5103Map2001 - Batch No.___

1

Johnston Co.

5103Z001
map

Attachment 2

Map showing wells:
MW-5-1
MW-5-2
MW-5-10

MW-5-10
TOC=202.88
DTW=12.76
GWE=190.12

MW-5-9
TOC=198.31
DTW=11.29
GWE=187.02

MW-5-8
TOC=189.31
DTW=7.68
GWE=181.63

MW-5-7
TOC=182.73
DTW=10.26
GWE=172.47

MW-5-6
TOC=199.11
DTW=30.44
GWE=168.67

MW-5-5
TOC=185.42
DTW=10.90
GWE=174.52

MW-5-4
TOC=186.58
DTW=5.74
GWE=180.84

MW-5-3
TOC=203.8
DTW=10.04
GWE=193.76

MW-5-2
TOC=206.77
DTW=4.75
GWE=202.02

MW-5-1
TOC=232.17
DTW=24.72
GWE=207.45

PHASE 5
LANDFILL

APPROXIMATE LIMITS
OF WASTE

170 175 180 185 190 195 200 205

0 200' 400' 600'

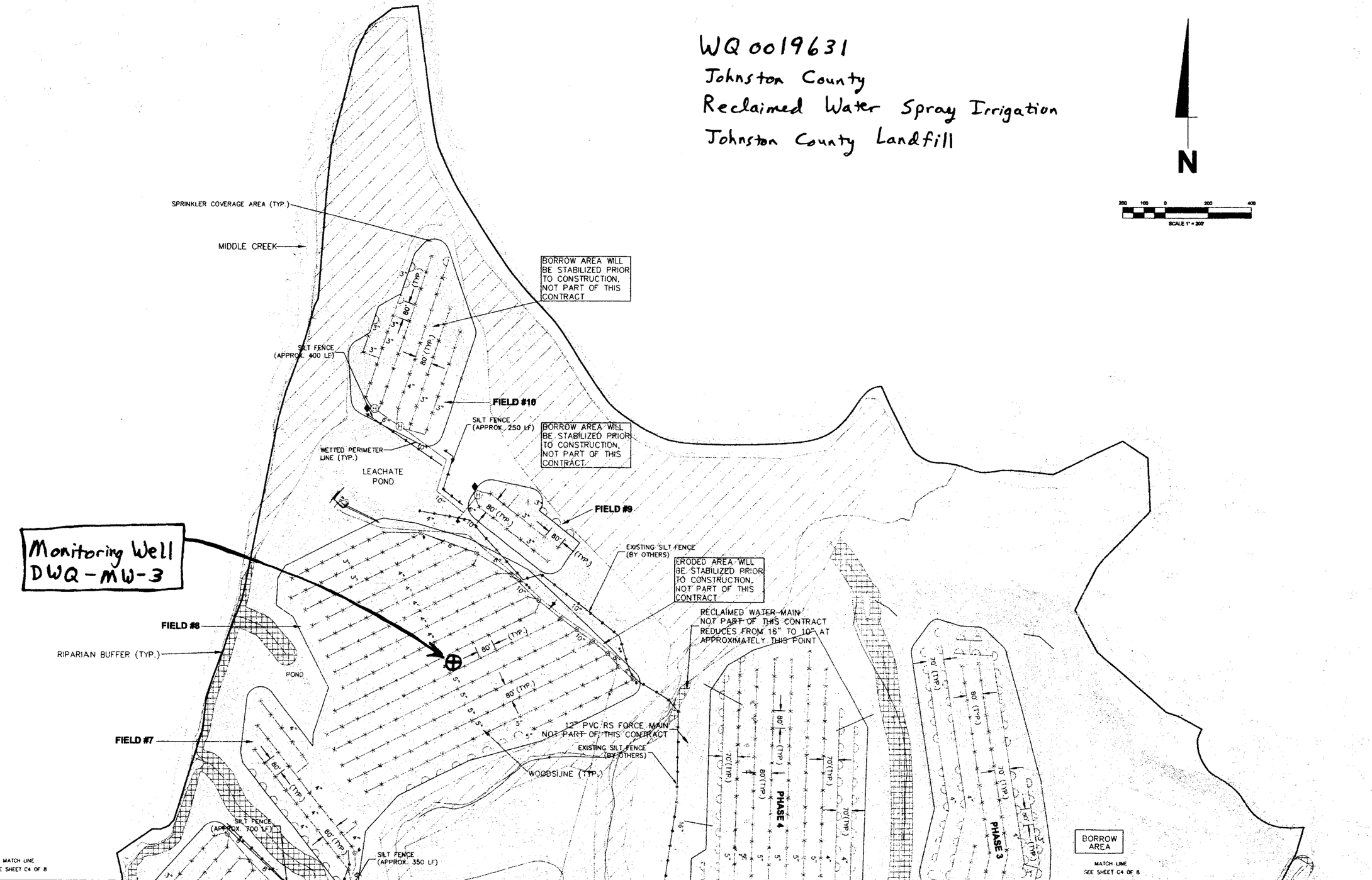
G.N. RICHARDSON & ASSOCIATES, INC.
Engineering and Geological Services
425 N. Boylan Avenue Raleigh, North Carolina
(919)-828-0577 Fax:(919)-828-3899 www.gnra.com

