



June 20, 2014

Mr. Mostafa Mehran
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Re: Response to ADEQ Correspondence Dated June 9, 2014
Area 1 Soil Investigation Work Plan
Whirlpool Corporation
Fort Smith, Arkansas
EPA No. ARD042755389
AFIN No. 66-00048
CAO LIS 13-202

Dear Mr. Mehran:

ENVIRON International Corporation (ENVIRON), on behalf of Whirlpool Corporation, is submitting this response to your June 9, 2014 comment letter. We appreciate ADEQ's feedback regarding our ongoing monitoring and validation activities, which are a critical element of the adaptive remedy approach. This process of gathering, validating, summarizing and incorporating data into our understanding of the site is enabling us to make informed adjustments to our remediation plans in order to meet the goals of the RADD.

In your letter, you requested that lithology of the soil encountered at all Direct Push Technology ("DPT") points be described and recorded. It is standard practice for ENVIRON to prepare boring logs describing the lithology of the soil encountered during performance of site investigation. Specifically in response to your request, ENVIRON will prepare boring logs describing the soil lithology encountered during investigation activities. Further, we propose to utilize conventional sonic or hollow stem auger drilling techniques and DPT to complete the borings for the investigation. Sonic drilling will be used as much as possible to maximize the ability to generate undisturbed core samples while advancing to the bedrock surface.

ADEQ also requested investigation of impacts characterized by Membrane Interface Probes (MIPs) beneath the on-site manufacturing building. The MIP screening and soil and groundwater data from soil probes performed to investigate the MIP screening data was completed between September 2013 and January 2014 (see Appendix A, Tables 1 and 2). The MIP probe locations and the soil probe locations consist of on-site and off-site locations including locations beneath the manufacturing building. This data was provided to ADEQ on March 5, 2014 and was included in the 1st Quarter 2014 Progress Report submitted on May 15, 2014. The previously submitted MIP and soil and groundwater data is provided in Appendix A.

To supplement the soil and groundwater data collected from soil probes associated with the MIP investigation, five groundwater monitoring wells are proposed to be installed near the northeast

corner of the manufacturing building to characterize the potential extent of groundwater impacts that may extend beyond the boundaries of the building as suggested by the MIP screening data (M-251) and subsequent soil and groundwater data from DP-22. These new monitoring wells will be installed and sampled during the week of June 23, 2014. The locations for the five wells are depicted on the attached figure.

The proposed new monitoring wells will be constructed and developed in accordance with previous work plans for the Whirlpool project. Groundwater samples from these monitoring wells will be collected using low-flow sampling techniques and groundwater samples will be analyzed for volatile organic compounds (VOCs) using EPA Method 8260.

The results of the supplemental investigation for Area 1 and the proposed investigation at the northeast corner of the manufacturing building will be presented in separate letter reports to be included with the Second Quarterly Progress Report to be issued on August 15, 2014. Boring logs with monitoring well construction details, as appropriate, will be completed and included with the respective letter reports.

If you have any questions or comments please contact me at your earliest convenience.

Sincerely,

ENVIRON International Corporation



Michael F. Ellis, PE
Principal

FIGURE

Figure 1: Proposed Monitoring Well Locations - Northeast Corner Investigation

APPENDIX A

Tables: Table 1: Summary of Direct Push Soil Analytical Results
Table 2: Summary of Direct Push Groundwater Analytical Results

Figures: Figure 3-3: MIP Screening Locations
Figure 3-4: HPT, Slug Testing, Bench Test Sample and DPT Locations

Attachment: DPT Boring Logs

FIGURE



PROPOSED MONITORING WELL LOCATIONS NORTHEAST CORNER INVESTIGATION

Whirlpool Facility - Fort Smith, Arkansas



Figure 1

APPENDIX A

TABLE 1
DPT Soil Sampling - Trichloroethene (TCE) Analytical Results
Whirlpool Corporation - Ft. Smith, AR

PARAMETER														
	DP-01		DP-02		DP-03		DP-04		DP-05		DP-06		DP-06 DUP	
	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
DEPTH (0-5 foot bgs interval)														
2 feet bgs (mg/kg)	--		--		--		--		--		--		--	
2.5-3 feet bgs (mg/kg)	--		0.0013	J	--		--		--		--		--	
3-3.5 feet bgs (mg/kg)	--		--		--		--		--		--		--	
4 feet bgs (mg/kg)	--		--		--		--		--		--		--	
4-4.5 feet bgs (mg/kg)	--		--		0.0026	J	--		--		--		--	
DEPTH (5-10 foot bgs interval)														
5-5.5 feet bgs (mg/kg)	--		--		--		--		--		--		--	
5.5-6 feet bgs (mg/kg)	--		--		--		--		--		13		--	
6-6.5 feet bgs (mg/kg)	--		< 0.0038		--		--		--		--		--	
8 feet bgs (mg/kg)	--		--		--		--		--		--		--	
8.5-9 feet bgs (mg/kg)	--		--		--		--		--		2.1		--	
9 feet bgs (mg/kg)	--		--		--		--		--		--		--	
9-9.5 feet (mg/kg)	--		--		--		--		--		--		--	
DEPTH (10-15 foot bgs interval)														
11 feet bgs (mg/kg)	--		--		--		--		--		--		--	
11-11.5 feet bgs (mg/kg)	--		--		--		--		--		--		--	
11.5-12 feet bgs (mg/kg)	--		--		--		--		--		--		--	
12 feet bgs (mg/kg)	--		--		--		--		--		--		--	
12-12.5 feet bgs (mg/kg)	--		--		0.0019	J	--		--		--		--	
12.5-13 feet bgs (mg/kg)	--		--		--		--		--		--		--	
14 feet (mg/kg)	--		--		--		--		--		--		--	
DEPTH 15-20 foot bgs interval)														
15-15.5 feet bgs (mg/kg)	--		0.087		--		--		--		--		--	
15.5-16 feet bgs (mg/kg)	0.0017	J	--		--		--		--		--		--	
18 feet bgs (mg/kg)	--		--		--		--		--		--		--	
18-18.5 feet bgs (mg/kg)	--		--		--		0.0049		--		--		--	
18.5-19 feet bgs (mg/kg)	--		--		--		--		--		--		--	
19-19.5 feet bgs (mg/kg)	0.016		--		--		--		--		--		--	
19.5-20 feet (mg/kg)	--		--		--		--		--		--		--	
DEPTH (20-25 foot bgs interval)														
21.5-22 feet bgs (mg/kg)	--		--		--		--		0.0039	J	--		--	
22.5-23 feet bgs (mg/kg)	--		--		--		--		--		--		--	
23.5-24 feet bgs (mg/kg)	--		--		--		--		--		--		--	
24.5-25 feet bgs (mg/kg)	--		--		--		--		0.0021	J	--		--	
DEPTH (25-30 foot bgs interval)														
25-25.5 feet bgs (mg/kg)	--		--		--		0.027		--		--		--	
25.5-26 feet bgs (mg/kg)	--		--		--		--		--		3.2		4.6	
27.5-28 feet bgs (mg/kg)	--		--		--		--		--		--		--	
28.5-29 feet bgs (mg/kg)	--		--		--		--		--		--		--	
29.5-30 feet bgs (mg/kg)	--		--		--		--		--		--		--	

NOTES:

-- = Sample not collected or not analyzed
within that depth interval
< = Not detected above reporting level
bgs = Below ground surface
J = Estimated value

TABLE 1
DPT Soil Sampling - Trichloroethene (TCE) Analytical Results
Whirlpool Corporation - Ft. Smith, AR

PARAMETER	BORING IDENTIFICATION																											
	DP-07		DP-08		DP-09		DP-11		DP-11 DUP		DP-12		DP-14		DP-14 DUP		DP-15		DP-16		DP-17		DP-18		DP-18 DUP		DP-22	
	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
DEPTH (0-5 foot bgs interval)																												
2 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
2.5-3 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
3-3.5 feet bgs (mg/kg)	--		--		0.96		--		--		--		--		--		--		--		--		--		--		--	
4 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
4-4.5 feet bgs (mg/kg)	--		--		--		--		--		0.63		--		--		--		--		--		--		--		--	
DEPTH (5-10 foot bgs interval)																												
5-5.5 feet bgs (mg/kg)	--		--		1.3		--		--		--		--		--		--		--		--		--		--		--	
5.5-6 feet bgs (mg/kg)	270		66		--		--		--		--		--		--		--		--		--		--		--		--	
6-6.5 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
8 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
8.5-9 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		< 0.0044	
9 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
9-9.5 feet (mg/kg)	--		--		--		--		--		--		--		--		--		1.7		0.011		--		--		--	
DEPTH (10-15 foot bgs interval)																												
11 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
11-11.5 feet bgs (mg/kg)	--		110		--		--		--		--		--		--		--		--		--		--		--		--	
11.5-12 feet bgs (mg/kg)	--		--		--		--		--		0.84		0.57		--		--		--		--		--		--		--	
12 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
12-12.5 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
12.5-13 feet bgs (mg/kg)	200		--		--		--		--		--		--		--		--		--		--		--		--		--	
14 feet (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
DEPTH 15-20 foot bgs interval)																												
15-15.5 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
15.5-16 feet bgs (mg/kg)	--		--		--		--		--		--		0.63		0.73		--		--		--		--		--		--	
18 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
18-18.5 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
18.5-19 feet bgs (mg/kg)	--		3,300		--		--		--		--		--		--		0.4		--		--		--		--		--	
19-19.5 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
19.5-20 feet (mg/kg)	--		--		--		1.2		1.1		--		--		--		--		--		--		--		--		--	
DEPTH (20-25 foot bgs interval)																												
21.5-22 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
22.5-23 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		5.8		--		--		--		--		--	
23.5-24 feet bgs (mg/kg)	1		--		--		--		--		--		--		--		--		--		--		--		--		--	
24.5-25 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
DEPTH (25-30 foot bgs interval)																												
25-25.5 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		5.7		--		--		--		--		--	
25.5-26 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
27.5-28 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		--		--		0.35		0.38		0.0049	J
28.5-29 feet bgs (mg/kg)	--		--		--		--		--		--		1		1		--		--		--		--		--		--	
29.5-30 feet bgs (mg/kg)	--		--		--		--		--		--		--		--		--		0.01		--		--		--		--	

NOTES:
-- = Sample not collected or not analyzed
within that depth interval
< = Not detected above reporting level
bgs = Below ground surface
J = Estimated value

TABLE 2
SUMMARY OF DIRECT PUSH GROUNDWATER ANALYTICAL RESULTS - DECEMBER 2013 THROUGH JANUARY 2014
Whirlpool Facility
Fort Smith, AR

Location		DP-01	DP-02	DP-02	DP-03	DP-04	DP-05
ENVIRON Sample ID	Remedial Action	DP-01-20131219	DP-02-20131220	P-02-20131220-FD	DP-03-20131218	DP-04-20131218	DP-05-20131217
Lab Sample ID	Levels per ADEQ	600-84460-3	600-84500-4	600-84500-5	600-84393-6	600-84393-5	600-84325-7
Sample Method	RADD Issued						
Sample Date	2014	12/19/2013	12/20/2013	12/20/2013	12/18/2013	12/18/2013	12/17/2013
Comments				Field Duplicate			
Volatile Organic Compounds							
Acetone	12000	U (10)	U (10)	U (10)	U* (10)	U* (10)	4.3 J* (10)
Benzene	5.0	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Bromodichloromethane	80	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Chloroform	80	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,1-Dichloroethane	2.4	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,1-Dichloroethene	7.0	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,2-Dichloroethene (total)		U (10)	8.2 J (10)	8.7 J (10)	5.1 J (10)	2.3 J (10)	U (10)
cis-1,2-Dichloroethene	70	U (5)	8.2 (5)	8.7 (5)	5.1 (5)	2.3 J (5)	U (5)
trans-1,2-Dichloroethene	100	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Methylene Chloride	5.0	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Tetrachloroethene	5.0	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Toluene	1000	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,1,2-Trichloroethane	5.0	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Trichloroethene	5.0	<u>8 (5)</u>	<u>270 (50)</u>	<u>270 (50)</u>	<u>120 (5)</u>	<u>57 (5)</u>	2.2 J (5)
Vinyl Chloride	2.0	U (2)	0.33 J (2)	0.34 J (2)	0.14 J (2)	0.15 J (2)	U (2)
m,p-xylene		U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
ortho-xylene		U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Xylenes (total)	10000	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)

Notes:

- 1 All concentrations are presented in ug/L.
- 2 Only compounds with at least one detection are shown.
- 3 Concentrations that exceed the Als for Fort Smith ADEQ RADD Issued 2014 are double underlined.

