DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

SCS Engineers - Consultant; Pace Labs - Laboratory

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: C. Ed Hilton, Jr., P.E. Phone: 813-621-0080

E-mail: ehilton@scsengineers.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Buncombe County New Landfill	85 Panther Branch Road Alexander, North Carolina 28701	11-07	.1600	March 23-26, 2009

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☒ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify)

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

C. Ed Hilton, Jr., P.E.	Project Director	813-621-0080
Facility Representative Name (Print)	Title	(Area Code) Telephone Number
C. Ed Hilton Jr	6/10/09	Affix NC Licensed/ Professional Geologist/Engineer Seal here:
Signature	Date	

NORTH CAROLINA PROFESSIONAL SEAL 7909 ENGINEER C. EDWARD HILTON, JR.

C. Edward Hilton Jr

Revised 01/2007

ATTACHMENT TO NC DENR ENVIRONMENTAL MONITORING REPORT FORM

SPRING 2009 STATISTICAL ANALYSIS

NEW BUNCOMBE COUNTY LANDFILL PERMIT # 11-07

Constituents detected during the Spring 2009 sampling event were analyzed in order to determine whether there is statically significant evidence of contamination. This analysis was conducted by calculating Tolerance Intervals from background well data and comparing concentrations from the compliance wells to calculated interval using the method specified in EPA, 1989. Background concentrations from the shallow monitoring well (MW-1) were compared to shallow compliance well MW-2 through MW-14 (installed 5 April 2006), with the exception of MW-9 which is no longer in service. The background concentrations from the deep monitoring well (MW-1D) were compared to the deep compliance wells (MW-2D, MW-4D, MW-5D, and MW-8D through MW-14D), again with the exception of MW-9D which is no longer in service. Tolerance Interval calculations are provided in the attached tables.

Compliance well concentrations fell outside calculated Tolerance Intervals for: Zinc (MW-2), carbon disulfide (MW-5, MW-7, MW-10, MW-8D, and MW-14), and Lead (MW-2). North Carolina Department of Environment and Natural Resources (NCDENR's) groundwater quality standard was not exceeded for these parameters. The Chromium concentration at MW-3 (63 ug/L) slightly exceed the groundwater quality standard (50 ug/L) and is likely the result of elevated turbidity.

Site ID's designated as LD or Leachate are liner detections or leachate which are not part of the groundwater. Historically wells, including the background wells, at this landfill have always shown the presence of metals. We believe that this is a naturally occurring phenomena which as always been present based on the historical test results.

Reference:
EPA, 1989. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Interim Final Guidance, Office of Solid Waste. Washington, D.C.

Detections by Date Range

Buncombe County New Facility

From: 3/23/2009 ***To:*** 3/26/2009

Site ID	*Analyte*	*Date*	*Result*
SW-1			
	Barium		
		3/23/2009	72.6 ug/L
SW-2			
	Barium		
		3/23/2009	42.4 ug/L
	Cobalt		
		3/23/2009	6.2 ug/L
SW-4			
	Barium		
		3/23/2009	103 ug/L
	Cobalt		
		3/23/2009	6.2 ug/L
SW-5			
	Barium		
		3/23/2009	98.4 ug/L
	Nickel		
		3/23/2009	6.2 ug/L

Exceedances by Date Range

Buncombe County New Facility

From: 3/23/2009 ***To:*** 4/2/2009

Site ID	*Analyte*	*Date*	*Result*
Leachate			
	Nickel		
	DENR WQS: 100 ***ug/l***		
		3/23/2009	401 ug/L
MW-3			
	Chromium		
	DENR WQS: 50 ***ug/l***		
		3/26/2009	63.0 ug/L

Detections By Date Range

Buncombe County New Facility

From: 3/23/2009 ***To:*** 3/26/2009

Site ID	*Analyte*	*Date*	*Result*
MW-1			
	Barium		
		3/25/2009	274 ug/L
	Chromium		
		3/25/2009	17.8 ug/L
	Cobalt		
		3/25/2009	14.7 ug/L
	Copper		
		3/25/2009	23.0 ug/L
	Nickel		
		3/25/2009	14.4 ug/L
	Vanadium		
		3/25/2009	38.6 ug/L
	Zinc		
		3/25/2009	24.3 ug/L
MW-10			
	Barium		
		3/26/2009	90.6 ug/L
	Carbon disulfide		
		3/26/2009	26.5 ug/L
	Zinc		
		3/26/2009	17.0 ug/L
MW-10D			
	Barium		
		3/26/2009	11.0 ug/L
	Nickel		
		3/26/2009	6.0 ug/L
MW-11			
	Barium		
		3/26/2009	53.5 ug/L
	Nickel		
		3/26/2009	48.6 ug/L
MW-11D			
	Barium		
		3/26/2009	12.1 ug/L
	Zinc		
		3/26/2009	32.8 ug/L

Site ID	Analyte	Date	Result
MW-12			
	Barium		
		3/26/2009	149 ug/L
	Chromium		
		3/26/2009	11.9 ug/L
	Cobalt		
		3/26/2009	15.5 ug/L
	Copper		
		3/26/2009	12.5 ug/L
	Nickel		
		3/26/2009	21.1 ug/L
	Vanadium		
		3/26/2009	22.2 ug/L
	Zinc		
		3/26/2009	21.7 ug/L
MW-12D			
	Barium		
		3/26/2009	43.5 ug/L
		3/26/2009	43.5 ug/L
	Carbon disulfide		
		3/26/2009	5.8 ug/L
		3/26/2009	5.8 ug/L
	Vanadium		
		3/26/2009	7.0 ug/L
		3/26/2009	7.0 ug/L
MW-13			
	Barium		
		3/26/2009	181 ug/L
	Cobalt		
		3/26/2009	50.0 ug/L
MW-13D			
	Barium		
		3/26/2009	198 ug/L
	Chromium		
		3/26/2009	9.9 ug/L
	Cobalt		
		3/26/2009	17.5 ug/L
	Copper		
		3/26/2009	5.6 ug/L
	Nickel		
		3/26/2009	26.2 ug/L
	Vanadium		
		3/26/2009	17.3 ug/L

Site ID	Analyte	Date	Result
MW-14			
	Barium		
		3/26/2009	50.8 ug/L
	Carbon disulfide		
		3/26/2009	9.0 ug/L
	Vanadium		
		3/26/2009	10.6 ug/L
MW-14D			
	Barium		
		3/26/2009	7.1 ug/L
MW-1D			
	Barium		
		3/25/2009	26.9 ug/L
	Carbon disulfide		
		3/25/2009	3.1 ug/L
	Lead		
		3/25/2009	7.1 ug/L
	Vanadium		
		3/25/2009	5.1 ug/L
	Zinc		
		3/25/2009	19.1 ug/L
MW-2			
	Barium		
		3/26/2009	518 ug/L
	Beryllium		
		3/26/2009	1.4 ug/L
	Chromium		
		3/26/2009	33.7 ug/L
	Cobalt		
		3/26/2009	37.6 ug/L
	Copper		
		3/26/2009	23.5 ug/L
	Lead		
		3/26/2009	12.3 ug/L
	Nickel		
		3/26/2009	40.9 ug/L
	Vanadium		
		3/26/2009	37.8 ug/L
	Zinc		
		3/26/2009	152 ug/L
MW-2D			
	Barium		
		3/26/2009	74.7 ug/L
	Carbon disulfide		
		3/26/2009	2.2 ug/L

Site ID	Analyte	Date	Result
MW-3			
	Arsenic		
		3/26/2009	5.1 ug/L
	Barium		
		3/26/2009	355 ug/L
	Beryllium		
		3/26/2009	1.1 ug/L
	Chromium		
		3/26/2009	63.0 ug/L
	Cobalt		
		3/26/2009	18.9 ug/L
	Copper		
		3/26/2009	40.6 ug/L
	Lead		
		3/26/2009	6.2 ug/L
	Nickel		
		3/26/2009	46.3 ug/L
	Vanadium		
		3/26/2009	93.0 ug/L
	Zinc		
		3/26/2009	53.9 ug/L
MW-4			
	Barium		
		3/26/2009	61.1 ug/L
	Vanadium		
		3/26/2009	6.8 ug/L
MW-4D			
	Barium		
		3/26/2009	48.2 ug/L
	Chromium		
		3/26/2009	6.9 ug/L
	Copper		
		3/26/2009	8.1 ug/L
	Nickel		
		3/26/2009	7.1 ug/L
	Vanadium		
		3/26/2009	30.5 ug/L
	Zinc		
		3/26/2009	10.4 ug/L