FIGURE NO.	1
FILE NAME	JOHN-B0208
SCALE:	AS SHOWN
CHECKED BY:	J.A.S.
PROJECT NO.	JOHN-4
DRAWN BY:	C.T.J.
DATE:	AUG. 2001

TITLE:
POTENTIOMETRIC MAP
JOHNSTON COUNTY LANDFILL
PHASE 5, APRIL 2001

Attachment 1

WQ 0019631
Johnston County
Reclaimed Water Spray Irrigation
Johnston County Landfill



REVISION INFORMATION			
Num	Description	Date	Init

DRAWING INFORMATION	Init	Date
Drawn By:	SRM	06/01
Checked By:	KCY	06/01
Approved By:	RES	06/01

NORTH CAROLINA PROFESSIONAL SEAL ENGINEER RICHARD E. SNEED
February 11, 2002

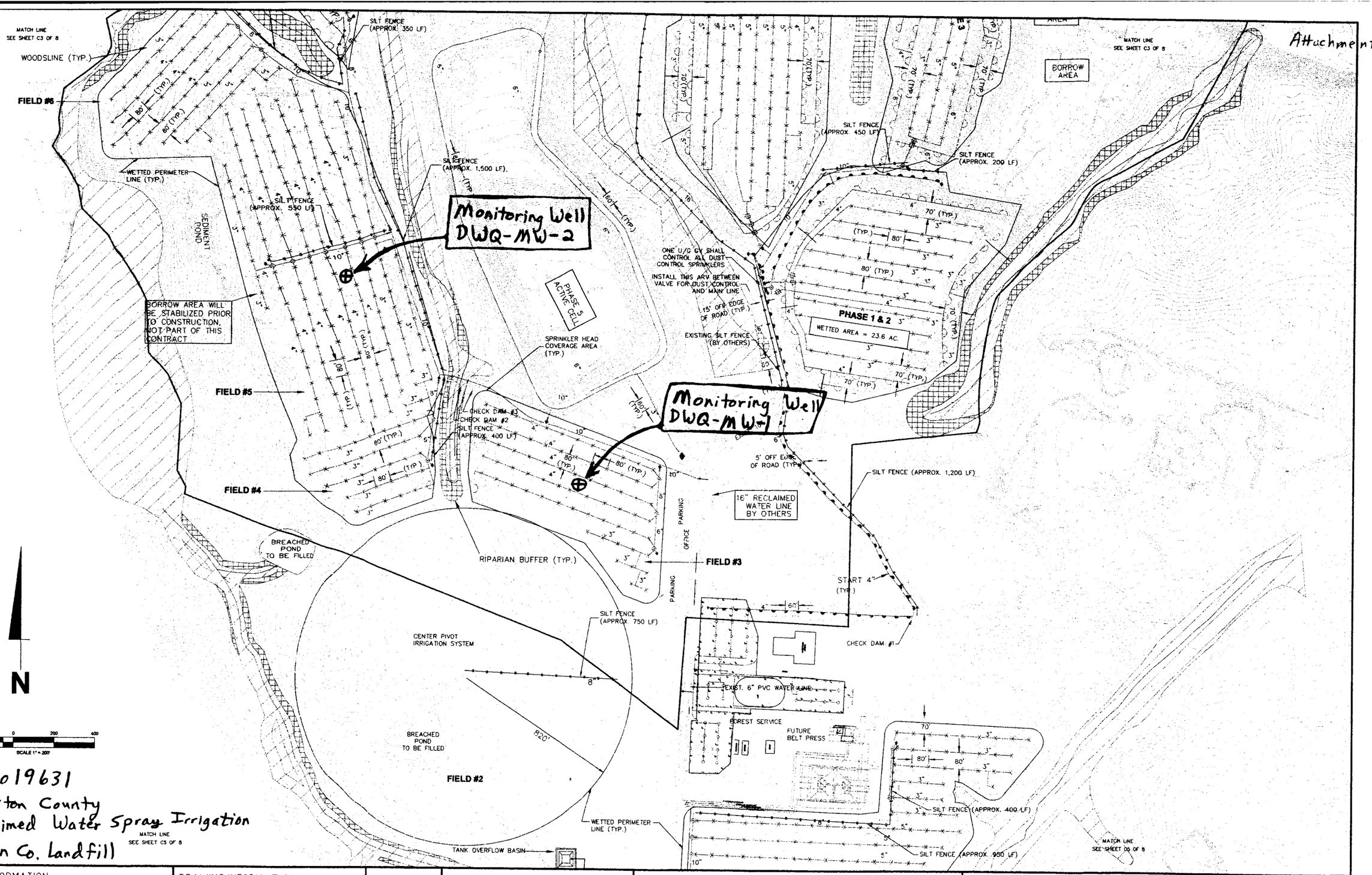
Wetted Areas Plan - Area A

LANDFILL RECLAIMED EFFLUENT IRRIGATION SYSTEM

JOHNSTON COUNTY
Department of Public Utilities
P.O. Box 2263
Smithfield, NC 27577

SHEET
EXHIBT 1
of 3

Attachment 1



WQ0019631
Johnston County
Reclaimed Water Spray Irrigation
Johnston Co. Landfill

REVISION INFORMATION				DRAWING INFORMATION		
Num	Description	Date	Init		Init	Date
				Drawn By:	SRM	06/01
				Checked By:	KCY	06/01
				Approved By:	RES	06/01