Abbreviations:

U -- Not Detected
J -- Estimated Concentration
() -- Detection Limit
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of
Environmental Quality
ug/L = micrograms per Liter

TABLE 2
SUMMARY OF DIRECT PUSH GROUNDWATER ANALYTICAL RESULTS - DECEMBER 2013 THROUGH JANUARY 2014
Whirlpool Facility
Fort Smith, AR

Location		DP-07	DP-12	DP-12	DP-14	DP-16	DP-18
ENVIRON Sample ID	Remedial Action	DP-07-20131217	DP-12-20140111	P-12-20140111-FD	DP-14-20140109	DP-16-20140110	DP-18-20140110
Lab Sample ID	Levels per ADEQ	600-84325-6	600-85474-8	600-85474-9	600-85316-7	600-85378-7	600-85378-4
Sample Method	RADD Issued						
Sample Date	2014	12/17/2013	01/11/2014	01/11/2014	01/09/2014	01/10/2014	01/10/2014
Comments				Field Duplicate			
Volatile Organic Compounds							
Acetone	12000	U* (10)	4.7 J* (10)	U* (10)	U (50)	10 (10)	U (10)
Benzene	5.0	U (5)	0.71 JB (5)	0.68 JB (5)	U (25)	U (5)	U (5)
Bromodichloromethane	80	U (5)	U (5)	U (5)	U (25)	U (5)	U (5)
Chloroform	80	2.4 J (5)	U (5)	U (5)	6.5 J (25)	U (5)	U (5)
1,1-Dichloroethane	2.4	U (5)	U (5)	U (5)	U (25)	U (5)	<u>5 (5)</u>
1,1-Dichloroethene	7.0	<u>14 (5)</u>	U (5)	U (5)	<u>24 J (25)</u>	U (5)	<u>15 (5)</u>
1,2-Dichloroethene (total)		97 (10)	140 (10)	140 (10)	150 (50)	48 (10)	170 (10)
cis-1,2-Dichloroethene	70	<u>97 (5)</u>	<u>140 (5)</u>	<u>140 (5)</u>	<u>150 (25)</u>	48 (5)	<u>170 (5)</u>
trans-1,2-Dichloroethene	100	U (5)	2.5 J (5)	1.7 J (5)	U (25)	U (5)	2 J (5)
Methylene Chloride	5.0	4.1 J (10)	U (10)	U (10)	<u>12 JB (50)</u>	U (10)	U (10)
Tetrachloroethene	5.0	2.5 J (5)	U (5)	U (5)	U (25)	U (5)	3.8 J (5)
Toluene	1000	U (5)	0.96 JB (5)	1 JB (5)	U (25)	U (5)	U (5)
1,1,2-Trichloroethane	5.0	1.1 J (5)	U (5)	U (5)	U (25)	U (5)	U (5)
Trichloroethene	5.0	<u>12000 (500)</u>	<u>390 (50)</u>	<u>490 (50)</u>	<u>17000 (2500)</u>	<u>390 (25)</u>	<u>2800 (500)</u>
Vinyl Chloride	2.0	<u>21 (2)</u>	1.6 J (2)	1.3 J (2)	<u>16 J (25)</u>	<u>3.6 (2)</u>	U (20)
m,p-xylene		U (10)	U (10)	U (10)	U (50)	U (10)	U (10)
ortho-xylene		U (5)	U (5)	U (5)	U (25)	U (5)	U (5)
Xylenes (total)	10000	U (5)	U (5)	U (5)	U (25)	U (5)	U (5)

Notes:

- 1 All concentrations are presented in ug/L.
- 2 Only compounds with at least one detection are shown.
- 3 Concentrations that exceed the Als for Fort Smith ADEQ RADD Issued 2014 are double underlined.

Abbreviations:

U -- Not Detected
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RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of
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ug/L = micrograms per Liter

TABLE 2
SUMMARY OF DIRECT PUSH GROUNDWATER ANALYTICAL RESULTS - DECEMBER 2013 THROUGH JANUARY 2014
Whirlpool Facility
Fort Smith, AR

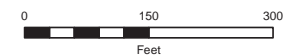
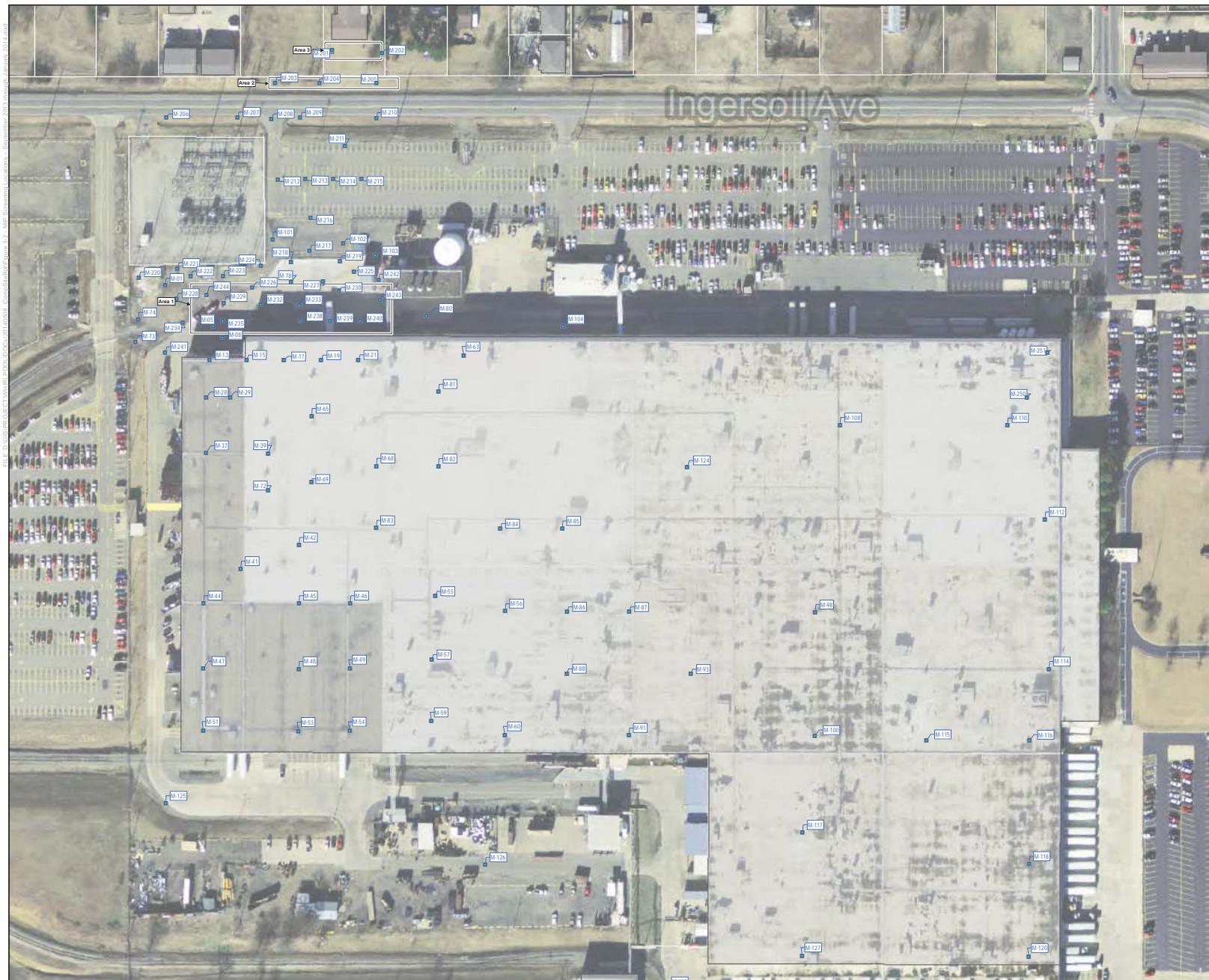
Location		DP-22	SLUG-01	SLUG-02	SLUG-06
ENVIRON Sample ID	Remedial Action	DP-22-20140111	i-01-GW-20140108	i-02-GW-20140108	i-06-GW-20140112
Lab Sample ID	Levels per ADEQ	600-85474-7	600-85259-3	600-85259-4	600-85474-10
Sample Method	RADD Issued				
Sample Date	2014	01/11/2014	01/08/2014	01/08/2014	01/12/2014
Comments					
Volatile Organic Compounds					
Acetone	12000	16 (10)	U (10)	U (10)	5.6 J* (10)
Benzene	5.0	0.72 JB (5)	U (5)	U (5)	1.7 JB (5)
Bromodichloromethane	80	1.9 J (5)	U (5)	U (5)	U (5)
Chloroform	80	U (5)	U (5)	U (5)	4 J (5)
1,1-Dichloroethane	2.4	U (5)	U (5)	U (5)	<u>3.9 J (5)</u>
1,1-Dichloroethene	7.0	U (5)	U (5)	U (5)	<u>40 (5)</u>
1,2-Dichloroethene (total)		3 J (10)	7.7 J (10)	11 (10)	620 (200)
cis-1,2-Dichloroethene	70	3 J (5)	7.7 (5)	11 (5)	<u>620 (100)</u>
trans-1,2-Dichloroethene	100	U (5)	U (5)	U (5)	U (100)
Methylene Chloride	5.0	U (10)	U (10)	U (10)	<u>40 B (10)</u>
Tetrachloroethene	5.0	U (5)	U (5)	U (5)	3.6 J (5)
Toluene	1000	1.3 JB (5)	U (5)	U (5)	3.9 JB (5)
1,1,2-Trichloroethane	5.0	U (5)	U (5)	U (5)	2 J (5)
Trichloroethene	5.0	<u>170 (5)</u>	<u>230 (50)</u>	<u>300 (50)</u>	<u>11000 (1000)</u>
Vinyl Chloride	2.0	U (2)	U (2)	U (2)	<u>31 (2)</u>
m,p-xylene		U (10)	U (10)	U (10)	2.5 J (10)
ortho-xylene		U (5)	U (5)	U (5)	1.5 J (5)
Xylenes (total)	10000	U (5)	U (5)	U (5)	4 J (5)

Notes:

- 1 All concentrations are presented in ug/L.
- 2 Only compounds with at least one detection are shown.
- 3 Concentrations that exceed the Als for Fort Smith ADEQ RADD Issued 2014 are double underlined.

