



Illinois Environmental Protection Agency

Bureau of Land 1021 North Grand Avenue East Box 19276 Springfield, IL 62794-9276

RCRA FACILITY GROUNDWATER, LEACHATE AND GAS REPORTING FORM

This form must be used as a cover sheet for the notices and reports, identified below as required by: (1) a facility's RCRA interim status closure plan; (2) the RCRA interim status regulations; or (3) a facility's RCRA permit. All reports must be submitted to the Illinois EPA's Bureau of Land Permit Section. This form is for use by Hazardous Waste facilities only. Reporting for Solid Waste facilities should be submitted on a separate form. All reports submitted to the Illinois EPA's Bureau of Land Permit Section must contain an original, plus a minimum of two copies.

Note: This form is not to be used with permit or closure plan modification requests. The facility's approved permit or closure plan will state whether the document you are submitting is required as a report or a modification request.

Facility Name: Honeywell International Inc. Site ID #: 1278540002
Facility Address: 2768 North U.S. 45 Road Fed ID #: ILD 006 278 170

Check the appropriate heading. Only one heading may be checked for each corresponding submittal. Check the appropriate sub-heading, where applicable. Attach the original and all copies behind this form.

X LPC-160 Forms
Groundwater Leachate
X Quarterly - Indicate one: 1 2 3 4
Semi-Annual
Annual
Biennial

Groundwater Data (without LPC-160 Forms)
Quarterly - Indicate one: 1 2 3 4
Annual Semi-Annual Biennial

Well Construction Information
Well Construction Forms, Boring Logs and/or Abandonment Forms
Well Survey Data (e.g., Stick-up Elevation Data)

Notice of Statistically Significant Evidence of Groundwater Contamination (35 Ill. Adm. Code 724.198)

Notice of Exceedence of Groundwater Concentration Limit (35 Ill. Adm. Code 724.199(h))

Notice of Alternate Source or Error in Sampling Analysis or Evaluation of Groundwater (35 Ill. Adm. Code 724.199(i))

Gas Monitoring Reports

Other (identify) Report Cover -RCRA well resampling for 1st quarter of 2007

Specialty Materials
Honeywell
P.O. Box 430
Highway 45 North
Metropolis, IL 62960
618 524-2111
618 524-6239 Fax

April 11, 2007

Certified Mail:
7004 1350 0003 7046 3751

Mr. Steven Nightingale
Permit Section Manager
Illinois Environmental Protection Agency
Division of Land Pollution Control
1021 North Grand Avenue East
Springfield, IL 62794-9276

RE: Honeywell Inc.
Metropolis, Illinois
ILD 006 278 170

Dear Mr. Nightingale:

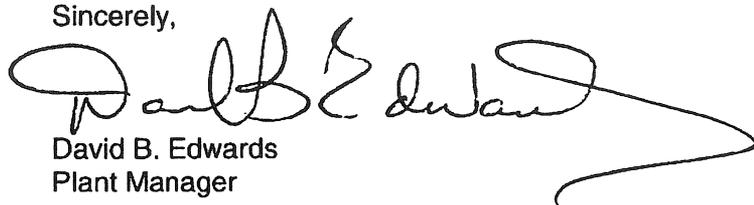
The enclosed transmittal contains Honeywell Metropolis Works' results for the Second Quarter 2006 RCRA groundwater resample event conducted on March 13th, 2007. The resample event was conducted as a result of observed increases in increases in fluorides in monitoring well G-105, Gross Alpha in monitoring well G-106, and Gross Beta in well number G-106. These monitoring results are submitted in accordance with Section III.J.10 of the Facility's RCRA Permit.

Honeywell is submitting its RCRA groundwater resample report as an electronic text file in accordance with Section III.J.8 of the Facility's RCRA permit. Enclosed is one diskette that contains two text files identified as "MTW resample 1qtr2007-file01" and "MTW resample 1qtr2007-file02". A summary table of the results from this monitoring event is enclosed as Attachment A. A statistical evaluation of the monitored results using the Average Replicate T-Test is enclosed as Attachment B. Additionally, a copy of the laboratory report is enclosed as Attachment C.

Analysis of the statistical evaluation of the date from this sample event indicated no confirmed statistical increases in any constituent for which we resampled.

If there are any questions concerning the enclosed information, please contact Mr. Darren Mays at (618) 524-6396.

