



TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

REVISED

PROJECT NO. 1991-135-11/002

Honeywell Ponds

Lot #: F9F190210

Sean Chisek

Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711

TESTAMERICA LABORATORIES, INC.

Terry Romanko
Project Manager

January 7, 2010

Case Narrative
LOT NUMBER: F9F190210
Revised

This report contains the analytical results for the 10 samples received under chain of custody by TestAmerica St. Louis on June 18, 2009. These samples are associated with your Honeywell Ponds project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted on the following page.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

This report is revised to report Chemistry data on a wet-weight basis.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Trace ICP Metals

The sample was analyzed at a dilution due to high concentrations of target analytes. The reporting limit has been adjusted for the dilution since no analysis at a lesser dilution was performed.

Affected Samples:

F9F190210 (2): D-14 U SAMPLE @ 6.0'	F9F190210 (8): D-15
F9F190210 (4): D-26 U SAMPLE @ 8.50'	

Batch 9174136:

The MS (MSD) recovery for uranium is outside the established QC limits. The said analyte concentration in the original sample is greater than four times the amount spiked, making percent recovery information ineffective. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F9F190210 (1): D-14	F9F190210 (5): D-32
F9F190210 (2): D-14 U SAMPLE @ 6.0'	F9F190210 (6): D-27
F9F190210 (3): D-20	F9F190210 (7): D-21
F9F190210 (4): D-26 U SAMPLE @ 8.50'	F9F190210 (8): D-15

Batch 9175246:

Analysis of the sample designated for MS/MSD is a sufficiently high concentration that the MS/MSD are above the instrument's calibration range. MS/MSD results are reported as estimated values.

The MS (MSD) recovery for uranium is outside the established QC limits. The RPD is within method acceptance criteria indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F9F190210 (9): D-15 U	F9F190210 (10): D-26
-----------------------	----------------------

METHODS SUMMARY

F9F190210

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Method D2216 Percent H2O Dry 105 Degrees C, Weigh Trace Inductively Coupled Plasma (ICP) Metals	ASTM Moisture, SW846 6010B	ASTM ASTM 2216

References:

ASTM Annual Book Of ASTM Standards.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

F9F190210

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LE9L7	001	D-14	06/16/09	08:45
LE9MK	002	D-14 U SAMPLE @ 6.0'	06/16/09	08:45
LE9NC	003	D-20	06/16/09	09:20
LE9NQ	004	D-26 U SAMPLE @ 8.50'	06/16/09	10:42
LE9NV	005	D-32	06/16/09	11:10
LE9NW	006	D-27	06/16/09	13:50
LE9NX	007	D-21	06/17/09	14:25
LE9N0	008	D-15	06/17/09	08:30
LE9T8	009	D-15 U	06/17/09	08:30
LE9VC	010	D-26	06/16/09	10:42

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Andrews Engineering, Inc.

Client Sample ID: D-14

TOTAL Metals

Lot-Sample #...: F9F190210-001

Matrix.....: SOLID

Date Sampled...: 06/16/09 08:45 Date Received...: 06/18/09

% Moisture.....: 50

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 9174136						
Uranium	389	50.0	mg/kg	SW846 6010B	06/23-06/25/09	LE9L71AD
		Dilution Factor: 1		Analysis Time...: 06:02		

Andrews Engineering, Inc.

Client Sample ID: D-14

General Chemistry

Lot-Sample #...: F9F190210-001 Work Order #...: LE9L7 Matrix.....: SOLID
 Date Sampled...: 06/16/09 08:45 Date Received...: 06/18/09
 % Moisture.....: 50

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	49.6	0.10	%	ASTM Moisture, %	06/25-06/26/09	9176306
		Dilution Factor: 1		Analysis Time..: 00:00		

Andrews Engineering, Inc.

Client Sample ID: D-14 U SAMPLE @ 6.0'

TOTAL Metals

Lot-Sample #...: F9F190210-002
Date Sampled...: 06/16/09 08:45 Date Received...: 06/18/09
% Moisture.....: 45

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 9174136 Uranium	2270	250	mg/kg	SW846 6010B	06/23-06/25/09	LE9MKIAD
		Dilution Factor: 5		Analysis Time...: 06:28		

Andrews Engineering, Inc.

