



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

April 11, 2011

Mr. Jesus Serrano
3006 Longley Avenue
South Bend, IN 46628

Re: Indoor Air/Sub-Slab Sampling Results
Honeywell International, Inc.
717 N. Bendix Dr./3520 Westmoor St.
South Bend, Indiana
VRP #6980601

Dear Mr. Serrano:

Thank you for your participation in the indoor air and sub-slab sampling program conducted in February by Honeywell as part of their ongoing efforts in the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program. We realize the time requirement on your behalf. We're grateful for your participation and accommodation to Honeywell and their representatives, as this made the first phase of the sampling program a seamless one.

The purpose of this sampling program is to assess any potential vapor migration from contaminated groundwater related to historical chemical releases at the plant located at 717 North Bendix Drive and 3520 Westmoor Street. Your participation in this assessment has allowed Honeywell's engineering consultant, MACTEC Engineering and Consulting, Inc., to collect samples from the indoor air and from below the basement floor (sub-slab) in your home.

Based on a review of the sub-slab sample results, one or more compounds were detected in the sample collected from beneath your home. However, the level at which the compounds were detected is below IDEM's appropriate health-protective criteria, so further action is not necessary at this time. That is, the detected concentrations from these sub-slab samples do not represent a health or exposure risk.

Additionally, analysis of the indoor air samples collected from your basement and first floor also detected low levels of certain compounds in the indoor air, although only benzene was detected above an IDEM screening criteria (please see the attached Table 1-1). It is important to note that based on the results of the sub-slab sample analysis, and the fact that low level vapor concentrations of certain compounds are commonly detected in residential indoor air samples, the compounds detected in the indoor air samples are not thought to be from a subsurface source but more likely from indoor or ambient air contributions. We have attached an informational sheet describing each of the compounds tested and the potential sources of these compounds. While the

concentrations measured in the indoor air samples do not represent an immediate or acute health concern, IDEM recommends the removal of any solvent-based chemicals or products from the living space as an additional precautionary measure.

As an additional health-protective measure, and to confirm the results from this sampling event, an additional sampling event is tentatively scheduled for late July 2011, provided your continued agreement to provide access. We will contact you well in advance to establish an acceptable date and time for sampling.

If you have any questions or would like to discuss your results in further detail, please do not hesitate to contact me, Loan Pham, at (317) 234-0971 or by email at lpham@idem.in.gov.

Again, thank you for your time and participation in this effort.

Sincerely,



Loan Pham, Project Manager
Voluntary Remediation Program
Office of Land Quality

cc: Chuck Gadelmann, Honeywell International, Inc.
Eric Kloss, Honeywell International, Inc.
Steven Murray, MACTEC Engineering and Consulting, Inc.

Table 1-1
Home 1 Residential Indoor Ambient Air and Sub-Slab Soil Vapor Comparison Table
Honeywell - South Bend

Compound	RIAALS 30 Year Exposure Duration	Sub-Slab 30 Year Exposure Duration	Sample ID	Home 1		Home 1 Sub-Slab	BG-1-0211	BG-2-0211
				Basement	Primary			
	Sample Date	Sample Date	Sample Date	2/2/2011	2/2/2011	2/2/2011	2/2/2011	2/2/2011
	Analyzed Date	Analyzed Date	Analyzed Date	2/11/2011	2/11/2011	2/11/2011	2/11/2011	2/11/2011
Benzene	0.78	7.8	ppbv	1.9	2.1	0.60	0.19	0.17
sec-Butylbenzene	NC	NC	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
Chloroethane	8.8	88*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethane	130	1300*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
cis-1,2-Dichloroethene	9.2	92*	ppbv	0.093	0.10	<0.080	<0.080	<0.080
trans-1,2-Dichloroethene	18	180*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethane	52	520*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,2-Dichloropropane	0.21	2.1*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
Isopropylbenzene	82	820*	ppbv	<0.16	<0.16	0.16	<0.16	<0.16
n-Propylbenzene	30	300*	ppbv	<0.16	<0.16	0.26	<0.16	<0.16
Tetrachloroethene	0.47	4.7	ppbv	<0.080	<0.080	0.46	<0.080	<0.080
1,1,1-Trichloroethane	420	4200*	ppbv	<0.080	<0.080	0.13	<0.080	<0.080
Trichloroethene	0.23	2.3	ppbv	0.067	0.078	0.13	<0.040	<0.040
Vinyl chloride	0.85	8.5	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
tert-Butylbenzene	NC	NC	ppbv	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	0.18	1.8	ppbv	0.084	0.11	<0.080	<0.080	<0.080

Notes:

RIAALS = Residential Indoor Air Action Level

NC = No criteria given by the Indiana Department of Environmental Management

ppbv = Part Per Billion by Volume

* = Sub-Slab 30 year Exposure Duration screening levels determined by increasing RIAALS by factor of 10

Bold = Exceeds RIAALS 30 year Exposure Duration if a basement or primary living space sample or exceeds Sub-Slab 30 year Exposure Duration if a sub-slab sample.

Sample Key:

B = Basement Ambient Air Sample

P = Primary Living Space Ambient Air Sample

SS = Sub-slab soil vapor sample

BG = Background Sample

The Indiana Department of Environmental Management (IDEM) has developed screening criteria and indoor air action levels for numerous specific chemicals. These criteria are based on longer term exposures (i.e., 1-year, 5-year, 10 year, 20-year, and 30-year). When a specific chemical is observed in an indoor air sample above a screening criterion, further evaluation is typically conducted. This evaluation involves understanding the potential sources of the detection. Although detections may potentially be related to environmental contamination, in many cases these low level concentrations are related to other sources from within the house or outside.

Below is a table listing the compounds that were tested for during this sampling event and residential potential uses and/or sources.

Compound	Uses/Sources
Benzene	<ul style="list-style-type: none"> • Automobile exhaust • Cigarette smoke • Gasoline/fuels • Paints • Wood furniture finishes and waxes • Glues and adhesive/glue removers • Automotive engine cleaners
Chloroethane	<ul style="list-style-type: none"> • Refrigerant • Out gassing from cellulose, dyes, medicinal drugs (including topical anesthetics) • Solvent, Breakdown compound of PCE and TCE
cis- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
trans- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
Isopropyl benzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
N- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Sec- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tert-propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tetrachloroethene (PCE)	<ul style="list-style-type: none"> • Dry cleaning solvent • Degreasing solvent/auto parts cleaners • Adhesives and lubricants
Trichloroethene (TCE)	<ul style="list-style-type: none"> • Degreasing solvent/auto parts cleaners • Adhesives • Paint remover/Spot remover • Nail Polish and polish remover
Vinyl chloride	<ul style="list-style-type: none"> • Breakdown compound of TCE • Pipe sealant paste
1,1,1- trichloroethane (1,1,1-TCA)	<ul style="list-style-type: none"> • Degreasing solvent

1,1- dichloroethane	<ul style="list-style-type: none"> • Solvent for plastics, oils and fats • Degreasing solvent • Insecticide sprays • Halon fire extinguishers • Breakdown compound of 1,1,1- TCA
1,1- dichloroethene	<ul style="list-style-type: none"> • Out gassing from plastics • Breakdown compound of 1,1,1- TCA and TCE
1,2- dichloroethane	<ul style="list-style-type: none"> • Degreaser • Paint remover • Out gassing from molded plastic consumer products (PVC)
1,2- dichloropropane	<ul style="list-style-type: none"> • Insecticides • Varnishes • Paint remover/thinners

Sources:

U.S. Health and Human Services – Household Products Database;

<http://householdproducts.nlm.nih.gov/index.htm>

Agency for Toxic Substances and Disease Registry;

<http://www.atsdr.cdc.gov/>



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April 11, 2011

Ms. Ella Riffel
719 Goodland Avenue
South Bend, IN 46628

Re: Indoor Air/Sub-Slab Sampling Results
Honeywell International, Inc.
717 N. Bendix Dr./3520 Westmoor St.
South Bend, Indiana
VRP #6980601

Dear Ms. Riffel:

Thank you for your participation in the indoor air and sub-slab sampling program conducted in February by Honeywell as part of their ongoing efforts in the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program. We realize the time requirement on your behalf. We're grateful for your participation and accommodation to Honeywell and their representatives, as this made the first phase of the sampling program a seamless one.

