium	189		mg/L	0.5
CMW-40BR	1/28/2011	Sodium	183		mg/L	0.5
GW-2	2/10/2011	Thallium	2.45	VI	ug/L	10
CMW-C	2/7/2011	Total dissolved solids	24,800		mg/L	5
N-4	2/2/2011	Total dissolved solids	22,900		mg/L	5
Q-4	2/3/2011	Total dissolved solids	22,500		mg/L	5
CMW-D	2/8/2011	Total dissolved solids	22,300		mg/L	5
CMW-F	2/10/2011	Total dissolved solids	17,600		mg/L	5
CMW-42	2/11/2011	Total dissolved solids	17,500		mg/L	5
GW-2	2/10/2011	Total dissolved solids	9,310		mg/L	5
N-3	2/2/2011	Total dissolved solids	8,620		mg/L	5
C3-D	1/27/2011	Total dissolved solids	7,200		mg/L	5
U-1	2/3/2011	Total dissolved solids	6,140		mg/L	5
U-2	2/3/2011	Total dissolved solids	5,810		mg/L	5
CMW-E	2/10/2011	Total dissolved solids	5,130		mg/L	5
CMW-16B	2/1/2011	Total dissolved solids	4,980		mg/L	5
C2-D	1/27/2011	Total dissolved solids	4,440		mg/L	5
Q-3	2/3/2011	Total dissolved solids	3,680		mg/L	5
RDMW-1B	2/8/2011	Total dissolved solids	3,200		mg/L	5
C1-D	1/27/2011	Total dissolved solids	3,010		mg/L	5
HMW-1D	2/2/2011	Total dissolved solids	2,880		mg/L	5
N-2	2/2/2011	Total dissolved solids	2,570		mg/L	5
RDMW-6B	2/9/2011	Total dissolved solids	2,490		mg/L	5
RDMW-9AR	2/3/2011	Total dissolved solids	2,150		mg/L	5
RDMW-1A	2/8/2011	Total dissolved solids	2,130		mg/L	5
DUP-2	2/8/2011	Total dissolved solids	2,070		mg/L	5
HMW-2F	2/8/2011	Total dissolved solids	2,040		mg/L	5
HMW-12FR	2/11/2011	Total dissolved solids	1,720		mg/L	5
HMW-4F	2/8/2011	Total dissolved solids	1,650		mg/L	5
RDMW-6A	2/9/2011	Total dissolved solids	1,620		mg/L	5
HMW-8E	2/9/2011	Total dissolved solids	1,540		mg/L	5
SWI-3	2/10/2011	Total dissolved solids	1,540		mg/L	5
VMW-1	1/31/2011	Total dissolved solids	1,540		mg/L	5
RDMW-2BR	2/11/2011	Total dissolved solids	1,510		mg/L	5
HMW-12ER	2/11/2011	Total dissolved solids	1,470		mg/L	5
CMW-A	2/10/2011	Total dissolved solids	1,370		mg/L	5
CMW-39	2/10/2011	Total dissolved solids	1,350		mg/L	5

Table 5. Summary of Exceedances for Groundwater Analytical Results - February 2011
Biscayne Landing (F.K.A. Munisport), North Miami, Florida