Abbreviations:

U -- Not Detected
J -- Estimated Concentration
() -- Detection Limit
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
ug/L = micrograms per Liter



■ Membrane Interface Probe (MIP)

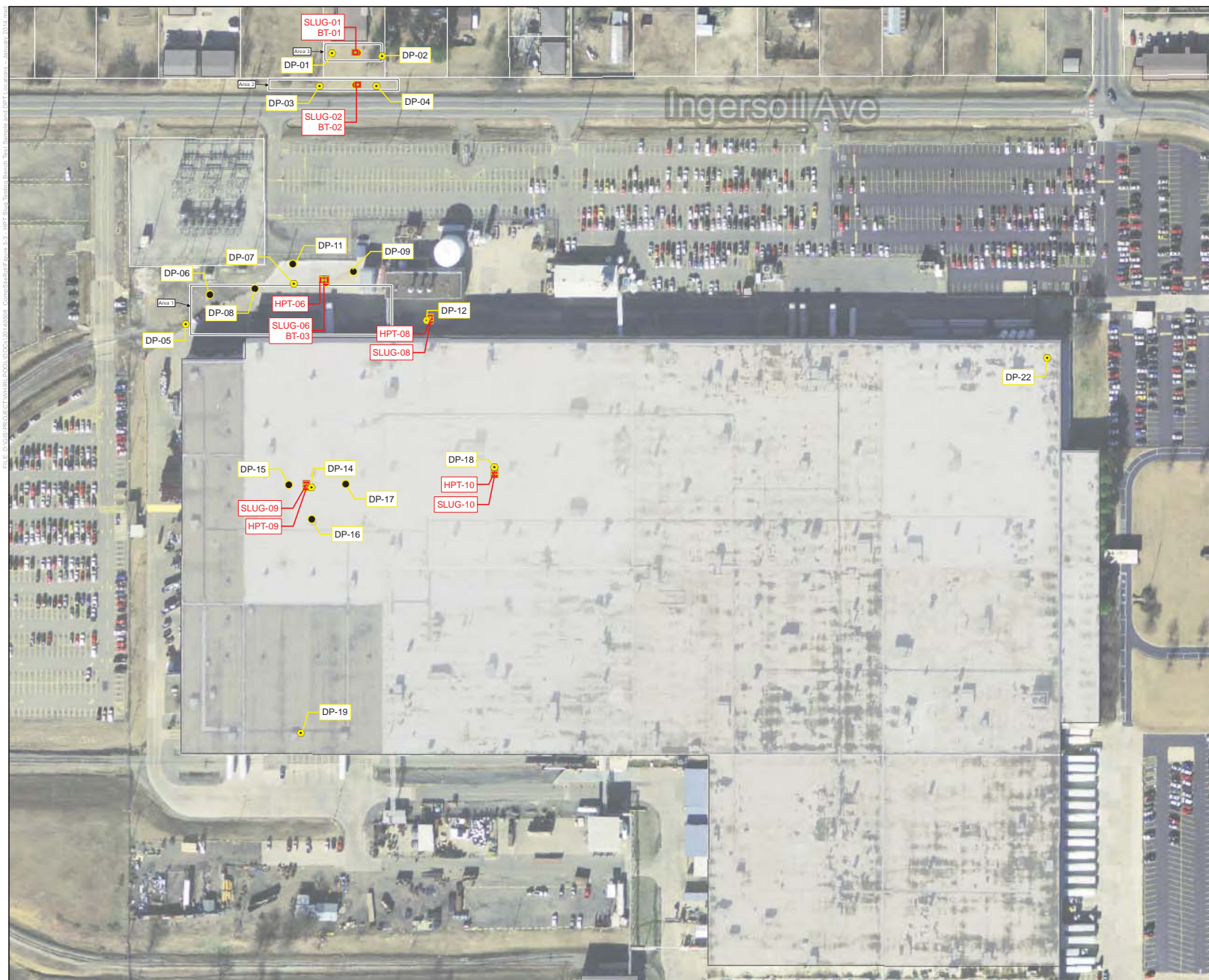
**MIP SCREENING LOCATIONS
SEPTEMBER 2013 to JANUARY 2014
(2006 Orthophoto)**

Whirlpool Facility - Fort Smith, Arkansas



Figure
3-2

DRAFTED BY: KTS DATE: 05/14/2014 PROJECT: 3433253A



0 150 300
Feet

1 inch = 150 feet 1:1,800



- Bench Test Soil/GW
- HPT
- Slug Test
- Soil
- Soil and GW

HPT, SLUG TESTING, BENCH TEST SAMPLE
AND DPT LOCATIONS
SEPTEMBER 2013 to JANUARY 2014
(2006 Orthophoto)

Whirlpool Facility - Fort Smith, Arkansas

 ENVIRON

Figure
3-3

DRAFTED BY: KTS

DATE: 05/14/2014

PROJECT: 3433253A

Site ID: **DP-1** Date(s): **12/19/2013**

Location: **Fort Smith, Arkansas**

Logged By: **N. Zurweller**

Consulting Firm: **ENVIRON**

Checked By: **K. Stonestreet**

Contractor: **Mohawk Drilling**

Purpose: **Soil Boring**

Drilling Method: **Direct Push**

Datum: **NAVD88**

Elevation: **473.69 amsl**

Sampling Method: **Continuous Sampler**

North: **369386.66**

East: **590976.20**




Remarks:

Borehole Dia.: **2.5 inches**

Total Depth: **24.5 feet**

Project Number: **3433253A**

Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
470		2.5			3.1		CH MH	SILTY CLAY FILL, DARK GRAYISH BROWN, WITH BROWN MOTTLING, PLASTIC, SLIGHTLY STIFF, CLAYEY SILT, BROWN, SOME STRONG BROWN MOTTLING, STIFF TO SLIGHTLY STIFF, PLASTIC, MOIST
		5			2.9			
		4			3.1		CL	SILTY CLAY, DARK GRAY AND STRONG BROWN, STIFF TO SLIGHTLY STIFF, PLASTIC, MOIST
					2.9			SILTY CLAY, DARK GRAYISH BROWN, WITH BLACK NODULES, TRACE SMALL GRAVEL AND SAND, MEDIUM SAND, SLIGHTLY PLASTIC, STIFF, SLIGHTLY COHESIVE
465		10	4		2.5			SILTY CLAY, DARK GRAYISH BROWN, SOME GRAYISH BROWN MOTTLING, PLASTIC, STIFF, MOIST
					3.6			SILTY CLAY, STRONG BROWN, SOME LIGHT GRAY MOTTLING, SOME BLACK MODULES, TRACE SMALL ROUNDED GRAVEL
					3.9			SANDY CLAY, STRONG BROWN, SOME ROUNDED GRAVEL, MEDIUM SAND, STIFF, SLIGHTLY PLASTIC, SLIGHTLY MOIST.
460		15	3.5	DP-01 (15.5-16.0)	4.1			SANDY CLAY, STRONG BROWN, WITH LIGHT GREENISH GRAY MOTTLING, MEDIUM SAND, SOME BLACK NODULES, VERY STIFF, PLASTIC, SLIGHTLY MOIST, TRACE PALE RED STREAKING LAST 0.8'
					3.4			SANDY CLAY, STRONG BROWN, LIGHT GRAY MOTTLING, SOME BLACK NODULES, FINE SAND, VERY STIFF, PLASTIC, TRACE PALE RED STREAKING LAST 0.8', SLIGHTLY MOIST.
		4		DP-01 (19-19.5)	4.2			SANDY CLAY, STRONG BROWN, TRACE PALE RED STREAKING, FINE SAND, STIFF, MOIST, PLASTIC, TRACE MOTTLING, LIGHT GRAY
455		20			5.6		SC SW GC	SAND, STRONG BROWN, WITH CLAY, MEDIUM SAND, COHESIVE STICKY, WET
		3.8			4.5			SAND, STRONG BROWN, MEDIUM SAND, LOOSE, VERY MOIST
					4.3			CLAYEY SAND AND GRAVEL, DARK GRAYISH BROWN, MEDIUM SAND, ROUNDED GRAVEL UP TO 1", VERY SLIGHTLY COHESIVE, MOIST TO VERY MOIST.
450		0.5					GC	SAND AND GRAVEL, STRONG BROWN, WITH CLAY, MEDIUM TO COARSE SAND, LOOSE, CRUMBLES, ROUNDED GRAVEL UP TO 1", VERY MOIST.
445		25						

Site ID: **DP-2** Date(s): **12/20/2013**

Location: **Fort Smith, Arkansas**

Logged By: **N. Zurweller**

Consulting Firm: **ENVIRON**

Checked By: **K. Stonestreet**

Contractor: **Mohawk Drilling**

Purpose: **Soil Boring**

Drilling Method: **Direct Push**

Datum: **NAVD88**

Elevation: **472.53 amsl**

Sampling Method: **Continuous Sampler**

North: **369376.37**

East: **591056.93**






Remarks:

Borehole Dia.: **2.5 inches**

Total Depth: **27.5 feet**

Project Number: **3433253A**

Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
470		3.3	DP-02 (2.5-3.0)		3.7		CL	SILTY CLAY FILL, VERY DARK BROWN, SOME ROOT HAIRS, SLIGHTLY STIFF, PLASTIC, MOIST
					4.0		MH	CLAYEY SILT, LIGHT BROWN, SOME STRONG BROWN MOTTLING, VERY SLIGHTLY STIFF, PLASTIC, MOIST
465		4	DP-02 (6.5-7.0)		2.3		CL	CLAYEY SILT, LIGHT BROWN, WITH RED MOTTLING, STIFF, PLASTIC, SLIGHTLY MOIST
					3.2			SILTY CLAY, STRONG BROWN, WITH LIGHT BROWNISH GRAY MOTTLING, SOME BLACK NODULES, VERY STIFF, PLASTIC, SLIGHTLY MOIST, TRACE ROUNDED GRAVEL UP TO 1/8" LAST 0.7'
460		2			2.8			SILTY CLAY, STRONG BROWN, WITH LIGHT BROWNISH GRAY MOTTLING, VERY STIFF, SOME BLACK NODULES, PLASTIC, SLIGHTLY MOIST, TRACE ROUNDED GRAVEL UP TO 1/8" LAST 0.7'
					0			SANDY CLAY, STRONG BROWN, WITH SUBROUNDED GRAVEL UP TO 1/8", TRACE BLACK NODULES, MEDIUM SAND, SLIGHTLY COHESIVE WHEN WET, STIFF, DRY.
455		4	DP-02 (15.0-15.5)		7.4			SANDY CLAY, STRONG BROWN, WITH SUBROUNDED GRAVEL UP TO 1/8", TRACE BLACK NODULES, MEDIUM SAND, PLASTIC, COHESIVE, STICKY, WET
					10.1			SANDY CLAY, STRONG BROWN, WITH LIGHT GREENISH GRAY MOTTLING, FINE SAND, STIFF TO VERY STIFF, PLASTIC, CRUMBLES, SLIGHTLY MOIST, INCREASING SAND WITH DEPTH.
450		1.6			4.5		SC	CLAYEY SAND, STRONG BROWN, WITH LIGHT GREENISH GRAY MOTTLING, FINE SAND, STIFF TO VERY STIFF, PLASTIC, CRUMBLES, SLIGHTLY MOIST, INCREASING SAND WITH DEPTH
					0		SW	SAND, STRONG BROWN AND LIGHT GREENISH GRAY, TRACE CLAY, FINE SAND, SLIGHTLY COHESIVE, MOIST.
445		4			5.1		SP	SAND, STRONG BROWN, MEDIUM TO COARSE SAND, LOOSE, VERY MOIST TO WET
					6.2		GC	CLAYEY SAND AND GRAVEL, STRONG BROWN, SUBROUNDED GRAVEL UP TO 1", MEDIUM TO COARSE SAND, VERY SLIGHTLY COHESIVE, WET
445		3.5			9.5			SAND AND GRAVEL, STRONG BROWN, WITH CLAY, SUBROUNDED GRAVEL UP TO 1", MEDIUM TO COARSE SAND, VERY SLIGHTLY COHESIVE, WET
					2.9		GM	WEATHERED SHALE AND CLAY, STRONG BROWN, SOME BLACK NODULES, SLIGHTLY PLASTIC TO PLASTIC, VERY STIFF, SLIGHTLY MOIST

Site ID: **DP-3** Date(s): **12/18/2013**

 Location: **Fort Smith, Arkansas**

 Logged By: **N. Zurweller**

 Consulting Firm: **ENVIRON**

 Checked By: **K. Stonestreet**

 Contractor: **Mohawk Drilling**

 Purpose: **Soil Boring**

 Drilling Method: **Direct Push**

 Datum: **NAVD88**

 Elevation: **474.16 amsl**

 Sampling Method: **Continuous Sampler**

 North: **369335.30**

 East: **590941.79**





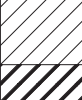



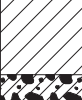



Remarks:

 Borehole Dia.: **2.5 inches**

 Total Depth: **23.5 feet**

 Project Number: **3433253A**

 Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
470		2.8		DP-03 (4-4.5)	3.7		MH	SILTY FILL, DARK BROWN, SOME GRASS AND ROOT HAIRS, MOIST CLAYEY SILT, BROWN, TRACE ROOT HAIRS, SLIGHTLY STIFF, PLASTIC, MOIST
					4.6		CL	SILTY CLAY, BROWN, TRACE FINE SAND, PLASTIC, STICKY, COHESIVE, WET.
465		4			4.1			SILTY CLAY, STRONG BROWN, GRAYISH BROWN MOTTLING, VERY STIFF, SLIGHTLY PLASTIC, SLIGHTLY MOIST
					4.4			SILTY CLAY, STRONG BROWN, GRAYISH BROWN MOTTLING, WITH BLACK NODULES, HARD, VERY SLIGHTLY MOIST
460		10	4	DP-03 (12-12.5)	3.6			SILTY CLAY, STRONG BROWN, GRAYISH BROWN MOTTLING, WITH BLACK NODULES, HARD, VERY SLIGHTLY MOIST
					3.1			SILTY CLAY, STRONG BROWN, GRAYISH BROWN MOTTLING, WITH BLACK NODULES, HARD, VERY SLIGHTLY MOIST
455		15	4		4.7		CH	SANDY CLAY, STRONG BROWN, MEDIUM SAND, PLASTIC, SOFT, STICKY, WET
					4.6			SILTY CLAY, STRONG BROWN, HARD, SLIGHTLY PLASTIC, SLIGHTLY MOIST
450		20			4.1		CL	SANDY CLAY, STRONG BROWN, TRACE SUBROUNDED GRAVEL, STIFF TO VERY STIFF, MOIST TO VERY MOIST.
					4.6			SANDY CLAY, STRONG BROWN, TRACE SMALL GRAVEL UP TO 1/8", VERY MOIST
445		25			2.1			SANDY CLAY, STRONG BROWN, TRACE SMALL GRAVEL UP TO 1/8", VERY MOIST
					2.5		GC	SAND AND GRAVEL, STRONG BROWN, TRACE LIGHT GRAY MOTTLING, WITH CLAY, LITTLE BLACK NODULES, SUBROUNDED GRAVEL UP TO 1/2", MEDIUM TO COARSE SAND, SLIGHTLY COHESIVE, STIFF, MOIST.