NORTH CAROLINA PROFESSIONAL ENGINEER RONALD E. SNEED
February 11, 2002

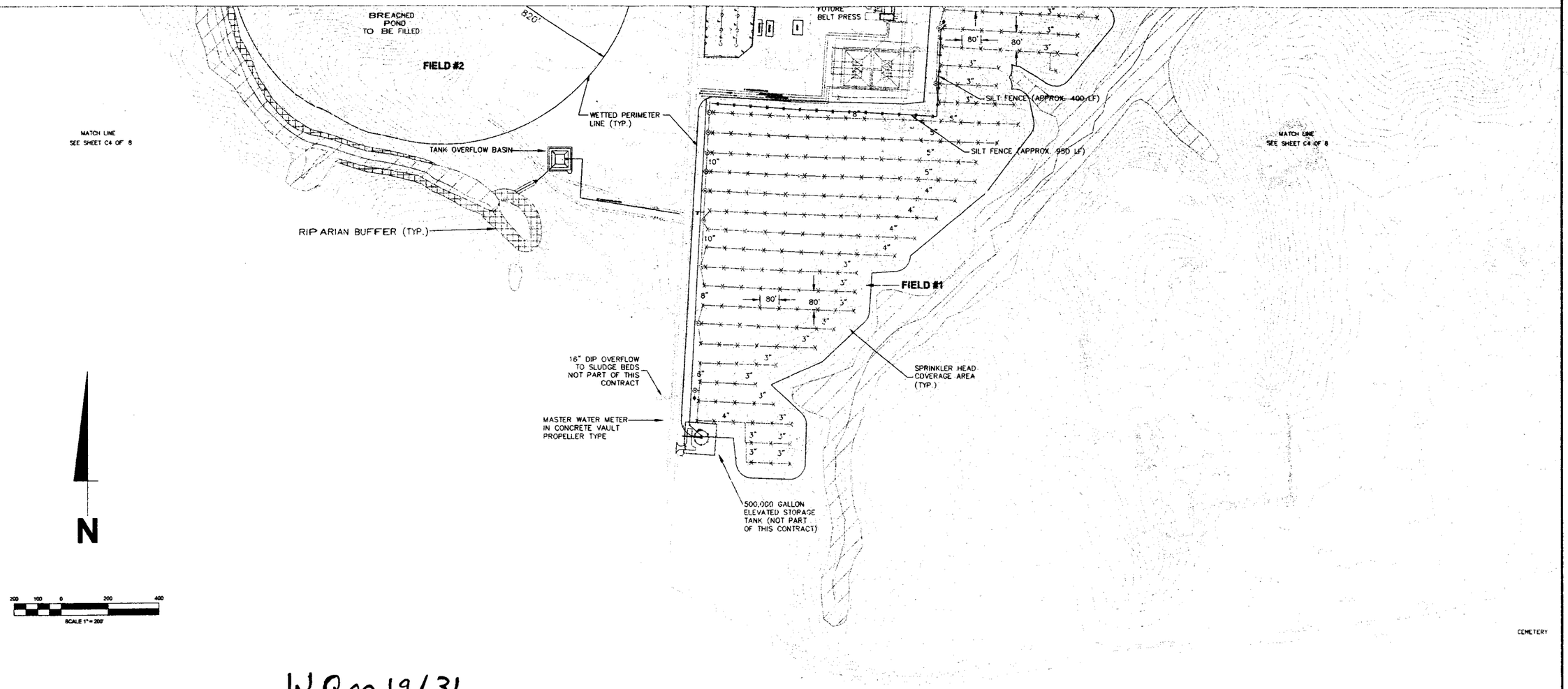
Wetted Aeras Plan - Area B

LANDFILL RECLAIMED EFFLUENT IRRIGATION SYSTEM

JOHNSTON COUNTY
Department of Public Utilities
P.O. Box 2263
Smithfield, NC 27577

SHEET
EXHIBT 2
of 3

Attachment 1



WQ00 19631
Johnston County
Reclaimed Water Spray Irrigation
Johnston County Landfill

REVISION INFORMATION				DRAWING INFORMATION		
Num	Description	Date	Init		Init	Date
				Drawn By	SRM	06/01
				Checked By	KCY	06/01
				Approved By	RES	06/01

February 11, 2002

Wetted Areas Plan - Area C

LANDFILL RECLAIMED EFFLUENT IRRIGATION SYSTEM

JOHNSTON COUNTY
Department of Public Utilities
P.O. Box 2263
Smithfield, NC 27577

SHEET
EXHIBT 3
of 3

Attachment 2

RECEIVED
AUG 13