Client Sample ID: D-14 U SAMPLE @ 6.0'

General Chemistry

Lot-Sample #...: F9F190210-002 Work Order #...: LE9MK Matrix.....: SOLID
 Date Sampled...: 06/16/09 08:45 Date Received...: 06/18/09
 % Moisture.....: 45

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	45.3	0.10	%	ASTM Moisture, %	06/25-06/26/09	9176306
		Dilution Factor: 1		Analysis Time...: 00:00		

Andrews Engineering, Inc.

Client Sample ID: D-20

TOTAL Metals

Lot-Sample #...: F9F190210-003
 Date Sampled...: 06/16/09 09:20 Date Received...: 06/18/09
 % Moisture.....: 47

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 9174136						
Uranium	286	50.0	mg/kg	SW846 6010B	06/23-06/25/09	LE9NC1AD
		Dilution Factor: 1		Analysis Time...: 06:34		

Andrews Engineering, Inc.

Client Sample ID: D-20

General Chemistry

Lot-Sample #....: F9F190210-003 Work Order #....: LE9NC Matrix.....: SOLID
 Date Sampled....: 06/16/09 09:20 Date Received...: 06/18/09
 % Moisture.....: 47

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	47.4	0.10	%	ASTM Moisture, %	06/25-06/26/09	9176306
		Dilution Factor: 1		Analysis Time...: 00:00		

Andrews Engineering, Inc.

Client Sample ID: D-26 U SAMPLE @ 8.50'

TOTAL Metals

Lot-Sample #...: F9F190210-004

Matrix.....: SOLID

Date Sampled...: 06/16/09 10:42 Date Received...: 06/18/09

% Moisture.....: 47

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...: 9174136						
Uranium	2320	250	mg/kg	SW846 6010B	06/23-06/25/09	LE9NQ1AD
		Dilution Factor: 5		Analysis Time...: 06:41		

Andrews Engineering, Inc.

Client Sample ID: D-26 U SAMPLE @ 8.50'

General Chemistry

Lot-Sample #...: F9F190210-004 Work Order #...: LE9NQ Matrix.....: SOLID
Date Sampled...: 06/16/09 10:42 Date Received...: 06/18/09
% Moisture.....: 47

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	46.6	0.10	%	ASTM Moisture, %	06/25-06/26/09	9176306

Dilution Factor: 1 Analysis Time...: 00:00

Andrews Engineering, Inc.

Client Sample ID: D-32

TOTAL Metals

Lot-Sample #...: F9F190210-005

Matrix.....: SOLID

Date Sampled...: 06/16/09 11:10 Date Received...: 06/18/09

% Moisture.....: 55

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...: 9174136						
Uranium	37.9 B	50.0	mg/kg	SW846 6010B	06/23-06/25/09	LE9NV1AD
		Dilution Factor: 1		Analysis Time...: 07:00		

NOTE(S):

B Estimated result. Result is less than RL.

Andrews Engineering, Inc.

Client Sample ID: D-32

General Chemistry

Lot-Sample #...: F9F190210-005 Work Order #...: LE9NV Matrix.....: SOLID
 Date Sampled...: 06/16/09 11:10 Date Received...: 06/18/09
 % Moisture.....: 55

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	54.9	0.10	%	ASTM Moisture, %	06/25-06/26/09	9176306
		Dilution Factor: 1		Analysis Time...: 00:00		

Andrews Engineering, Inc.

Client Sample ID: D-27

TOTAL Metals

Lot-Sample #...: F9F190210-006
 Date Sampled...: 06/16/09 13:50 Date Received...: 06/18/09
 % Moisture.....: 48

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 9174136						
Uranium	326	50.0	mg/kg	SW846 6010B	06/23-06/25/09	LE9NW1AD
		Dilution Factor: 1		Analysis Time...: 07:06		

Andrews Engineering, Inc.

Client Sample ID: D-27

General Chemistry

Lot-Sample #...: F9F190210-006 Work Order #...: LE9NW Matrix.....: SOLID
 Date Sampled...: 06/16/09 13:50 Date Received...: 06/18/09
 % Moisture.....: 48

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	47.9	0.10	%	ASTM Moisture, %	06/25-06/26/09	9176306
		Dilution Factor: 1		Analysis Time...: 00:00		

Andrews Engineering, Inc.