Site ID	Analyte	Date	Result
MW-5			
	Barium		
		3/26/2009	106 ug/L
	Carbon disulfide		
		3/26/2009	11.2 ug/L
	Chromium		
		3/26/2009	11.8 ug/L
	Nickel		
		3/26/2009	7.3 ug/L
	Vanadium		
		3/26/2009	20.7 ug/L
	Zinc		
		3/26/2009	15.1 ug/L
MW-5D			
	Barium		
		3/26/2009	58.9 ug/L
	Cobalt		
		3/26/2009	7.1 ug/L
	Vanadium		
		3/26/2009	7.5 ug/L
	Zinc		
		3/26/2009	17.2 ug/L
MW-6			
	Barium		
		3/26/2009	71.0 ug/L
	Chromium		
		3/26/2009	6.6 ug/L
	Cobalt		
		3/26/2009	7.0 ug/L
	Vanadium		
		3/26/2009	8.2 ug/L
	Zinc		
		3/26/2009	15.0 ug/L
MW-7			
	Barium		
		3/26/2009	90.2 ug/L
	Carbon disulfide		
		3/26/2009	16.9 ug/L
	Nickel		
		3/26/2009	7.3 ug/L
	Vanadium		
		3/26/2009	7.7 ug/L
	Zinc		
		3/26/2009	14.4 ug/L

Site ID	Analyte	Date	Result
MW-8			
	Barium		
		3/25/2009	70.8 ug/L
	Carbon disulfide		
		3/25/2009	2.4 ug/L
	Vanadium		
		3/25/2009	5.7 ug/L
	Zinc		
		3/25/2009	19.5 ug/L
MW-8D			
	Barium		
		3/25/2009	70.9 ug/L
	Carbon disulfide		
		3/25/2009	35.3 ug/L

	Background	Compliance Wells												
Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
3/25/2009	274	518	355	61	106	71	90	71	Out of Service	91	54	149	181	51
9/30/2008	200	175	182	85	97	65	95	75	Out of Service	152	49	155	191	68
3/26/2008	258	61	302	74.9	103	165	98.3	98.9	Out of Service	116	66.6	98.1	160	143
9/27/2007	314	**1080**	207	87.8	89.9	92.5	125	83.7	Out of Service	132	179	460	217	217
3/27/2007	220	72	180	72	98	51	200	76	Out of Service	100	60	90	120	68
9/22/2006	390	300	210	77	130	320	180	71	Out of Service	210	54	190	130	**860**
3/24/2006	260	**970**	560	250	78	230	170	68	Out of Service	220	150	210	140	
9/27/2005	180	610	**1500**	160	78	180	300	52	200	200	77	260	140	
4/11/2005	150	**1000**	**1300**	470	69	**1400**	**1500**	130	220	410	61	220		
9/27/2004	190	**1100**	220	86	74	180	220	100	240	340	49	280		
3/30/2004	130	280	150	200	120	54	160	87	250	150	100	140		
9/30/2003	290	410	380	87	67	**1100**	500	70	190	240	60	86		
3/25/2003	190	120	260	110	52	59	120	62	160	320	61	220		
10/28/2002	350	BDL	400	120	12	BDL	270	59	BDL	550	BDL	BDL		
4/30/2002	280	**1100**	410	140	280	**1000**	**770**	260	170	140	270			
10/23/2001	430	680	340	200	46	**1900**	**1500**	480	190					
5/1/2001	570	140	340	96	76	400	240	210	170					
11/6/2000	610	210	410	100	**1500**	**1400**	320	150	180					
4/4/2000	108	213	105	208	63	105	63	48	176					
11/2/1999	240	240	230	140	52	120	70	60	200					
4/27/1999	419	91	335	110	42	131	**730**	90	160					
11/9/1998	709	441	**1180**	302	331	265	337	274	186					
4/14/1998	528	527	**1100**	**911**	484	209	271	115	358					

n=	23	number of observations
Mean=	317	arithmetic mean
SD=	162	standard deviation
K=	2.329	one-sided normal tolerance factor (from table)
TL=	693	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells									
Date	MW-1D	MW-2D	MW-4D	MW-5D	MW-8D	MW-9D	MW-10D	MW-11D	MW-12D	MW-13D	MW-14D
3/25/2009	26.9	74.7	48.2	58.9	70.9	Out of Service	11	12.1	43.5	198	7.1
9/30/2008	24	72	65	45.6	76.1	Out of Service	12.2	10.2	82.9	179	7.9
3/26/2008	28.1	77.2	31.9	51.2	89.1	Out of Service	17.8	15.6	76.6	225	10.4
9/27/2007	95.7	89.3	30.7	51.7	88.2	Out of Service	30.9	17.7	262	211	12.1
3/27/2007	28	77	30	50	71	Out of Service	12	18	46	220	11
9/22/2006	86	75	46	48	67	Out of Service	18	18	270	270	14
3/22/2006	42	84	32	48	68	Out of Service	32	16	140	460	
9/27/2005	170	79	33	45	57	240	160	17	160	400	
4/11/2005	38	81	32	49	56	200	54	13	370		
9/27/2004	27	140	32	55	58	220	17	15	420		
3/30/2004	76	100	62	50	55	190	12	17	68		
9/30/2003	52	130	34	53	52	180	12	63	150		
3/25/2003	37	77	45	50	53	130	130	65	1000		
10/28/2002	270	140	47	52	56	BDL	120	BDL	BDL		
4/30/2002	60	230	90	76	80	170	690	350			
10/23/2001	110	77	130	62	66	150					
5/1/2001	530	140	77	48	48	130					
11/6/2000	880	95	140	94	54	140					
4/4/2000	1290	70	30	41	46	113					

n=	19	number of observations
Mean=	204	arithmetic mean
SD=	340	standard deviation
K=	2.423	one-sided normal tolerance factor (from table)
TL=	1028	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells												
Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
3/25/2009	17.8	33.7	63	BDL	11.8	6.6	BDL	BDL	Out of Service	BDL	BDL	11.9	BDL	BDL
9/30/2008	11.9	9.1	8.1	BDL	6.4	BDL	6.2	14.7	Out of Service	12.4	BDL	BDL	BDL	10.6
3/26/2008	13.2	BDL	45.6	BDL	6.9	31.6	BDL	5.1	Out of Service	5	BDL	BDL	BDL	23.7
9/27/2007	12.9	59.1	12.7	1.3	3.2	2.5	2.7	2.2	Out of Service	5.6	45.5	36.8	0.94	40.1
3/27/2007	8.8	2.4	10	1.4	3.9	1.2	9	2.5	Out of Service	4.7	0.83	1.4	BDL	8.1
9/24/2006	28	21	21	BDL	15	95	6.1	BDL	Out of Service	21	BDL	5.5	BDL	**200**
3/23/2006	15	85	**110**	15	4.5	2.5	2	BDL	Out of Service	35	32	8.3	BDL	
9/26/2005	1	46	25	19	12	16	23	2.5	BDL	16	6	4.3	BDL	
4/11/2005	1	83	**280**	68	2.8	**300**	**220**	14	4.6	59	2	13		
9/27/2004	6.4	57	27	2.1	8	37	15	8.3	BDL	43	BDL	10		
3/30/2004	2.9	18	12	23	8.3	BDL	BDL	9.5	BDL	16	20	BDL		
9/30/2003	20	26	85	BDL	7.4	**290**	81	5.2	BDL	43	6.9	7.7		
3/25/2003	5.1	7	47	9.3	8.4	BDL	5.1	BDL	BDL	69	7.6	36		
10/28/2002	42	BDL	13	BDL	BDL	BDL	17	BDL	BDL	26	BDL	BDL		
4/30/2002	23	68	**110**	16	79	**260**	**190**	53	BDL	18	**150**			
10/23/2001	34	55	69	18	11	**350**	**370**	**110**	BDL					
5/1/2001	2.5	BDL	BDL	BDL	6.5	BDL	9.9	BDL	BDL					
11/6/2000	9.9	7	10	BDL	9	5.2	14	BDL	BDL					
4/4/2000	1	16	2	37	7	3	2	2	BDL					
11/2/1999	22	19	56	8	8	32	6	8	2					
4/27/1999	47	7	89	14	9	30	5	12	2					
11/9/1998	176	38	**444**	47	80	64	66	70	16					
4/14/1998	60	40	**476**	**260**	**150**	60	80	60	100					

n=	23	number of observations
Mean=	24	arithmetic mean
SD=	37	standard deviation
K=	2.329	one-sided normal tolerance factor (from table)
TL=	110	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells									
Date	MW-1D	MW-2D	MW-4D	MW-5D	MW-8D	MW-9D	MW-10D	MW-11D	MW-12D	MW-13D	MW-14D
3/25/2009	2.5	BDL	6.9	BDL	BDL	Out of Service	BDL	BDL	BDL	9.9	BDL
9/30/2008	2.5	BDL	10.5	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/26/2008	0	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	5.6	BDL	BDL
9/27/2007	6	0.6	0.59	1.3	1.4	Out of Service	2	BDL	25.5	1.2	BDL
3/27/2007	1	0.5	BDL	0.92	1.9	Out of Service	0.7	BDL	2.3	15	BDL
9/24/2006	7	BDL	BDL	BDL	5.1	Out of Service	BDL	BDL	41	24	BDL
3/23/2006	1	BDL	BDL	BDL	BDL	Out of Service	3.2	BDL	5.2	28	
10/10/2005	1	2.1	BDL	BDL	BDL	BDL	33	BDL	3	64	
4/11/2005	1	BDL	BDL	BDL	BDL	BDL	8	BDL	45		
9/27/2004	1	5.1	BDL	BDL	BDL	BDL	BDL	BDL	50		
3/30/2004	1	5.7	8	BDL	BDL	BDL	BDL	BDL	BDL		
9/30/2003	1	9.7	BDL	BDL	BDL	2.7	BDL	BDL	13		
3/25/2003	12	BDL	BDL	BDL	BDL	BDL	35	BDL	170		
10/28/2002	9.1	BDL	BDL	BDL	BDL	BDL	8.9	BDL	BDL		
4/30/2002	2.5	10	14	7	9.2	BDL	230	12			
10/23/2001	2.5	BDL	28	BDL	6.2	BDL					
5/1/2001	5.9	BDL	BDL	BDL	BDL	BDL					
11/6/2000	31	BDL	BDL	BDL	BDL	BDL					
4/4/2000	202	2	BDL	1	2	1					