Map showing wells:
CDLMW-5
MW-3
PZ-3

SW-2
MW-5
MW-5A
TOC=173.7
DTW=13.34
WTE=160.36
MW-12B
TOC=156.12
DTW=28.78
WTE=127.34
TOC=166.6
DTW=34.92
WTE=131.68
MW-6
MW-13D
MW-13
TOC=179.57
DTW=16.18
WTE=163.39
PZ-1
MW-4C
MW-4D
MW-4B
TOC=201.7
DTW=6.22
WTE=195.48
MW-4
PZ-4
PZ-3
TOC=194.91
DTW=8.74
WTE=186.17
CDLMW-5
MW-7C
MW-7B
MW-7D
MW-7
TOC=164.5
DTW=23.86
WTE=140.64
PZ-7
PZ-10
PZ-9D
PZ-9
PZ-8
PZ-6
PZ-5
PZ-5D
DRY
TOC=155.43
MW-8
MW-8D
MW-11
TOC=144.32
DTW=8.72
WTE=135.60
MW-10
TOC=175.65
DTW=3.52
WTE=172.13
MW-9
MW-9B
MW-9D
MW-9C
TOC=167.89
DTW=7.30
WTE=160.59
MW-3
TOC=234.16
DTW=22.62
WTE=211.54
MW-3B
SW-1

PHASE 3
PHASE 1 & 2
PHASE 4
PHASE 5

140 150 160 170 180 190 200 210

LEGEND

- ◑ EXISTING MONITORING WELLS.
- ● ASSESSMENT DEEP WELLS.
- ● PERMIT SHALLOW PIEZOMETER

NOTE:

1. GROUNDWATER DATA COLLECTED APRIL, 2001.

0 400' 800' 1200'

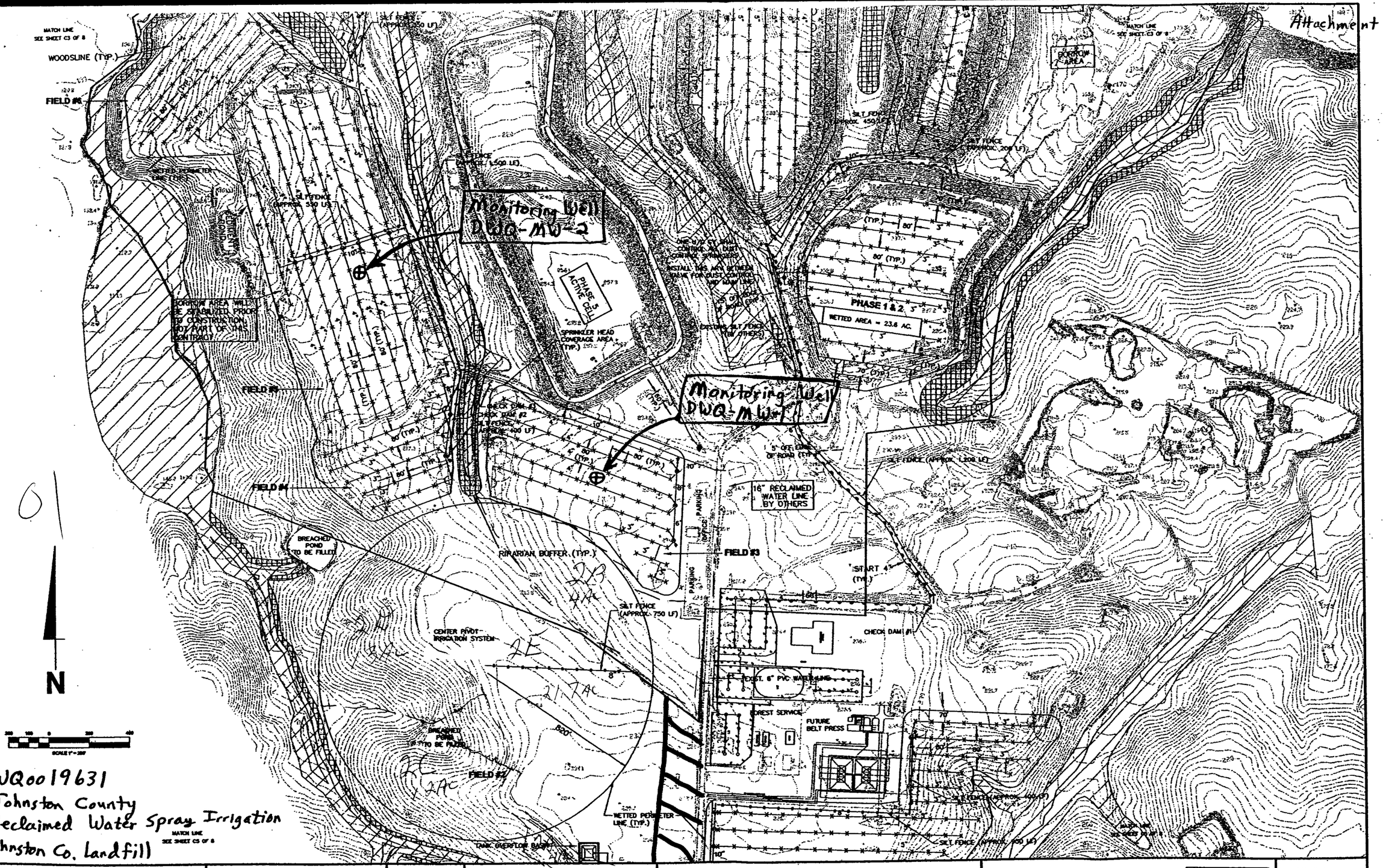
G.N. RICHARDSON & ASSOCIATES, INC.
Engineering and Geological Services
425 N. Boylan Avenue Raleigh, North Carolina
(919)-828-0577 Fax:(919)-828-3899 www.gnra.com