Sincerely,



David B. Edwards
Plant Manager

cc: D. Mays
J. Tillson
G. Thomas

ATTACHMENT A

Honeywell - Metropolis Works
RCRA Groundwater Parameters
 Contracted Lab Results

Well Identification G-101

Date	Alpha Activity, Total (pCi/l)				Alpha Error (pCi/l)				Beta Activity, Total (pCi/l)				Beta Error (pCi/l)				Ra226 + Ra228 (pCi/l)	Ra226 + Ra228 Error (pCi/l)
03/13/2007	1.80	1.30	-1.00	1.30	1.40	1.20	1.40	1.50	0.85	1.43	0.60	1.40	0.95	0.74	1.30	1.30		

Well Identification G-105

Date	Alpha Activity, Total (pCi/l)				Alpha Error (pCi/l)				Beta Activity, Total (pCi/l)				Beta Error (pCi/l)				Ra226 + Ra228 (pCi/l)	Ra226 + Ra228 Error (pCi/l)
03/13/2007																		

Well Identification G-106

Date	Alpha Activity, Total (pCi/l)				Alpha Error (pCi/l)				Beta Activity, Total (pCi/l)				Beta Error (pCi/l)				Ra226 + Ra228 (pCi/l)	Ra226 + Ra228 Error (pCi/l)
03/13/2007	1.30	0.10	0.20	1.70	1.60	1.10	1.40	2.00	0.80	1.00	2.00	1.10	1.00	1.10	1.10	1.00		

Well Identification R-110

Date	Alpha Activity, Total (pCi/l)				Alpha Error (pCi/l)				Beta Activity, Total (pCi/l)				Beta Error (pCi/l)				Ra226 + Ra228 (pCi/l)	Ra226 + Ra228 Error (pCi/l)
03/13/2007	1.70	0.50	1.60	0.30	1.60	1.00	1.40	0.98	1.70	1.80	2.70	0.50	1.00	1.60	1.60	1.40		

Honeywell - Metropolis Works
RCRA Groundwater Parameters
 In-House Lab Results

Well Identification G-101

Date	Temp. (degrees C)	Fluoride, Dissolved (ppm)				pH (SU)				Specific Conductivity (umhos/cm)				Fluoride, Total (ppm)	Turbidity
03/13/2007	15.74					6.90	6.89	6.90	6.90	448.0	449.0	447.0	447.0		3.60

Well Identification G-105

Date	Temp. (degrees C)	Fluoride, Dissolved (ppm)				pH (SU)				Specific Conductivity (umhos/cm)				Fluoride, Total (ppm)	Turbidity
03/13/2007	15.46	0.26	0.26	0.26	0.26	6.77	6.79	6.77	6.77	389.0	389.0	390.0	390.0		1.00

Well Identification G-106

Date	Temp. (degrees C)	Fluoride, Dissolved (ppm)				pH (SU)				Specific Conductivity (umhos/cm)				Fluoride, Total (ppm)	Turbidity
03/13/2007	15.75					6.79	6.79	6.78	6.77	469.0	468.0	468.0	468.0		13.80

Well Identification R-110

Date	Temp. (degrees C)	Fluoride, Dissolved (ppm)				pH (SU)				Specific Conductivity (umhos/cm)				Fluoride, Total (ppm)	Turbidity
03/13/2007	16.40					6.30	6.29	6.30	6.30	483.0	484.0	484.0	484.0		3.40

ATTACHMENT B

Honeywell - Metropolis Works

(Statistical Evaluation - Averaged Replicate T-test)
March 13, 2007

Constituent: **Soluble Fluorides, (Mg/L)**

BACKGROUND DATA																
Well:	G-101								R-110							
	2001				2002				2001				2002			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
	0.33	0.36	0.2	0.31	0.34	0.42	0.52	0.41	0.19	0.15	0.22	0.2	0.18	0.23	0.33	0.24
	0.32	0.35	0.22	0.3	0.33	0.43	0.52	0.41	0.18	0.14	0.21	0.2	0.17	0.23	0.33	0.21
	0.31	0.35	0.23	0.3	0.32	0.41	0.48	0.41	0.18	0.14	0.21	0.2	0.16	0.21	0.32	0.22
	0.31	0.34	0.22	0.3	0.3	0.42	0.48	0.4	0.17	0.14	0.2	0.2	0.16	0.2	0.32	0.22
Avg.=	0.32	0.35	0.22	0.30	0.32	0.42	0.50	0.41	0.18	0.14	0.21	0.20	0.17	0.22	0.33	0.22
Averaged Replicate Mean:				<u>0.281</u>				Averaged Replicate Standard Deviation:				<u>0.103</u>				

