

**MWH**

July 13, 2005

Mr. Robert Drustrup  
Contaminated Sites Section  
Iowa Department of Natural Resources  
Wallace State Office Building  
502 East 9<sup>th</sup> Street  
Des Moines, IA 50319-0034

MWH #1912525.0201

RE: Response to Comments on the  
June 2005 Risk Evaluation/Response Action Report  
Vandalia Road Site - Pleasant Hill, Iowa

Dear Mr. Drustrup:

On behalf of MidAmerican Energy Company (MidAmerican), MWH has prepared this letter to respond to the Iowa Department of Natural Resources' (IDNR's) June 17, 2005 comments on the Risk Evaluation/Response Action (RE/RA) Report for the Vandalia Road Site located at 4895 Vandalia Road in Pleasant Hill, Iowa.

MidAmerican acknowledges IDNR's comments regarding the general risk assessment procedures used for the site. As stated in the June 17, 2005 comment letter, use of the IDNR's preferred methods and exposure scenarios would not result in significant changes to the conclusions of the RE/RA; therefore, no modifications have been made to the RE/RA Report.

Based on the June 17, 2005 comment letter and your subsequent telephone conversation with Michelle Wei of MidAmerican, additional surface soil sampling was conducted on June 20, 2005 in the vicinity of GP-3 and SB-9 (Figure 1). Six additional surface soil samples were collected around each location. The laboratory was directed to analyze the three samples collected closest to GP-3 and SB-9 and hold the outer three samples in each area pending the initial results. At each location, the inner tier of samples verified that residual contamination present in these areas is not of significant extent and, as a result, the outer tier of samples was not analyzed. A copy of the laboratory analytical report is provided in Attachment A. Based on the limited impact and your conversations with Michelle Wei, the decision was made to not expand the easement area or conduct additional sampling. The No Further Action (NFA) certification for the site will include the channel area, the Land Treatment Unit (LTU), and site-wide groundwater. The NFA for soil will not include the GP-3 or SB-9 areas.

RECEIVED JUL 15 2005

MidAmerican acknowledges and accepts the bulleted items related to the NFA provided in your June 17, 2005 letter.

As you know, IDNR has signed the Environmental Protection Easement (easement) for the site. The easement was recorded at the Polk County Recorder on June 29, 2005. A copy will be provided in the upcoming final report for the site.

If you have any questions, or need additional information, please contact Michelle Wei of MidAmerican or me.