Site ID: **DP-4** Date(s): **12/18/2013**

 Location: **Fort Smith, Arkansas**

 Logged By: **N. Zurweller**

 Consulting Firm: **ENVIRON**

 Checked By: **K. Stonestreet**

 Contractor: **Mohawk Drilling**

 Purpose: **Soil Boring**

 Drilling Method: **Direct Push**

 Datum: **NAVD88**

 Elevation: **473.27 amsl**

 Sampling Method: **Continuous Sampler**

 North: **369328.62**

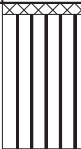



 East: **591044.76**

Remarks:

 Borehole Dia.: **2.5 inches** Total Depth: **26.0 feet**

 Project Number: **3433253A**

 Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
470		5	3.8		1.0		MH	SILTY FILL, DARK BROWN, TRACE CLAY, WITH GRASS AND ROOT HAIRS, SLIGHTLY STIFF, MOIST
			1.0		CLAYEY SILT, STRONG BROWN, TRACE GRAYISH BROWN MOTTLING, STIFF, SLIGHTLY PLASTIC, SLIGHTY MOIST TO VERY MOIST			
465		10	4		1.2		CL	SILTY CLAY, STRONG BROWN, SOME GRAYISH BROWN MOTTLING,TRACE SUBROUNDED GRAVEL UP TO 1/8",STIFF, SLIGHTLY PLASTIC, SLIGHTY MOIST TO VERY MOIST
			1.0					
1.1	SILTY CLAY, STRONG BROWN, WITH GRAYISH BROWN MOTTLING, TRACE SUBROUNDED GRAVEL UP TO 1/8", STIFF, SLIGHTLY PLASTIC, SLIGHTY MOIST TO VERY MOIST, TRACE FINE SAND LAST 0.3'							
2.0	SILTY CLAY, STRONG BROWN, WITH LIGHT GRAY MOTTLING, TRACE FINE SAND, SOME BLACK NODULES, SLIGHTLY PLASTIC, HARD, SLIGHTLY TO VERY SLIGHTLY MOIST							
460		15	4		2.0			SANDY CLAY, STRONG BROWN, WITH LIGHT GRAY MOTTLING, TRACE RED STREAKING, SOME BLACK NODULES, FINE SAND, SLIGHTLY PLASTIC, HARD, SLIGHTLY TO VERY SLIGHTLY MOIST. CLAYEY SAND IN SHOE OF SAMPLER, LIGHT GRAY, SAND, FINE SAND, COHESIVE AND SLIGHTLY MOIST.
			1.9					
455		20	4	DP-04 (18-18.5)	2.1			SANDY CLAY, BROWN, TRACE RED STREAKING, FINE GRAIN, WITH MOTTLING, LIGHT GRAY, SOME BLACK NODULES, SLIGHTLY PLASTIC, HARD, SLIGHTLY TO VERY SLIGHTLY MOIST.
			2.5		SC			CLAYEY SAND, LIGHT BROWNISH GRAY, SOME SILT, FINE SAND, COHESIVE, VERY MOIST
450		25	4		2.4			CLAYEY SAND, STRONG BROWN, FINE TO MEDIUM SAND, COHESIVE, STIFF, MOIST.
			2.7					SAND, BROWN, MEDIUM TO COARSE GRAIN, LOOSE, VERY MOIST.
445			2	DP-04 (25.0-25.5)	4.7		GC	CLAYEY SAND AND GRAVEL, STRONG BROWN, MEDIUM TO COARSE SAND, SUBROUNDED GRAVEL UP TO 1/2", SLIGHTLY COHESIVE, MOIST
								CLAYEY SAND, STRONG BROWN, WITH SUBROUNDED ROUNDED GRAVEL UP TO 1/2", MEDIUM TO COARSE SAND, SLIGHTLY COHESIVE, SLIGHTLY STIFF, MOIST.

Site ID: **DP-5** Date(s): **12/17/2013**

Location: **Fort Smith, Arkansas**

Logged By: **N. Zurweller**

Consulting Firm: **ENVIRON**

Checked By: **K. Stonestreet**

Contractor: **Mohawk Drilling**

Purpose: **Soil Boring**

Drilling Method: **Direct Push**

Datum: **NAVD88**

Elevation: **473.08 amsl**

Sampling Method: **Continuous Sampler**

North: **368963.83**

East: **590708.59**









Remarks:

Borehole Dia.: **2.5 inches**

Total Depth: **25.5 feet**

Project Number: **3433253A**

Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
470		2.8			1.2			SILTY FILL, VERY DARK BROWN, SUBANGULAR GRAVEL 0.5" TO 1.0", SLIGHTLY STIFF, SLIGHTLY COHESIVE, SLIGHTLY MOIST
					1.5		CL	SILTY CLAY, BROWN, TRACE BROWNISH GRAY MOTTLING, TRACE FINE SAND, PLASTIC, STIFF, MOIST TO SLIGHTLY MOIST
					1.7			SILTY CLAY, STRONG BROWN, TRACE LIGHT GRAY MOTTLING, PLASTIC, VERY STIFF, SLIGHTLY MOIST
465		4			1.2			
					2.6			SILTY CLAY, STRONG BROWN, TRACE LIGHT GRAY MOTTLING, PLASTIC, VERY STIFF, VERY MOIST
					3.2			GRAVEL AND SAND, DARK BROWN, TRACE CLAY, COARSE SAND, ANGULAR GRAVEL, VERY SLIGHTLY COHESIVE, WET
460		4			4.7		GC	GRAVEL AND SILTY CLAY, DARK BROWN, SOME COARSE SAND, SUBROUNDED GRAVEL UP TO 0.5", COHESIVE TO SLIGHTLY COHESIVE, WET.
					1.2		CL	SILTY CLAY, STRONG BROWN, TRACE LIGHT GRAY MOTTLING, VERY STIFF, PLASTIC, MOIST
					3.0			SANDY CLAY, STRONG BROWN, TRACE LIGHT GRAY MOTTLING, VERY FINE SAND
455		2.2			4.0		SP	SAND AND GRAVEL SLUFF
					2.4		CL	SANDY CLAY, STRONG BROWN, TRACE SUBANGULAR GRAVEL, VERY FINE SAND, PLASTIC, SLIGHTLY STIFF, WET
					4.2			SANDY CLAY, STRONG BROWN, STIFF TO VERY STIFF, SLIGHTLY PLASTIC, MOIST TO VERY MOIST
450		1.5			4.0		SC	SANDY CLAY, STRONG BROWN, WITH SUBANGULAR GRAVEL UP TO 1", COARSE SAND, STIFF TO VERY STIFF, SLIGHTLY PLASTIC, WET
445								

Site ID: **DP-6** Date(s): **1/11/2014**

Location: **Fort Smith, Arkansas**

Logged By: **N. Zurweller**

Consulting Firm: **ENVIRON**

Checked By: **K. Stonestreet**

Contractor: **Mohawk Drilling**

Purpose: **Soil Boring**

Drilling Method: **Direct Push**

Datum: **NAVD88**

Elevation: **473.74 amsl**

Sampling Method: **Continuous Sampler**

North: **369008.09**

East: **590755.62**

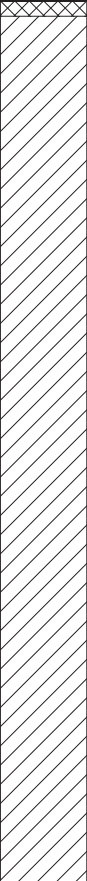
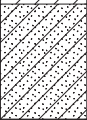
Remarks:

Borehole Dia.: **2.5 inches**

Total Depth: **26.0 feet**

Project Number: **3433253A**

Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
470		4			58		CL	SILTY FILL AND GRAVEL, DARK BROWN, ANGULAR GRAVEL UP TO 1"
					333			SILTY CLAY, PALE BROWN, SOME GRAY MOTTLING, WITH WHITE NODULES, SLIGHTLY STIFF, SLIGHTLY PLASTIC TO PLASTIC, SLIGHTLY MOIST
					792			SILTY CLAY, STRONG BROWN, LITTLE YELLOWISH RED MOTTLING, LITTLE GRAY MOTTLING, SLIGHTLY PLASTIC TO PLASTIC, SLIGHTLY STIFF, SLIGHTLY MOIST, SLIGHT SOLVENT ODOR
465		5	4	DP-06 (5.5-6.0)	565			SILTY CLAY, STRONG BROWN, TRACE GRAY MOTTLING, SLIGHTLY PLASTIC TO PLASTIC, SLIGHTLY STIFF, SLIGHTLY MOIST, SLIGHT SOLVENT ODOR.
					316			SILTY CLAY, STRONG BROWN, WITH GRAY MOTTLING, TRACE BLACK NODULES, SLIGHTLY STIFF TO STIFF, PLASTIC, SLIGHTLY MOIST TO MOIST, SLIGHT SOLVENT ODOR
					437			SILTY CLAY, YELLOWISH RED, WITH GRAY MOTTLING, WITH BLACK NODULES, VERY STIFF, SLIGHTLY PLASTIC, SLIGHTLY MOIST, SLIGHT SOLVENT ODOR
460		10	4	DP-06 (8.5-9.0)	494			SILTY CLAY, YELLOWISH RED, WITH GRAY MOTTLING, WITH BLACK NODULES, SOME SUBROUNDED GRAVEL UP TO 1/8", VERY STIFF, SLIGHTLY PLASTIC, SLIGHTLY MOIST, SLIGHT SOLVENT ODOR
					779			SILTY CLAY, YELLOWISH RED, WITH GRAY MOTTLING, WITH BLACK NODULES, VERY STIFF, SLIGHTLY PLASTIC, SLIGHTLY MOIST, SLIGHT SOLVENT ODOR
					589			SILTY CLAY, YELLOWISH RED, WITH GRAY MOTTLING, GRAY, WITH BLACK NODULES, SOME SUBROUNDED GRAVEL UP TO 1/8", VERY STIFF, SLIGHTLY PLASTIC, SLIGHTLY MOIST
455		15	4		405			SILTY CLAY, YELLOWISH RED, TRACE GRAY MOTTLING, TRACE BLACK NODULES, SOME SUBROUNDED GRAVEL UP TO 1/8", VERY STIFF, SLIGHTLY PLASTIC, MOIST, VERY SLIGHT SOLVENT ODOR.
					343			SANDY CLAY, YELLOWISH RED, TRACE GRAY MOTTLING, TRACE BLACK NODULES, SOME SUBROUNDED GRAVEL UP TO 1/2", VERY FINE SAND, SLIGHTLY STIFF, SLIGHTLY PLASTIC, MOIST: SLIGHTLY STIFF FIRST 2', SLIGHTLY MOIST LAST 1.5'
					353			
450		20	3		472		SC	CLAYEY SAND, STRONG BROWN, TRACE GRAY MOTTLING, SOME SUBROUNDED GRAVEL UP TO 3/4", FINE SAND, COHESIVE, SLIGHTLY STIFF, SLIGHTLY MOIST
		25	2	DP-06 (25.5-26)				
445								