SAMPLING DATA								
G-101	G-102	G-103	R-104	G-105	G-106	G-107	G-108	R-110
				0.26				
				0.26				
				0.26				
				0.26				
xm				0.259				xm
t*				-0.214				t*
tc	2.602	2.602	2.602	2.602	2.602	2.602	2.602	tc

Well Status: **OK**

Honeywell - Metropolis Works

(Statistical Evaluation - Averaged Replicate T-test)
March 13, 2007

Constituent: **Gross Alpha, (pCi/L)**

BACKGROUND DATA																
Well:	G-101								R-110							
	2001				2002				2001				2002			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
	0.00	1.60	-0.40	1.10	0.10	3.30	0.04	1.30	-0.03	0.60	0.50	1.50	1.00	3.40	2.00	0.60
	0.90	0.80	-0.40	0.30	1.00	3.60	0.90	0.90	0.30	1.80	0.50	6.50	1.90	4.80	-0.05	1.60
	1.90	1.20	0.60	1.10	-1.00	5.00	2.20	1.00	-0.40	2.10	0.50	5.10	0.80	3.90	4.90	2.70
	2.20	1.90	0.20	1.10	1.90	3.60	0.50	2.20	0.40	2.50	1.90	3.80	1.70	4.20	3.20	1.00
Avg.=	1.25	1.38	0.00	0.90	0.50	3.88	0.91	1.35	0.07	1.75	0.85	4.23	1.35	4.08	2.51	1.48
	Averaged Replicate Mean: <u>1.654</u>								Averaged Replicate Standard Deviation: <u>1.341</u>							

SAMPLING DATA								
G-101	G-102	G-103	R-104	G-105	G-106	G-107	G-108	R-110
1.80					1.30			1.70
1.30					0.10			0.50
-1.00					0.20			1.60
1.30					1.70			0.30
xm					0.825			xm
t*					-0.600			t*
tc	2.602	2.602	2.602	2.602	2.602	2.602	2.602	tc

Well Status:

OK

Honeywell - Metropolis Works

(Statistical Evaluation - Averaged Replicate T-test)
March 13, 2007

Constituent: **Gross Beta, (pCi/L)**

BACKGROUND DATA																
Well:	G-101								R-110							
	2001				2002				2001				2002			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
	0.4	1.5	0.6	2.3	2.9	4.3	2.6	1.0	1.5	2.1	3.3	4.9	0.6	4	3	1.3
	3.0	1.9	0.5	2.0	2.3	1.8	1.2	2.5	3.4	2.6	0.2	3.8	1.6	3.1	3.5	1.3
	-1.5	1.6	1.1	1.1	1.7	3.5	3.4	1.6	0.2	3.9	0.6	2.5	2.1	4.5	4.6	2.5
	3.7	1.2	1.3	2.5	1.5	2.7	2.7	3.4	1.3	2.8	-0.9	3.3	0.7	3	5.2	1.5
Avg.=	1.4	1.6	0.9	2.0	2.1	3.1	2.5	2.1	1.6	2.9	0.8	3.6	1.3	3.7	4.1	1.7
Averaged Replicate Mean:								Averaged Replicate Standard Deviation:								
<u>2.192</u>								<u>1.011</u>								

SAMPLING DATA								
G-101	G-102	G-103	R-104	G-105	G-106	G-107	G-108	R-110
0.85					0.80			1.70
1.43					1.00			1.80
0.60					2.00			2.70
1.40					1.10			0.50
xm					1.225			xm
t*					-0.928			t*
tc	2.602	2.602	2.602	2.602	2.602	2.602	2.602	tc

Well Status:

OK

ATTACHMENT C



STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel: 314 298 8566 Fax: 314 298 8757
www.stl-inc.com

ANALYTICAL REPORT

RCRA Groundwater

Lot #: F7C160235

John Tillson

Honeywell
Route 45 North
Metropolis, IL 62960

*RE-SAMPLE
DATA
Entered 4-3-07
MAB*

SEVERN TRENT LABORATORIES, INC.