Client Sample ID: D-21

TOTAL Metals

Lot-Sample #...: F9F190210-007
Date Sampled...: 06/16/09 14:25 Date Received...: 06/18/09
% Moisture.....: 48

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...	9174136					
Uranium	401	50.0	mg/kg	SW846 6010B	06/23-06/25/09	LE9NXIAD
		Dilution Factor: 1		Analysis Time...: 07:13		

Andrews Engineering, Inc.

Client Sample ID: D-21

General Chemistry

Lot-Sample #...: F9F190210-007 Work Order #...: LE9NX Matrix.....: SOLID
 Date Sampled...: 06/16/09 14:25 Date Received...: 06/18/09
 % Moisture.....: 48

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	48.1	0.10	%	ASTM Moisture, %	06/25-06/26/09	9176306
		Dilution Factor: 1		Analysis Time...: 00:00		

Andrews Engineering, Inc.

Client Sample ID: D-15

TOTAL Metals

Lot-Sample #...: F9F190210-008
 Date Sampled...: 06/17/09 08:30 Date Received...: 06/18/09
 % Moisture.....: 49

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS			ANALYSIS DATE	ORDER #
Prep Batch #...	9174136						
Uranium	901	100	mg/kg	SW846 6010B	06/23-06/25/09	LE9N01AD	
		Dilution Factor: 2		Analysis Time...: 07:19			

Andrews Engineering, Inc.

Client Sample ID: D-15

General Chemistry

Lot-Sample #...: F9F190210-008 Work Order #...: LE9N0
Date Sampled...: 06/17/09 08:30 Date Received...: 06/18/09
% Moisture.....: 49

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	49.0	0.10	%	ASTM Moisture, %	06/25-06/26/09	9176306
		Dilution Factor: 1		Analysis Time...: 00:00		

Andrews Engineering, Inc.

Client Sample ID: D-15 U

TOTAL Metals

Lot-Sample #...: F9F190210-009
 Date Sampled...: 06/17/09 08:30 Date Received...: 06/18/09
 % Moisture.....: 47

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...: 9175246						
Uranium	698	50.0	mg/kg	SW846 6010B	06/24-06/25/09	LE9T81AD
		Dilution Factor: 1		Analysis Time...: 15:12		

Andrews Engineering, Inc.

Client Sample ID: D-15 U

General Chemistry

Lot-Sample #....: F9F190210-009 Work Order #....: LE9T8 Matrix.....: SOLID
 Date Sampled....: 06/17/09 08:30 Date Received...: 06/18/09
 % Moisture.....: 47

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	46.7	0.10	%	ASTM Moisture, %	06/25-06/26/09	9176306
		Dilution Factor: 1		Analysis Time...: 00:00		

Andrews Engineering, Inc.

Client Sample ID: D-26

TOTAL Metals

Lot-Sample #...: F9F190210-010
 Date Sampled...: 06/16/09 10:42 Date Received...: 06/18/09
 % Moisture.....: 46

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...: 9175246						
Uranium	258	50.0	mg/kg	SW846 6010B	06/24-06/25/09	LE9VC1AD
		Dilution Factor: 1		Analysis Time...: 15:36		

Andrews Engineering, Inc.

Client Sample ID: D-26

General Chemistry

Lot-Sample #....: F9F190210-010 Work Order #....: LE9VC Matrix.....: SOLID
 Date Sampled....: 06/16/09 10:42 Date Received...: 06/18/09
 % Moisture.....: 46

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	46.0	0.10	%	ASTM Moisture, %	06/25-06/26/09	9176306
		Dilution Factor: 1		Analysis Time...: 00:00		

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F9F190210

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
------------------	---------------	----------------------------	--------------	---------------	---------------------------------------	-------------------------

MB Lot-Sample #: F9F230000-136 Prep Batch #... : 9174136						
Uranium	ND	50.0	mg/kg	SW846 6010B	06/23-06/25/09	LFFAX1AA
Dilution Factor: 1						
Analysis Time...: 05:49						