Site ID: **DP-7** Date(s): **12/17/2013**

Location: **Fort Smith, Arkansas**

Logged By: **N. Zurweller**

Consulting Firm: **ENVIRON**

Checked By: **K. Stonestreet**

Contractor: **Mohawk Drilling**

Purpose: **Soil Boring**

Drilling Method: **Direct Push**

Datum: **NAVD88** Elevation: **473.3 amsl**

Sampling Method: **Continuous Sampler**

North: **369021.01** East: **590887.61**

Remarks:

Borehole Dia.: **2.5 inches** Total Depth: **25.0 feet**

Project Number: **3433253A**

Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
470		4			1300		CL	CONCRETE
					5600			SILTY CLAY, REDDISH YELLOW, STIFF, PLASTIC, VERY DARK GRAY MOTTLING, SLIGHTLY MOIST
		5		DP-07 (5.5-6)	5850			SILTY CLAY, STRONG BROWN, WITH BROWN MOTTLING, SLIGHTLY PLASTIC TO PLASTIC, SLIGHTLY STIFF, MOIST TO VERY MOIST, STRONG SOLVENT ODOR
			4		750			SILTY CLAY, REDDISH YELLOW, SOME GRAY, LITTLE VERY DARK GRAY, LITTLE ANGULAR GRAVEL, VERY STIFF, VERY PLASTIC, WET
465					45			SILTY CLAY, BROWN AND GRAY, TRACE SUBANGULAR GRAVEL, VERY STIFF, PLASTIC, VERY MOIST, SOLVENT ODOR.
		10			227			SILTY CLAY, BROWN AND GRAY, TRACE SUBANGULAR GRAVEL, VERY STIFF, PLASTIC, VERY MOIST, SOLVENT ODOR.
			4	DP-07 (12.5-13)	108			SANDY CLAY, PALE BROWN, FINE SAND, WITH YELLOWISH RED MOTTLING, VERY STIFF, SLIGHTLY PLASTIC TO PLASTIC, WET, SOLVENT ODOR.
460					32.1			SILTY CLAY, YELLOW RED AND GRAY, STIFF, PLASTIC, MOIST
		15			52.6		SC	SANDY CLAY, LIGHT GRAY TO REDDISH BROWN, FINE SAND, SLIGHTLY COHESIVE, SLIGHTLY MOIST, SLIGHT SOLVENT ODOR.
			4		86.2			SANDY CLAY, REDDISH BROWN, FINE GRAIN, PLASTIC, SLIGHTLY STIFF, WET.
455					23.8		SP	CLAYEY SAND, LIGHT GRAY AND REDDISH BROWN, TRACE CLAY, FINE SAND, SLIGHTLY STIFF, SLIGHTLY COHESIVE, MOIST.
		20			14		GC	SAND, STRONG BROWN, TRACE CLAY, MEDIUM TO COARSE SAND, SLIGHTLY COHESIVE, VERY MOIST
			3	DP-07 (23.5-24)	16.3			SAND AND GRAVEL, STRONG BROWN, WITH CLAY, MEDIUM SAND, SUBROUNDED GRAVEL UP TO 1", STIFF, SLIGHTLY MOIST
450								SAND AND GRAVEL, STRONG BROWN, WITH CLAY, MEDIUM SAND, SUBROUNDED GRAVEL UP TO 1", STIFF, WET
		25						
445								

Site ID: **DP-8** Date(s): **1/7/2014**

 Location: **Fort Smith, Arkansas**

 Logged By: **N. Zurweller**

 Consulting Firm: **ENVIRON**

 Checked By: **K. Stonestreet**

 Contractor: **Mohawk Drilling**

 Purpose: **Soil Boring**

 Drilling Method: **Direct Push**

 Datum: **NAVD88**

 Elevation: **473.33 amsl**

 Sampling Method: **Continuous Sampler**

 North: **369014.03**

 East: **590830.47**

Remarks:

 Borehole Dia.: **2.5 inches**

 Total Depth: **24.0 feet**

 Project Number: **3433253A**

 Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
470		3.7		DP-08 (5-5.5)	49.4			SILTY CLAY AND GRAVEL FILL, DARK GRAYISH BROWN, ANGULAR GRAVEL UP TO 1", STIFF, VERY SLIGHTLY MOIST (FROZEN)
					815.4		CL	SILTY CLAY, STRONG BROWN, WITH LIGHT GRAY MOTTLING, WITH BLACK STREAKING, STIFF, PLASTIC, SLIGHTLY MOIST
					1555			SILTY CLAY, STRONG BROWN, WITH LIGHT GRAY MOTTLING, SUBROUNDED GRAVEL UP TO 1/4", VERY STIFF, PLASTIC, SLIGHTLY MOIST, SLIGHT SOLVENT ODOR
465		4		DP-08 (11-11.5)	1090			
					1029			SANDY CLAY, REDDISH BROWN, TRACE LIGHT GRAY, SOME SUBROUNDED GRAVEL UP TO 1/8", SOME BLACK NODULES, FINE SAND, SLIGHTLY COHESIVE, SLIGHTLY STIFF, SLIGHTLY MOIST
					3898			SILTY CLAY, STRONG BROWN, SOME LIGHT GRAY, SOME BLACK STREAKING, STIFF, PLASTIC, SLIGHTLY MOIST, SOLVENT ODOR
460		3.7			3673			SILTY CLAY, STRONG BROWN, WITH LIGHT GRAY, SOME BLACK STREAKING, STIFF, PLASTIC, SLIGHTLY MOIST, SOLVENT ODOR
					1989			
					4090			SANDY CLAY, LIGHT GRAYISH BROWN, VERY FINE SAND, COHESIVE, SLIGHTLY MOIST, SOLVENT ODOR
455		3.7		DP-08 (18.5-19)	15000		SC	CLAYEY SAND, STRONG BROWN, SOME LIGHT GRAY, COHESIVE, SLIGHTLY PLASTIC, VERY MOIST, SOLVENT ODOR
					87.1		GC	SAND AND GRAVEL, STRONG BROWN, WITH CLAY, SUBROUNDED GRAVEL UP TO 1", MEDIUM SAND, COHESIVE, SLIGHTLY STIFF, VERY MOIST TO WET, SOLVENT ODOR
450		4			38.9			
445								

Site ID: **DP-9** Date(s): **1/8/2014**

Location: **Fort Smith, Arkansas**

Logged By: **N. Zurweller**

Consulting Firm: **ENVIRON**

Checked By: **K. Stonestreet**

Contractor: **Mohawk Drilling**

Purpose: **Soil Boring**

Drilling Method: **Direct Push**

Datum: **NAVD88**

Elevation: **474.15 amsl**

Sampling Method: **Continuous Sampler**

North: **369034.62**

East: **590987.84**



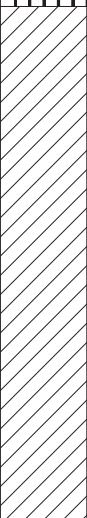

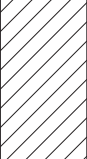


Remarks:

Borehole Dia.: **2.5 inches**

Total Depth: **26.0 feet**

Project Number: **3433253A**

Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
470		4			35.9			CONCRETE
					99.1		MH	SILTY FILL, DARK BROWN, SOME SUBBASE GRAVEL, STIFF, MOIST
465		5	4	DP-09 (5.0-5.5)	69.2		CL	CLAYEY SILT, LIGHT YELLOWISH BROWN, TRACE SUBROUNDED GRAVEL UP TO 1/2", SLIGHTLY STIFF, VERY SLIGHTLY TO SLIGHTLY PLASTIC, VERY SLIGHTLY MOIST
					48.2			SILTY CLAY, LIGHT YELLOWISH BROWN, SOME LIGHT GRAY MOTTLING, TRACE SUBROUNDED GRAVEL UP TO 1/8", STIFF, PLASTIC, SLIGHTLY MOIST
					19.3			SILTY CLAY, LIGHT YELLOWISH BROWN AND STRONG BROWN, TRACE LIGHT GRAY MOTTLING, TRACE SUBROUNDED GRAVEL UP TO 1/8", TRACE FINE SAND, PLASTIC, SLIGHTLY MOIST
					33.2			SILTY CLAY, STRONG BROWN, WITH LIGHT GRAY MOTTLING, TRACE SUBROUNDED GRAVEL UP TO 1/8", TRACE FINE SAND, HARD, PLASTIC, SLIGHTLY MOIST
460		10	4		0			LOST SAMPLE DUE TO HARD DRILLING. SMALL AMOUNT OF SOIL IN SAMPLER: SILTY CLAY, BROWN, TRACE SAND, FINE GRAIN
					0			
455		15	0		95.9		SC	SANDY CLAY, STRONG BROWN, SOME LIGHT GRAY MOTTLING, FINE SAND, PLASTIC, VERY SLIGHTLY STIFF, WET
					134.4			CLAYEY SAND, STRONG BROWN, WITH LIGHT GRAY MOTTLING, FINE SAND, COHESIVE, WET, INCREASED SAND FROM 18'-18.5' BGS
					32.3			CLAYEY SAND, STRONG BROWN, WITH LIGHT GRAY MOTTLING, FINE SAND, COHESIVE, WET
					3.0		SP	SAND WITH GRAVEL, BROWN, SOME DARK BROWN, TRACE CLAY, SUBROUNDED GRAVEL UP TO 1/8", MEDIUM TO COARSE SAND, SLIGHTLY COHESIVE, WET
450		20	3.5		7.0			SAND AND GRAVEL, BROWN AND DARK BROWN, SOME CLAY, SUBROUNDED GRAVEL UP TO 1/4", MEDIUM TO COARSE SAND, COHESIVE, VERY MOIST TO WET
					7.0		GC	SAND AND GRAVEL, BROWN AND DARK BROWN, WITH CLAY, SUBROUNDED GRAVEL UP TO 1/2", COARSE SAND, COHESIVE, VERY MOIST TO WET
445		25	2					

Site ID: **DP-11** Date(s): **1/7/2014**

Location: **Fort Smith, Arkansas**

Logged By: **N. Zurweller**

Consulting Firm: **ENVIRON**

Checked By: **K. Stonestreet**

Contractor: **Mohawk Drilling**

Purpose: **Soil Boring**

Drilling Method: **Direct Push**

Datum: **NAVD88**

Elevation: **475.35 amsl**

Sampling Method: **Continuous Sampler**

North: **369051.32**

East: **590896.86**



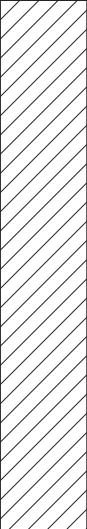




Remarks:

Borehole Dia.: **2.5 inches**

Total Depth: **26.0 feet**

Project Number: **3433253A**

Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
475					0.5		MH	SILT FILL, DARK GRAYISH BROWN, WITH SUBBASE GRAVEL, SOME CLAY, SLIGHTLY COHESIVE, SLIGHTLY MOIST
		4			1.1			CLAYEY SILT, YELLOWISH RED AND LIGHT YELLOWISH BROWN, WITH BLACK NODULES, SOME SUBROUNDED GRAVEL UP TO 1/8", SLIGHTLY PLASTIC, SLIGHTLY STIFF, SLIGHTLY MOIST
470		5			1.1		CL	SILTY CLAY, YELLOWISH RED AND LIGHT YELLOW BROWN BROWN, WITH LIGHT GRAY MOTTLING, WITH BLACK NODULES, SOME SUBROUNDED GRAVEL UP TO 1/8", SLIGHTLY PLASTIC, STIFF, SLIGHTLY MOIST
		4			0.5			
					0.3			SILTY CLAY, YELLOWISH RED AND LIGHT YELLOWISH BROWN, WITH LIGHT GRAY MOTTLING, WITH BLACK NODULES, SOME SUBROUNDED GRAVEL UP TO 1/4", SLIGHTLY PLASTIC, HARD, SLIGHTLY MOIST
465		10			0.2			
					1.1			SILTY CLAY, STRONG BROWN, TRACE LIGHT GRAY MOTTLING, SOME BLACK NODULES, HARD, SLIGHTLY PLASTIC, SLIGHTLY MOIST
		4			2.2			SILTY CLAY, STRONG BROWN AND LIGHT GRAY, SOME BLACK NODULES, TRACE FINE SAND, HARD, SLIGHTLY PLASTIC, SLIGHTLY MOIST
460		15			8.1			SANDY CLAY, STRONG BROWN, SOME LIGHT GRAY MOTTLING, FINE SAND, SLIGHTLY STIFF, MOIST TO VERY MOIST
					19.5		SC	CLAYEY SAND, STRONG BROWN AND LIGHT GRAY, FINE SAND, TRACE MEDIUM SAND, SLIGHTLY COHESIVE, MOIST.
455		20		DP-11 (19.5-20.0)	37.3		SP	SAND, STRONG BROWN, TRACE LIGHT GRAY, SOME CLAY, FINE TO MEDIUM SAND, SLIGHTLY TO VERY SLIGHTLY COHESIVE, WET
		2.8			14.4		SW	SAND, STRONG BROWN, TRACE LIGHT GRAY, TRACE CLAY, MEDIUM SAND, VERY SLIGHTLY COHESIVE
					30.1		GC	SAND AND GRAVEL, VERY DARK GRAYISH BROWN, TRACE CLAY, SUBROUNDED GRAVEL UP TO 1/2", MEDIUM SAND
450		25						SAND AND GRAVEL, VERY DARK GRAYISH BROWN, TRACE CLAY, SUBROUNDED GRAVEL UP TO 1", MEDIUM SAND, WHITE ROCK AT TOTAL DEPTH (CHERT)