Terry Romanko
Project Manager

March 30, 2007

Leaders in Environmental Testing

Severn Trent Laboratories, Inc.

Case Narrative
LOT NUMBER: F7C160235

This report contains the analytical results for the 12 samples received under chain of custody by STL St. Louis on March 16, 2007. These samples are associated with your RCRA Groundwater 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 STL 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.

Observations/Nonconformances

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

Gross Alpha/Beta by GFPC

In the initial analysis, the Gross Alpha LCS analyte recovery is outside the lower QC limit, indicating a potential negative bias for the analyte. The samples were reprepared and reanalyzed yielding acceptable results. The reanalysis results are reported.

Affected Samples:

F7C160235 (1): G-101	F7C160235 (7): G-106
F7C160235 (2): G-101	F7C160235 (8): G-106
F7C160235 (3): G-101	F7C160235 (9): G-110
F7C160235 (4): G-101	F7C160235 (10): G-110
F7C160235 (5): G-106	F7C160235 (11): G-110
F7C160235 (6): G-106	F7C160235 (12): G-110

The reporting limit for gross alpha was not met due to a reduction of sample size attributed to the sample's high residual mass. The analytical results are reported with the MDC achieved.

Affected Samples:

F7C160235 (3): G-101	F7C160235 (8): G-106
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METHODS SUMMARY

F7C160235

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Gross Alpha/Beta EPA 900	EPA 900.0 MOD	EPA 900.0

References:

EPA "EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984

SAMPLE SUMMARY

F7C160235

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
JQ7R6	001	G-101	03/13/07	14:10
JQ7TR	002	G-101	03/13/07	14:10
JQ7TV	003	G-101	03/13/07	14:10
JQ7TW	004	G-101	03/13/07	14:10
JQ7T1	005	G-106	03/13/07	13:45
JQ7T3	006	G-106	03/13/07	13:45
JQ7T5	007	G-106	03/13/07	13:45
JQ7T8	008	G-106	03/13/07	13:45
JQ7T9	009	G-110	03/13/07	12:35
JQ7VC	010	G-110	03/13/07	12:35
JQ7VE	011	G-110	03/13/07	12:35
JQ7VG	012	G-110	03/13/07	12:35

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.

Honeywell International Inc

Client Sample ID: G-101

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7C160235-001
 Work Order: JO7R6
 Matrix: WATER

Date Collected: 03/13/07 1410
 Date Received: 03/16/07 0830

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L		Batch # 7086108	Yld %
Gross Alpha	1.8	U	1.4	3.0	2.3	03/27/07	03/30/07
Gross Beta	0.85	U	0.95	4.00	2.0	03/27/07	03/30/07

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

Honeywell International Inc

Client Sample ID: G-101 DUP

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7C160235-001X
 Work Order: JO7R6
 Matrix: WATER

Date Collected: 03/13/07 1410
 Date Received: 03/16/07 0830

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L	Batch # 7086108		Yld %
Gross Alpha	1.5	U	1.4	3.0	2.5	03/27/07	03/30/07
Gross Beta	1.71	J	0.87	4.00	1.6	03/27/07	03/30/07

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

Honeywell International Inc

Client Sample ID: G-101

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7C160235-002
 Work Order: JO7TR
 Matrix: WATER

Date Collected: 03/13/07 1410
 Date Received: 03/16/07 0830

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L		Batch # 7086108	Yld %
Gross Alpha	1.3	U	1.2	3.0	2.1	03/27/07	03/30/07
Gross Beta	1.43	J	0.74	4.00	1.3	03/27/07	03/30/07

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

Honeywell International Inc

Client Sample ID: G-101

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7C160235-003
 Work Order: JO7TV
 Matrix: WATER

Date Collected: 03/13/07 1410
 Date Received: 03/16/07 0830

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L		Batch # 7086108	Yld %
Gross Alpha	-1.0	U	1.4	3.0	3.9	03/27/07	03/30/07
Gross Beta	0.6	U	1.3	4.0	2.7	03/27/07	03/30/07

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

Honeywell International Inc

Client Sample ID: G-101

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7C160235-004
Work Order: JO7TW
Matrix: WATER