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Based on a review of the sub-slab sample results, one or more compounds were detected in the sample collected from beneath your home. However, the level at which the compounds were detected is below IDEM's appropriate health-protective criteria, so further action is not necessary at this time. That is, the detected concentrations from these sub-slab samples do not represent a health or exposure risk.

Additionally, analysis of the indoor air samples collected from your basement and first floor also detected low levels of certain compounds in the indoor air, although only 1,2-dichloroethane was detected above an IDEM screening criteria (please see the attached Table 1-2). It is important to note that based on the results of the sub-slab sample analysis, and the fact that low level vapor concentrations of certain compounds are commonly detected in residential indoor air samples, the compounds detected in the indoor air samples are not thought to be from a subsurface source but more likely from indoor or ambient air contributions. We have attached an informational sheet describing each of the compounds tested and the potential sources of these compounds. While the

concentrations measured in the indoor air samples do not represent an immediate or acute health concern, IDEM recommends the removal of any solvent-based chemicals or products from the living space as an additional precautionary measure.

As an additional health-protective measure, and to confirm the results from this sampling event, an additional sampling event is tentatively scheduled for late July 2011, provided your continued agreement to provide access. We will contact you well in advance to establish an acceptable date and time for sampling.

If you have any questions or would like to discuss your results in further detail, please do not hesitate to contact me, Loan Pham, at (317) 234-0971 or by email at lpham@idem.in.gov.

Again, thank you for your time and participation in this effort.

Sincerely,



Loan Pham, Project Manager
Voluntary Remediation Program
Office of Land Quality

cc: Chuck Gadelmann, Honeywell International, Inc.
Eric Kloss, Honeywell International, Inc.
Steven Murray, MACTEC Engineering and Consulting, Inc.

Table 1-2
Home 2 Residential Indoor Ambient Air and Sub-Slab Soil Vapor Comparison Table
Honeywell - South Bend

Compound	RIAAAs 30 Year Exposure Duration	Sub-Slab 30 Year Exposure Duration	Sample ID Sample Date Analyzed Date	Home 2 Basement 2/2/2011 2/11/2011	Home 2 Primary 2/2/2011 2/11/2011	Home 2 Sub-Slab 2/2/2011 2/11/2011	BG-1-0211 2/2/2011 2/11/2011	BG-2-0211 2/2/2011 2/11/2011
Benzene	0.78	7.8	ppbv	0.20	0.20	0.30	0.19	0.17
sec-Butylbenzene	NC	NC	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
Chloroethane	8.8	88*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethane	130	1300*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
cis-1,2-Dichloroethene	9.2	92*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
trans-1,2-Dichloroethene	18	180*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethene	52	520*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,2-Dichloropropane	0.21	2.1*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
Isopropylbenzene	82	820*	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
n-Propylbenzene	30	300*	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
Tetrachloroethene	0.47	4.7	ppbv	<0.080	<0.080	0.39	<0.080	<0.080
1,1,1-Trichloroethane	420	4200*	ppbv	<0.080	<0.080	0.25	<0.080	<0.080
Trichloroethene	0.23	2.3	ppbv	<0.040	<0.040	0.36	<0.040	<0.040
Vinyl chloride	0.85	8.5	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
tert-Butylbenzene	NC	NC	ppbv	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	0.18	1.8	ppbv	<0.080	0.20	<0.080	<0.080	<0.080

Notes:

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ppbv = Part Per Billion by Volume

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Sample Key:

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Chloroethane	<ul style="list-style-type: none"> • Refrigerant • Out gassing from cellulose, dyes, medicinal drugs (including topical anesthetics) • Solvent, Breakdown compound of PCE and TCE
cis- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
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Isopropyl benzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
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Sec- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
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Vinyl chloride	<ul style="list-style-type: none"> • Breakdown compound of TCE • Pipe sealant paste
1,1,1- trichloroethane (1,1,1-TCA)	<ul style="list-style-type: none"> • Degreasing solvent

1,1- dichloroethane	<ul style="list-style-type: none"> • Solvent for plastics, oils and fats • Degreasing solvent • Insecticide sprays • Halon fire extinguishers • Breakdown compound of 1,1,1- TCA
1,1- dichloroethene	<ul style="list-style-type: none"> • Out gassing from plastics • Breakdown compound of 1,1,1- TCA and TCE
1,2- dichloroethane	<ul style="list-style-type: none"> • Degreaser • Paint remover • Out gassing from molded plastic consumer products (PVC)
1,2- dichloropropane	<ul style="list-style-type: none"> • Insecticides • Varnishes • Paint remover/thinners

Sources:

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April 11, 2011

Mr. Michael Roseman
3010 Roger Street
South Bend, IN 46628

Re: Indoor Air/Sub-Slab Sampling Results
Honeywell International, Inc.
717 N. Bendix Dr./3520 Westmoor St.
South Bend, Indiana
VRP #6980601

Dear Mr. Roseman:

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Additionally, analysis of the indoor air samples collected from your basement and first floor also detected low levels of benzene in the indoor air, although the concentration was not detected above an IDEM screening criteria (please see the attached Table 1-3). It is important to note that based on the results of the sub-slab sample analysis, and the fact that low level vapor concentrations of certain compounds are commonly detected in residential indoor air samples, benzene detected in the indoor air samples is not thought to be from a subsurface source but more likely from indoor or ambient air contributions. We have attached an informational sheet describing each of the compounds tested and the potential sources of these compounds. While the

concentrations measured in the indoor air samples do not represent an immediate or acute health concern, IDEM recommends the removal of any solvent-based chemicals or products from the living space as an additional precautionary measure.

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Loan Pham, Project Manager
Voluntary Remediation Program
Office of Land Quality

cc: Chuck Geadelmann, Honeywell International, Inc.
Eric Kloss, Honeywell International, Inc.
Steven Murray, MACTEC Engineering and Consulting, Inc.

Table 1-3
Home 3 Residential Indoor Ambient Air and Sub-Slab Soil Vapor Comparison Table
Honeywell - South Bend

Compound	RIAAALS 30 Year Exposure Duration	Sub-Slab 30 Year Exposure Duration	Sample ID Sample Date Analyzed Date	Home 3 Basement 2/2/2011 2/11/2011	Home 3 Primary 2/2/2011 2/11/2011	Home 3 Sub-Slab 2/2/2011 2/11/2011	BG-1-0211 2/2/2011 2/11/2011	BG-2-0211 2/2/2011 2/11/2011
Benzene	0.78	7.8	ppbv	0.31	0.30	0.30	0.19	0.17
sec-Butylbenzene	NC	NC	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
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trans-1,2-Dichloroethene	18	180*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
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tert-Butylbenzene	NC	NC	ppbv	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	0.18	1.8	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080

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* = Sub-Slab 30 year Exposure Duration screening levels determined by increasing RIAALS by factor of 10

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1,1- dichloroethane	<ul style="list-style-type: none"> • Solvent for plastics, oils and fats • Degreasing solvent • Insecticide sprays • Halon fire extinguishers • Breakdown compound of 1,1,1- TCA
1,1- dichloroethene	<ul style="list-style-type: none"> • Out gassing from plastics • Breakdown compound of 1,1,1- TCA and TCE
1,2- dichloroethane	<ul style="list-style-type: none"> • Degreaser • Paint remover • Out gassing from molded plastic consumer products (PVC)
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Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

April 11, 2011

Ms. Lois Veen
3018 Longley Avenue
South Bend, IN 46628

Re: Indoor Air/Sub-Slab Sampling Results
Honeywell International, Inc.
717 N. Bendix Dr./3520 Westmoor St.
South Bend, Indiana
VRP #6980601

Dear Ms. Veen:

Thank you for your participation in the indoor air and sub-slab sampling program conducted in February by Honeywell as part of their ongoing efforts in the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program. We realize the time requirement on your behalf. We're grateful for your participation and accommodation to Honeywell and their representatives, as this made the first phase of the sampling program a seamless one.

The purpose of this sampling program is to assess any potential vapor migration from contaminated groundwater related to historical chemical releases at the plant located at 717 North Bendix Drive and 3520 Westmoor Street. Your participation in this assessment has allowed Honeywell's engineering consultant, MACTEC Engineering and Consulting, Inc., to collect samples from the indoor air and from below the basement floor (sub-slab) in your home.