Site ID: **DP-12** Date(s): **1/11/2014**

 Location: **Fort Smith, Arkansas**

 Logged By: **N. Zurweller**

 Consulting Firm: **ENVIRON**

 Checked By: **K. Stonestreet**

 Contractor: **Mohawk Drilling**

 Purpose: **Soil Boring**

 Drilling Method: **Direct Push**

 Datum: **NAVD88** Elevation: **474.3 amsl**

 Sampling Method: **Continuous Sampler**

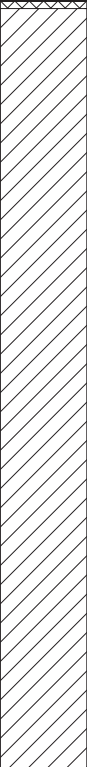
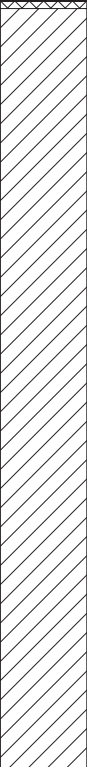
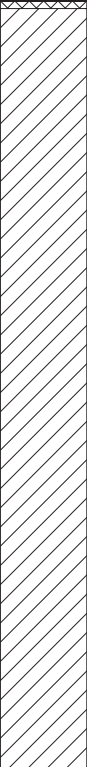



 North: **368949.21** East: **591101.69**

Remarks:

 Borehole Dia.: **2.5 inches** Total Depth: **30.0 feet**

 Project Number: **3433253A**

 Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
-470		5	3.6	DP-12 (4.5-5)	7.6		CL	SUBBASE ANGULAR GRAVEL
					17.3			SILTY CLAY AND CLAYEY SILT, STRONG BROWN, SOME YELLOWISH RED, TRACE LIGHT GRAY, WITH BLACK NODULES, SLIGHTLY STIFF TO STIFF, SLIGHTLY PLASTIC, SLIGHTLY MOIST
					40.2			SILTY CLAY AND CLAYEY SILT, STRONG BROWN, SOME YELLOWISH RED, TRACE LIGHT GRAY, WITH BLACK NODULES, SLIGHTLY STIFF TO STIFF, SLIGHTLY PLASTIC, SLIGHTLY MOIST
					18.3			SILTY CLAY, STRONG BROWN, SOME GRAY MOTTLING, SOME BLACK NODULES, VERY STIFF, SLIGHTLY PLASTIC TO PLASTIC, MOIST
-465		10	3.1	DP-12 (11.5-12.0)	13.7		CL	SILTY CLAY, STRONG BROWN, WITH LIGHT GRAY MOTTLING, WITH BLACK NODULES, STIFF, SLIGHTLY PLASTIC TO PLASTIC, MOIST
					31.4			SANDY CLAY, STRONG BROWN, WITH LIGHT GRAY MOTTLING, TRACE SUBROUNDED GRAVEL UP TO 1/8", FINE SAND, STIFF, SLIGHTLY PLASTIC, MOIST
					11.7			SANDY CLAY, STRONG BROWN, WITH LIGHT GRAY MOTTLING, TRACE SUBROUNDED GRAVEL UP TO 1/8", FINE SAND, STIFF, SLIGHTLY PLASTIC, MOIST
					7.8			SANDY CLAY, STRONG BROWN, WITH LIGHT GRAY MOTTLING, WITH SUBROUNDED GRAVEL UP TO 1/8", FINE SAND, STIFF, SLIGHTLY PLASTIC, VERY MOIST TO WET
-460		15	3.3		2.1		CL	SANDY CLAY, STRONG BROWN, WITH LIGHT GRAY MOTTLING, WITH SUBROUNDED GRAVEL UP TO 1/8", FINE SAND, LITTLE BLACK NODULES, STIFF, SLIGHTLY PLASTIC, MOIST TO VERY MOIST
					4.9			
					1.9			CH SANDY CLAY, STRONG BROWN, TRACE BLACK NODULES, FINE SAND, STICKY, WET
					2.2			SC CLAYEY SAND, STRONG BROWN, TRACE LIGHT GRAY MOTTLING, FINE SAND, COHESIVE, SOFT, MOIST
-455		20	4		5.1		SP	SAND, DARK BROWN, SOME RED AND STRONG BROWN, SOME SUBROUNDED GRAVEL UP TO 1/8", TRACE CLAY, FINE TO MEDIUM SAND, VERY SLIGHTLY COHESIVE, MOIST TO VERY MOIST
					0			SAND AND GRAVEL, STRONG BROWN, SOME CLAY, SUBROUNDED GRAVEL UP TO 1", MEDIUM TO COARSE SAND, COHESIVE, MOIST
					8.4		GC	
								SAND AND GRAVEL, STRONG BROWN, WITH CLAY, SUBROUNDED GRAVEL UP TO 1", MEDIUM TO COARSE SAND, STICKY, COHESIVE, WET
-450		25	2				GC	
-445			2				CL	WEATHERED SHALE AND CLAY, STRONG BROWN, TRACE BLACK NODULES, LAMINATED,



ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID:

DP-12

Project Name:

Whirlpool Corporation

Project Number:

3433253A

Elevation (ft)	Water Level	Depth (ft)	Sample Interval	Sample No.		PID (ppm)	Graphic Log	USCS Code	Material Description
440		35							STIFF, CRUMBLY WHEN DRY, VERY SLIGHTLY PLASTIC, SLIGHTLY MOIST. IN SHOE OF SAMPLER: BLACK WEATHERED SHALE, CRUMBLES, DRY.
435		40							
430		45							
425		50							
420		55							
415		60							
410		65							
405									

Site ID: **DP-13** Date(s): **1/10/2014**

Location: **Fort Smith, Arkansas**

Logged By: **N. Zurweller**

Consulting Firm: **ENVIRON**

Checked By: **K. Stonestreet**

Contractor: **Mohawk Drilling**

Purpose: **Soil Boring**

Drilling Method: **Direct Push**

Datum: **NAVD88** Elevation: **478 amsl**

Sampling Method: **Continuous Sampler**

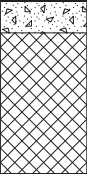
North: **368868.56** East: **591041.31**

Remarks:

Borehole Dia.: **2.5 inches** Total Depth: **4.5 feet**

Project Number: **3433253A**

Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
475		1			0			CONCRETE
		0.5			0			SAND AND GRAVEL FILL, BROWN AND LIGHT BROWNISH GRAY, MEDIUM SAND, LOOSE, ANGULAR SUBBASE GRAVEL UP TO 3/4", MOIST
		5			0			SAND AND GRAVEL FILL, BROWN AND LIGHT BROWNISH GRAY, MEDIUM SAND, LOOSE, REFUSAL AT 4.5' BGS, ANGULAR SUBBASE GRAVEL UP TO 3/4", MOIST
470								
		10						
465								
		15						
460								
		20						
455								
		25						
450								

Site ID: **DP-14** Date(s): **1/9/2014**

Location: **Fort Smith, Arkansas**

Logged By: **N. Zurweller**

Consulting Firm: **ENVIRON**

Checked By: **K. Stonestreet**

Contractor: **Mohawk Drilling**

Purpose: **Soil Boring**

Drilling Method: **Direct Push**

Datum: **NAVD88** Elevation: **478 amsl**

Sampling Method: **Continuous Sampler**

















North: **368686.91** East: **590899.15**

Remarks:

Borehole Dia.: **2.5 inches** Total Depth: **31.0 feet**

Project Number: **3433253A**

Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
-475		4			5.2			CONCRETE
					12.2		CL	SILTY SAND FILL, VERY DARK GRAYISH BROWN, SOME SUBANGULAR GRAVEL UP TO 1/2", FINE SAND, LOOSE, SLIGHTLY MOIST
-470		5	4		9.8			SILTY CLAY, GRAYISH BROWN, VERY STIFF, SLIGHTLY PLASTIC TO PLASTIC, VERY SLIGHTLY MOIST
					14.7			SILTY CLAY, STRONG BROWN, WITH GRAY MOTTILING, VERY STIFF, VERY SLIGHTLY MOIST
-465		10	4	DP-14 (11.5-12.0)	16.8			SILTY CLAY, STRONG BROWN, WITH GRAY MOTTILING, LITTLE BLACK NODULES, TRACE SUBROUNDED GRAVEL UP TO 1/8", VERY STIFF, SLIGHTLY PLASTIC TO PLASTIC, VERY SLIGHTLY MOIST
					20.0			SILTY CLAY, STRONG BROWN, WITH GRAY MOTTILING, SOME SUBROUNDED GRAVEL UP TO 1/8", TRACE BLACK NODULES, VERY STIFF, SLIGHTLY PLASTIC TO PLASTIC, VERY SLIGHTLY MOIST
-460		15	2	DP-14 (15.5-16.0)	0			SILTY CLAY, STRONG BROWN, WITH GRAY MOTTILING, SOME SUBROUNDED GRAVEL UP TO 1/8", SOME FINE SAND, TRACE BLACK NODULES, VERY STIFF, SLIGHTLY PLASTIC TO PLASTIC, VERY SLIGHTLY MOIST
					31.1			SILTY CLAY, STRONG BROWN, WITH GRAY MOTTILING, WITH BLACK NODULES, VERY STIFF, SLIGHTLY PLASTIC TO PLASTIC, VERY SLIGHTLY MOIST
-455		20	1.5		14.4			SILTY CLAY, STRONG BROWN, WITH GRAY MOTTILING, VERY STIFF, SLIGHTLY PLASTIC TO PLASTIC, VERY SLIGHTLY MOIST
					7.2			SILTY CLAY, STRONG BROWN AND GRAY, LITTLE FINE SAND, VERY STIFF, SLIGHTLY PLASTIC TO PLASTIC, VERY SLIGHTLY MOIST
-450		25	4	DP-14 (28.5-29.0)	11.7			SANDY CLAY, STRONG BROWN, FINE SAND, SLIGHTLY PLASTIC, MOIST
					0			SANDY CLAY, STRONG BROWN, VERY FINE TO FINE SAND, SLIGHTLY PLASTIC, MOIST
					19.5		SC	CLAYEY SAND, STRONG BROWN, FINE SAND, STICKY, WET
					78.6		CL	SILTY CLAY, STRONG BROWN AND GRAY, SOME VERY FINE SAND, SLIGHTLY PLASTIC TO PLASTIC, VERY STIFF, SLIGHTLY MOIST
					108.4		SC	CLAYEY SAND, STRONG BROWN, TRACE LIGHT GREENISH GRAY, FINE SAND, COHESIVE, MOIST
							CL	SILTY CLAY, STRONG BROWN AND GRAY, SOME VERY FINE SAND, SLIGHTLY PLASTIC TO



2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-14
Project Name: Whirlpool Corporation
Project Number: 3433253A