Sincerely,

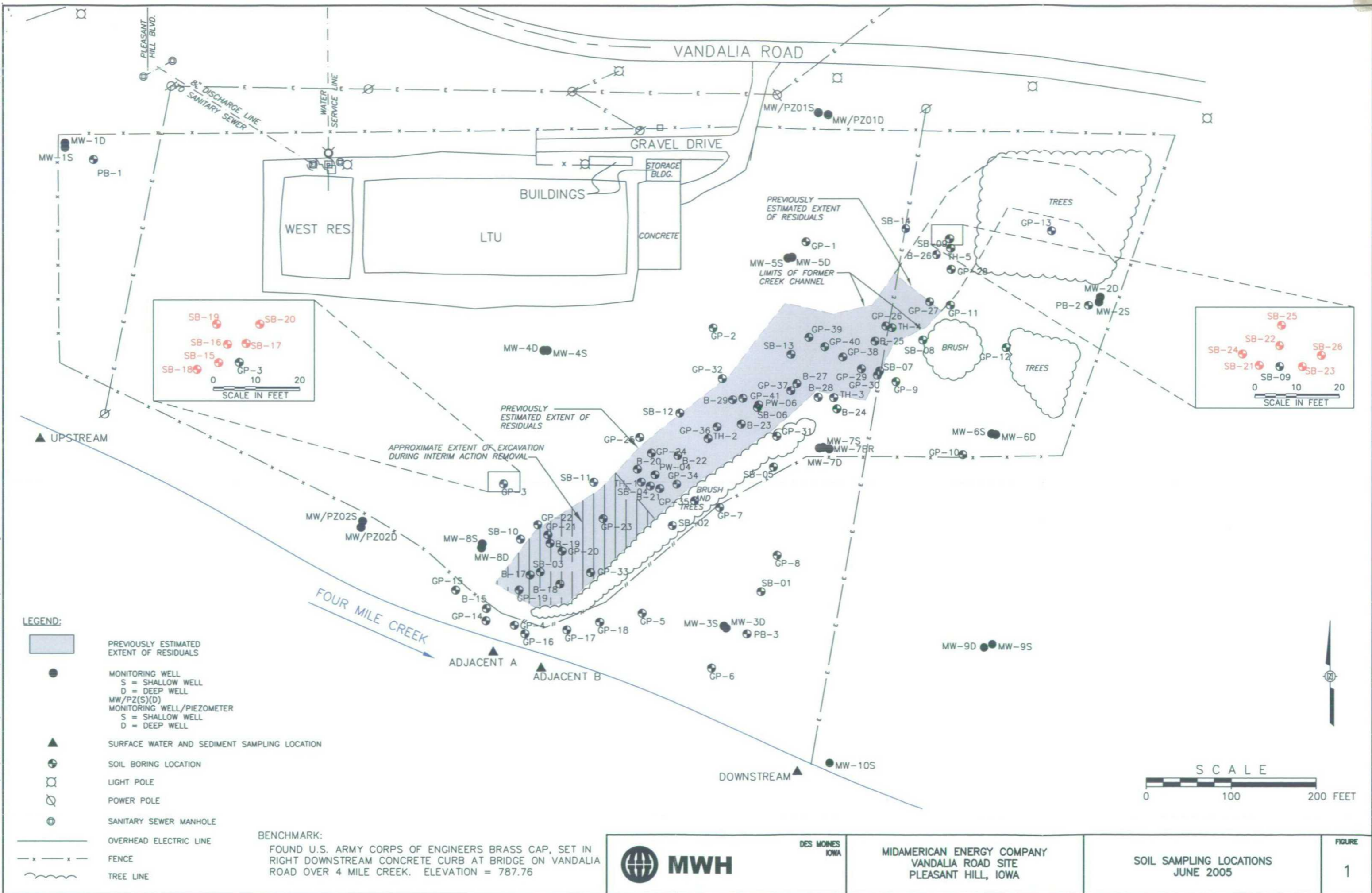


Kevin G. Armstrong, C.P.G.  
Project Manager

/kga:vas

Enclosures

cc: Michelle Wei - MidAmerican



<p>DES MOINES IOWA</p>	<p>MIDAMERICAN ENERGY COMPANY          VANDALIA ROAD SITE          PLEASANT HILL, IOWA</p>	<p>SOIL SAMPLING LOCATIONS          JUNE 2005</p>	<p>FIGURE          1</p>
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# **ATTACHMENT A**

## ANALYTICAL AND QUALITY CONTROL REPORT

**RECEIVED**

JUN 27 2005

Michelle Wei  
MIDAMERICAN ENERGY-MWH  
Urbandale Business Center  
4299 NW Urbandale Drive  
Urbandale, IA 50322-7916

06/23/2005

MW/IOWA

TestAmerica Job: 05.07871

Project Number: 1912525.0101  
Project: MEC-Vandalia Road

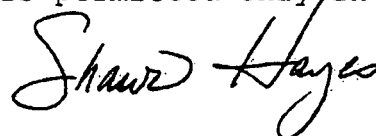
Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
871337	SB15 0-2'	06/20/2005	06/21/2005
871338	SB16 0-2'	06/20/2005	06/21/2005
871339	SB17 0-2'	06/20/2005	06/21/2005
871340	SB21 0-2'	06/20/2005	06/21/2005
871341	SB22 0-2'	06/20/2005	06/21/2005
871342	SB23 0-2'	06/20/2005	06/21/2005

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.



Shawn Hayes  
Project Manager

## CASE NARRATIVE

Michelle Wei  
MIDAMERICAN ENERGY-MWH  
Urbandale Business Center  
4299 NW Urbandale Drive  
Urbandale, IA 50322-7916

06/23/2005

Job Number: 05.07871

Sample receipt information is provided on the sample receipt log attached at the end of this report. Any deviations from normal protocols are noted by data qualifier flags or listed below.