Based on a review of the sub-slab sample results, one or more compounds were detected in the sample collected from beneath your home. However, the level at which the compounds were detected is below IDEM's appropriate health-protective criteria, so further action is not necessary at this time. That is, the detected concentrations from these sub-slab samples do not represent a health or exposure risk.

Additionally, analysis of the indoor air samples collected from your basement and first floor also detected low levels of certain compounds in the indoor air, although none were detected above an IDEM screening criteria (please see the attached Table 1-4). It is important to note that based on the results of the sub-slab sample analysis, and the fact that low level vapor concentrations of certain compounds are commonly detected in residential indoor air samples, the compounds detected in the indoor air samples are not thought to be from a subsurface source but more likely from indoor or ambient air contributions. We have attached an informational sheet describing each of the compounds tested and the potential sources of these compounds. While the

concentrations measured in the indoor air samples do not represent an immediate or acute health concern, IDEM recommends the removal of any solvent-based chemicals or products from the living space as an additional precautionary measure.

As an additional health-protective measure, and to confirm the results from this sampling event, an additional sampling event is tentatively scheduled for late July 2011, provided your continued agreement to provide access. We will contact you well in advance to establish an acceptable date and time for sampling.

If you have any questions or would like to discuss your results in further detail, please do not hesitate to contact me, Loan Pham, at (317) 234-0971 or by email at lpham@idem.in.gov.

Again, thank you for your time and participation in this effort.

Sincerely,



Loan Pham, Project Manager
Voluntary Remediation Program
Office of Land Quality

cc: Chuck Gadelmann, Honeywell International, Inc.
Eric Kloss, Honeywell International, Inc.
Steven Murray, MACTEC Engineering and Consulting, Inc.

Table 1-4
Home 4 Residential Indoor Ambient Air and Sub-Slab Soil Vapor Comparison Table
Honeywell - South Bend

Compound	RIAAAs 30 Year Exposure Duration	Sub-Slab 30 Year Exposure Duration	Sample ID Sample Date Analyzed Date	Home 4 Basement 2/3/2011 2/11/2011	Home 4 Primary 2/3/2011 2/11/2011	Home 4 Sub-Slab 2/3/2011 2/11/2011	BG-3-0211 2/3/2011 2/11/2011	BG-4-0211 2/3/2011 2/11/2011
Benzene	0.78	7.8	ppbv	0.41	0.36	0.57	0.25	0.28
sec-Butylbenzene	NC	NC	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
Chloroethane	8.8	88*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethane	130	1300*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
cis-1,2-Dichloroethene	9.2	92*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
trans-1,2-Dichloroethene	18	180*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethene	52	520*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,2-Dichloropropane	0.21	2.1*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
Isopropylbenzene	82	820*	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
n-Propylbenzene	30	300*	ppbv	<0.16	<0.16	0.17	<0.16	<0.16
Tetrachloroethene	0.47	4.7	ppbv	<0.080	<0.080	0.36	0.058	0.17
1,1,1-Trichloroethane	420	4200*	ppbv	<0.080	0.11	<0.080	<0.080	<0.080
Trichloroethene	0.23	2.3	ppbv	<0.040	0.081	0.065	<0.040	<0.040
Vinyl chloride	0.85	8.5	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
tert-Butylbenzene	NC	NC	ppbv	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	0.18	1.8	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080

Notes:

RIAAAs = Residential Indoor Air Action Level

NC = No criteria given by the Indiana Department of Environmental Management

ppbv = Part Per Billion by Volume

* = Sub-Slab 30 year Exposure Duration screening levels determined by increasing RIAAAs by factor of 10

Bold = Exceeds RIAAAs 30 year Exposure Duration if a basement or primary living space sample or exceeds Sub-Slab 30 year Exposure Duration if a sub-slab sample.

Sample Key:

B = Basement Ambient Air Sample

P = Primary Living Space Ambient Air Sample

SS = Sub-slab soil vapor sample

BG = Background Sample

The Indiana Department of Environmental Management (IDEM) has developed screening criteria and indoor air action levels for numerous specific chemicals. These criteria are based on longer term exposures (i.e., 1-year, 5-year, 10 year, 20-year, and 30-year). When a specific chemical is observed in an indoor air sample above a screening criterion, further evaluation is typically conducted. This evaluation involves understanding the potential sources of the detection. Although detections may potentially be related to environmental contamination, in many cases these low level concentrations are related to other sources from within the house or outside.

Below is a table listing the compounds that were tested for during this sampling event and residential potential uses and/or sources.

Compound	Uses/Sources
Benzene	<ul style="list-style-type: none"> • Automobile exhaust • Cigarette smoke • Gasoline/fuels • Paints • Wood furniture finishes and waxes • Glues and adhesive/glue removers • Automotive engine cleaners
Chloroethane	<ul style="list-style-type: none"> • Refrigerant • Out gassing from cellulose, dyes, medicinal drugs (including topical anesthetics) • Solvent, Breakdown compound of PCE and TCE
cis- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
trans- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
Isopropyl benzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
N- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Sec- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tert-propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tetrachloroethene (PCE)	<ul style="list-style-type: none"> • Dry cleaning solvent • Degreasing solvent/auto parts cleaners • Adhesives and lubricants
Trichloroethene (TCE)	<ul style="list-style-type: none"> • Degreasing solvent/auto parts cleaners • Adhesives • Paint remover/Spot remover • Nail Polish and polish remover
Vinyl chloride	<ul style="list-style-type: none"> • Breakdown compound of TCE • Pipe sealant paste
1,1,1- trichloroethane (1,1,1-TCA)	<ul style="list-style-type: none"> • Degreasing solvent

1,1- dichloroethane	<ul style="list-style-type: none"> • Solvent for plastics, oils and fats • Degreasing solvent • Insecticide sprays • Halon fire extinguishers • Breakdown compound of 1,1,1- TCA
1,1- dichloroethene	<ul style="list-style-type: none"> • Out gassing from plastics • Breakdown compound of 1,1,1- TCA and TCE
1,2- dichloroethane	<ul style="list-style-type: none"> • Degreaser • Paint remover • Out gassing from molded plastic consumer products (PVC)
1,2- dichloropropane	<ul style="list-style-type: none"> • Insecticides • Varnishes • Paint remover/thinners

Sources:

U.S. Health and Human Services – Household Products Database;

<http://householdproducts.nlm.nih.gov/index.htm>

Agency for Toxic Substances and Disease Registry;

<http://www.atsdr.cdc.gov/>



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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April 11, 2011

Mr. Joe Colvin
3026 Roger Street
South Bend, IN 46628

Re: Indoor Air/Sub-Slab Sampling Results
Honeywell International, Inc.
717 N. Bendix Dr./3520 Westmoor St.
South Bend, Indiana
VRP #6980601

Dear Mr. Colvin:

Thank you for your participation in the indoor air and sub-slab sampling program conducted in February by Honeywell as part of their ongoing efforts in the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program. We realize the time requirement on your behalf. We're grateful for your participation and accommodation to Honeywell and their representatives, as this made the first phase of the sampling program a seamless one.

The purpose of this sampling program is to assess any potential vapor migration from contaminated groundwater related to historical chemical releases at the plant located at 717 North Bendix Drive and 3520 Westmoor Street. Your participation in this assessment has allowed Honeywell's engineering consultant, MACTEC Engineering and Consulting, Inc., to collect samples from the indoor air and from below the basement floor (sub-slab) in your home.

Based on a review of the sub-slab sample results, one or more compounds were detected in the sample collected from beneath your home. However, the level at which the compounds were detected is below IDEM's appropriate health-protective criteria, so further action is not necessary at this time. That is, the detected concentrations from these sub-slab samples do not represent a health or exposure risk.

Additionally, analysis of the indoor air samples collected from your basement and first floor also detected low levels of certain compounds in the indoor air, although none were detected above an IDEM screening criteria (please see the attached Table 1-5). It is important to note that based on the results of the sub-slab sample analysis, and the fact that low level vapor concentrations of certain compounds are commonly detected in residential indoor air samples, the compounds detected in the indoor air samples are not thought to be from a subsurface source but more likely from indoor or ambient air contributions. We have attached an informational sheet describing each of the compounds tested and the potential sources of these compounds. While the

concentrations measured in the indoor air samples do not represent an immediate or acute health concern, IDEM recommends the removal of any solvent-based chemicals or products from the living space as an additional precautionary measure.