n=	19	number of observations
Mean=	15	arithmetic mean
SD=	46	standard deviation
K=	2.423	one-sided normal tolerance factor (from table)
TL=	126	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background					Compliance Wells								
Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
3/25/2009	23	24	41	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	12.5	BDL	BDL
9/30/2008	13.3	7	7	BDL	15.3	BDL	6.4	BDL	Out of Service	17.3	BDL	BDL	BDL	6.3
3/26/2008	20.3	BDL	37.6	BDL	BDL	15.6	6.2	BDL	Out of Service	10.1	46.7	BDL	BDL	19.2
9/27/2007	23	50.9	10.6	2.4	BDL	2.9	4.3	0.7	Out of Service	17.6	**67.5**	62.5	BDL	42.6
3/27/2007	13	0.58	8.6	1.4	2.1	BDL	18	2.3	Out of Service	17	3	0.91	BDL	5.2
9/24/2006	32	13	13	BDL	6.5	36	7.2	BDL	Out of Service	39	BDL	BDL	BDL	**160**
3/23/2006	15	63	64	17	BDL	9.3	BDL	BDL	Out of Service	51	38	8.3	BDL	
10/10/2005	1	28	**77**	12	2.5	9	28	BDL	3.7	**79**	14	5.2	3.6	
4/11/2005	2.8	61	**160**	57	BDL	**140**	**240**	14	3.2	**170**	5.2	15		
9/27/2004	11	46	13	BDL	2.5	14	22	8.4	2.7	28	2.7	15		
3/30/2004	5	13	9.3	19	5.2	BDL	BDL	9.3	BDL	6	28	BDL		
9/30/2003	24	20	36	2.7	3.6	**130**	**74**	5.9	2.6	24	9.7	8		
3/25/2003	8.3	4	18	8.1	2.9	BDL	5.5	4.1	2.6	31	5.9	22		
10/28/2002	44	BDL	15	4.1	3.6	BDL	32	2.7	BDL	24	BDL	BDL		
4/30/2002	23	50	43	14	36	**110**	**140**	47	BDL	9	**84**			
10/23/2001	48	34	28	18	BDL	**210**	**300**	**99**	BDL					
5/1/2001	14	BDL	7.8	BDL	BDL	10	22	BDL	BDL					
11/6/2000	21	BDL	8.2	BDL	13	32	22	BDL	BDL					
4/4/2000	2.5	10	BDL	32	BDL	5	BDL	BDL	BDL					
11/2/1999	16	10	17	7	BDL	10	6	6	BDL					
4/27/1999	43	5	30	16	BDL	11	6	10	BDL					
11/9/1998	76	23	**143**	31	36	30	51	47	10					
4/14/1998	56	28	**165**	**171**	**69**	25	50	15	37					

n=	23	number of observations
Mean=	23	arithmetic mean
SD=	19	standard deviation
K=	2.329	one-sided normal tolerance factor (from table)
TL=	67	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background					Compliance Wells					
Date	MW-1D	MW-2D	MW-4D	MW-5D	MW-8D	MW-9D	MW-10D	MW-11D	MW-12D	MW-13D	MW-14D
3/25/2009	2.5	BDL	8.1	BDL	BDL	Out of Service	BDL	BDL	BDL	5.6	BDL
9/30/2008	2.5	BDL	13.6	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/26/2008	0.15	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	6.1	BDL	BDL
9/27/2007	17.1	BDL	BDL	0.78	2.2	Out of Service	10.6	BDL	43.1	0.3	0.66
3/27/2007	1.3	BDL	0.36	1.5	1.3	Out of Service	0.91	2.6	3	12	BDL
9/24/2006	12	BDL	5.4	BDL	BDL	Out of Service	BDL	BDL	49	12	BDL
3/23/2006	3.5	BDL	BDL	BDL	BDL	Out of Service	12	BDL	11	45	
10/10/2005	11	BDL	BDL	BDL	BDL	BDL	43	BDL	12	34	
4/11/2005	1	BDL	BDL	BDL	BDL	BDL	19	BDL	61		
9/27/2004	5	11	BDL	BDL	4.1	2.7	2	BDL	82		
3/30/2004	6.8	3.4	13	BDL	BDL	3.4	3	BDL	2.2		
9/30/2003	5.8	6.8	2.4	2.2	BDL	6.7	2.8	3.2	16		
3/25/2003	2.1	BDL	6.7	BDL	BDL	BDL	21	2.6	**200**		
10/28/2002	8.7	5	5.8	3	3.2	BDL	17	BDL	BDL		
4/30/2002	2.8	8.5	23	5.8	6.3	BDL	**180**	13			
10/23/2001	2.5	BDL	35	BDL	BDL	BDL					
5/1/2001	9.1	BDL	BDL	BDL	BDL	BDL					
11/6/2000	27	BDL	16	BDL	BDL	BDL					
4/4/2000	240	BDL	BDL	BDL	6	BDL					

n=	19	number of observations
Mean=	19	arithmetic mean
SD=	54	standard deviation
K=	2.423	one-sided normal tolerance factor (from table)
TL=	150	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells												
Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
3/25/2009	14.4	40.9	46.3	BDL	7.3	BDL	7.3	BDL	Out of Service	BDL	48.6	21.1	BDL	BDL
9/30/2008	8.2	10.1	20.8	8.1	6.2	BDL	13.3	9.7	Out of Service	7.3	26.8	10.7	BDL	6.7
3/16/2008	12.8	BDL	42.2	5	5.1	12.2	14.2	BDL	Out of Service	BDL	59.8	11.7	BDL	20.1
9/27/2007	13.2	**80.6**	23.5	6.5	BDL	1.8	14.2	BDL	Out of Service	5.6	**80.3**	61.6	2.4	35.6
3/27/2007	6.6	BDL	28	2.5	BDL	BDL	18	BDL	Out of Service	1.8	23	5.9	BDL	4.8
9/24/2006	20	23	38	6.9	9.5	24	18	BDL	Out of Service	14	29	18	BDL	**130**
3/23/2006	10	**92**	**98**	12	BDL	6.3	13	BDL	Out of Service	18	68	18	BDL	
10/10/2005	2.5	54	**120**	9.4	BDL	8	42	BDL	30	14	35	22	BDL	
4/11/2005	2.5	**97**	**190**	35	BDL	**92**	**250**	9.7	33	36	32	21		
9/27/2004	2.5	66	50	BDL	BDL	12	28	BDL	20	18	19	23		
3/30/2004	2.5	21	55	13	5.1	BDL	13	5.2	23	8.7	48	5		
9/30/2003	15	32	**100**	BDL	BDL	**100**	**92**	BDL	21	23	20	9.1		
3/25/2003	5.3	6.7	62	5.5	BDL	BDL	12	BDL	36	36	21	48		
10/28/2002	30	BDL	54	8.5	BDL	BDL	41	BDL	BDL	35	BDL	BDL		
4/30/2002	18	**92**	**100**	18	49	**94**	**170**	30	7.4	16	**120**			
10/23/2001	30	61	**94**	21	5.1	**170**	**340**	65	7.9					
5/1/2001	13	BDL	53	6	BDL	12	36	16	6.7					
11/6/2000	21	6.5	70	6.7	34	31	52	7.8	11					
4/4/2000	2.5	16	34	20	BDL	BDL	8	BDL	9					
11/2/1999	16	18	66	13	BDL	10	10	7	12					
4/27/1999	33	5	**84**	15	BDL	12	9	8	6					
11/9/1998	120	40	**264**	33	52	28	64	40	15					
4/14/1998	40	49	**293**	**126**	**88**	24	**85**	38	58					

