TABLE 1 - FIELD DATA
DUKE ENERGY McGUIRE NUCLEAR STATION
SOLID WASTE LANDFILL #1 - PERMIT NO. 60-04
GROUNDWATER MONITORING REPORT
S&ME PROJECT 1411-09-047

DATE	WELL NO.	WELL DEPTH (feet)	DEPTH TO WATER (feet)	WATER ELEV. (feet)	DEPTH TO PRODUCT (feet)	ODOR	Purge Method	AVG * PMP RATE (ml/min)	WELL VOL (gal)	EVAC VOL (gal)	EVAC (yes/no)	TEMP (deg C)	SPECIFIC CONDUCTANCE (umho/cm)	pH (units)	TURBIDITY (NTU)	ORP (mV-NHE)	DO (mg/l)
1/11/2010	MW-1	69.00	25.34	704.95	NA	NA	CP	NA	7.12	21.75	NO	15.0	88	6.3	3.9	NA	NA
1/11/2010	MW-1D	88.60	26.31	704.36	NA	NA	CP	NA	10.16	30.75	NO	15.2	73	6.1	4.9	NA	NA
1/11/2010	MW-2A	78.00	51.97	688.28	NA	NA	CP	NA	4.25	17.00	NO	15.7	88	6.8	1.4	NA	NA
1/11/2010	MW-2D	110.10	52.77	688.02	NA	NA	CP	NA	9.35	28.50	NO	15.8	108	7.1	1.6	NA	NA
1/11/2010	MW-3	71.00	56.82	672.22	NA	NA	CP	NA	2.31	10.00	NO	14.7	100	6.5	2.7	NA	NA
1/11/2010	MW-3D	88.88	56.15	672.28	NA	NA	CP	NA	5.34	16.50	NO	14.4	117	6.8	1.4	NA	NA
1/11/2010	MW-4	73.95	64.10	677.14	NA	NA	CP	NA	1.61	1.75	YES	14.6	169	5.7	6.0	NA	NA
1/11/2010	MW-4D	101.48	64.73	675.96	NA	NA	CP	NA	5.99	18.00	NO	15.2	125	6.5	1.1	NA	NA
1/11/2010	MW-11	38.54	23.85	698.77	NA	NA	CP	NA	2.40	6.25	YES	14.5	15	4.7	27.7	NA	NA
1/11/2010	MW-11D	101.80	25.61	697.55	NA	NA	CP	NA	12.43	27.00	NO	14.4	35	5.6	26.8	NA	NA
1/11/2010	MW-12	29.59	18.70	706.13	NA	NA	CP	NA	1.78	6.00	NO	12.9	19	5.0	27.1	NA	NA
1/11/2010	MW-12D	68.56	21.63	703.17	NA	NA	CP	NA	7.65	24.00	NO	14.3	91	6.3	10.4	NA	NA
1/11/2010	SW-1	NA	NA	NA	NA	NA	NP	NA	NA	NA	NA	3.2	110	6.1	30.5	NA	NA

Purge Methods
LF = Low Flow
CP = Coventional Purge (3 to 5 well vol)
BP = No Purge (HydraSleeve)

NA = Not applicable

Field Sampling Performed by Duke Energy

TABLE 2 - FIELD AND GEOCHEMISTRY DATA
DUKE ENERGY McGUIRE NUCLEAR STATION
SOLID WASTE LANDFILL #1 - PERMIT NO. 60-04
GROUNDWATER MONITORING REPORT
S&ME PROJECT 1411-09-047

April 14, 2010

Facility: McGuire Nuclear Station, Solid Waste Landfill No.1 - Permit # 60-04

Sample Date: January 11, 2010 (Field and Geochemistry Data)