Results present at a level between the method detection limit (MDL) and the limit of quantitation (LOQ) are less certain than results at or above the LOQ.

## ANALYTICAL REPORT

Michelle Wei  
 MIDAMERICAN ENERGY-MWH  
 Urbandale Business Center  
 4299 NW Urbandale Drive  
 Urbandale, IA 50322-7916

06/23/2005

TestAmerica Job Number: 05.07871

Client Project ID: MEC-Vandalia Road

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
<b>SAMPLE NO.</b>	<b>SAMPLE DESCRIPTION</b>					<b>DATE-TIME TAKEN</b>				
871337	SB15 0-2'					06/20/2005 11:55				
Solids, Total	80.18		%	0.01	0.01	06/21/2005	sas		2953	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					06/21/2005	dmm	168		SW 3550
BNA Soil 8270 MDL										
Acenaphthene	<0.062		mg/kg dw	0.062	0.185	06/22/2005	dmd	168	289	SW 8270C
Acenaphthylene	0.21		mg/kg dw	0.057	0.171	06/22/2005	dmd	168	289	SW 8270C
Anthracene	<0.060		mg/kg dw	0.060	0.178	06/22/2005	dmd	168	289	SW 8270C
Benzo(a)anthracene	<0.064		mg/kg dw	0.064	0.192	06/22/2005	dmd	168	289	SW 8270C
Benzo(b)fluoranthene	0.09		mg/kg dw	0.062	0.188	06/22/2005	dmd	168	289	SW 8270C
Benzo(k)fluoranthene	0.09		mg/kg dw	0.064	0.192	06/22/2005	dmd	168	289	SW 8270C
Benzo(a)pyrene	0.19		mg/kg dw	0.057	0.171	06/22/2005	dmd	168	289	SW 8270C
Benzo(ghi)perylene	0.22		mg/kg dw	0.057	0.171	06/22/2005	dmd	168	289	SW 8270C
Chrysene	0.09		mg/kg dw	0.062	0.188	06/22/2005	dmd	168	289	SW 8270C
Dibenzo(a,h)anthracene	<0.046		mg/kg dw	0.046	0.137	06/22/2005	dmd	168	289	SW 8270C
Fluoranthene	0.06		mg/kg dw	0.059	0.175	06/22/2005	dmd	168	289	SW 8270C
Fluorene	<0.062		mg/kg dw	0.062	0.188	06/22/2005	dmd	168	289	SW 8270C
Indeno(1,2,3-cd)pyrene	0.14		mg/kg dw	0.057	0.171	06/22/2005	dmd	168	289	SW 8270C
Naphthalene	<0.060		mg/kg dw	0.060	0.181	06/22/2005	dmd	168	289	SW 8270C
Phenanthrene	<0.062		mg/kg dw	0.062	0.185	06/22/2005	dmd	168	289	SW 8270C
Pyrene	0.12		mg/kg dw	0.067	0.203	06/22/2005	dmd	168	289	SW 8270C
Nitrobenzene-d5 (surr)	71		%			06/22/2005	dmd	168	289	SW 8270C
2-Fluorobiphenyl (surr)	75		%			06/22/2005	dmd	168	289	SW 8270C
Terphenyl-d14 (surr)	90		%			06/22/2005	dmd	168	289	SW 8270C

## ANALYTICAL REPORT

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 MIDAMERICAN ENERGY-MWH  
 Urbandale Business Center  
 4299 NW Urbandale Drive  
 Urbandale, IA 50322-7916