n=	23	number of observations
Mean=	19	arithmetic mean
SD=	24	standard deviation
K=	2.329	one-sided normal tolerance factor (from table)
TL=	76	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells									
Date	MW-1D	MW-2D	MW-4D	MW-5D	MW-8D	MW-9D	MW-10D	MW-11D	MW-12D	MW-13D	MW-14D
3/25/2009	2.5	BDL	7.1	BDL	BDL	Out of Service	6	BDL	BDL	26.2	BDL
9/30/2008	16.6	BDL	8	BDL	BDL	Out of Service	5.5	BDL	9	23.1	BDL
3/26/2008	1	BDL	BDL	BDL	BDL	Out of Service	7.9	BDL	6.7	35.6	BDL
9/27/2007	14	BDL	BDL	2.9	BDL	Out of Service	15.2	BDL	32.5	24.3	BDL
3/27/2007	25	BDL	BDL	BDL	BDL	Out of Service	4.8	BDL	BDL	26	BDL
9/24/2006	13	BDL	5.5	BDL	BDL	Out of Service	9.8	6.5	35	38	BDL
3/23/2006	3	BDL	BDL	BDL	BDL	Out of Service	18	BDL	7.2	47	
10/10/2005	21	BDL	BDL	BDL	BDL	14	63	BDL	9.9	58	
4/11/2005	2.5	BDL	BDL	BDL	BDL	8.7	35	BDL	41		
9/27/2004	2.5	BDL	BDL	BDL	BDL	BDL	12	BDL	52		
3/30/2004	9.7	BDL	7	BDL	BDL	8.6	8.8	BDL	BDL		
9/30/2003	7.8	7.2	BDL	BDL	BDL	10	10	BDL	15		
3/25/2003	5	BDL	BDL	BDL	BDL	5.9	47	13	**230**		
10/28/2002	18	5.5	BDL	BDL	BDL	BDL	48	BDL	BDL		
4/30/2002	5.2	11	14	9	7.7	6.8	**240**	20			
10/23/2001	12	BDL	24	6	12	6					
5/1/2001	28	BDL	BDL	BDL	BDL	BDL					
11/6/2000	42	BDL	6.5	7.1	BDL	BDL					
4/4/2000	212	BDL	BDL	BDL	5	BDL					

n=	19	number of observations
Mean=	23	arithmetic mean
SD=	47	standard deviation
K=	2.423	one-sided normal tolerance factor (from table)
TL=	137	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells												
Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
3/25/2009	24.3	**152**	53.9	BDL	15.1	15	14.4	19.5	Out of Service	17	BDL	21.7	BDL	BDL
9/30/2008	11.1	33.1	BDL	BDL	12	BDL	13.3	BDL	Out of Service	31.7	BDL	BDL	BDL	BDL
3/26/2008	24.6	BDL	52.2	BDL	BDL	42.9	15.6	12.8	Out of Service	25.8	BDL	BDL	23.6	30.3
9/27/2007	38.3	**311**	22.2	12.2	12.4	17.1	26.5	10.7	Out of Service	55	57.6	105	24.7	56.1
3/27/2007	19	9	21	5.4	7.7	4.2	37	7.8	Out of Service	37	8.8	6.7	19	16
9/24/2006	37	85	25	BDL	15	84	24	11	Out of Service	84	10	10	BDL	**190**
3/23/2006	34	**330**	120	23	BDL	14	11	BDL	Out of Service	110	40	19	18	
9/26/2005	5	**190**	**150**	24	11	21	54	BDL	BDL	**140**	12	BDL	BDL	
4/11/2005	16	**330**	**280**	79	BDL	**320**	**320**	21	10	**370**	BDL	53		
9/27/2004	5	**260**	38	22	21	57	23	12	BDL	40	BDL	26		
3/30/2004	5	78	32	27	13	BDL	BDL	14	BDL	21	21	BDL		
9/30/2003	31	120	89	BDL	BDL	**290**	99	BDL	BDL	38	11	16		
3/25/2003	5	23	43	30	BDL	BDL	14	BDL	BDL	62	14	130		
10/28/2002	48	BDL	38	10	BDL	BDL	47	BDL	BDL	56	BDL	BDL		
4/30/2002	28	**360**	87	19	84	**260**	**240**	75	BDL	14	91			
10/23/2001	51	**230**	67	27	13	**440**	**430**	**200**	BDL					
5/1/2001	37	22	30	BDL	BDL	27	42	39	BDL					
11/6/2000	200	25	55	BDL	75	73	66	20	BDL					
4/4/2000	12.5	61	BDL	42	BDL	34	BDL	BDL	BDL					
11/2/1999	34	70	60	BDL	20	50	40	40	BDL					
4/27/1999	55	31	88	42	27	55	BDL	45	BDL					
11/9/1998	102	**145**	**315**	46	97	63	95	84	27					
4/14/1998	90	**190**	**380**	**210**	**180**	79	90	40	100					

n=	23	number of observations
Mean=	40	arithmetic mean
SD=	43	standard deviation
K=	2.329	one-sided normal tolerance factor (from table)
TL=	140	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells									
Date	MW-1D	MW-2D	MW-4D	MW-5D	MW-8D	MW-9D	MW-10D	MW-11D	MW-12D	MW-13D	MW-14D
3/25/2009	19.1	BDL	10.4	17.2	BDL	Out of Service	BDL	32.8	BDL	BDL	BDL
9/30/2008	5	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/26/2008	0	BDL	BDL	22.4	BDL	Out of Service	11.2	28	10.1	16.4	BDL
9/27/2007	47	5.6	37.9	20.7	32.3	Out of Service	21.9	13.2	64.5	40.6	23.2
3/27/2007	11	6.6	5.3	15	27	Out of Service	6.9	21	7.8	26	6.7
9/24/2006	61	BDL	11	23	22	Out of Service	17	BDL	64	14	BDL
3/23/2006	29	16	BDL	14	19	Out of Service	22	11	20	33	
10/10/2005	48	BDL	28	17	18	BDL	56	12	12	39	
4/11/2005	10	BDL	18	32	11	20	20	BDL	79		
9/27/2004	10	16	BDL	79	BDL	BDL	BDL	24	95		
3/30/2004	50	18	14	BDL	BDL	60	BDL	BDL	BDL		
9/30/2003	42	24	12	BDL	BDL	17	16	BDL	20		
3/25/2003	30	BDL	BDL	11	30	15	40	16	**320**		
10/28/2002	58	18	BDL	11	32	BDL	30	BDL	BDL		
4/30/2002	18	33	20	52	34	BDL	**210**	33			
10/23/2001	33	BDL	92	33	69	25					
5/1/2001	30	37	21	BDL	BDL	11					
11/6/2000	78	14	18	28	19	10					
4/4/2000	195	BDL	BDL	47	42	BDL					

n=	19	number of observations
Mean=	41	arithmetic mean
SD=	43	standard deviation
K=	2.423	one-sided normal tolerance factor (from table)
TL=	145	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells												
Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
3/25/2009	14.7	37.6	18.9	BDL	BDL	7	BDL	BDL	Out of Service	BDL	BDL	15.5	**50**	BDL
9/30/2008	6.6	12.6	9.8	BDL	5.7	6.3	BDL	BDL	Out of Service	BDL	BDL	6.4	14.8	7.5
3/26/2008	0.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/27/2007	2.5	**49.9**	8.5	1.7	0.9	2.7	BDL	2.6	Out of Service	BDL	13.3	11.9	BDL	24
3/27/2007	1.2	1.1	9.2	0.91	BDL	1.1	3.7	BDL	Out of Service	BDL	1.4	1.1	21	BDL
9/24/2006	12	19	14	BDL	BDL	23	BDL	BDL	Out of Service	BDL	BDL	BDL	19	30
3/23/2006	6.5	**81**	37	7	BDL	**21**	BDL	BDL	Out of Service	5.8	16	6.2	20	
9/26/2005	6.1	**46**	**95**	BDL	BDL	21	13	BDL	BDL	5.3	5.8	5.7	18	
4/11/2005	2.5	**87**	**87**	17	BDL	**110**	**96**	BDL	11	17	BDL	10		
9/27/2004	2.5	**75**	18	BDL	BDL	15	12	BDL	BDL	8.5	BDL	11		
3/30/2004	2.5	19	25	6.9	BDL	BDL	6.4	BDL	BDL	BDL	9.8	BDL		
9/30/2003	9	27	**44**	BDL	BDL	**100**	32	BDL	BDL	5.4	BDL	BDL		
3/25/2003	2.5	5.4	21	BDL	BDL	BDL	BDL	BDL	BDL	14	BDL	18		
10/28/2002	15	BDL	19	BDL	BDL	BDL	17	BDL	BDL	17	BDL	BDL		
4/30/2002	11	**68**	26	9.3	18	**100**	**68**	17	BDL	5.1	**46**			
10/23/2001	17	**44**	17	11	BDL	**190**	**140**	37	BDL					
5/1/2001	30	BDL	15	BDL	BDL	32	18	9.7	BDL					
11/6/2000	34	BDL	20	BDL	28	**89**	22	BDL	BDL					
4/4/2000	2.5	13	BDL	17	BDL	8	BDL	BDL	BDL					
11/2/1999	12	17	18	6	BDL	7	BDL	BDL	BDL					
4/27/1999	19	BDL	26	14	BDL	10	BDL	BDL	BDL					
11/9/1998	37	31	**105**	18	25	26	29	23	BDL					
4/14/1998	29	**42**	**97**	**84**	**46**	20	29	8	**38**					