Field Sampling Performed by Duke Energy

Laboratory Certificate Codes:
Duke Power Field #5193
Pace Lab #12
Pace Lab #40

Parameter	SW ID	Units	Certificate Codes	Sample Location Identification														15A NCAC 2L*
				6004-MW-1	6004-MW-1D	6004-MW-2A	6004-MW-2D	6004-MW-3	6004-MW-3D	6004-MW-4	SWSL	
Field pH	320	Std. Units	5193	**6.3**	**6.1**	6.8	7.1	**6.5**	6.8	**5.7**		**6.5-8.5**
Field Spec. Conductance	323	umho/cm	5193	88	73	88	108	100	117	169		
Temperature	325	C	5193	15.0	15.2	15.7	15.8	14.7	14.4	14.6		
Top Casing	328	feet		730.29	730.67	740.25	740.79	729.04	728.43	741.24		
Depth to Water	318	feet		25.34	26.31	51.97	52.77	56.82	56.15	64.10		
Water Elevation	319	feet		704.95	704.36	688.28	688.02	672.22	672.28	677.14		
Well Depth	411	feet		69.00	88.60	78.00	110.10	71.00	88.88	73.95		
Arsenic	14	ug/L	40	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	**10**	**10**
Barium	15	ug/L	40	174	63.0 J	14.6 J	13.3 J	36.2 J	19.3 J	66.3 J	**100**	**700**
Cadmium	34	ug/L	40	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**1.0**	**2**
Chloride	301	ug/L	40	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	**NE**	**250000**
Chromium	51	ug/L	40	0.40 U	0.40 U	0.48 J	0.58 J	0.40 U	0.40 U	0.40 U	**10**	**10**
Lead	131	ug/L	40	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	**10**	**15**
Mercury	132	ug/L	40	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	**0.2**	**1**
Selenium	183	ug/L	40	3.8 U	4.5 J	3.8 U	3.8 U	4.7 J	5.4 J	3.8 U	**10**	**20**
Silver	184	ug/L	40	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	**10**	**20**
Sulfate	315	ug/L	40	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	**250000**	**250000**
VOC's **												
Dichlorodiflouromethane	74	ug/L	12	0.21 U	0.21 U	0.21 U	0.21 U	0.45 J	0.85 J	0.36 J	**5**	**1000**
cis-1,2-Dichloroethene	78	ug/L	12	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 J	3.7 J	**5**	**70**
Tetrachloroethene	192	ug/L	12	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	**1.3**	**1**	**0.7**
Toluene	196	ug/L	12	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	**1**	**600**
Trichloroethene	201	ug/L	12	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	1.6	**1**	**3**
Trichlorofluoromethane	203	ug/L	12	0.20 U	0.20 U	0.20 U	0.20 U	0.50 J	0.48 J	0.20 U	**1**	**2000**

Notes:

15A NCAC 2L = 15A NCAC 2L .0200, Groundwater Quality Standards for Class GA groundwater (effective 1/1/10)

BOLD VALUES indicate a values that attain or exceed the 15A NCAC 2L MCL

Values in gray cells indicate values that equal or exceed the SWSL

J = Parameters are values greater than Method Detection Limit (MDL) but less than the SWSL

U = Not detected above the method detection limit, for reporting purposes concentrations have been set equal to the method detection limit

*** Maximum Contaminant Level (MCL)**

**** All EPA method 8260 compounds not specifically listed were less than laboratory reporting limits**

Analytical results provided by Duke Energy and are found in
Pace Lab Report 9261076, dated January 19, 2010.

NC SWSL = North Carolina Solid Waste Section Limit

NE = Not established

TABLE 2 - FIELD AND GEOCHEMISTRY DATA
DUKE ENERGY McGUIRE NUCLEAR STATION
SOLID WASTE LANDFILL #1 - PERMIT NO. 60-04
GROUNDWATER MONITORING REPORT
S&ME PROJECT 1411-09-047

Facility: McGuire Nuclear Station, Solid Waste Landfill No.1 - Permit # 60-04

Sample Date: January 11, 2010 (Field and Geochemistry Data)