MB Lot-Sample #: F9F240000-246 Prep Batch #... : 9175246						
Uranium	ND	50.0	mg/kg	SW846 6010B	06/24-06/25/09	LFHWA1AA
Dilution Factor: 1						
Analysis Time...: 14:59						

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F9F190210

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: F9F230000-136 Prep Batch #... : 9174136					
Uranium	106	(80 - 120)	SW846 6010B	06/23-06/25/09	LFFAX1AC
		Dilution Factor: 1		Analysis Time...: 05:55	
LCS Lot-Sample#: F9F240000-246 Prep Batch #... : 9175246					
Uranium	104	(80 - 120)	SW846 6010B	06/24-06/25/09	LFHWA1AC
		Dilution Factor: 1		Analysis Time...: 15:06	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F9F190210

Matrix.....: SOLID

Date Sampled...: 06/16/09 08:45 Date Received...: 06/18/09

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
------------------	-------------------------	------------------------	------------	-------------------	---------------	-----------------------------------	---------------------

MS Lot-Sample #: F9F190210-001 Prep Batch #...: 9174136

% Moisture.....: 50

Uranium	115	(75 - 125)			SW846 6010B	06/23-06/25/09	LE9L71AE
	18 N	(75 - 125)	21	(0-30)	SW846 6010B	06/23-06/25/09	LE9L71AF
Dilution Factor: 1							
Analysis Time...: 06:15							

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F9F190210

Matrix.....: SOLID

Date Sampled...: 06/16/09 08:45 Date Received...: 06/18/09

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	--------	---------------------	------------------	-------	------------------	-----	--------	-------------------------------	-----------------

MS Lot-Sample #: F9F190210-001 Prep Batch #...: 9174136

% Moisture.....: 50

Uranium

389	100	504	mg/kg	115			SW846 6010B	06/23-06/25/09	LE9L71AE
389	100	407 N	mg/kg	18	21		SW846 6010B	06/23-06/25/09	LE9L71AF

Dilution Factor: 1

Analysis Time...: 06:15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F9F190210

Matrix.....: SOLID

Date Sampled...: 06/17/09 08:30 Date Received...: 06/18/09

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
------------------	-------------------------	------------------------	------------	-------------------	---------------	-----------------------------------	---------------------

MS Lot-Sample #: F9F190210-009 Prep Batch #...: 9175246

% Moisture.....: 47

Uranium	255 N	(75 - 125)			SW846 6010B	06/24-06/25/09	LE9T81AE
	410 N	(75 - 125)	15	(0-30)	SW846 6010B	06/24-06/25/09	LE9T81AF

Dilution Factor: 1
Analysis Time...: 15:24

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F9F190210

Matrix.....: SOLID

Date Sampled...: 06/17/09 08:30 Date Received...: 06/18/09

<u>PARAMETER</u>	<u>AMOUNT</u>	<u>SPIKE</u>	<u>MEASRD</u>	<u>UNITS</u>	<u>PERCNT</u>	<u>RECVRY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
		<u>AMT</u>	<u>AMOUNT</u>						<u>ANALYSIS DATE</u>	<u>ORDER #</u>

MS Lot-Sample #: F9F190210-009 Prep Batch #...: 9175246

% Moisture.....: 47

Uranium

698	100	953 N	mg/kg	255		SW846	6010B	06/24-06/25/09	LE9T81AE
698	100	1110 N	mg/kg	410	15	SW846	6010B	06/24-06/25/09	LE9T81AF

Dilution Factor: 1

Analysis Time...: 15:24

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

LOT

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone 314-298-8566 fax 314-298-8566

134

Chain of Custody Record



TestAmerica Laboratories,

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 217-787-9495 FAX	Project Manager: Sean Chisek Tel/Fax: 217-622-3084	Site Contact: W. Brines Lab Contact: T. Romanko	Date: Carrier:	COC No: of COCs
Analysis Turnaround Time Calendar (C) or Work Days (W) TAT if different from Below <u>Standard</u> <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Job No.		
Site: Honeywell Metropolis Pond Sampling P O # 91-135-11		SDG No.		