06/23/2005

TestAmerica Job Number: 05.07871

Client Project ID: MEC-Vandalia Road

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
<b>SAMPLE NO.</b>	<b>SAMPLE DESCRIPTION</b>					<b>DATE-TIME TAKEN</b>				
871338	SB16 0-2'					06/20/2005 12:05				
Solids, Total	76.80		%	0.01	0.01	06/21/2005	sas		2953	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					06/21/2005	dmm	168		SW 3550
BNA Soil 8270 MDL										
Acenaphthene	<0.062		mg/kg dw	0.062	0.190	06/22/2005	dmd	168	289	SW 8270C
Acenaphthylene	0.09		mg/kg dw	0.059	0.174	06/22/2005	dmd	168	289	SW 8270C
Anthracene	<0.061		mg/kg dw	0.061	0.182	06/22/2005	dmd	168	289	SW 8270C
Benzo(a)anthracene	<0.065		mg/kg dw	0.065	0.197	06/22/2005	dmd	168	289	SW 8270C
Benzo(b)fluoranthene	<0.064		mg/kg dw	0.064	0.193	06/22/2005	dmd	168	289	SW 8270C
Benzo(k)fluoranthene	<0.065		mg/kg dw	0.065	0.197	06/22/2005	dmd	168	289	SW 8270C
Benzo(a)pyrene	0.09		mg/kg dw	0.059	0.174	06/22/2005	dmd	168	289	SW 8270C
Benzo(ghi)perylene	0.09		mg/kg dw	0.059	0.174	06/22/2005	dmd	168	289	SW 8270C
Chrysene	<0.064		mg/kg dw	0.064	0.193	06/22/2005	dmd	168	289	SW 8270C
Dibenzo(a,h)anthracene	<0.047		mg/kg dw	0.047	0.141	06/22/2005	dmd	168	289	SW 8270C
Fluoranthene	<0.060		mg/kg dw	0.060	0.178	06/22/2005	dmd	168	289	SW 8270C
Fluorene	<0.064		mg/kg dw	0.064	0.193	06/22/2005	dmd	168	289	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.059		mg/kg dw	0.059	0.174	06/22/2005	dmd	168	289	SW 8270C
Naphthalene	<0.061		mg/kg dw	0.061	0.185	06/22/2005	dmd	168	289	SW 8270C
Phenanthrene	<0.062		mg/kg dw	0.062	0.190	06/22/2005	dmd	168	289	SW 8270C
Pyrene	0.08		mg/kg dw	0.069	0.208	06/22/2005	dmd	168	289	SW 8270C
Nitrobenzene-d5 (surr)	68		‰			06/22/2005	dmd	168	289	SW 8270C
2-Fluorobiphenyl (surr)	74		‰			06/22/2005	dmd	168	289	SW 8270C
Terphenyl-d14 (surr)	92		‰			06/22/2005	dmd	168	289	SW 8270C

## ANALYTICAL REPORT

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
<b>SAMPLE NO.</b>	<b>SAMPLE DESCRIPTION</b>					<b>DATE-TIME TAKEN</b>				
871339	SB17 0-2'					06/20/2005 12:12				
Solids, Total	80.07		%	0.01	0.01	06/21/2005	sas		2953	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					06/21/2005	dmm	168		SW 3550
BNA Soil 8270 MDL										
Acenaphthene	<0.062		mg/kg dw	0.062	0.185	06/22/2005	dmd	168	289	SW 8270C
Acenaphthylene	<0.057		mg/kg dw	0.057	0.171	06/22/2005	dmd	168	289	SW 8270C
Anthracene	<0.060		mg/kg dw	0.060	0.179	06/22/2005	dmd	168	289	SW 8270C
Benzo(a)anthracene	<0.064		mg/kg dw	0.064	0.192	06/22/2005	dmd	168	289	SW 8270C
Benzo(b)fluoranthene	<0.062		mg/kg dw	0.062	0.189	06/22/2005	dmd	168	289	SW 8270C
Benzo(k)fluoranthene	<0.064		mg/kg dw	0.064	0.192	06/22/2005	dmd	168	289	SW 8270C
Benzo(a)pyrene	<0.057		mg/kg dw	0.057	0.171	06/22/2005	dmd	168	289	SW 8270C
Benzo(ghi)perylene	<0.057		mg/kg dw	0.057	0.171	06/22/2005	dmd	168	289	SW 8270C
Chrysene	<0.062		mg/kg dw	0.062	0.189	06/22/2005	dmd	168	289	SW 8270C
Dibenzo(a,h)anthracene	<0.046		mg/kg dw	0.046	0.137	06/22/2005	dmd	168	289	SW 8270C
Fluoranthene	<0.059		mg/kg dw	0.059	0.175	06/22/2005	dmd	168	289	SW 8270C
Fluorene	<0.062		mg/kg dw	0.062	0.189	06/22/2005	dmd	168	289	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.057		mg/kg dw	0.057	0.171	06/22/2005	dmd	168	289	SW 8270C
Naphthalene	<0.060		mg/kg dw	0.060	0.181	06/22/2005	dmd	168	289	SW 8270C
Phenanthrene	<0.062		mg/kg dw	0.062	0.185	06/22/2005	dmd	168	289	SW 8270C
Pyrene	<0.067		mg/kg dw	0.067	0.204	06/22/2005	dmd	168	289	SW 8270C
Nitrobenzene-d5 (surr)	70		%			06/22/2005	dmd	168	289	SW 8270C
2-Fluorobiphenyl (surr)	74		%			06/22/2005	dmd	168	289	SW 8270C
Terphenyl-d14 (surr)	95		%			06/22/2005	dmd	168	289	SW 8270C