n=	23	number of observations
Mean=	12	arithmetic mean
SD=	11	standard deviation
K=	2.329	one-sided normal tolerance factor (from table)
TL=	38	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells									
Date	MW-1D	MW-2D	MW-4D	MW-5D	MW-8D	MW-9D	MW-10D	MW-11D	MW-12D	MW-13D	MW-14D
3/25/2009	2.5	BDL	BDL	7.1	BDL	Out of Service	BDL	BDL	BDL	17.5	BDL
9/30/2008	2.5	5	5.4	6.6	BDL	Out of Service	BDL	BDL	5.7	15.2	BDL
3/26/2008	0	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	10	BDL
9/27/2007	11	4.2	BDL	BDL	3.5	Out of Service	3.6	BDL	28.8	8.6	BDL
3/27/2007	1	BDL	0.64	BDL	BDL	Out of Service	BDL	BDL	1.1	BDL	BDL
9/24/2006	3	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	7.8	11	BDL
3/23/2006	3	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	17	
10/10/2005	11	BDL	BDL	BDL	BDL	BDL	19	BDL	BDL	12	
4/11/2005	2.5	BDL	BDL	BDL	BDL	BDL	5.9	BDL	15		
9/27/2004	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	22		
3/30/2004	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/30/2003	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/25/2003	2.5	BDL	BDL	BDL	BDL	BDL	9	BDL	81		
10/28/2002	13	BDL	BDL	BDL	BDL	BDL	8.4	BDL	BDL		
4/30/2002	2.5	5.8	6.6	BDL	BDL	BDL	59	8.4			
10/23/2001	2.5	BDL	9.3	BDL	BDL	BDL					
5/1/2001	33	BDL	BDL	BDL	BDL	BDL					
11/6/2000	51	BDL	BDL	BDL	BDL	BDL					
4/4/2000	126	BDL	BDL	BDL	BDL	BDL					

n=	19	number of observations
Mean=	14	arithmetic mean
SD=	30	standard deviation
K=	2.423	one-sided normal tolerance factor (from table)
TL=	87	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

Vanadium concentrations (ug/l)

Buncombe County New Landfill

Tolerance Interval Calculations
Spring 2009

	Background					Compliance Wells								
Date	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-7**	**MW-8**	**MW-9**	**MW-10**	**MW-11**	**MW-12**	**MW-13**	**MW-14**
3/25/2009	38.6	37.8	93	6.8	20.7	8.2	7.7	5.7	Out of Service	BDL	BDL	22.2	BDL	10.6
9/30/2008	24.3	11.8	15.6	7	8.8	6.1	9.9	6.5	Out of Service	15.4	BDL	BDL	BDL	20.4
3/26/008	37.5	BDL	90.4	10.5	13.7	48.1	9.6	11.5	Out of Service	7.8	BDL	BDL	BDL	56.1
9/27/2007	40.2	76.1	22.5	4.5	8.3	7.7	8.3	3.1	Out of Service	9	58.6	91.9	0.7	111
3/27/2007	25	1.4	22	4.3	7.8	2.2	23	5.4	Out of Service	7.3	2	2.4	BDL	17
9/24/2006	59	23	41	11	25	**120**	11	BDL	Out of Service	27	BDL	8.7	BDL	**430**
3/23/2006	28	92	**190**	32	11	18	5.5	BDL	Out of Service	33	30	17	BDL	
10/10/2005	2.5	59	100	31	26	29	48	BDL	BDL	22	6.1	9.2	BDL	
4/11/2005	6.6	98	**540**	110	13	**430**	**480**	26	7.1	74	BDL	26		
9/27/2004	18	74	37	5.1	25	49	26	14	BDL	46	BDL	24		
3/30/2004	9.1	23	22	38	15	BDL	BDL	15	BDL	18	19	BDL		
9/30/2003	39	30	94	BDL	28	**380**	**140**	7.6	BDL	42	7.9	13		
3/25/2003	13	6.8	66	19	38	BDL	11	7	BDL	69	7.7	45		
10/28/2002	71	BDL	36	BDL	13	BDL	49	BDL	BDL	50	BDL	BDL		
4/30/2002	41	87	**140**	24	**130**	**350**	**310**	72	BDL	21	**130**			
10/23/2001	75	77	97	23	38	**550**	**620**	**160**	BDL					
5/1/2001	17	BDL	22	BDL	51	15	39	16	BDL					
11/6/2000	33	7.8	35	BDL	55	49	46	13	BDL					
4/4/2000	2.5	14	6	56	52	8	BDL	BDL	BDL					
11/2/1999	34	16	75	11	50	30	10	8	BDL					
4/27/1999	72	BDL	**132**	22	50	35	7	12	BDL					
11/9/1998	131	36	**600**	55	116	86	105	81	26					
4/14/1998	105	47	**783**	**342**	**198**	74	**134**	23	**130**					

n=	23	number of observations
Mean=	40	arithmetic mean
SD=	33	standard deviation
K=	2.329	one-sided normal tolerance factor (from table)
TL=	116	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells									
Date	**MW-1D**	**MW-2D**	**MW-4D**	**MW-5D**	**MW-8D**	**MW-9D**	**MW-10D**	**MW-11D**	**MW-12D**	**MW-13D**	**MW-14D**
3/25/2009	5.1	BDL	30.5	7.5	BDL	Out of Service	BDL	BDL	7	17.3	BDL
9/30/2008	2.5	BDL	46.7	BDL	BDL	Out of Service	BDL	BDL	BDL	5.2	BDL
3/26/2008	6	BDL	9.7	BDL	BDL	Out of Service	BDL	BDL	15.5	9.6	BDL
9/27/2007	14	3.1	3.7	1.9	1.9	Out of Service	5.8	1.4	83.1	0.67	2
3/27/2007	6	2.6	4.3	2.4	1.8	Out of Service	3.9	2.1	7.4	30	1.4
9/24/006	16	BDL	21	BDL	BDL	Out of Service	BDL	BDL	93	34	BDL
3/23/2006	9.1	BDL	BDL	BDL	BDL	Out of Service	6.6	BDL	17	80	
10/10/2005	10	BDL	5.1	BDL	BDL	BDL	27	BDL	16	130	
4/11/2005	2.5	BDL	6.1	BDL	BDL	BDL	9.8	BDL	100		
9/27/2004	2.5	9.9	6.2	BDL	BDL	BDL	BDL	BDL	120		
3/30/2004	6.2	8.2	39	BDL	BDL	6.2	BDL	BDL	BDL		
9/30/2003	7	13	8.6	BDL	BDL	11	BDL	BDL	25		
3/25/2003	2.5	BDL	22	BDL	BDL	BDL	25	BDL	**300**		
10/28/2002	29	10	12	BDL	BDL	BDL	14	BDL	BDL		
4/30/2002	7.3	17	59	15	18	BDL	190	13			
10/23/2001	5.6	BDL	100	7.3	8.5	5.4					
5/1/2001	38	8.1	21	BDL	BDL	BDL					
11/6/2000	120	5.3	44	8.3	BDL	BDL					
4/4/2000	420	BDL	BDL	BDL	BDL	BDL					

n=	19	number of observations
Mean=	37	arithmetic mean
SD=	96	standard deviation
K=	2.423	one-sided normal tolerance factor (from table)
TL=	271	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells												
Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
3/25/2009	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/30/2008	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/26/2008	0.25	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/27/2007	0.5	0.53	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/27/2007	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/24/2006	0.5	BDL	BDL	BDL	BDL	1.2	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	**5.5**
3/23/2006	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	
10/10/2005	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
4/11/2005	0.5	BDL	BDL	BDL	BDL	**5.7**	**5.1**	BDL	BDL	**4.9**	BDL	BDL		
9/27/2004	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/30/2004	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/30/2003	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/25/2003	0.5	BDL	1.5	BDL	BDL	BDL	BDL	BDL	BDL	**2.8**	BDL	1.8		
10/28/2002	2.7	BDL	BDL	BDL	BDL	BDL	1.3	BDL	BDL	1.9	BDL	BDL		
4/30/2002	1.4	**10**	**5.2**	1.6	**4.3**	**16**	**12**	**4.5**	BDL	BDL	**6**			
10/23/2001	3.1	**6.3**	**2.9**	BDL	BDL	**28**	**26**	**10**	BDL					
5/1/2001	0.5	BDL	BDL	BDL	BDL	1.5	1.3	BDL	BDL					
11/6/2000	0.5	BDL	BDL	BDL	BDL	BDL	1.4	BDL	BDL					
4/4/2000	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/2/1999	0.5	BDL	BDL	BDL	BDL	BDL	BDL	2	BDL					
4/27/1999	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/9/1998	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
4/14/1998	0.5	2	**3**	**6**	BDL	BDL	BDL	BDL	1					