Sample ID	Date	Parameter	Result	Qualifier	Units	MDL
HMW-14E	2/10/2011	Total dissolved solids	1,290		mg/L	5
HMW-2E	2/3/2011	Total dissolved solids	1,270		mg/L	5
HMW-14FR	2/10/2011	Total dissolved solids	1,270		mg/L	5
BIW-1R	2/10/2011	Total dissolved solids	1,200		mg/L	5
HMW-4E	2/7/2011	Total dissolved solids	1,190		mg/L	5
VMW-16	2/1/2011	Total dissolved solids	1,190		mg/L	5
HMW-8FR	2/11/2011	Total dissolved solids	1,120		mg/L	5
CMW-28BR	1/28/2011	Total dissolved solids	1,110		mg/L	5
VMW-11	2/1/2011	Total dissolved solids	1,070		mg/L	5
SWI-6	2/9/2011	Total dissolved solids	1,060		mg/L	5
GW-4	2/8/2011	Total dissolved solids	1,060		mg/L	5
CMW-41	2/11/2011	Total dissolved solids	1,040		mg/L	5
C3-S	1/27/2011	Total dissolved solids	1,030		mg/L	5
HMW-6E	2/9/2011	Total dissolved solids	1,030		mg/L	5
CMW-1B	1/26/2011	Total dissolved solids	1,020		mg/L	5
N-1	2/2/2011	Total dissolved solids	1,020		mg/L	5
CMW-2BR	1/26/2011	Total dissolved solids	958		mg/L	5
HMW-6F	2/9/2011	Total dissolved solids	953		mg/L	5
RDMW-9BR	2/2/2011	Total dissolved solids	948		mg/L	5
MW-4B	2/1/2011	Total dissolved solids	866		mg/L	5
LIT-3	2/9/2011	Total dissolved solids	860		mg/L	5
BIW-3R	2/11/2011	Total dissolved solids	848		mg/L	5
C1-I	1/27/2011	Total dissolved solids	808		mg/L	5
C2-S	1/27/2011	Total dissolved solids	753		mg/L	5
CMW-23	1/27/2011	Total dissolved solids	723		mg/L	5
VMW-6	1/31/2011	Total dissolved solids	722		mg/L	5
CMW-40BR	1/28/2011	Total dissolved solids	690		mg/L	5
SWI-1	1/31/2011	Total dissolved solids	668		mg/L	5
CMW-6B	1/31/2011	Total dissolved solids	664		mg/L	5
CMW-38R	2/11/2011	Total dissolved solids	633		mg/L	5
CMW-36	1/26/2011	Total dissolved solids	621		mg/L	5
CMW-23B	1/27/2011	Total dissolved solids	618		mg/L	5
C3-I	1/27/2011	Total dissolved solids	608		mg/L	5
C1-S	1/27/2011	Total dissolved solids	588		mg/L	5
C2-I	1/27/2011	Total dissolved solids	578		mg/L	5
CMW-36B	1/26/2011	Total dissolved solids	565		mg/L	5
SCMW-2	1/26/2011	Total dissolved solids	563		mg/L	5
CMW-28R	1/28/2011	Total dissolved solids	523		mg/L	5

Notes:
1. mg/L = Milligrams per Liter equivalent to parts per million (ppm)
2. ug/L = Micrograms per Liter equivalent to parts per billion (ppb)
3. MDL = Method Detection Limit
4. D = The sample result was reported from a dilution
5. J = (EPA) - Estimated value below the lowest calibration point
6. V = Analyte was detected in both the sample and the associated method blank
7. I = The reported value is between the MDL and the practical quantitation limit

Attachment A

FDEP Form 62-522.900(2) – February 2011

ES CONSULTANTS, INC.
environmental and civil engineering

Florida Department of Environmental Protection

2600 Blair Stone Road, MS# 4565, Tallahassee, FL 32399-2400

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Munisport Landfill

Address 2200 N.E. 43rd Street

City North Miami, Florida Zip 33161 County Miami-Dade

Telephone Number ( ) NA

(2) WACS_Facility 57135

(3) DEP Permit Number 0219514-001-SF

(4) Authorized Representative's Name Charles W. DeSanti Title Receiver

Address 4500 PGA Boulevard, Suite 400

City Palm Beach Gardens, Florida Zip 33418 County Palm Beach

Telephone Number (561) 624-4000

(5) Type of Discharge NA

(6) Method of Discharge NA

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

3/16/11

Date

Owner or Authorized Representative's Signature

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Comp QAP # Not Applicable

Analytical Lab Comp QAP #/ HRS Certification NELAC Certification E86678

Lab Name Xenco Laboratories

Address 3231 N.W. 7th Avenue, Boca Raton, FL, 33431

Phone Number (561) 447-7373

DER Form 62-522.900(2)
Effective April 14, 1994

Attachment B

Laboratory Analytical Results
Chain-of-Custody
Sampling Logs
ADAPT Files
(See Attached CD)

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