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
<b>SAMPLE NO.</b>	<b>SAMPLE DESCRIPTION</b>					<b>DATE-TIME TAKEN</b>				
871340	SB21 0-2'					06/20/2005 13:10				
Solids, Total	60.95		%	0.01	0.01	06/21/2005	sas		2953	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					06/21/2005	dmm	168		SW 3550
BNA Soil 8270 MDL										
Acenaphthene	<0.082		mg/kg dw	0.082	0.243	06/22/2005	dmd	168	289	SW 8270C
Acenaphthylene	<0.075		mg/kg dw	0.075	0.225	06/22/2005	dmd	168	289	SW 8270C
Anthracene	<0.079		mg/kg dw	0.079	0.235	06/22/2005	dmd	168	289	SW 8270C
Benzo(a)anthracene	<0.084		mg/kg dw	0.084	0.253	06/22/2005	dmd	168	289	SW 8270C
Benzo(b)fluoranthene	<0.082		mg/kg dw	0.082	0.248	06/22/2005	dmd	168	289	SW 8270C
Benzo(k)fluoranthene	<0.084		mg/kg dw	0.084	0.253	06/22/2005	dmd	168	289	SW 8270C
Benzo(a)pyrene	<0.075		mg/kg dw	0.075	0.225	06/22/2005	dmd	168	289	SW 8270C
Benzo(ghi)perylene	<0.075		mg/kg dw	0.075	0.225	06/22/2005	dmd	168	289	SW 8270C
Chrysene	<0.082		mg/kg dw	0.082	0.248	06/22/2005	dmd	168	289	SW 8270C
Dibenzo(a,h)anthracene	<0.061		mg/kg dw	0.061	0.180	06/22/2005	dmd	168	289	SW 8270C
Fluoranthene	<0.077		mg/kg dw	0.077	0.230	06/22/2005	dmd	168	289	SW 8270C
Fluorene	<0.082		mg/kg dw	0.082	0.248	06/22/2005	dmd	168	289	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.075		mg/kg dw	0.075	0.225	06/22/2005	dmd	168	289	SW 8270C
Naphthalene	<0.079		mg/kg dw	0.079	0.238	06/22/2005	dmd	168	289	SW 8270C
Phenanthrene	<0.082		mg/kg dw	0.082	0.243	06/22/2005	dmd	168	289	SW 8270C
Pyrene	<0.089		mg/kg dw	0.089	0.267	06/22/2005	dmd	168	289	SW 8270C
Nitrobenzene-d5 (surr)	71		%			06/22/2005	dmd	168	289	SW 8270C
2-Fluorobiphenyl (surr)	76		%			06/22/2005	dmd	168	289	SW 8270C
Terphenyl-d14 (surr)	101		%			06/22/2005	dmd	168	289	SW 8270C

# TestAmerica

ANALYTICAL TESTING CORPORATION

704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

## ANALYTICAL REPORT

Michelle Wei  
MIDAMERICAN ENERGY-MWH  
Urbandale Business Center  
4299 NW Urbandale Drive  
Urbandale, IA 50322-7916