As an additional health-protective measure, and to confirm the results from this sampling event, an additional sampling event is tentatively scheduled for late July 2011, provided your continued agreement to provide access. We will contact you well in advance to establish an acceptable date and time for sampling.

If you have any questions or would like to discuss your results in further detail, please do not hesitate to contact me, Loan Pham, at (317) 234-0971 or by email at lpham@idem.in.gov.

Again, thank you for your time and participation in this effort.

Sincerely,



Loan Pham, Project Manager
Voluntary Remediation Program
Office of Land Quality

cc: Chuck Gadelmann, Honeywell International, Inc.
Eric Kloss, Honeywell International, Inc.
Steven Murray, MACTEC Engineering and Consulting, Inc.

Table 1-5
Home 5 Residential Indoor Ambient Air and Sub-Slab Soil Vapor Comparison Table
Honeywell - South Bend

Compound	RIAAALS 30 Year Exposure Duration	Sub-Slab 30 Year Exposure Duration	Sample ID Sample Date Analyzed Date	Home 5 Basement		Home 5 Primary		Home 5 Sub-Slab	
				2/3/2011	2/11/2011	2/3/2011	2/11/2011	2/3/2011	2/11/2011
Benzene	0.78	7.8	ppbv	0.28	0.35	0.22	0.25	0.28	
sec-Butylbenzene	NC	NC	ppbv	<0.16	0.71	<0.16	<0.16	<0.16	
Chloroethane	8.8	88*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080	
1,1-Dichloroethane	130	1300*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080	
cis-1,2-Dichloroethene	9.2	92*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080	
trans-1,2-Dichloroethene	18	180*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080	
1,1-Dichloroethene	52	520*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080	
1,2-Dichloropropane	0.21	2.1*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080	
Isopropylbenzene	82	820*	ppbv	<0.16	0.60	<0.16	<0.16	<0.16	
n-Propylbenzene	30	300*	ppbv	<0.16	1.90	0.23	<0.16	<0.16	
Tetrachloroethene	0.47	4.7	ppbv	<0.080	<0.080	0.37	0.058	0.17	
1,1,1-Trichloroethane	420	4200*	ppbv	<0.080	0.089	1.2	<0.080	<0.080	
Trichloroethene	0.23	2.3	ppbv	<0.040	<0.040	0.044	<0.040	<0.040	
Vinyl chloride	0.85	8.5	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080	
tert-Butylbenzene	NC	NC	ppbv	<0.20	<0.20	<0.20	<0.20	<0.20	
1,2-Dichloroethane	0.18	1.8	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080	

Notes:

RIAAALS = Residential Indoor Air Action Level

NC = No criteria given by the Indiana Department of Environmental Management

ppbv = Part Per Billion by Volume

* = Sub-Slab 30 year Exposure Duration screening levels determined by increasing RIAALS by factor of 10

Bold = Exceeds RIAALS 30 year Exposure Duration if a basement or primary living space sample or exceeds Sub-Slab 30 year Exposure Duration if a sub-slab sample.

Sample Key:

B = Basement Ambient Air Sample

P = Primary Living Space Ambient Air Sample

SS = Sub-slab soil vapor sample

BG = Background Sample

The Indiana Department of Environmental Management (IDEM) has developed screening criteria and indoor air action levels for numerous specific chemicals. These criteria are based on longer term exposures (i.e., 1-year, 5-year, 10 year, 20-year, and 30-year). When a specific chemical is observed in an indoor air sample above a screening criterion, further evaluation is typically conducted. This evaluation involves understanding the potential sources of the detection. Although detections may potentially be related to environmental contamination, in many cases these low level concentrations are related to other sources from within the house or outside.

Below is a table listing the compounds that were tested for during this sampling event and residential potential uses and/or sources.

Compound	Uses/Sources
Benzene	<ul style="list-style-type: none"> • Automobile exhaust • Cigarette smoke • Gasoline/fuels • Paints • Wood furniture finishes and waxes • Glues and adhesive/glue removers • Automotive engine cleaners
Chloroethane	<ul style="list-style-type: none"> • Refrigerant • Out gassing from cellulose, dyes, medicinal drugs (including topical anesthetics) • Solvent, Breakdown compound of PCE and TCE
cis- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
trans- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
Isopropyl benzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
N- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Sec- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tert-propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tetrachloroethene (PCE)	<ul style="list-style-type: none"> • Dry cleaning solvent • Degreasing solvent/auto parts cleaners • Adhesives and lubricants
Trichloroethene (TCE)	<ul style="list-style-type: none"> • Degreasing solvent/auto parts cleaners • Adhesives • Paint remover/Spot remover • Nail Polish and polish remover
Vinyl chloride	<ul style="list-style-type: none"> • Breakdown compound of TCE • Pipe sealant paste
1,1,1- trichloroethane (1,1,1-TCA)	<ul style="list-style-type: none"> • Degreasing solvent

1,1- dichloroethane	<ul style="list-style-type: none"> • Solvent for plastics, oils and fats • Degreasing solvent • Insecticide sprays • Halon fire extinguishers • Breakdown compound of 1,1,1- TCA
1,1- dichloroethene	<ul style="list-style-type: none"> • Out gassing from plastics • Breakdown compound of 1,1,1- TCA and TCE
1,2- dichloroethane	<ul style="list-style-type: none"> • Degreaser • Paint remover • Out gassing from molded plastic consumer products (PVC)
1,2- dichloropropane	<ul style="list-style-type: none"> • Insecticides • Varnishes • Paint remover/thinners

Sources:

U.S. Health and Human Services – Household Products Database;

<http://householdproducts.nlm.nih.gov/index.htm>

Agency for Toxic Substances and Disease Registry;

<http://www.atsdr.cdc.gov/>



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April 11, 2011

Ms. Kimberly Davis
3002 Longley Avenue
South Bend, IN 46628

Re: Indoor Air/Sub-Slab Sampling Results
Honeywell International, Inc.
717 N. Bendix Dr./3520 Westmoor St.
South Bend, Indiana
VRP #6980601

Dear Ms. Davis:

Thank you for your participation in the indoor air and sub-slab sampling program conducted in February by Honeywell as part of their ongoing efforts in the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program. We realize the time requirement on your behalf. We're grateful for your participation and accommodation to Honeywell and their representatives, as this made the first phase of the sampling program a seamless one.

The purpose of this sampling program is to assess any potential vapor migration from contaminated groundwater related to historical chemical releases at the plant located at 717 North Bendix Drive and 3520 Westmoor Street. Your participation in this assessment has allowed Honeywell's engineering consultant, MACTEC Engineering and Consulting, Inc., to collect samples from the indoor air and from below the basement floor (sub-slab) in your home.

Based on a review of the sub-slab sample results, one or more compounds were detected in the sample collected from beneath your home. However, the level at which the compounds were detected is below IDEM's appropriate health-protective criteria, so further action is not necessary at this time. That is, the detected concentrations from these sub-slab samples do not represent a health or exposure risk.

Additionally, analysis of the indoor air samples collected from your basement and first floor also detected low levels of certain compounds in the indoor air, however only 1,2-dichloroethane was detected above an IDEM screening criteria (please see the attached Table 1-6). It is important to note that based on the results of the sub-slab sample analysis, and the fact that low level vapor concentrations of certain compounds are commonly detected in residential indoor air samples, the compounds detected in the indoor air samples are not thought to be from a subsurface source but more likely from indoor or ambient air contributions. We have attached an informational sheet describing each of the compounds tested and the potential sources of these compounds. While the

concentrations measured in the indoor air samples do not represent an immediate or acute health concern, IDEM recommends the removal of any solvent-based chemicals or products from the living space as an additional precautionary measure.

As an additional health-protective measure, and to confirm the results from this sampling event, an additional sampling event is tentatively scheduled for late July 2011, provided your continued agreement to provide access. We will contact you well in advance to establish an acceptable date and time for sampling.

If you have any questions or would like to discuss your results in further detail, please do not hesitate to contact me, Loan Pham, at (317) 234-0971 or by email at lpham@idem.in.gov.

Again, thank you for your time and participation in this effort.

Sincerely,



Loan Pham, Project Manager
Voluntary Remediation Program
Office of Land Quality

cc: Chuck Gadelmann, Honeywell International, Inc.
Eric Kloss, Honeywell International, Inc.
Steven Murray, MACTEC Engineering and Consulting, Inc.