Elevation (ft)	Water Level	Depth (ft)	Sample Interval	Sample No.		PID (ppm)	Graphic Log	USCS Code	Material Description
445		35	3		26.2		SC CL		PLASTIC, VERY STIFF, SLIGHTLY MOIST CLAYEY SAND, STRONG BROWN, TRACE LIGHT GREENISH GRAY, FINE SAND, COHESIVE, MOIST (continued) SILTY CLAY, BROWN AND GRAY, SOME VERY FINE SAND, SLIGHTLY PLASTIC TO PLASTIC, VERY STIFF, SLIGHTLY MOIST
440		40							
435		45							
430		50							
425		55							
420		60							
415		65							
410									

Site ID: **DP-15** Date(s): **1/6/2014**

Location: **Fort Smith, Arkansas**

Logged By: **N. Zurweller**

Consulting Firm: **ENVIRON**

Checked By: **K. Stonestreet**

Contractor: **Mohawk Drilling**

Purpose: **Soil Boring**

Drilling Method: **Direct Push**

Datum: **NAVD88** Elevation: **478 amsl**

Sampling Method: **Continuous Sampler**

North: **368693.86** East: **590862.95**

Remarks:

Borehole Dia.: **2.5 inches** Total Depth: **32.0 feet**

Project Number: **3433253A**

Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
475		3.8			1.7		ML	SILT, DARK GRAY, TRACE CLAY, TRACE SUBANGULAR GRAVEL UP TO 1/8", SLIGHTLY STIFF, NON-PLASTIC,
					1.9		CL	SILTY CLAY, DARK GRAYISH BROWN, WITH RED MOTTLING, STIFF, SLIGHTLY PLASTIC TO PLASTIC, SLIGHTLY MOIST
470		4			2.0			SILTY CLAY, GRAYISH BROWN, TRACE RED, STIFF, PLASTIC, SLIGHTLY MOIST TO MOIST
					2.0			
					2.1			SILTY CLAY, STRONG BROWN, SLIGHTLY STIFF, PLASTIC, MOIST, DARK BROWN AT 8.4'-8.5'
					2.0			SILTY CLAY, STRONG BROWN, SOME LIGHT GRAY MOTTLING, TRACE SUBROUNDED GRAVEL UP TO 1/8", STIFF, SLIGHTLY PLASTIC TO PLASTIC, LIGHTLY MOIST
465		4		DP-15 (14-14.5)	1.7			SILTY CLAY, STRONG BROWN, WITH LIGHT GRAY MOTTLING, SOME SUBROUNDED GRAVEL UP TO 1/4", LITTLE BLACK NODULES, SLIGHTLY PLASTIC TO PLASTIC, VERY STIFF, SLIGHTLY MOIST
					2.6			SILTY CLAY, STRONG BROWN, SOME LIGHT GRAY MOTTLING, STIFF, PLASTIC, SLIGHTLY MOIST, SOME DARK BROWN AT 13.5' BGS, WITH FINE SAND LAST 0.6'
					3.9			SILTY CLAY, STRONG BROWN, SOME LIGHT GRAY MOTTLING, SOME BLACK NODULES, LITTLE VERY FINE SAND, SLIGHTLY PLASTIC TO PLASTIC, STIFF, MOIST. TRACE VERY FINE SAND, SLIGHTLY STIFF, PLASTIC, MOIST, LAST 0.4'
460		4		DP-15 (18.5-19)	12.0			
					130.6		SC	CLAYEY SAND, STRONG BROWN AND LIGHT GREENISH GRAY, VERY FINE TO FINE SAND, COHESIVE, SLIGHTLY STICKY, WET, VERY MOIST FROM 21.5-23.1' BGS.
455		4		DP-15 (22.5-23.0)	231.6		CL	SANDY CLAY, STRONG BROWN, SOME BLACK STREAKING, SLIGHTLY PLASTIC, COHESIVE, SLIGHTLY STIFF, MOIST.
					133.7		CL	SANDY CLAY, STRONG BROWN, SOME BLACK STREAKING, SLIGHTLY PLASTIC, COHESIVE, SLIGHTLY STIFF, SLIGHTLY MOIST.
450		4		DP-15 (25.0-25.5)	399.4		SC	SAND, SOME CLAY, STRONG BROWN, WITH DARK BROWN, MEDIUM SAND, SLIGHTLY COHESIVE, VERY MOIST
					399.1		SW	SAND, DARK GRAY, SOME BLACK, TRACE CLAY, MEDIUM SAND, VERY SLIGHTLY COHESIVE, VERY MOIST
					399.1		GC	SAND, DARK GRAY, SOME BLACK, TRACE CLAY, SOME GRAVEL UP TO 1/8", MEDIUM SAND, VERY SLIGHTLY COHESIVE, VERY MOIST



ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID:


DP-15

Project Name:

Whirlpool Corporation

Project Number:

3433253A

Elevation (ft)	Water Level	Depth (ft)	Sample Interval	Sample No.		PID (ppm)	Graphic Log	USCS Code	Material Description
445		35	4		241.5		GC		SAND AND GRAVEL, STRONG BROWN, WITH CLAY, SUBROUNDED GRAVEL UP TO 1" MEDIUM TO COARSE SAND, COHESIVE, STIFF TO SLIGHTLY STIFF, MOIST (continued)
440		40							
435		45							
430		50							
425		55							
420		60							
415		65							
410									

Site ID: **DP-16** Date(s): **1/9/2014**

Location: **Fort Smith, Arkansas**

Logged By: **N. Zurweller**

Consulting Firm: **ENVIRON**

Checked By: **K. Stonestreet**

Contractor: **Mohawk Drilling**

Purpose: **Soil Boring**

Drilling Method: **Direct Push**

Datum: **NAVD88** Elevation: **478 amsl**

Sampling Method: **Continuous Sampler**


















North: **368635.87** East: **590896.42**

Remarks:

Borehole Dia.: **2.5 inches** Total Depth: **30.0 feet**

Project Number: **3433253A**

Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
475		4			8.6			CONCRETE
					22.3		CL	SILTY FILL, VERY DARK BROWN, SOME ANGULAR GRAVEL UP TO 3/4", SOME FINE SAND, LOOSE, VERY SLIGHTLY MOIST
					82.4			SILTY CLAY, GRAYISH BROWN, WITH GRAY MOTTLING, STIFF, SLIGHTLY PLASTIC TO PLASTIC, SLIGHTLY MOIST
470		4			38.1		ML	SILTY CLAY, GRAYISH BROWN, WITH GRAY MOTTLING, STIFF, SLIGHTLY PLASTIC TO PLASTIC, SLIGHTLY MOIST
					32.3		CL	CLAYEY SILT, PALE BROWN AND STRONG BROWN, SLIGHTLY STIFF, NON-PLASTIC, SLIGHTLY MOIST
					74.5			SILTY CLAY, STRONG BROWN, WITH GRAY MOTTLING, TRACE BLACK NODULES, SLIGHTLY PLASTIC TO PLASTIC, HARD, SLIGHTLY MOIST
465		4			10.8		ML	SILTY CLAY, STRONG BROWN, WITH GRAY MOTTLING, SOME BLACK NODULES, SLIGHTLY PLASTIC TO PLASTIC, HARD, SLIGHTLY MOIST
					10.8		CL	CLAYEY SILT, PALE BROWN TO BROWN, SLIGHTLY STIFF, NON-PLASTIC, SLIGHTLY MOIST
					72.1			SILTY CLAY, STRONG BROWN, WITH GRAY MOTTLING, SOME BLACK NODULES, SLIGHTLY PLASTIC TO PLASTIC, HARD, SLIGHTLY MOIST
460		4			29.4			SILTY CLAY, STRONG BROWN, WITH GRAY MOTTLING, SOME BLACK NODULES, SLIGHTLY PLASTIC TO PLASTIC, HARD, SLIGHTLY MOIST
					13.1			SILTY CLAY, STRONG BROWN, WITH LIGHT GREENISH GRAY MOTTLING, TRACE VERY FINE SAND, VERY STIFF, SLIGHTLY PLASTIC, SLIGHTLY MOIST TO MOIST
					35.0			SILTY CLAY, STRONG BROWN, TRACE VERY FINE SAND, LIGHT GREENISH GRAY MOTTLING, SLIGHTLY STIFF, PLASTIC, MOIST
455		4			19.1			SILTY CLAY, STRONG BROWN, WITH LIGHT GREENISH GRAY MOTTLING, SOME VERY FINE SAND, SLIGHTLY STIFF, PLASTIC, MOIST
					9.8			SILTY CLAY, STRONG BROWN, WITH LIGHT GREENISH GRAY MOTTLING, TRACE VERY FINE SAND, SLIGHTLY STIFF, PLASTIC, MOIST
					7.2			SILTY CLAY, STRONG BROWN, WITH LIGHT GREENISH GRAY MOTTLING, LITTLE VERY FINE SAND, SLIGHTLY STIFF, PLASTIC, MOIST
450		2			5.5			SILTY CLAY, STRONG BROWN, WITH LIGHT GREENISH GRAY MOTTLING, SOME VERY FINE SAND, SLIGHTLY STIFF, PLASTIC, MOIST
							SC	CLAYEY SAND, STRONG BROWN, STICKY, VERY COHESIVE, WET. SILTY CLAY, BROWN AND



ENVIRON

2118 N. Tyler Road, Wichita, Kansas 67212

Site ID:

DP-16

Project Name:

Whirlpool Corporation

Project Number:

3433253A

Elevation (ft)	Water Level	Depth (ft)	Sample Interval	Sample No.		PID (ppm)	Graphic Log	USCS Code	Material Description
445		35							GRAY, SOME BLACK NODULES, LAMINATED HARD, IN THE SHOE OF SAMPLER
440		40							
435		45							
430		50							
425		55							
420		60							
415		65							
410									

Site ID: **DP-17** Date(s): **1/8/2014**

 Location: **Fort Smith, Arkansas**

 Logged By: **N. Zurweller**

 Consulting Firm: **ENVIRON**

 Checked By: **K. Stonestreet**

 Contractor: **Mohawk Drilling**

 Purpose: **Soil Boring**

 Drilling Method: **Direct Push**

 Datum: **NAVD88** Elevation: **478 amsl**

 Sampling Method: **Continuous Sampler**











 North: **368689.19** East: **590954.97**

Remarks:

 Borehole Dia.: **2.5 inches** Total Depth: **31.5 feet**

 Project Number: **3433253A**


 Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
-475		2.9			1.7		GC	CONCRETE
					2.5			SILTY SAND FILL, VERY DARK BROWN, FINE SAND, LOOSE, MOIST
-470		4			4.8		CL	GRAVEL AND SILTY CLAY, STRONG BROWN, WITH SUBANGULAR GRAVEL UP TO 1/2", LITTLE FINE SAND, SLIGHTLY COHESIVE, SLIGHTLY MOIST
					3.9			SILTY CLAY, GRAYISH BROWN, WITH STRONG BROWN, WITH GRAY MOTTLING, TRACE BLACK NODULES, TRACE WHITE NODULES, VERY STIFF, SLIGHTLY PLASTIC TO PLASTIC, SLIGHTLY MOIST
-465		10	4	DP-17 (9.0-9.5)	8.3			SILTY CLAY, GRAYISH BROWN, WITH STRONG BROWN, WITH GRAY MOTTLING, TRACE TO LITTLE SUBROUNDED GRAVEL UP TO 1/8", LITTLE BLACK NODULES, HARD, SLIGHTLY PLASTIC TO PLASTIC, SLIGHTLY MOIST
					7.5			
-460		15	4		7.7			SILTY CLAY, GRAYISH BROWN, WITH STRONG BROWN, WITH GRAY MOTTLING, SOME BLACK NODULES, HARD, SLIGHTLY PLASTIC TO PLASTIC, SLIGHTLY MOIST
					6.4			
-455		20	1		3.7			SILTY CLAY, GRAYISH BROWN, WITH STRONG BROWN, WITH GRAY MOTTLING, SOME BLACK NODULES, STIFF, PLASTIC, SLIGHTLY MOIST. DIFFICULT TO SEPARATE SLUFF FROM SAMPLE.
					5.6			
-450		25	3.4		4.5			SILTY CLAY, LIGHT GREENISH GRAY, TRACE STRONG BROWN MOTTLING, TRACE FINE SAND, PLASTIC, STIFF, SLIGHTLY MOIST
					4.8			SILTY CLAY, STRONG BROWN AND LIGHT GREENISH GRAY, TRACE VERY FINE SAND, STIFF, PLASTIC, SLIGHTLY MOIST
		2.8			3.7			SILTY CLAY, STRONG BROWN AND LIGHT GREENISH GRAY, TRACE TO LITTLE VERY FINE SAND, STIFF, PLASTIC, SLIGHTLY MOIST
					3.7			SANDY CLAY, STRONG BROWN, VERY FINE TO FINE SAND, STICKY, PLASTIC, VERY MOIST
					4.1		GC	GRAVEL, SUBROUNDED UP TO 1/2", WET.
					4.4		CL	SANDY CLAY, STRONG BROWN, VERY FINE TO FINE SAND, STICKY, PLASTIC, VERY MOIST.