06/23/2005

TestAmerica Job Number: 05.07871

Client Project ID: MEC-Vandalia Road

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
871341	SB22 0-2'								06/20/2005 13:30	
Solids, Total	70.14		%	0.01	0.01	06/21/2005	sas		2953	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					06/21/2005	dmm	168		SW 3550
BNA Soil 8270 MDL										
Acenaphthene	<0.071		mg/kg dw	0.071	0.211	06/22/2005	dmd	168	289	SW 8270C
Acenaphthylene	0.30		mg/kg dw	0.066	0.195	06/22/2005	dmd	168	289	SW 8270C
Anthracene	0.07		mg/kg dw	0.068	0.204	06/22/2005	dmd	168	289	SW 8270C
Benzo(a)anthracene	0.33		mg/kg dw	0.073	0.220	06/22/2005	dmd	168	289	SW 8270C
Benzo(b)fluoranthene	0.17		mg/kg dw	0.071	0.215	06/22/2005	dmd	168	289	SW 8270C
Benzo(k)fluoranthene	0.20		mg/kg dw	0.073	0.220	06/22/2005	dmd	168	289	SW 8270C
Benzo(a)pyrene	0.34		mg/kg dw	0.066	0.195	06/22/2005	dmd	168	289	SW 8270C
Benzo(ghi)perylene	0.17		mg/kg dw	0.066	0.195	06/22/2005	dmd	168	289	SW 8270C
Chrysene	0.38		mg/kg dw	0.071	0.215	06/22/2005	dmd	168	289	SW 8270C
Dibenzo(a,h)anthracene	<0.053		mg/kg dw	0.053	0.157	06/22/2005	dmd	168	289	SW 8270C
Fluoranthene	0.47		mg/kg dw	0.067	0.200	06/22/2005	dmd	168	289	SW 8270C
Fluorene	<0.071		mg/kg dw	0.071	0.215	06/22/2005	dmd	168	289	SW 8270C
Indeno(1,2,3-cd)pyrene	0.16		mg/kg dw	0.066	0.195	06/22/2005	dmd	168	289	SW 8270C
Naphthalene	<0.068		mg/kg dw	0.068	0.207	06/22/2005	dmd	168	289	SW 8270C
Phenanthrene	0.23		mg/kg dw	0.071	0.211	06/22/2005	dmd	168	289	SW 8270C
Pyrene	0.70		mg/kg dw	0.077	0.232	06/22/2005	dmd	168	289	SW 8270C
Nitrobenzene-d5 (surr)	66		%			06/22/2005	dmd	168	289	SW 8270C
2-Fluorobiphenyl (surr)	78		%			06/22/2005	dmd	168	289	SW 8270C
Terphenyl-d14 (surr)	91		%			06/22/2005	dmd	168	289	SW 8270C



ANALYTICAL TESTING CORPORATION

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ANALYTICAL REPORT

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 Urbandale Business Center  
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 Urbandale, IA 50322-7916