Table 1-6
Home 6 Residential Indoor Ambient Air and Sub-Slab Soil Vapor Comparison Table
Honeywell - South Bend

Compound	RIAAIs 30 Year Exposure Duration	Sub-Slab 30 Year Exposure Duration	Sample ID Sample Date Analyzed Date	Home 6 Basement 2/4/2011 2/11/2011	Home 6 Primary 2/4/2011 2/11/2011	Home 6 Sub-Slab 2/4/2011 2/11/2011	BG-5-0211 2/4/2011 2/11/2011	BG-6-0211 2/4/2011 2/11/2011
Benzene	0.78	7.8	ppbv	0.33	0.31	0.35	0.21	0.23
sec-Butylbenzene	NC	NC	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
Chloroethane	8.8	88*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethane	130	1300*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
cis-1,2-Dichloroethene	9.2	92*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
trans-1,2-Dichloroethene	18	180*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethene	52	520*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,2-Dichloropropane	0.21	2.1*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
Isopropylbenzene	82	820*	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
n-Propylbenzene	30	300*	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
Tetrachloroethene	0.47	4.7	ppbv	<0.080	<0.080	1.0	<0.080	<0.080
1,1,1-Trichloroethane	420	4200*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
Trichloroethene	0.23	2.3	ppbv	<0.040	<0.040	0.060	<0.040	<0.040
Vinyl chloride	0.85	8.5	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
tert-Butylbenzene	NC	NC	ppbv	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	0.18	1.8	ppbv	0.11	0.20	<0.080	<0.080	<0.080

Notes:

RIAAIs = Residential Indoor Air Action Level

NC = No criteria given by the Indiana Department of Environmental Management

ppbv = Part Per Billion by Volume

* = Sub-Slab 30 year Exposure Duration screening levels determined by increasing RIAAIs by factor of 10

Bold = Exceeds RIAAIs 30 year Exposure Duration if a basement or primary living space sample or exceeds Sub-Slab 30 year Exposure Duration if a sub-slab sample.

Sample Key:

B = Basement Ambient Air Sample

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SS = Sub-slab soil vapor sample

BG = Background Sample

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Compound	Uses/Sources
Benzene	<ul style="list-style-type: none"> • Automobile exhaust • Cigarette smoke • Gasoline/fuels • Paints • Wood furniture finishes and waxes • Glues and adhesive/glue removers • Automotive engine cleaners
Chloroethane	<ul style="list-style-type: none"> • Refrigerant • Out gassing from cellulose, dyes, medicinal drugs (including topical anesthetics) • Solvent, Breakdown compound of PCE and TCE
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Isopropyl benzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
N- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Sec- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tert-propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tetrachloroethene (PCE)	<ul style="list-style-type: none"> • Dry cleaning solvent • Degreasing solvent/auto parts cleaners • Adhesives and lubricants
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Vinyl chloride	<ul style="list-style-type: none"> • Breakdown compound of TCE • Pipe sealant paste
1,1,1- trichloroethane (1,1,1-TCA)	<ul style="list-style-type: none"> • Degreasing solvent

1,1- dichloroethane	<ul style="list-style-type: none"> • Solvent for plastics, oils and fats • Degreasing solvent • Insecticide sprays • Halon fire extinguishers • Breakdown compound of 1,1,1- TCA
1,1- dichloroethene	<ul style="list-style-type: none"> • Out gassing from plastics • Breakdown compound of 1,1,1- TCA and TCE
1,2- dichloroethane	<ul style="list-style-type: none"> • Degreaser • Paint remover • Out gassing from molded plastic consumer products (PVC)
1,2- dichloropropane	<ul style="list-style-type: none"> • Insecticides • Varnishes • Paint remover/thinners

Sources:

U.S. Health and Human Services – Household Products Database;

<http://householdproducts.nlm.nih.gov/index.htm>

Agency for Toxic Substances and Disease Registry;

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April 11, 2011

Ms. LeeAnne Thielmann-Stephens
3017 Roger Street
South Bend, IN 46628

Re: Indoor Air/Sub-Slab Sampling Results
Honeywell International, Inc.
717 N. Bendix Dr./3520 Westmoor St.
South Bend, Indiana
VRP #6980601

Dear Ms. Thielmann-Stephens:

Thank you for your participation in the indoor air and sub-slab sampling program conducted in February by Honeywell as part of their ongoing efforts in the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program. We realize the time requirement on your behalf. We're grateful for your participation and accommodation to Honeywell and their representatives, as this made the first phase of the sampling program a seamless one.

The purpose of this sampling program is to assess any potential vapor migration from contaminated groundwater related to historical chemical releases at the plant located at 717 North Bendix Drive and 3520 Westmoor Street. Your participation in this assessment has allowed Honeywell's engineering consultant, MACTEC Engineering and Consulting, Inc., to collect samples from the indoor air and from below the basement floor (sub-slab) in your home.

Based on a review of the sub-slab sample results, one or more compounds were detected in the sample collected from beneath your home. However, the level at which the compounds were detected is below IDEM's appropriate health-protective criteria, so further action is not necessary at this time. That is, the detected concentrations from these sub-slab samples do not represent a health or exposure risk.

Additionally, analysis of the indoor air samples collected from your basement and first floor also detected low levels of certain compounds in the indoor air, although none were detected above an IDEM screening criteria (please see the attached Table 1-7). It is important to note that based on the results of the sub-slab sample analysis, and the fact that low level vapor concentrations of certain compounds are commonly detected in residential indoor air samples, the compounds detected in the indoor air samples are not thought to be from a subsurface source but more likely from indoor or ambient air contributions. We have attached an informational sheet describing each of the compounds tested and the potential sources of these compounds. While the

concentrations measured in the indoor air samples do not represent an immediate or acute health concern, IDEM recommends the removal of any solvent-based chemicals or products from the living space as an additional precautionary measure.

As an additional health-protective measure, and to confirm the results from this sampling event, an additional sampling event is tentatively scheduled for late July 2011, provided your continued agreement to provide access. We will contact you well in advance to establish an acceptable date and time for sampling.

If you have any questions or would like to discuss your results in further detail, please do not hesitate to contact me, Loan Pham, at (317) 234-0971 or by email at lpham@idem.in.gov.

Again, thank you for your time and participation in this effort.

Sincerely,



Loan Pham, Project Manager
Voluntary Remediation Program
Office of Land Quality

cc: Chuck Gadelmann, Honeywell International, Inc.
Eric Kloss, Honeywell International, Inc.
Steven Murray, MACTEC Engineering and Consulting, Inc.

Table 1-7
Home 7 Residential Indoor Ambient Air and Sub-Slab Soil Vapor Comparison Table
Honeywell - South Bend

Compound	RIAAAs 30 Year Exposure Duration	Sub-Slab 30 Year Exposure Duration	Sample ID Sample Date Analyzed Date	Home 7		Home 7	Home 7	Home 7
				Basement 2/10/2011	Primary 2/10/2011	Sub-Slab 2/10/2011	BG-7-0211 2/10/2011	BG-8-0211 2/10/2011
Benzene	0.78	7.8	ppbv	0.34	0.34	2.80	0.27	0.27
sec-Butylbenzene	NC	NC	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
Chloroethane	8.8	88*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethane	130	1300*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
cis-1,2-Dichloroethene	9.2	92*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
trans-1,2-Dichloroethene	18	180*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethene	52	520*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,2-Dichloropropane	0.21	2.1*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
Isopropylbenzene	82	820*	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
n-Propylbenzene	30	300*	ppbv	<0.16	<0.16	0.21	<0.16	<0.16
Tetrachloroethene	0.47	4.7	ppbv	0.14	0.26	0.39	<0.080	<0.080
1,1,1-Trichloroethane	420	4200*	ppbv	<0.080	<0.080	0.26	<0.080	<0.080
Trichloroethene	0.23	2.3	ppbv	<0.040	<0.040	0.10	<0.040	<0.040
Vinyl chloride	0.85	8.5	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
tert-Butylbenzene	NC	NC	ppbv	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	0.18	1.8	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080

Notes:

RIAAAs = Residential Indoor Air Action Level

NC = No criteria given by the Indiana Department of Environmental Management

ppbv = Part Per Billion by Volume

* = Sub-Slab 30 year Exposure Duration screening levels determined by increasing RIAAAs by factor of 10

Bold = Exceeds RIAAAs 30 year Exposure Duration if a basement or primary living space sample or exceeds Sub-Slab 30 year Exposure Duration if a sub-slab sample.