FIGURE NO.	1
FILE NAME	JOHN-B0209
SCALE:	AS SHOWN
PROJECT NO.	JOHN-4
CHECKED BY:	J.A.S.
DRAWN BY:	C.T.J.
DATE:	AUG. 2001

TITLE: GROUND WATER POTENTIOMETRIC SURFACE MAP

C:\GNR\JOHNSTON\JOHNSTON-4\FIGURES\JOHN-B0209.dwg DATE: AUG 03, 2001 TIME: 4:41 PM

Attachment 1



WQ0019631
Johnston County
Reclaimed Water Spray Irrigation
Johnston Co. Landfill

REVISION INFORMATION				DRAWING INFORMATION		
Num	Description	Date	Init		Init	Date
				Drawn By:	SRM	06/01
				Checked By:	KCY	06/01
				Approved By:	RES	06/01

NORTH CAROLINA PROFESSIONAL ENGINEER RONALD E. SNIPES February 11, 2002

Wetted Aeras Plan - Area B

LANDFILL RECLAIMED EFFLUENT IRRIGATION SYSTEM

JOHNSTON COUNTY
Department of Public Utilities
P.O. Box 2263
Smithfield, NC 27577

SHEET
EXHIBT 2
of 3

Attachment 1

WQ0019631
Johnston County
Reclaimed Water Spray Irrigation
Johnston County Landfill

N

SCALE 1" = 200'

SPRINKLER COVERAGE AREA (TYP.)

MIDDLE CREEK

BORROW AREA WILL BE STABILIZED PRIOR TO CONSTRUCTION, NOT PART OF THIS CONTRACT

SILT FENCE (APPROX. 900 LF)

FIELD #10

SILT FENCE (APPROX. 250 LF)

BORROW AREA WILL BE STABILIZED PRIOR TO CONSTRUCTION, NOT PART OF THIS CONTRACT

WETTED PERIMETER (TYP.)

LEACHATE POND

FIELD #9

EXISTING SILT FENCE (BY OTHERS)

ERODED AREA WILL BE STABILIZED PRIOR TO CONSTRUCTION, NOT PART OF THIS CONTRACT

RECLAIMED WATER MAIN NOT PART OF THIS CONTRACT

Monitoring Well
DWQ-MW-3

FIELD #8

RIPARIAN BUFFER (TYP.)

FIELD #7

PHASE 4

PHASE 5

BORROW AREA

MATCH LINE
SEE SHEET C6 OF 8

MATCH LINE
SEE SHEET C8 OF 8

REVISION INFORMATION			
Num	Description	Date	Init

DRAWING INFORMATION		
	Init	Date
Drawn By:	SRM	06/01
Checked By:	KCY	06/01
Approved By:	RES	06/01

NORTH CAROLINA PROFESSIONAL ENGINEER RONALD E. SHEW
February 11, 2002

Wetted Areas
Plan - Area A

LANDFILL RECLAIMED EFFLUENT IRRIGATION SYSTEM

JOHNSTON COUNTY
Department of Public Utilities
P.O. Box 2263
Smithfield, NC 27577

SHEET
EXHIBT 1
of 3

G:\CAD\Johnston\John-2\rev-031004\sheets\JOHN-D0212A.dwg DATE: MAR 11, 2004 TIME: 9:16 AM

DATE	NO.	REVISION
3/04	1	ADDED FIELD 11 AND LF CAP 5

G.N. RICHARDSON & ASSOCIATES, INC.
Engineering and Geological Services
14 N. BOYLAN AVENUE RALEIGH, N.C. 27603
PHONE-919-828-0577 FAX-919-828-3899 WWW.GNRA.COM

SEAL

SEAL

PROJECT TITLE:
JOHNSTON COUNTY LANDFILL IRRIGATION OF RECLAIMED WASTEWATER

DRAWING TITLE:
LANDFILL SITE IRRIGATION PLAN

DESIGNED BY: P.K.S.	DRAWN BY: C.T.J.
CHECKED BY: G.N.R.	PROJECT NO.: JOHN-2
SCALE: AS SHOWN	DATE: OCT. 2001
FILE NAME: JOHN-D0212A	
SHEET NO.	DRAWING NO.: FIG. 1

02