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Total U	% Moisture	TCLP Metals	TCLP VOCs	TCLP SVOCs	TCLP Pest/Herb	Flashpoint	Paint Filter	pH	Reactive S & CN	Isotopes	Cation Exchange	Bulk Density	Grain Size	Chloride/Sulfide	TOC	Total Phenolics	Sample Specific Notes:	
D-14	6/16/09	8:45				XX									606A									
D-14 U Sample @ 60'	6/16/09	8:45				XX																		
D-20	6/16/09	9:20				XX																		
D-26 upper	6/16/09	10:42				XX	XX										XX	XX	XX	XX	XX			3X2506A
D-26 lower	6/16/09	10:42				XX	XX										XX	XX	XX	XX	XX			↓
D-26 U Sample @ 8.50'	6/16/09	10:42				XX									606A									
D-32	6/16/09	11:10				XX																		
D-27	6/16/09	13:50				XX																		
D-21	6/16/09	14:25				XX																		
D-15	6/17/09	8:30				XX																		
<i>see LMR of 6.19.09</i>																								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:
Please email completed COC to schisek@andrews-eng.com and tsharp@andrews-eng.com

Relinquished by: <i>[Signature]</i>	Company:	Date/Time: 6/16/09 10:30	Received by: <i>[Signature]</i>	Company:	Date/Time: 6/18/09 10:30
Relinquished by: <i>[Signature]</i>	Company:	Date/Time: 6/18/09	Received by: <i>[Signature]</i>	Company: TA	Date/Time: 6/18/09 16:14
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

01 33

TestAmerica St. Louis



Lot #(s): F9F190210
219
236
246

CONDITION UPON RECEIPT FORM

Client: Andrews Env.

Quote No: 81890, 80878, 80525

COC/RFA No: N/A

134

Initiated By: EW Date: 06-18-09 Time: 1614

Shipping Information

Shipper: FedEx UPS DHL Courier (Client) Other: _____ Multiple Packages: (Y) N
 Shipping # (s):* Sample Temperature (s):**
 1. _____ 6. _____ 1. 3 6. _____
 2. _____ 7. _____ 2. 2 7. _____
 3. _____ 8. _____ 3. 2 8. _____
 4. _____ 9. _____ 4. _____ 9. _____
 5. _____ 10. _____ 5. _____ 10. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	<u>(Y)</u> <u>(N)</u>	Are there custody seals present on the cooler?	8.	<u>(Y)</u> <u>(N)</u>	Are there custody seals present on bottles?
2.	<u>(Y)</u> <u>(N)</u> <u>(N/A)</u>	Do custody seals on cooler appear to be tampered with?	9.	<u>(Y)</u> <u>(N)</u> <u>(N/A)</u>	Do custody seals on bottles appear to be tampered with?
3.	<u>(Y)</u> <u>(N)</u>	Were contents of cooler frisked after opening, but before unpacking?	10.	<u>(Y)</u> <u>(N)</u> <u>(N/A)</u>	Was sample received with proper pH? (If not, make note below)
4.	<u>(Y)</u> <u>(N)</u>	Sample received with Chain of Custody?	11.	<u>(Y)</u> <u>(N)</u>	Sample received in proper containers?
5.	<u>(Y)</u> <u>(N)</u> <u>(N/A)</u>	Does the Chain of Custody match sample ID's on the container(s)?	12.	<u>(Y)</u> <u>(N)</u> <u>(N/A)</u>	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6.	<u>(Y)</u> <u>(N)</u>	Was sample received broken?	13.	<u>(Y)</u> <u>(N)</u> <u>(N/A)</u>	Was Internal COC/Workshare received?
7.	<u>(Y)</u> <u>(N)</u>	Is sample volume sufficient for analysis?	14.	<u>(Y)</u> <u>(N)</u> <u>(N/A)</u>	Was pH taken by original TestAmerica lab?

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes: Recvd. but not on C-O-C
D-15 U 5.50' 606 6.17 0830
D-26 ↓ 6.16 1042

Corrective Action:

- Client Contact Name: _____
- Sample(s) processed "as is"
- Sample(s) on hold until: _____
- Project Management Review: [Signature]

Informed by: _____

If released, notify: _____
 Date: 6/23/09

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.