Date Collected: 03/13/07 1410
Date Received: 03/16/07 0830

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L		Batch # 7086108	Yld %
Gross Alpha	1.3	U	1.5	3.0	2.9	03/27/07	03/30/07
Gross Beta	1.4	U	1.3	4.0	2.5	03/27/07	03/30/07

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

Honeywell International Inc

Client Sample ID: G-106

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7C160235-005
 Work Order: JO7T1
 Matrix: WATER

Date Collected: 03/13/07 1345
 Date Received: 03/16/07 0830

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L		Batch # 7086108	Yld %
Gross Alpha	1.3	U	1.6	3.0	3.1	03/27/07	03/30/07
Gross Beta	0.8	U	1.0	4.0	2.1	03/27/07	03/30/07

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

Honeywell International Inc

Client Sample ID: G-106

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7C160235-006
 Work Order: J07T3
 Matrix: WATER

Date Collected: 03/13/07 1345
 Date Received: 03/16/07 0830

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L		Batch # 7086108	Yld %
Gross Alpha	0.1	U	1.1	3.0	2.7	03/27/07	03/30/07
Gross Beta	1	U	1.1	4.0	2.3	03/27/07	03/30/07

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

Honeywell International Inc

Client Sample ID: G-106

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7C160235-007
Work Order: JO7T5
Matrix: WATER

Date Collected: 03/13/07 1345
Date Received: 03/16/07 0830

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L	Batch # 7086108		Yld %
Gross Alpha	0.2	U	1.4	3.0	3.4	03/27/07	03/30/07
Gross Beta	2.0	U	1.1	4.0	2.1	03/27/07	03/30/07

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

Honeywell International Inc

Client Sample ID: G-106

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7C160235-008
 Work Order: JO7T8
 Matrix: WATER

Date Collected: 03/13/07 1345
 Date Received: 03/16/07 0830

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L		Batch # 7086108	Yld %
Gross Alpha	1.7	U	2.0	3.0	4.1	03/27/07	03/30/07
Gross Beta	1.1	U	1.0	4.0	2.1	03/27/07	03/30/07

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

Honeywell International Inc

Client Sample ID: G-110

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7C160235-009
 Work Order: JO7T9
 Matrix: WATER

Date Collected: 03/13/07 1235
 Date Received: 03/16/07 0830

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L		Batch # 7086108	Yld %
Gross Alpha	1.7	U	1.6	3.0	2.8	03/27/07	03/30/07
Gross Beta	1.7	U	1.0	4.0	1.9	03/27/07	03/30/07

NOTE(S)

- Data are incomplete without the case narrative.
- MDC is determined by instrument performance only.
- Bold results are greater than the MDC
- U Result is less than the sample detection limit.

Honeywell International Inc

Client Sample ID: G-110

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7C160235-010
 Work Order: JO7VC
 Matrix: WATER

Date Collected: 03/13/07 1235
 Date Received: 03/16/07 0830

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L		Batch # 7086108	Yld %
Gross Alpha	0.5	U	1.0	3.0	2.2	03/27/07	03/30/07
Gross Beta	1.8	U	1.6	4.0	3.2	03/27/07	03/30/07

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

Honeywell International Inc

Client Sample ID: G-110

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7C160235-011
 Work Order: JO7VE
 Matrix: WATER

Date Collected: 03/13/07 1235
 Date Received: 03/16/07 0830

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L		Batch # 7086108	Yld %
Gross Alpha	1.6	U	1.4	3.0	2.4	03/27/07	03/30/07
Gross Beta	2.7	U	1.6	4.0	3.2	03/27/07	03/30/07

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

Honeywell International Inc

Client Sample ID: G-110

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7C160235-012
 Work Order: JO7VG
 Matrix: WATER

Date Collected: 03/13/07 1235
 Date Received: 03/16/07 0830

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L		Batch # 7086108	Yld %
Gross Alpha	0.30	U	0.98	3.00	2.3	03/27/07	03/30/07
Gross Beta	0.5	U	1.4	4.0	3.1	03/27/07	03/30/07

NOTE(S)

Data are incomplete without the case narrative.
 MDC is determined by instrument performance only.
 Bold results are greater than the MDC
 U Result is less than the sample detection limit.