06/23/2005

TestAmerica Job Number: 05.07871  
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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
871342	SB23 0-2'					06/20/2005 13:38				
Solids, Total	67.09		%	0.01	0.01	06/21/2005	sas		2953	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					06/21/2005	dmm	168		SW 3550
BNA Soil 8270 MDL										
Acenaphthene	<0.075		mg/kg dw	0.075	0.221	06/22/2005	dmd	168	289	SW 8270C
Acenaphthylene	0.42		mg/kg dw	0.069	0.204	06/22/2005	dmd	168	289	SW 8270C
Anthracene	<0.072		mg/kg dw	0.072	0.213	06/22/2005	dmd	168	289	SW 8270C
Benzo (a)anthracene	0.28		mg/kg dw	0.076	0.230	06/22/2005	dmd	168	289	SW 8270C
Benzo (b)fluoranthene	0.19		mg/kg dw	0.075	0.225	06/22/2005	dmd	168	289	SW 8270C
Benzo (k)fluoranthene	0.21		mg/kg dw	0.076	0.230	06/22/2005	dmd	168	289	SW 8270C
Benzo (a)pyrene	0.40		mg/kg dw	0.069	0.204	06/22/2005	dmd	168	289	SW 8270C
Benzo (ghi)perylene	0.24		mg/kg dw	0.069	0.204	06/22/2005	dmd	168	289	SW 8270C
Chrysene	0.33		mg/kg dw	0.075	0.225	06/22/2005	dmd	168	289	SW 8270C
Dibenzo (a, h)anthracene	<0.055		mg/kg dw	0.055	0.164	06/22/2005	dmd	168	289	SW 8270C
Fluoranthene	0.27		mg/kg dw	0.070	0.209	06/22/2005	dmd	168	289	SW 8270C
Fluorene	<0.075		mg/kg dw	0.075	0.225	06/22/2005	dmd	168	289	SW 8270C
Indeno (1, 2, 3-cd)pyrene	0.18		mg/kg dw	0.069	0.204	06/22/2005	dmd	168	289	SW 8270C
Naphthalene	<0.072		mg/kg dw	0.072	0.216	06/22/2005	dmd	168	289	SW 8270C
Phenanthrene	<0.075		mg/kg dw	0.075	0.221	06/22/2005	dmd	168	289	SW 8270C
Pyrene	0.48		mg/kg dw	0.080	0.243	06/22/2005	dmd	168	289	SW 8270C
Nitrobenzene-d5 (surr)	74		%			06/22/2005	dmd	168	289	SW 8270C
2-Fluorobiphenyl (surr)	80		%			06/22/2005	dmd	168	289	SW 8270C
Terphenyl-d14 (surr)	91		%			06/22/2005	dmd	168	289	SW 8270C

# TestAmerica

ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

## QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Michelle Wei  
MIDAMERICAN ENERGY-MWH  
Urbandale Business Center  
4299 NW Urbandale Drive  
Urbandale, IA 50322-7916

06/23/2005

Job Number: 05.07871

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Date Flag Analyzed
BNA Soil 8270 MDL							
Acenaphthene		289	60.00	ug/L	59.7	100	06/22/2005
Pyrene		289	60.00	ug/L	57.7	96	06/22/2005
Nitrobenzene-d5 (surr)		289	60.00	ug/L	59.0	98	06/22/2005
2-Fluorobiphenyl (surr)		289	60.00	ug/L	58.4	97	06/22/2005
Terphenyl-d14 (surr)		289	60.00	ug/L	58.3	97	06/22/2005

## QUALITY CONTROL REPORT BLANKS

Michelle Wei  
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06/23/2005

TestAmerica Job Number: 05.07871

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
BNA Soil 8270 MDL								
Acenaphthene	168	289	<0.050		mg/kg	0.050	0.150	06/22/2005
Acenaphthylene	168	289	<0.046		mg/kg	0.046	0.138	06/22/2005
Anthracene	168	289	<0.048		mg/kg	0.048	0.144	06/22/2005
Benzo(a)anthracene	168	289	<0.052		mg/kg	0.052	0.156	06/22/2005
Benzo(b)fluoranthene	168	289	<0.051		mg/kg	0.051	0.153	06/22/2005
Benzo(k)fluoranthene	168	289	<0.052		mg/kg	0.052	0.156	06/22/2005
Benzo(a)pyrene	168	289	<0.046		mg/kg	0.046	0.138	06/22/2005
Benzo(ghi)perylene	168	289	<0.046		mg/kg	0.046	0.138	06/22/2005
Chrysene	168	289	<0.051		mg/kg	0.051	0.153	06/22/2005
Dibenzo(a,h)anthracene	168	289	<0.037		mg/kg	0.037	0.111	06/22/2005
Fluorene	168	289	<0.051		mg/kg	0.051	0.153	06/22/2005
Indeno(1,2,3-cd)pyrene	168	289	<0.046		mg/kg	0.046	0.138	06/22/2005
Naphthalene	168	289	<0.048		mg/kg	0.048	0.146	06/22/2005
Phenanthrene	168	289	<0.050		mg/kg	0.050	0.150	06/22/2005
Pyrene	168	289	<0.055		mg/kg	0.055	0.165	06/22/2005
Nitrobenzene-d5 (surr)	168	289	61.0		%			06/22/2005
2-Fluorobiphenyl (surr)	168	289	66.0		%			06/22/2005
Terphenyl-d14 (surr)	168	289	94.0		%			06/22/2005

## QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Michelle Wei  
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06/23/2005

Job Number: 05.07871

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
BNA Soil 8270 MDL								
Acenaphthene	168	289	3.33	mg/kg	2.57	77		06/22/2005
Pyrene	168	289	3.33	mg/kg	2.69	81		06/22/2005
Nitrobenzene-d5 (surr)	168	289	100	%	73.0	73		06/22/2005
2-Fluorobiphenyl (surr)	168	289	100	%	79.0	79		06/22/2005
Terphenyl-d14 (surr)	168	289	100	%	93.0	93		06/22/2005



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QUALITY CONTROL REPORT  
DUPLICATES

Michelle Wei  
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Urbandale, IA 50322-7916

06/23/2005

Job Number: 05.07871

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed	RPD Max. Limit
Solids, Total		2953	80.18	80.33	%	0.2		06/21/2005	20



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**QUALITY CONTROL REPORT**  
**MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

MIDAMERICAN ENERGY-MWH  
 Urbandale Business Center  
 4299 NW Urbandale Drive  
 Urbandale, IA 50322-7916  
 Michelle Wei

06/23/2005

Job Number: 05.07871

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD	Percent	MS/MSD	
	Batch	Batch	Spike									Result
BNA Soil 8270 MDL												
Acenaphthene	168	289	2.99	<0.059	3.92	mg/kg dw	76.1	2.92	3.90	mg/kg dw	74.8	2.4
Pyrene	168	289	3.01	<0.064	3.92	mg/kg dw	76.7	3.04	3.90	mg/kg dw	77.8	0.8

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

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## QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

06/23/2005

Michelle Wei  
 MIDAMERICAN ENERGY-MWH  
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 Urbandale, IA 50322-7916

Job No: 05.07871

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD Max.	
	Batch Number	Batch Number								RPD	Limit
BNA Soil 8270 MDL											
Acenaphthene	168	289	3.33	mg/kg	2.57		77.2		55 - 110		35
Pyrene	168	289	3.33	mg/kg	2.69		80.8		55 - 130		35
Nitrobenzene-d5 (surr)	168	289	100	%	73.0		73.0		45 - 100		
2-Fluorobiphenyl (surr)	168	289	100	%	79.0		79.0		55 - 105		
Terphenyl-d14 (surr)	168	289	100	%	93.0		93.0		55 - 125		

TestAmerica Job Number: 05.07871

## ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at [www.TestAmericaInc.com](http://www.TestAmericaInc.com).

This data has been produced in compliance with 2002 NELAC Standards (July 2004), except where noted.

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

This report shall not be reproduced, except in full, without written approval of the laboratory.

*For questions regarding this report, please contact the individual who signed the analytical report.*





## Sample Receipt and Temperature Log Form

Client: MWH Americas, Inc. Project: MEC - Vandalia Road

City: \_\_\_\_\_

Date 6-21-05 Receiver's Initials CH Time (Delivered): 9:30

### Temperature Record

Cooler ID# (If Applicable)  
AMARILLO - Client  
\_\_\_\_\_ °C / On Ice

### Thermometer:

- IR - 905085 "A"
- IR - 809065 "B"
- CF07-03-T2
- 22126775

### Courier:

<input type="checkbox"/> Airborne	<input type="checkbox"/> Speedy
<input type="checkbox"/> UPS	<input type="checkbox"/> TA Courier
<input type="checkbox"/> Velocity	<input type="checkbox"/> TA Field Svs
<input type="checkbox"/> FedEx	<input type="checkbox"/> Client
<input type="checkbox"/> DHL	
<input type="checkbox"/> US Postal	<input type="checkbox"/> Other

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes  No

Non-Conformance report started

### Exceptions Noted

Sample(s) not received in a cooler.

Samples(s) received same day of sampling.

Evidence of a chilling process

Temperature not taken:

Soils - no temp blank

Log-In by:

CW MF EM

OT \_\_\_\_\_