Sample Key:

B = Basement Ambient Air Sample

P = Primary Living Space Ambient Air Sample

SS = Sub-slab soil vapor sample

BG = Background Sample

The Indiana Department of Environmental Management (IDEM) has developed screening criteria and indoor air action levels for numerous specific chemicals. These criteria are based on longer term exposures (i.e., 1-year, 5-year, 10 year, 20-year, and 30-year). When a specific chemical is observed in an indoor air sample above a screening criterion, further evaluation is typically conducted. This evaluation involves understanding the potential sources of the detection. Although detections may potentially be related to environmental contamination, in many cases these low level concentrations are related to other sources from within the house or outside.

Below is a table listing the compounds that were tested for during this sampling event and residential potential uses and/or sources.

Compound	Uses/Sources
Benzene	<ul style="list-style-type: none"> • Automobile exhaust • Cigarette smoke • Gasoline/fuels • Paints • Wood furniture finishes and waxes • Glues and adhesive/glue removers • Automotive engine cleaners
Chloroethane	<ul style="list-style-type: none"> • Refrigerant • Out gassing from cellulose, dyes, medicinal drugs (including topical anesthetics) • Solvent, Breakdown compound of PCE and TCE
cis- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
trans- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
Isopropyl benzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
N- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Sec- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tert-propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tetrachloroethene (PCE)	<ul style="list-style-type: none"> • Dry cleaning solvent • Degreasing solvent/auto parts cleaners • Adhesives and lubricants
Trichloroethene (TCE)	<ul style="list-style-type: none"> • Degreasing solvent/auto parts cleaners • Adhesives • Paint remover/Spot remover • Nail Polish and polish remover
Vinyl chloride	<ul style="list-style-type: none"> • Breakdown compound of TCE • Pipe sealant paste
1,1,1- trichloroethane (1,1,1-TCA)	<ul style="list-style-type: none"> • Degreasing solvent

1,1- dichloroethane	<ul style="list-style-type: none"> • Solvent for plastics, oils and fats • Degreasing solvent • Insecticide sprays • Halon fire extinguishers • Breakdown compound of 1,1,1- TCA
1,1- dichloroethene	<ul style="list-style-type: none"> • Out gassing from plastics • Breakdown compound of 1,1,1- TCA and TCE
1,2- dichloroethane	<ul style="list-style-type: none"> • Degreaser • Paint remover • Out gassing from molded plastic consumer products (PVC)
1,2- dichloropropane	<ul style="list-style-type: none"> • Insecticides • Varnishes • Paint remover/thinners

Sources:

U.S. Health and Human Services – Household Products Database;
<http://householdproducts.nlm.nih.gov/index.htm>

Agency for Toxic Substances and Disease Registry;
<http://www.atsdr.cdc.gov/>



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Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

April 11, 2011

Mr. Hap Kitchen
3034 Roger Street
South Bend, IN 46628

Re: Indoor Air/Sub-Slab Sampling Results
Honeywell International, Inc.
717 N. Bendix Dr./3520 Westmoor St.
South Bend, Indiana
VRP #6980601

Dear Mr. Kitchen:

Thank you for your participation in the indoor air and sub-slab sampling program conducted in February by Honeywell as part of their ongoing efforts in the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program. We realize the time requirement on your behalf. We're grateful for your participation and accommodation to Honeywell and their representatives, as this made the first phase of the sampling program a seamless one.

The purpose of this sampling program is to assess any potential vapor migration from contaminated groundwater related to historical chemical releases at the plant located at 717 North Bendix Drive and 3520 Westmoor Street. Your participation in this assessment has allowed Honeywell's engineering consultant, MACTEC Engineering and Consulting, Inc., to collect samples from the indoor air and from below the basement floor (sub-slab) in your home.

Based on a review of the sub-slab sample results, one or more compounds were detected in the sample collected from beneath your home. However, the level at which the compounds were detected is below IDEM's appropriate health-protective criteria, so further action is not necessary at this time. That is, the detected concentrations from these sub-slab samples do not represent a health or exposure risk.

Additionally, analysis of the indoor air samples collected from your basement and first floor also detected low levels of certain compounds in the indoor air, although only benzene was detected above an IDEM screening criteria (please see the attached Table 1-8). It is important to note that based on the results of the sub-slab sample analysis, and the fact that low level vapor concentrations of certain compounds are commonly detected in residential indoor air samples, the compounds detected in the indoor air samples are not thought to be from a subsurface source but more likely from indoor or ambient air contributions. We have attached an informational sheet describing each of the compounds tested and the potential sources of these compounds. While the

concentrations measured in the indoor air samples do not represent an immediate or acute health concern, IDEM recommends the removal of any solvent-based chemicals or products from the living space as an additional precautionary measure.

As an additional health-protective measure, and to confirm the results from this sampling event, an additional sampling event is tentatively scheduled for late July 2011, provided your continued agreement to provide access. We will contact you well in advance to establish an acceptable date and time for sampling.

If you have any questions or would like to discuss your results in further detail, please do not hesitate to contact me, Loan Pham, at (317) 234-0971 or by email at lpham@idem.in.gov.

Again, thank you for your time and participation in this effort.

Sincerely,



Loan Pham, Project Manager
Voluntary Remediation Program
Office of Land Quality

cc: Chuck Gadelmann, Honeywell International, Inc.
Eric Kloss, Honeywell International, Inc.
Steven Murray, MACTEC Engineering and Consulting, Inc.

Table 1-8
Home 8 Residential Indoor Ambient Air and Sub-Slab Soil Vapor Comparison Table
Honeywell - South Bend

Compound	RIAAAs 30 Year Exposure Duration	Sub-Slab 30 Year Exposure Duration	Sample ID Sample Date Analyzed Date	Home 8 Basement 2/10/2011 2/17/2011	Home 8 Primary 2/10/2011 2/17/2011	Home 8 Sub-Slab 2/10/2011 2/17/2011	BG-7-0211 2/10/2011 2/17/2011	BG-8-0211 2/10/2011 2/18/2011
Benzene	0.78	7.8	ppbv	1.7	1.7	0.54	0.27	0.27
sec-Butylbenzene	NC	NC	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
Chloroethane	8.8	88*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethane	130	1300*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
cis-1,2-Dichloroethene	9.2	92*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
trans-1,2-Dichloroethene	18	180*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethene	52	520*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,2-Dichloropropane	0.21	2.1*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
Isopropylbenzene	82	820*	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
n-Propylbenzene	30	300*	ppbv	0.25	0.31	<0.16	<0.16	<0.16
Tetrachloroethene	0.47	4.7	ppbv	<0.080	<0.080	0.79	<0.080	<0.080
1,1,1-Trichloroethane	420	4200*	ppbv	<0.080	<0.080	0.69	<0.080	<0.080
Trichloroethene	0.23	2.3	ppbv	<0.040	<0.040	0.12	<0.040	<0.040
Vinyl chloride	0.85	8.5	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
tert-Butylbenzene	NC	NC	ppbv	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	0.18	1.8	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080

Notes:

RIAAAs = Residential Indoor Air Action Level

NC = No criteria given by the Indiana Department of Environmental Management

ppbv = Part Per Billion by Volume

* = Sub-Slab 30 year Exposure Duration screening levels determined by increasing RIAAAs by factor of 10

Bold = Exceeds RIAAAs 30 year Exposure Duration if a basement or primary living space sample or exceeds Sub-Slab 30 year Exposure Duration if a sub-slab sample.

Sample Key:

B = Basement Ambient Air Sample

P = Primary Living Space Ambient Air Sample

SS = Sub-slab soil vapor sample

BG = Background Sample

The Indiana Department of Environmental Management (IDEM) has developed screening criteria and indoor air action levels for numerous specific chemicals. These criteria are based on longer term exposures (i.e., 1-year, 5-year, 10 year, 20-year, and 30-year). When a specific chemical is observed in an indoor air sample above a screening criterion, further evaluation is typically conducted. This evaluation involves understanding the potential sources of the detection. Although detections may potentially be related to environmental contamination, in many cases these low level concentrations are related to other sources from within the house or outside.