n=	23	number of observations
Mean=	1	arithmetic mean
SD=	1	standard deviation
K=	2.329	one-sided normal tolerance factor (from table)
TL=	2	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells												
Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
3/25/2009	2.5	BDL	5.1	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/30/2008	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/26/2008	1.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/27/2007	2.5	3.2	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	3.3	4.4	BDL	**7**
3/27/2007	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/24/2006	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	**23**
3/23/2006	2.5	**6.3**	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	
10/10/2005	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
4/11/2005	2.5	BDL	**9.2**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/27/2004	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/30/2004	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/30/2003	2.5	BDL	BDL	BDL	BDL	**8**	BDL	BDL	BDL	BDL	BDL	BDL		
3/25/2003	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
10/28/2002	2.5	5.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4/30/2002	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
10/23/2001	5	BDL	BDL	BDL	BDL	**10**	BDL	BDL	BDL					
5/1/2001	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/6/2000	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
4/4/2000	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/2/1999	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
4/27/1999	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/9/1998	2.5	BDL	**13**	BDL	BDL	BDL	BDL	5	BDL					
4/14/1998	2.5	BDL	**14**	**6**	BDL	BDL	BDL	BDL	**6**					

n=	23	number of observations
Mean=	3	arithmetic mean
SD=	1	standard deviation
K=	2.329	one-sided normal tolerance factor (from table)
TL=	5.6	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells									
Date	MW-1D	MW-2D	MW-4D	MW-5D	MW-8D	MW-9D	MW-10D	MW-11D	MW-12D	MW-13D	MW-14D
3/25/2009	3	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/30/2008	3	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/26/2008	1	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/27/2007	5	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	**6.3**	BDL	BDL
3/27/2007	5	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/24/2006	3	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	**5.7**	BDL	BDL
3/23/2006	3	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	
10/10/2005	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
4/11/2005	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/27/2004	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/30/2004	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/30/2003	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/25/2003	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**7.8**		
10/28/2002	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4/30/2002	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
10/23/2001	5	BDL	BDL	BDL	BDL	BDL					
5/1/2001	5	BDL	BDL	BDL	BDL	BDL					
11/16/2000	5	BDL	BDL	BDL	BDL	BDL					
4/4/2000	2.5	BDL	BDL	BDL	BDL	BDL					

n=	19	number of observations
Mean=	3	arithmetic mean
SD=	1	standard deviation
K=	2.423	one-sided normal tolerance factor (from table)
TL=	6	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells												
Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
3/25/2009	1	BDL	BDL	BDL	**11.2**	BDL	**16.9**	2.4	Out of Service	**26.5**	BDL	BDL	BDL	**9**
9/30/2008	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/26/2008	0.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/27/2007	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/27/2007	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/23/2006	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/23/2006	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	
10/10/2005	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
4/11/2005	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/27/2004	1	2.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/30/2004	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/30/2003	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/25/2003	5	BDL	BDL	**32**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
10/28/2002	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4/30/2002	0.5	BDL	BDL	BDL	1.1	BDL	BDL	BDL	BDL	BDL	BDL			
10/23/2001	1	BDL	BDL	BDL	**7.4**	BDL	BDL	**20.8**	BDL					
5/1/2001	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/6/2000	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
4/4/2000	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/2/1999	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
4/27/1999	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/9/1998	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
4/14/1998	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					

n=	23	number of observations
Mean=	1	arithmetic mean
SD=	1	standard deviation
K=	2.329	one-sided normal tolerance factor (from table)
TL=	4	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells									
Date	MW-1D	MW-2D	MW-4D	MW-5D	MW-8D	MW-9D	MW-10D	MW-11D	MW-12D	MW-13D	MW-14D
3/25/2009	3.1	2.2	BDL	BDL	**35.3**	Out of Service	BDL	BDL	5.8	BDL	BDL
9/30/2008	1	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/26/2008	1	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/27/2007	1	BDL	2.2	BDL	1.6	Out of Service	BDL	BDL	BDL	1.2	BDL
3/27/2007	1	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/24/2006	1	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/23/2006	1	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	
9/26/2005	1	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
4/11/2005	1	BDL	BDL	**27**	3.9	8.4	BDL	BDL	BDL		
9/27/2004	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/30/2004	1	BDL	BDL	BDL	6.4	BDL	BDL	BDL	BDL		
9/30/2003	6.4	BDL	16	BDL	BDL	BDL	BDL	BDL	BDL		
3/25/2003	5	BDL	BDL	**28**	BDL	BDL	BDL	BDL	13		
10/28/2002	14	BDL	**26**	BDL	**52**	**64**	BDL	BDL	BDL		
4/30/2002	0.5	BDL	BDL	15	12	BDL	BDL	BDL			
10/23/2001	29.9	BDL	19.4	**97.2**	3.06	8.18					
5/1/2001	2.5	12	BDL	8.8	BDL	BDL					
11/6/2000	2.5	BDL	BDL	**54**	**39**	13					
4/4/2000	0.5	BDL	BDL	BDL	BDL	BDL					

n=	19	number of observations
Mean=	4	arithmetic mean
SD=	7	standard deviation
K=	2.423	one-sided normal tolerance factor (from table)
TL=	21	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells												
Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
3/25/2009	2.5	**12.3**	6.2	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/30/2008	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/26/2008	2.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	5.6
9/27/2007	2.5	**27.8**	BDL	BDL	BDL	BDL	BDL	**9.4**	Out of Service	5.4	5	BDL	BDL	**15.9**
3/27/2007	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	7.4	BDL	BDL	BDL	BDL
9/24/2006	2.5	8	BDL	BDL	BDL	**16**	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	**92**
3/23/2006	2.5	**45**	**15**	6.8	BDL	5.5	BDL	BDL	Out of Service	5.3	7.5	5	6.3	
9/26/2005	2.5	**22**	**13**	BDL	BDL	6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
4/11/2005	2.5	**47**	**42**	**18**	BDL	**30**	**12**	BDL	BDL	5.9	BDL	BDL		
9/27/2004	2.5	**31**	BDL	BDL	BDL	**10**	BDL	BDL	BDL	BDL	BDL	BDL		
3/30/2004	2.5	**11**	BDL	5.9	BDL	BDL	BDL	BDL	BDL	BDL	6.5	BDL		
9/30/2003	2.5	**12**	6.1	BDL	BDL	**34**	6.5	BDL	BDL	BDL	BDL	BDL		
3/25/2003	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
10/28/2002	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4/30/2002	5	**33**	BDL	BDL	BDL	**12**	BDL	BDL	BDL	BDL	BDL			
10/23/2001	5	**22**	BDL	BDL	BDL	**14**	**10**	**16**	BDL					
5/1/2001	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/6/2000	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
4/4/2000	2	4	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/2/1999	2	5	4	BDL	BDL	BDL	BDL	BDL	BDL					
4/27/1999	6	BDL	**10**	6	BDL	4	BDL	BDL	BDL					
11/9/1998	10	**19**	**32**	6	**12**	**10**	8	**13**	**9**					
4/14/1998	2	**20**	**49**	**23**	**18**	8	**9**	4	**18**					

n=	23	number of observations
Mean=	4	arithmetic mean
SD=	2	standard deviation
K=	2.329	one-sided normal tolerance factor (from table)
TL=	8	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells									
Date	MW-1D	MW-2D	MW-4D	MW-5D	MW-8D	MW-9D	MW-10D	MW-11D	MW-12D	MW-13D	MW-14D
3/25/2009	7.1	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/30/2008	2.5	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/26/2008	2	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/27/2007	11	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	6	BDL	BDL
3/27/2007	5	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/24/2006	17	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	14	BDL	BDL
3/23/2006	8.8	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	7	
10/10/2005	13	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.9	
4/11/2005	2.5	BDL	BDL	BDL	BDL	BDL	5.1	BDL	16		
9/27/2004	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	16		
3/30/2004	6.1	BDL	BDL	BDL	BDL	5.1	BDL	BDL	BDL		
9/30/2003	9.8	BDL	BDL	BDL	BDL	6	BDL	BDL	BDL		
3/25/2003	11	BDL	BDL	BDL	BDL	BDL	12	BDL	BDL		
10/28/2002	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4/30/2002	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
10/23/2001	5	BDL	BDL	BDL	BDL	BDL					
5/1/2001	5	BDL	BDL	BDL	BDL	BDL					
11/6/2000	5	BDL	BDL	BDL	BDL	BDL					
4/4/2000	25	BDL	BDL	BDL	BDL	BDL					

n=	19	number of observations
Mean=	8	arithmetic mean
SD=	6	standard deviation
K=	2.423	one-sided normal tolerance factor (from table)
TL=	22	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells												
Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
3/25/2009	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/30/2008	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/26/2008	1.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/22007	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/27/2007	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/24/2006	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/23/2006	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	
10/10/2005	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
4/11/2005	6.6	BDL	BDL	BDL	**6.8**	**7.6**	**10**	5.2	BDL	5.8	BDL	BDL		
9/27/2004	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/30/2004	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/30/2003	2.5	BDL	BDL	BDL	BDL	BDL	BDL	5.5	BDL	BDL	5.5	BDL		
3/25/2003	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
10/28/2002	5	**13**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4/30/2002	5	BDL	**12**	BDL	BDL	BDL	**16**	**12**	BDL	BDL	BDL			
10/23/2001	5	BDL	BDL	BDL	BDL	**11**	BDL	BDL	BDL					
5/1/2001	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/6/2000	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
4/4/2000	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/2/1999	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
4/27/1999	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/9/1998	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
4/14/1998	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					