2118 N. Tyler Road, Wichita, Kansas 67212

Site ID: DP-17
Project Name: Whirlpool Corporation
Project Number: 3433253A

Elevation (ft)	Water Level	Depth (ft)	Sample Interval	Sample No.		PID (ppm)	Graphic Log	USCS Code	Material Description
445		3.5			14.9		GC		CLAYEY SAND AND GRAVEL, STRONG BROWN, SUBROUNDED GRAVEL UP TO 1/2", MEDIUM TO COARSE SAND, COHESIVE, VERY MOIST.
440		35							
435		40							
430		45							
425		50							
420		55							
415		60							
410		65							

Site ID: **DP-18** Date(s): **1/9/2014**

Location: **Fort Smith, Arkansas**

Logged By: **N. Zurweller**

Consulting Firm: **ENVIRON**

Checked By: **K. Stonestreet**

Contractor: **Mohawk Drilling**

Purpose: **Soil Boring**

Drilling Method: **Direct Push**

Datum: **NAVD88** Elevation: **478 amsl**

Sampling Method: **Continuous Sampler**


North: **368701.79** East: **591195.98**

Remarks:

Borehole Dia.: **2.5 inches** Total Depth: **28.0 feet**

Project Number: **3433253A**

Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
-475			4	DP-18 (27.5-28.0)	4.2		CL	CONCRETE
					5.1			SILTY CLAY, GRAYISH BROWN AND STRONG BROWN, TRACE BLACK NODULES, SLIGHTLY STIFF, SLIGHTLY PLASTIC, SLIGHTLY MOIST, SLIGHTLY MOIST, INCREASED SILT FROM 1-2' BGS
5		4	5.8		SILTY CLAY, GRAYISH BROWN AND STRONG BROWN, TRACE BLACK NODULES, SLIGHTLY STIFF, SLIGHTLY PLASTIC, SLIGHTLY MOIST, SLIGHTLY MOIST			
			6.8		SILTY CLAY, STRONG BROWN, WITH GRAY MOTTILING, WITH BLACK NODULES, PLASTIC, STIFF TO VERY STIFF, SLIGHTLY MOIST.			
10		4	7.0		SILTY CLAY, STRONG BROWN, WITH GRAY MOTTILING, SOME BLACK NODULES, TRACE SUBROUNDED GRAVEL UP TO 1/8", SLIGHTLY PLASTIC TO PLASTIC, VERY STIFF, SLIGHTLY MOIST.			
			7.5		SILTY CLAY, STRONG BROWN, WITH GRAY MOTTILING, SOME BLACK NODULES, TRACE SUBROUNDED GRAVEL UP TO 1/8", SLIGHTLY PLASTIC TO PLASTIC, HARD, SLIGHTLY MOIST.			
465		4	4.8		SILTY CLAY, STRONG BROWN, WITH GRAY MOTTILING, SOME BLACK NODULES, TRACE SUBROUNDED GRAVEL UP TO 1/8", SLIGHTLY PLASTIC TO PLASTIC, HARD, SLIGHTLY MOIST.			
			22.3		SILTY CLAY, STRONG BROWN, WITH LIGHT GREENISH GRAY MOTTILING, WITH FINE SAND, TRACE BLACK NODULES, STIFF TO VERY STIFF, SLIGHTLY PLASTIC TO PLASTIC, SLIGHTLY MOIST			
460		4	12.7		SILTY CLAY, STRONG BROWN, WITH LIGHT GREENISH GRAY MOTTILING, WITH FINE SAND, TRACE BLACK NODULES, STIFF TO VERY STIFF, SLIGHTLY PLASTIC TO PLASTIC, SLIGHTLY MOIST			
			32.9		SANDY CLAY, STRONG BROWN, SOME LIGHT GREENISH GRAY MOTTILING, SOME BLACK STREAKING, FINE SAND, STIFF TO SLIGHTLY STIFF, PLASTIC			
20		4	23.6		SANDY CLAY, STRONG BROWN, SOME LIGHT GREENISH GRAY MOTTILING, SOME SUBROUNDED GRAVEL UP TO 1/4", SOME BLACK STREAKING, FINE SAND, STIFF TO SLIGHTLY STIFF, PLASTIC			
			37.5		SC	CLAYEY SAND, STRONG BROWN, LITTLE LIGHT GREENISH GRAY MOTTILING, SOME SUBROUNDED GRAVEL UP TO 1/4", FINE TO MEDIUM SAND, COHESIVE, MOIST		
25		3.5	22.3			CLAYEY SAND, STRONG BROWN, LITTLE LIGHT GREENISH GRAY MOTTILING, SOME SUBROUNDED GRAVEL UP TO 1/4", FINE TO MEDIUM SAND, COHESIVE, MOIST		
			28.7		GC	CLAYEY SAND, STRONG BROWN, SOME SUBROUNDED GRAVEL UP TO 1/8", FINE TO MEDIUM SAND, STICKY, COHESIVE, WET		
-450							SAND AND GRAVEL, STRONG BROWN, SUBROUNDED GRAVEL UP TO 1", TRACE CLAY, MEDIUM SAND, SLIGHTLY COHESIVE, WET.	

Site ID: **DP-19** Date(s): **1/11/2014**

Location: **Fort Smith, Arkansas**

Logged By: **N. Zurweller**

Consulting Firm: **ENVIRON**

Checked By: **K. Stonestreet**

Contractor: **Mohawk Drilling**

Purpose: **Soil Boring**

Drilling Method: **Direct Push**

Datum: **NAVD88** Elevation: **478 amsl**

Sampling Method: **Continuous Sampler**

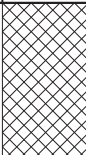
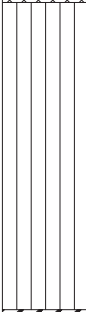



North: **368293.84** East: **590857.76**

Remarks:

Borehole Dia.: **2.5 inches** Total Depth: **19.2 feet**

Project Number: **3433253A**

Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
475			4		0		CH	GRAVEL, SUBBASE
					0			SILTY FILL AND GRAVEL, DARK BROWN, SLIGHTLY STIFF, VERY SLIGHTLY MOIST
470		5	4		0		ML	CLAYEY SILT FILL, VERY DARK GRAYISH BROWN, WITH SUBANGULAR GRAVEL UP TO 1", SLIGHTLY STIFF, CRUMBLY, MOIST
					0			CLAYEY SILT FILL, VERY DARK GRAYISH BROWN, WITH SUBANGULAR GRAVEL UP TO 1", SOME SILTY CLAY, SLIGHTLY STIFF, CRUMBLY, MOIST
465		10	2		0		CH	SILTY CLAY, STRONG BROWN, SOME GRAY MOTTLING, TRACE BLACK NODULES, VERY STIFF, SLIGHTLY PLASTIC, VERY SLIGHTLY MOIST, ABUNDANT SILT FIRST 0.5'
					0			NATIVE SOIL WITH MOTTLING, GRAY.
460		15	4		0			NATIVE SOIL WITH MOTTLING, GRAY, AND BLACK NODULES, SLUFF
					0			NATIVE SOIL WITH MOTTLING, GRAY, AND BLACK NODULES, SLUFF, HARD
455		20	3.2		0			
					0			
450		25						

Site ID: **DP-22** Date(s): **1/10/2014**

Location: **Fort Smith, Arkansas**

Logged By: **N. Zurweller**

Consulting Firm: **ENVIRON**

Checked By: **K. Stonestreet**

Contractor: **Mohawk Drilling**

Purpose: **Soil Boring**

Drilling Method: **Direct Push**

Datum: **NAVD88** Elevation: **478 amsl**

Sampling Method: **Continuous Sampler**

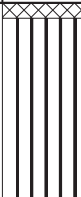

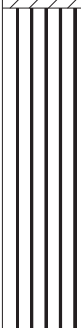



North: **368822.35** East: **592096.76**

Remarks:

Borehole Dia.: **2.5 inches** Total Depth: **28.5 feet**

Project Number: **3433253A**

Project Name: **Whirlpool Corporation**

Elevation (ft)	Water Level	Depth (ft)	Recovery (feet)	Sample No.	PID (ppm)	Graphic Log	USCS Code	Material Description
475		5	3		4.3		MH	SAND FILL, LIGHT BROWN, TRACE GRAVEL, FINE GRAIN, SLIGHTLY MOIST
			5.9		CLAYEY SILT, STRONG BROWN, SOME BLACK NODULES, STIFF, VERY SLIGHTLY MOIST			
470		5	4	DP-22 (8.5-9.0)	5.8		CL	CLAYEY SILT, STRONG BROWN, SOME BLACK NODULES, STIFF, VERY SLIGHTLY MOIST
			6.8		SILTY CLAY, STRONG BROWN, TRACE GRAY MOTTLING, TRACE SUBROUNDED GRAVEL UP TO 1/8", TRACE BLACK NODULES, SLIGHTLY STIFF, VERY SLIGHTLY MOIST.			
465		10	4		6.1		MH	CLAYEY SILT, STRONG BROWN AND PALE BROWN, TRACE LIGHT GRAY MOTTLING, SOME WHITE NODULES, TRACE BLACK NODULES, VERY SLIGHTLY PLASTIC, DRY
			6.2		CLAYEY SILT, STRONG BROWN AND PALE BROWN, TRACE LIGHT GRAY MOTTLING, SOME WHITE NODULES, TRACE BLACK NODULES, VERY SLIGHTLY PLASTIC, DRY			
460		15	4		5.1		CL	CLAYEY SILT, STRONG BROWN, WITH SUBROUNDED GRAVEL UP TO 1/4", WITH BLACK NODULES, VERY SLIGHTLY PLASTIC, STIFF, SLIGHTLY MOIST
			5.2		CLAYEY SILT, STRONG BROWN, WITH SUBROUNDED GRAVEL UP TO 1/4", WITH BLACK NODULES, VERY SLIGHTLY PLASTIC, STIFF, SLIGHTLY MOIST			
455		20	4		4.7		CH	CLAYEY SILT, STRONG BROWN, WITH SUBROUNDED GRAVEL UP TO 1/4", WITH BLACK NODULES, VERY SLIGHTLY PLASTIC, STIFF, SLIGHTLY MOIST
			6.6		SILTY CLAY, STRONG BROWN, TRACE GRAY MOTTLING, STIFF, PLASTIC, SLIGHTLY MOIST			
450		25	4		4.3		SC	SILTY CLAY, STRONG BROWN, TRACE GRAY MOTTLING, STIFF, PLASTIC, SLIGHTLY MOIST
			5.9		SANDY CLAY, STRONG BROWN, WITH LIGHT GREENISH GRAY MOTTLING, VERY FINE TO FINE SAND, SLIGHTLY STIFF, SLIGHTLY MOIST			
		0.5	0.5	DP-22 (27.5-28)	6.6		GC	SILTY CLAY, STRONG BROWN, WITH LIGHT GRAY MOTTLING, SOME FINE TO VERY FINE SAND, SLIGHTLY STIFF TO STIFF, SLIGHTLY MOIST
			6.2		SANDY CLAY, STRONG BROWN, WITH LIGHT GREENISH GRAY MOTTLING, VERY FINE TO FINE SAND, SLIGHTLY STIFF, SLIGHTLY MOIST			
								CLAYEY SAND WITH GRAVEL, STRONG BROWN, SUBROUNDED GRAVEL UP TO 1/4", FINE SAND, STIFF, SLIGHTLY MOIST TO MOIST
								SAND AND GRAVEL, STRONG BROWN, SOME CLAY, SUBROUNDED GAVEL UP TO 1", FINE TO MEDIUM SAND, MOIST.