METHOD BLANK REPORT

Severn Trent Laboratories - Radiochemistry

Client Lot ID: F7C160235

Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Yld %	Prep Date	Lab Sample ID Analysis Date
Gross Alpha/Beta EPA 900			pCi/L	Batch #	7086108	Yld %		F7C270000-108B
Gross Alpha	-0.04	U	0.30	3.00	0.82		03/27/07	03/30/07
Gross Beta	0.78	U	0.86	4.00	1.8		03/27/07	03/30/07

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only

Bold results are greater than the MDC

U Result is less than the sample detection limit.

Laboratory Control Sample Report

Severn Trent Laboratories - Radiochemistry

Client Lot ID: F7C160235-
 Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ +/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			F7C270000-108C
Gross Beta	91.2	76.2	8.2	1.9		84	(69 - 117)
	Batch #:	7086108		Analysis Date:	03/30/07		
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			F7C270000-108C
Gross Alpha	51.4	47.2	5.9	1.1		92	(78 - 139)
	Batch #:	7086108		Analysis Date:	03/30/07		

NOTE(S)

MDC is determined by instrument performance only
 Calculations are performed before rounding to avoid round-off error in calculated results

MATRIX SPIKE REPORT

Severn Trent Laboratories - Radiochemistry

Client Lot Id: F7C160235 -
 Matrix: WATER

Date Sampled: 03/13/07
 Date Received: 03/16/07

Parameter	Spike Amount	Spike Result	Total Uncert. (2σ +/-)	Spike Yld.	Sample Result	Total Uncert. (2σ +/-)	QC Sample ID		QC Control Limits
							%YLD	%REC	
Gross Alpha/Beta EPA 900			pCi/L		900.0 MOD		F7C160235-001		
Gross Alpha	65.0	84	11		1.8	1.4		126	(55 - 135)
	Batch #:	7086108		Analysis Date:	03/30/07				
Gross Alpha/Beta EPA 900			pCi/L		900.0 MOD		F7C160235-001		
Gross Beta	115	116	12		0.85	0.95		100	(72 - 140)
	Batch #:	7086108		Analysis Date:	03/30/07				

NOTE(S)

Data are incomplete without the case narrative.

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

DUPLICATE EVALUATION REPORT

Severn Trent Laboratories - Radiochemistry

Client Lot ID: F7C160235
 Matrix: WATER

Date Sampled: 03/13/07
 Date Received: 03/16/07

Parameter	SAMPLE Result	Total Uncert. (2σ +/-)	% Yld	DUPLICATE		Total Uncert. (2σ +/-)	% Yld	QC Sample ID	
				Result				Precision	
Gross Alpha/Beta EPA 900			pCi/L	900.0	MOD			F7C160235-001	
Gross Alpha	1.8 U	1.4		1.5	U	1.4		19	%RPD
Gross Beta	0.85 U	0.95		1.71	J	0.87		67	%RPD
	Batch #:	7086108 (Sample)		7086108 (Duplicate)					

NOTE(S)

Data are incomplete without the case narrative.
 Calculations are performed before rounding to avoid round-off error in calculated results.

J Result is greater than sample detection limit but less than stated reporting limit.
 U Result is less than the sample detection limit.

Chain of Custody Record



STL-4124 (0801)

Client: Honeywell
 Address: 15 HWY 45N
 City: Metropolitan
 State: IL Zip Code: 62960
 Project Name and Location (Site): 1st QTR RERA Re-sample
 Contract/Purchase Order/Quote No.: REG#

Project Manager: J. T. Wilson
 Telephone Number (Area Code)/Fax Number: 3-15-07

Chain of Custody Number: 319406
 Page 1 of 1

Sample ID, No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives				Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Aqueous	Sol	Sol	Agitate	Ultraclean	12504	HNO3	HCl			NH4OH
G-101	3-13-07	1410	X										NO 3-16-07 4 BX 500 P ↓
G-106	3-13-07	1235	X										
R-110	3-13-07	1235	X										

Possible Hazard Identification:
 Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown
 Disposed By Lab
 Archive For
 Months
 (A fee may be assessed if samples are retained longer than 1 month)

Sample Disposal:
 Return To Client
 CC Requirements (Specify)

1. Retrieved By: M. L. B. S. Date: 3-15-07 Time: 1600
 2. Retrieved By: Angela Burman Date: 3-16-07 Time: 8:30
 3. Retrieved By: _____ Date: _____ Time: _____

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