n=	23	number of observations
Mean=	3	arithmetic mean
SD=	1	standard deviation
K=	2.329	one-sided normal tolerance factor (from table)
TL=	6	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells									
Date	MW-1D	MW-2D	MW-4D	MW-5D	MW-8D	MW-9D	MW-10D	MW-11D	MW-12D	MW-13D	MW-14D
3/25/2009	2.5	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/30/2008	2.5	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/26/2008	1.3	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/27/2007	2.5	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/27/2007	3	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/24/2006	2.5	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/23/2006	2.5	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	
10/10/2005	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
4/11/2005	2.5	BDL	BDL	**7.9**	BDL	BDL	5.8	BDL	BDL		
9/27/2004	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/30/2004	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/30/2003	2.5	**7.7**	5.5	BDL	BDL	BDL	BDL	BDL	BDL		
3/25/2003	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
10/28/2002	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4/30/2002	5	BDL	BDL	BDL	BDL	BDL	**13**	BDL			
10/23/2001	5	BDL	BDL	BDL	BDL	BDL					
5/1/2001	5	BDL	BDL	BDL	BDL	BDL					
11/6/2000	5	BDL	BDL	BDL	BDL	BDL					
4/4/2000	2.5	BDL	BDL	BDL	BDL	BDL					

n=	19	number of observations
Mean=	3	arithmetic mean
SD=	1	standard deviation
K=	2.423	one-sided normal tolerance factor (from table)
TL=	6	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells												
Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
3/25/2009	0.5	1.4	1.1	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/30/2008	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/26/2008	0.05	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/27/2007	0.5	BDL	BDL	BDL	BDL	0.17	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/27/2007	0.5	BDL	0.21	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/24/2006	0.5	BDL	BDL	BDL	BDL	1.8	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	**4.5**
3/23/2006	0.5	**4**	1.4	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	
9/26/2005	0.5	**3**	**2.5**	1	BDL	1.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
4/11/2005	0.5	**4.5**	**6**	**2.3**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/27/2004	0.5	**2.5**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/30/2004	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/30/2003	0.5	BDL	BDL	BDL	BDL	**4.3**	BDL	BDL	BDL	BDL	BDL	BDL		
3/25/2003	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
10/28/2002	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4/30/2002	2	**5.7**	**2.4**	**2.5**	**2.9**	**6.9**	**3.3**	**3**	BDL	**2**	**3.4**			
10/23/2001	1	**3.2**	BDL	BDL	BDL	**12**	**4.8**	**2.9**	BDL					
5/1/2001	1	BDL	BDL	BDL	BDL	**3.3**	BDL	BDL	BDL					
11/6/2000	2.1	**2.8**	**2.4**	**2.1**	**4.7**	**7**	**2.6**	**2**	BDL					
4/4/2000	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/2/1999	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
4/27/1999	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/9/1998	0.5	1	**5**	BDL	1	1	BDL	1	BDL					
4/14/1998	0.5	**2**	**6**	**4**	**2**	BDL	BDL	BDL	**2**					

n=	23	number of observations
Mean=	1	arithmetic mean
SD=	0	standard deviation
K=	2.329	one-sided normal tolerance factor (from table)
TL=	1.8	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells									
Date	MW-1D	MW-2D	MW-4D	MW-5D	MW-8D	MW-9D	MW-10D	MW-11D	MW-12D	MW-13D	MW-14D
3/25/2009	0.5	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/30/2008	0.5	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/26/2008	0.05	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/27/2007	1.2	BDL	BDL	BDL	BDL	Out of Service	0.54	BDL	BDL	BDL	BDL
3/27/2007	0.3	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/24/2006	1.4	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	**1.6**	BDL	BDL
3/23/206	0.5	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	
9/26/2005	1.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.4	
4/11/2005	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2		
9/27/2004	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.5		
3/30/2004	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/30/2003	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/25/2003	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**4.5**		
10/28/2002	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4/30/2002	2	BDL	2.1	BDL	2.2	BDL	**3**	BDL			
10/23/2001	1	BDL	BDL	BDL	BDL	BDL					
5/1/2001	1	BDL	BDL	BDL	BDL	BDL					
11/6/2000	2.7	2.1	2.5	2.2	BDL	BDL					
4/4/2000	1	BDL	BDL	BDL	BDL	BDL					

n=	19	number of observations
Mean=	1	arithmetic mean
SD=	1	standard deviation
K=	2.423	one-sided normal tolerance factor (from table)
TL=	3	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells												
Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
3/25/2009	2.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/30/2008	2.7	BDL	BDL	BDL	BDL	BDL	**8.8**	BDL	Out of Service	**9.6**	BDL	BDL	BDL	BDL
3/26/2008	1.5	BDL	BDL	**8.3**	BDL	BDL	BDL	**9.5**	Out of Service	BDL	BDL	BDL	BDL	BDL
9/27/2007	6.0	5.7	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	**9**	**12.4**	BDL	**11.1**
3/27/2007	2.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/24/2006	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/23/2006	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	
9/26/2005	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
4/11/2005	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/27/2004	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/30/2004	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/30/2003	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/25/2003	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
10/28/2002	1	BDL	No Data	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4/30/2002	1	BDL	BDL	BDL	BDL	2.8	BDL	BDL	BDL	BDL	BDL			
10/23/2001	1	BDL	BDL	BDL	BDL	2.1	BDL	BDL	BDL					
5/1/2001	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/6/2000	1	BDL	BDL	BDL	2	BDL	BDL	BDL	BDL					
4/4/2000	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/2/1999	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
4/27/1999	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/9/1998	1	BDL	**14**	BDL	BDL	BDL	BDL	BDL	BDL					
4/14/1998	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					

n=	23	number of observations
Mean=	3	arithmetic mean
SD=	2	standard deviation
K=	2.329	one-sided normal tolerance factor (from table)
TL=	7	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background	Compliance Wells									
Date	MW-1D	MW-2D	MW-4D	MW-5D	MW-8D	MW-9D	MW-10D	MW-11D	MW-12D	MW-13D	MW-14D
3/25/2009	2.7	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/30/2008	2.7	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/26/2008	2	BDL	**9.8**	BDL	**7.8**	Out of Service	BDL	BDL	BDL	BDL	BDL
9/27/2007	3	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	**9.2**	BDL	BDL
3/27/2007	3	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/24/2006	5	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/23/2006	5	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	
9/26/2005	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
4/11/2005	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/27/2004	5	BDL	**11**	BDL	BDL	BDL	BDL	BDL	BDL		
3/30/2004	5	No Data	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/30/2003	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/25/2003	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
10/28/2002	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4/30/2002	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
10/23/2001	1	BDL	BDL	BDL	2.3	2.3					
5/1/2001	1	BDL	BDL	BDL	BDL	BDL					
11/6/2000	1	BDL	BDL	BDL	BDL	BDL					
4/4/2000	1	BDL	BDL	BDL	BDL	BDL					

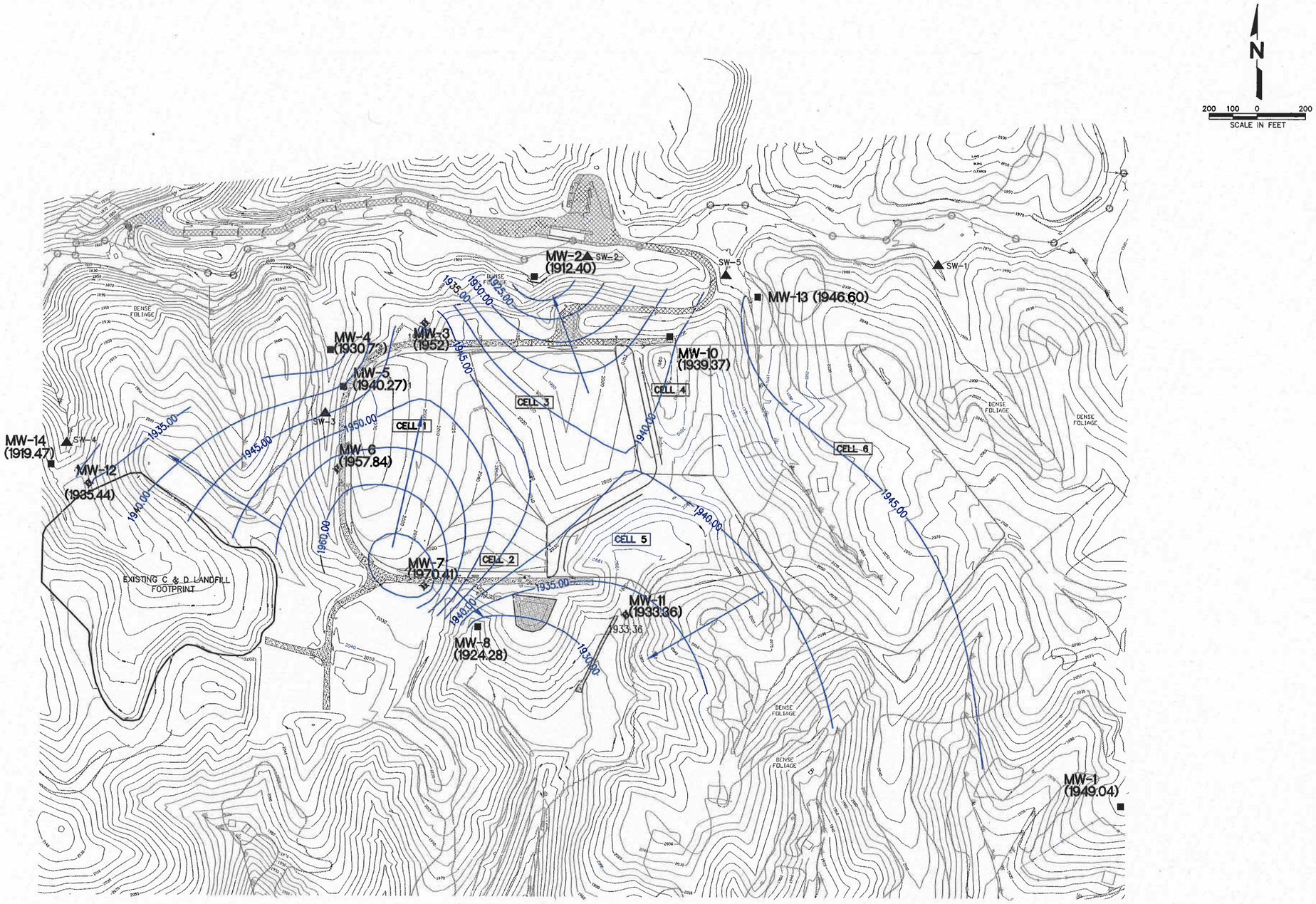
n=	19	number of observations
Mean=	3	arithmetic mean
SD=	2	standard deviation
K=	2.423	one-sided normal tolerance factor (from table)
TL=	7	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)