Field Sampling Performed by Duke Energy

Laboratory Certificate Codes:
Duke Power Field #5193
Pace Lab #12
Pace Lab #40

Parameter	SW ID	Units	Certificate Codes	Sample Location Identification								SWSL	15A NCAC 2L*
				6004-MW-4D	6004-MW-11	6004-MW-11D	6004-MW-12	6004-MW-12D	6004-SW-1	FIELD BLANK	TRIP BLANK		
Field pH	320	Std. Units	5193	**6.5**	**4.7**	**5.6**	**5.0**	**6.3**	**6.1**				**6.5-8.5**
Field Spec. Conductance	323	umho/cm	5193	125	15	35	19	91	110				
Temperature	325	C	5193	15.2	14.5	14.4	12.9	14.3	3.2				
Top Casing	328	feet		740.69	722.62	723.16	724.83	724.80					
Depth to Water	318	feet		64.73	23.85	25.61	18.70	21.63					
Water Elevation	319	feet		675.96	698.77	697.55	706.13	703.17					
Well Depth	411	feet		101.48	38.54	101.80	29.59	68.56					
Arsenic	14	ug/L	40	2.7 U	2.8 J	4.3 J	3.9 J	2.7 U	2.9 J	3.4 J		**10**	**10**
Barium	15	ug/L	40	17.2 J	7.9 J	20.6 J	11.4 J	13.3 J	34.4 J	0.20 U		**100**	**700**
Cadmium	34	ug/L	40	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		**1.0**	**2**
Chloride	301	ug/L	40	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U		**NE**	**250000**
Chromium	51	ug/L	40	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U		**10**	**10**
Lead	131	ug/L	40	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U		**10**	**15**
Mercury	132	ug/L	40	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U		**0.2**	**1**
Selenium	183	ug/L	40	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U		**10**	**20**
Silver	184	ug/L	40	0.10 U	0.10 U	0.10 U	0.10 U	0.14 J	0.10 U	0.10 U		**10**	**20**
Sulfate	315	ug/L	40	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U		**250000**	**250000**
VOC's **													
Dichlorodiflouromethane	74	ug/L	12	0.56 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	**5**	**1000**
cis-1,2-Dichloroethene	78	ug/L	12	0.99 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	**5**	**70**
Tetrachloroethene	192	ug/L	12	0.57 J	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	**1**	**0.7**
Toluene	196	ug/L	12	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.29 J	0.26 U	0.26 U	**1**	**600**
Trichloroethene	201	ug/L	12	1.1	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	**1**	**3**
Trichlorofluoromethane	203	ug/L	12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**1**	**2000**

Notes:

15A NCAC 2L = 15A NCAC 2L .0200, Groundwater Quality Standards for Class GA groundwater (effective 1/1/10)

NC SWSL = North Carolina Solid Waste Section Limit

BOLD VALUES indicate a values that attain or exceed the 15A NCAC 2L MCL

NE = Not established

Values in gray cells indicate values that equal or exceed the SWSL

J = Parameters are values greater than Method Detection Limit (MDL) but less than the SWSL

U = Not detected above the method detection limit, for reporting purposes concentrations have been set equal to the method detection limit

*** Maximum Contaminant Level (MCL)**

**** All EPA method 8260 compounds not specifically listed were less than laboratory reporting limits**

Analytical results provided by Duke Energy and are found in

Pace Lab Report 9261076, dated January 19, 2010.

TABLE 3 - RADIOLOGICAL ANALYTICAL RESULTS
DUKE ENERGY McGUIRE NUCLEAR STATION
LANDFILL #1 - PERMIT #60-04
GROUNDWATER MONITORING REPORT
S&ME PROJECT 1411-09-047

April 14, 2010

Facility: McGuire Nuclear Station - Synthetically Lined Solid Waste Landfill No.1 - Permit #60-04

Sample Date: January 11, 2010 (Radiological Data)