Below is a table listing the compounds that were tested for during this sampling event and residential potential uses and/or sources.

Compound	Uses/Sources
Benzene	<ul style="list-style-type: none"> • Automobile exhaust • Cigarette smoke • Gasoline/fuels • Paints • Wood furniture finishes and waxes • Glues and adhesive/glue removers • Automotive engine cleaners
Chloroethane	<ul style="list-style-type: none"> • Refrigerant • Out gassing from cellulose, dyes, medicinal drugs (including topical anesthetics) • Solvent, Breakdown compound of PCE and TCE
cis- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
trans- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
Isopropyl benzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
N- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Sec- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tert-propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tetrachloroethene (PCE)	<ul style="list-style-type: none"> • Dry cleaning solvent • Degreasing solvent/auto parts cleaners • Adhesives and lubricants
Trichloroethene (TCE)	<ul style="list-style-type: none"> • Degreasing solvent/auto parts cleaners • Adhesives • Paint remover/Spot remover • Nail Polish and polish remover
Vinyl chloride	<ul style="list-style-type: none"> • Breakdown compound of TCE • Pipe sealant paste
1,1,1- trichloroethane (1,1,1-TCA)	<ul style="list-style-type: none"> • Degreasing solvent

1,1- dichloroethane	<ul style="list-style-type: none"> • Solvent for plastics, oils and fats • Degreasing solvent • Insecticide sprays • Halon fire extinguishers • Breakdown compound of 1,1,1- TCA
1,1- dichloroethene	<ul style="list-style-type: none"> • Out gassing from plastics • Breakdown compound of 1,1,1- TCA and TCE
1,2- dichloroethane	<ul style="list-style-type: none"> • Degreaser • Paint remover • Out gassing from molded plastic consumer products (PVC)
1,2- dichloropropane	<ul style="list-style-type: none"> • Insecticides • Varnishes • Paint remover/thinners

Sources:

U.S. Health and Human Services – Household Products Database;

<http://householdproducts.nlm.nih.gov/index.htm>

Agency for Toxic Substances and Disease Registry;

<http://www.atsdr.cdc.gov/>



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April 11, 2011

Ms. Patricia Byrd
P.O. Box 11013
South Bend, IN 46634

Re: Indoor Air/Sub-Slab Sampling Results
Honeywell International, Inc.
717 N. Bendix Dr./3520 Westmoor St.
South Bend, Indiana
VRP #6980601

Dear Ms. Byrd:

Thank you for your participation in the indoor air and sub-slab sampling program conducted in February by Honeywell as part of their ongoing efforts in the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program. We realize the time requirement on your behalf. We're grateful for your participation and accommodation to Honeywell and their representatives, as this made the first phase of the sampling program a seamless one.

The purpose of this sampling program is to assess any potential vapor migration from contaminated groundwater related to historical chemical releases at the plant located at 717 North Bendix Drive and 3520 Westmoor Street. Your participation in this assessment has allowed Honeywell's engineering consultant, MACTEC Engineering and Consulting, Inc., to collect samples from the indoor air and from below the basement floor (sub-slab) in your home.

Based on a review of the sub-slab sample results, one or more compounds were detected in the sample collected from beneath your home. However, the level at which the compounds were detected is below IDEM's appropriate health-protective criteria, so further action is not necessary at this time. That is, the detected concentrations from these sub-slab samples do not represent a health or exposure risk.

Additionally, analysis of the indoor air samples collected from your basement and first floor also detected low levels of benzene in the indoor air, although the concentration was not detected above an IDEM screening criteria (please see the attached Table 1-9). It is important to note that based on the results of the sub-slab sample analysis, and the fact that low level vapor concentrations of certain compounds are commonly detected in residential indoor air samples, benzene detected in the indoor air samples is not thought to be from a subsurface source but more likely from indoor or ambient air contributions. We have attached an informational sheet describing each of the compounds tested and the potential sources of these compounds. While the

concentrations measured in the indoor air samples do not represent an immediate or acute health concern, IDEM recommends the removal of any solvent-based chemicals or products from the living space as an additional precautionary measure.

As an additional health-protective measure, and to confirm the results from this sampling event, an additional sampling event is tentatively scheduled for late July 2011, provided your continued agreement to provide access. We will contact you well in advance to establish an acceptable date and time for sampling.

If you have any questions or would like to discuss your results in further detail, please do not hesitate to contact me, Loan Pham, at (317) 234-0971 or by email at lpham@idem.in.gov.

Again, thank you for your time and participation in this effort.

Sincerely,



Loan Pham, Project Manager
Voluntary Remediation Program
Office of Land Quality

cc: Chuck Gadelmann, Honeywell International, Inc.
Eric Kloss, Honeywell International, Inc.
Steven Murray, MACTEC Engineering and Consulting, Inc.

Table 1-9
Home 9 Residential Indoor Ambient Air and Sub-Slab Soil Vapor Comparison Table
Honeywell - South Bend

Compound	RIAAIs 30 Year Exposure Duration	Sub-Slab 30 Year Exposure Duration	Sample ID Sample Date Analyzed Date	Home 9 Basement 2/10/2011 2/17/2011	Home 9 Primary 2/10/2011 2/17/2011	Home 9 Sub-Slab 2/10/2011 2/17/2011	BG-7-0211 2/10/2011 2/17/2011	BG-8-0211 2/10/2011 2/18/2011
Benzene	0.78	7.8	ppbv	0.26	0.26	0.19	0.27	0.27
sec-Butylbenzene	NC	NC	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
Chloroethane	8.8	88*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethane	130	1300*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
cis-1,2-Dichloroethene	9.2	92*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
trans-1,2-Dichloroethene	18	180*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethene	52	520*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,2-Dichloropropane	0.21	2.1*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
Isopropylbenzene	82	820*	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
n-Propylbenzene	30	300*	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
Tetrachloroethene	0.47	4.7	ppbv	<0.080	<0.080	0.22	<0.080	<0.080
1,1,1-Trichloroethane	420	4200*	ppbv	<0.080	<0.080	0.25	<0.080	<0.080
Trichloroethene	0.23	2.3	ppbv	<0.040	<0.040	<0.040	<0.040	<0.040
Vinyl chloride	0.85	8.5	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
tert-Butylbenzene	NC	NC	ppbv	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	0.18	1.8	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080

Notes:

RIAAIs = Residential Indoor Air Action Level

NC = No criteria given by the Indiana Department of Environmental Management

ppbv = Part Per Billion by Volume

* = Sub-Slab 30 year Exposure Duration screening levels determined by increasing RIAAIs by factor of 10

Bold = Exceeds RIAAIs 30 year Exposure Duration if a basement or primary living space sample or exceeds Sub-Slab 30 year Exposure Duration if a sub-slab sample.

Sample Key:

B = Basement Ambient Air Sample

P = Primary Living Space Ambient Air Sample

SS = Sub-slab soil vapor sample

BG = Background Sample

The Indiana Department of Environmental Management (IDEM) has developed screening criteria and indoor air action levels for numerous specific chemicals. These criteria are based on longer term exposures (i.e., 1-year, 5-year, 10 year, 20-year, and 30-year). When a specific chemical is observed in an indoor air sample above a screening criterion, further evaluation is typically conducted. This evaluation involves understanding the potential sources of the detection. Although detections may potentially be related to environmental contamination, in many cases these low level concentrations are related to other sources from within the house or outside.

Below is a table listing the compounds that were tested for during this sampling event and residential potential uses and/or sources.