	Background					Compliance Wells								
Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
3/25/2009	5.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/30/2008	5.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/26/2007	1.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/27/2007	5.0	4.5	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	6.8	12	6.1	11.8
3/27/2007	6.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
9/23/2006	5.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	BDL
3/23/2006	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Out of Service	BDL	BDL	BDL	BDL	
9/26/2005	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
4/11/2005	2.5	BDL	BDL	BDL	BDL	**16**	**15**	BDL	BDL	BDL	BDL	BDL		
9/27/2004	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/30/2004	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9/30/2003	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/25/2003	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
10/28/2002	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4/30/2002	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
10/23/2001	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
5/1/2001	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/6/2000	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
4/4/2000	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/2/1999	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
4/27/1999	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
11/9/1998	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
4/14/1998	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8					

n=	23	number of observations
Mean=	5	arithmetic mean
SD=	3	standard deviation
K=	2.329	one-sided normal tolerance factor (from table)
TL=	12.5	upper tolerance limit = [Mean + (SD x K)]

Bold indicates contamination (upper tolerance limit exceeded)



MW-1	MONITORING WELL
MW-2 MW-2D	MONITORING WELL CLUSTER
M-1	METHANE GAS WELL
(1939.73)	WATER LEVEL ELEVATION (FT. AMSL)
1950	WATER LEVEL CONTOUR (FT. AMSL) (DASHED WHERE INFERRED)
	GROUNDWATER FLOW DIRECTION

REV	DATE	DESCRIPTION	BY

CERTIFICATE NO.

DRAWING TITLE
GROUNDWATER AND SURFACE WATER MONITORING WELL LOCATION MAP

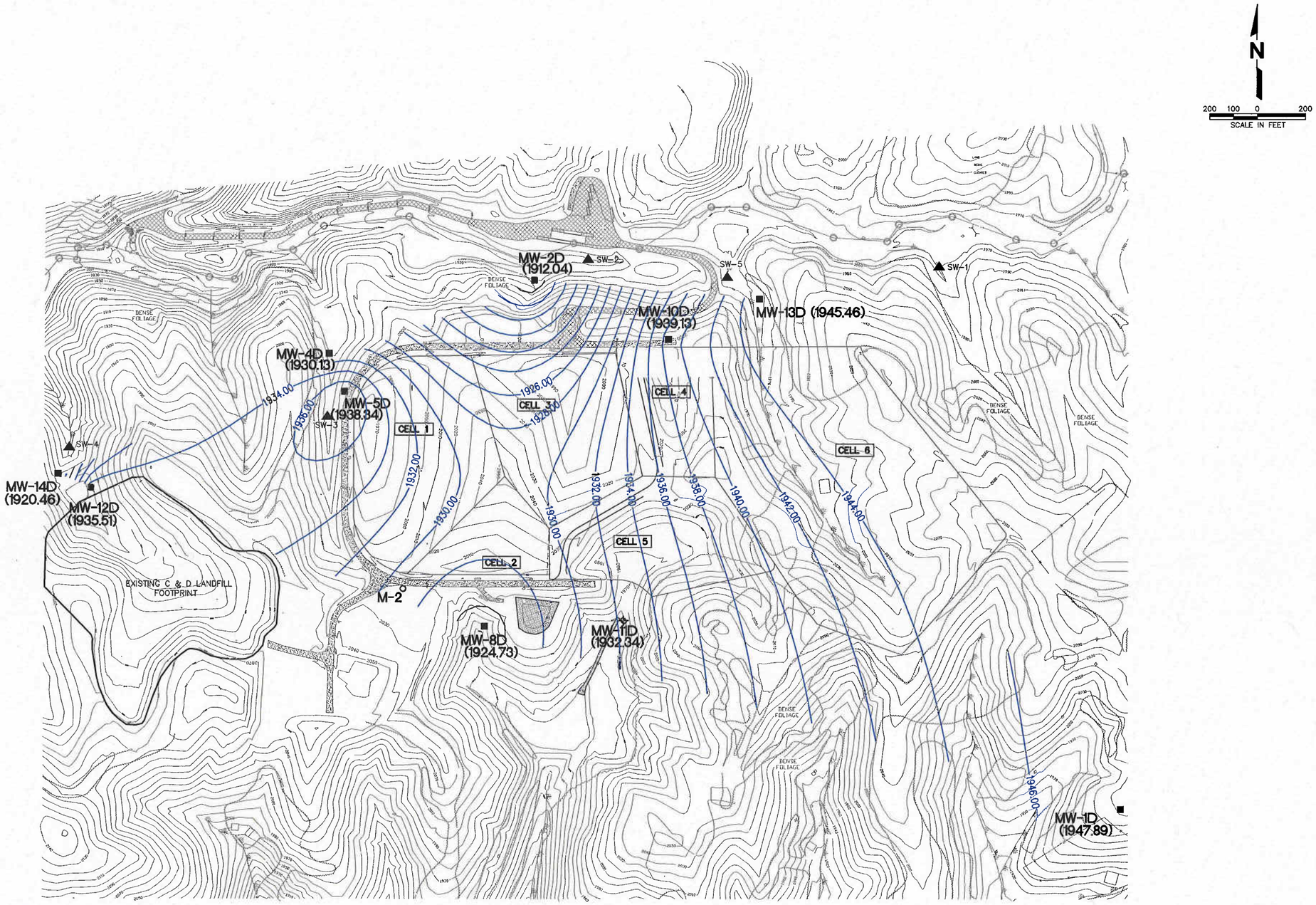
PROJECT TITLE
NEW BUNCOMBE COUNTY LANDFILL SHALLOW MONITORING WELLS

CLIENT
BUNCOMBE COUNTY NORTH CAROLINA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
3012 U.S. HWY. 301 NORTH, SUITE 700, TAMPA, FL 33619
PH (813) 621-0080 FAX NO. (813) 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09204072.01
DSN. BY: PBS&J
DWN. BY: JTK
CHK. BY: CEH
Q/A RVW BY: CEH
APP. BY: CEH

CADD FILE: 047201SITE1
DATE: September 2008
SCALE: AS SHOWN
DRAWING NO. 1 of 1



LEGEND

MW-1	MONITORING WELL
MW-2 MW-2D	MONITORING WELL CLUSTER
M-1	METHANE GAS WELL
(1939.73)	WATER LEVEL ELEVATION (FT. AMSL)
1950	WATER LEVEL CONTOUR (FT. AMSL) (DASHED WHERE INFERRED)
	GROUNDWATER FLOW DIRECTION

REV	DATE	DESCRIPTION	BY

CERTIFICATE NO.

DRAWING TITLE
GROUNDWATER AND SURFACE WATER MONITORING WELL LOCATION MAP

PROJECT TITLE
NEW BUNCOMBE COUNTY LANDFILL DEEP MONITORING WELLS

CLIENT
BUNCOMBE COUNTY NORTH CAROLINA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
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FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09204072.03
DSN. BY: PBS&J
DWN. BY: DKG
CHK. BY: KEG
Q/A RVW BY: KEG
APP. BY: KEG

CADD FILE: 047201SITE1
DATE: APRIL 2009
SCALE: AS SHOWN
DRAWING NO.
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