Field sampling performed by Duke Energy

Parameter	Units	Certificate Code	Sample Location Identification												
			6004-MW-1	6004-MW-1D	6004-MW-2A	6004-MW-2D	6004-MW-3	6004-MW-3D	6004-MW-4	6004-MW-4D	6004-MW-11	6004-MW-11D	6004-MW-12	6004-MW-12D	6004- SW-1
ALPHA	pCi/l	248	< -0.100	< -.000706	< 0.190	< 0.00098	< 0.095	< -0.052	< -0.0057	< 0.051	< -0.038	< 0.301	0.678	< -0.048	< -0.056
BALA140	pCi/l	248	< 5.485	< 6.162	< 6.330	< 5.042	< 4.873	< 5.439	< 5.794	< 3.887	< 5.803	< 5.073	< 4.924	< 5.357	< 4.181
BE7	pCi/l	248	< 39.09	< 36.78	< 37.15	< 26.44	< 28.04	< 33.39	< 41.61	< 38.77	< 39.76	< 37.92	< 31.09	< 34.18	< 23.01
BETA	pCi/l	248	0.853	< 0.186	< -0.210	< -0.260	< 0.160	< 0.200	1.420	< 0.013	< -0.370	< -0.730	< -0.390	< -0.330	0.898
CO58	pCi/l	248	< 4.168	< 4.260	< 4.360	< 3.497	< 3.315	< 4.134	< 4.322	< 3.968	< 4.839	< 3.880	< 3.978	< 3.422	< 2.560
CO60	pCi/l	248	< 4.913	< 4.651	< 3.528	< 4.001	< 4.149	< 4.353	< 4.134	< 4.864	< 5.523	< 5.687	< 4.033	< 4.733	< 2.795
CS134	pCi/l	248	< 4.322	< 3.797	< 4.213	< 3.245	< 3.408	< 3.970	< 4.529	< 3.629	< 4.525	< 3.923	< 3.401	< 4.259	< 3.071
CS137	pCi/l	248	< 4.080	< 3.839	< 4.258	< 3.454	< 3.998	< 3.928	< 4.501	< 4.334	< 5.124	< 5.318	< 3.976	< 4.442	< 2.879
FE59	pCi/l	248	< 8.110	< 8.197	< 7.657	< 6.286	< 7.452	< 7.979	< 9.497	< 8.937	< 9.769	< 8.405	< 7.198	< 8.644	< 6.031
H3	pCi/l	248	< -14.8	< 29.2	< 49.7	< 6.33	< -29.3	< 2.12	< 29.7	< 33.8	< 64.1	< 41.6	< 102	< 69.9	< 82.0
I131	pCi/l	248	<5.500	< 4.921	< 6.016	< 3.512	< 3.743	< 5.243	< 5.360	< 4.353	< 5.342	< 4.934	< 4.500	< 5.444	< 2.990
K40	pCi/l	248	< 72.45	48.46	45.31	59.57	62.19	103.2	85.26	44.87	101.0	36.60	101.7	< 80.49	55.18
MN54	pCi/l	248	< 4.423	< 4.389	< 4.757	< 3.265	< 3.308	< 3.719	< 4.557	< 4.054	< 4.018	< 3.138	< 4.323	< 2.165	< 2.952
NB95	pCi/l	248	< 4.760	< 5.417	< 5.085	< 3.793	< 3.753	< 5.105	< 4.117	< 5.090	< 5.567	< 3.872	< 4.617	< 4.804	< 2.918
ZN65	pCi/l	248	< 9.546	< 9.960	< 9.756	< 7.719	< 8.011	< 9.741	< 9.274	< 9.285	< 9.249	< 9.964	< 8.224	< 9.227	< 7.325
ZR95	pCi/l	248	< 7.679	< 7.224	< 6.672	< 6.564	< 5.851	< 7.351	< 6.622	< 6.731	< 8.205	< 9.769	< 7.237	< 8.020	< 5.331

Notes:
Analytical results provided by Duke Energy and are found in
Duke Energy Lab Report 09-Dec-0008, dated January 25, 2010.