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Chloroethane	<ul style="list-style-type: none"> • Refrigerant • Out gassing from cellulose, dyes, medicinal drugs (including topical anesthetics) • Solvent, Breakdown compound of PCE and TCE
cis- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
trans- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
Isopropyl benzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
N- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Sec- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tert-propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tetrachloroethene (PCE)	<ul style="list-style-type: none"> • Dry cleaning solvent • Degreasing solvent/auto parts cleaners • Adhesives and lubricants
Trichloroethene (TCE)	<ul style="list-style-type: none"> • Degreasing solvent/auto parts cleaners • Adhesives • Paint remover/Spot remover • Nail Polish and polish remover
Vinyl chloride	<ul style="list-style-type: none"> • Breakdown compound of TCE • Pipe sealant paste
1,1,1- trichloroethane (1,1,1-TCA)	<ul style="list-style-type: none"> • Degreasing solvent

1,1- dichloroethane	<ul style="list-style-type: none"> • Solvent for plastics, oils and fats • Degreasing solvent • Insecticide sprays • Halon fire extinguishers • Breakdown compound of 1,1,1- TCA
1,1- dichloroethene	<ul style="list-style-type: none"> • Out gassing from plastics • Breakdown compound of 1,1,1- TCA and TCE
1,2- dichloroethane	<ul style="list-style-type: none"> • Degreaser • Paint remover • Out gassing from molded plastic consumer products (PVC)
1,2- dichloropropane	<ul style="list-style-type: none"> • Insecticides • Varnishes • Paint remover/thinners

Sources:

U.S. Health and Human Services – Household Products Database;

<http://householdproducts.nlm.nih.gov/index.htm>

Agency for Toxic Substances and Disease Registry;

<http://www.atsdr.cdc.gov/>



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April 11, 2011

Mr. Jerry Ivacic
3019 Longley Avenue
South Bend, IN 46628

Re: Indoor Air/Sub-Slab Sampling Results
Honeywell International, Inc.
717 N. Bendix Dr./3520 Westmoor St.
South Bend, Indiana
VRP #6980601

Dear Mr. Ivacic:

Thank you for your participation in the indoor air and sub-slab sampling program conducted in February by Honeywell as part of their ongoing efforts in the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program. We realize the time requirement on your behalf. We're grateful for your participation and accommodation to Honeywell and their representatives, as this made the first phase of the sampling program a seamless one.

The purpose of this sampling program is to assess any potential vapor migration from contaminated groundwater related to historical chemical releases at the plant located at 717 North Bendix Drive and 3520 Westmoor Street. Your participation in this assessment has allowed Honeywell's engineering consultant, MACTEC Engineering and Consulting, Inc., to collect samples from the indoor air and from below the basement floor (sub-slab) in your home.

Based on a review of the sub-slab sample results, one or more compounds were detected in the sample collected from beneath your home. However, the level at which the compounds were detected is below IDEM's appropriate health-protective criteria, so further action is not necessary at this time. That is, the detected concentrations from these sub-slab samples do not represent a health or exposure risk.

Additionally, analysis of the indoor air samples collected from your basement and first floor also detected low levels of certain compounds in the indoor air, although none were detected above an IDEM screening criteria (please see the attached Table 1-10). It is important to note that based on the results of the sub-slab sample analysis, and the fact that low level vapor concentrations of certain compounds are commonly detected in residential indoor air samples, the compounds detected in the indoor air samples are not thought to be from a subsurface source but more likely from indoor or ambient air contributions. We have attached an informational sheet describing each of the compounds tested and the potential sources of these compounds. While the

concentrations measured in the indoor air samples do not represent an immediate or acute health concern, IDEM recommends the removal of any solvent-based chemicals or products from the living space as an additional precautionary measure.

As an additional health-protective measure, and to confirm the results from this sampling event, an additional sampling event is tentatively scheduled for late July 2011, provided your continued agreement to provide access. We will contact you well in advance to establish an acceptable date and time for sampling.

If you have any questions or would like to discuss your results in further detail, please do not hesitate to contact me, Loan Pham, at (317) 234-0971 or by email at lpham@idem.in.gov.

Again, thank you for your time and participation in this effort.

Sincerely,



Loan Pham, Project Manager
Voluntary Remediation Program
Office of Land Quality

cc: Chuck Gadelmann, Honeywell International, Inc.
Eric Kloss, Honeywell International, Inc.
Steven Murray, MACTEC Engineering and Consulting, Inc.

Table 1-10
Home 10 Residential Indoor Ambient Air and Sub-Slab Soil Vapor Comparison Table
Honeywell - South Bend

Compound	RIAAAs 30 Year Exposure Duration	Sub-Slab 30 Year Exposure Duration	Sample ID Sample Date Analyzed Date	Home 10 Basement 2/18/2011 3/1/2011	Home 10 Primary 2/18/2011 3/1/2011	Home 10 Sub-Slab 2/18/2011 3/1/2011	BG-9-0211 2/18/2011 3/1/2011	BG-10-0211 2/18/2011 3/1/2011
Benzene	0.78	7.8	ppbv	0.33	0.69	0.31	0.15	0.14
sec-Butylbenzene	NC	NC	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
Chloroethane	8.8	88*	ppbv	<0.080	0.089	<0.080	<0.080	<0.080
1,1-Dichloroethane	130	1300*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
cis-1,2-Dichloroethene	9.2	92*	ppbv	<0.080	0.096	<0.080	<0.080	<0.080
trans-1,2-Dichloroethene	18	180*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethene	52	520*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,2-Dichloropropane	0.21	2.1*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
Isopropylbenzene	82	820*	ppbv	<0.16	<0.16	0.34	<0.16	<0.16
n-Propylbenzene	30	300*	ppbv	<0.16	0.16	0.25	<0.16	<0.16
Tetrachloroethene	0.47	4.7	ppbv	<0.080	0.20	0.25	<0.080	<0.080
1,1,1-Trichloroethane	420	4200*	ppbv	<0.080	<0.080	0.18	<0.080	<0.080
Trichloroethene	0.23	2.3	ppbv	0.040	<0.040	0.050	<0.040	<0.040
Vinyl chloride	0.85	8.5	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
t-tert-Butylbenzene	NC	NC	ppbv	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	0.18	1.8	ppbv	0.085	<0.080	<0.080	<0.080	<0.080

Notes:

- RIAAAs = Residential Indoor Air Action Level
- NC = No criteria given by the Indiana Department of Environmental Management
- ppbv = Part Per Billion by Volume
- * = Sub-Slab 30 year Exposure Duration screening levels determined by increasing RIAAAs by factor of 10
- Bold** = Exceeds RIAAAs 30 year Exposure Duration if a basement or primary living space sample or exceeds Sub-Slab 30 year Exposure Duration if a sub-slab sample.

Sample Key:

- B = Basement Ambient Air Sample
- P = Primary Living Space Ambient Air Sample
- SS = Sub-slab soil vapor sample
- BG = Background Sample

The Indiana Department of Environmental Management (IDEM) has developed screening criteria and indoor air action levels for numerous specific chemicals. These criteria are based on longer term exposures (i.e., 1-year, 5-year, 10 year, 20-year, and 30-year). When a specific chemical is observed in an indoor air sample above a screening criterion, further evaluation is typically conducted. This evaluation involves understanding the potential sources of the detection. Although detections may potentially be related to environmental contamination, in many cases these low level concentrations are related to other sources from within the house or outside.

Below is a table listing the compounds that were tested for during this sampling event and residential potential uses and/or sources.

Compound	Uses/Sources
Benzene	<ul style="list-style-type: none"> • Automobile exhaust • Cigarette smoke • Gasoline/fuels • Paints • Wood furniture finishes and waxes • Glues and adhesive/glue removers • Automotive engine cleaners
Chloroethane	<ul style="list-style-type: none"> • Refrigerant • Out gassing from cellulose, dyes, medicinal drugs (including topical anesthetics) • Solvent, Breakdown compound of PCE and TCE
cis- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
trans- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
Isopropyl benzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
N- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Sec- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tert-propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tetrachloroethene (PCE)	<ul style="list-style-type: none"> • Dry cleaning solvent • Degreasing solvent/auto parts cleaners • Adhesives and lubricants
Trichloroethene (TCE)	<ul style="list-style-type: none"> • Degreasing solvent/auto parts cleaners • Adhesives • Paint remover/Spot remover • Nail Polish and polish remover
Vinyl chloride	<ul style="list-style-type: none"> • Breakdown compound of TCE • Pipe sealant paste
1,1,1- trichloroethane (1,1,1-TCA)	<ul style="list-style-type: none"> • Degreasing solvent

1,1- dichloroethane	<ul style="list-style-type: none"> • Solvent for plastics, oils and fats • Degreasing solvent • Insecticide sprays • Halon fire extinguishers • Breakdown compound of 1,1,1- TCA
1,1- dichloroethene	<ul style="list-style-type: none"> • Out gassing from plastics • Breakdown compound of 1,1,1- TCA and TCE
1,2- dichloroethane	<ul style="list-style-type: none"> • Degreaser • Paint remover • Out gassing from molded plastic consumer products (PVC)
1,2- dichloropropane	<ul style="list-style-type: none"> • Insecticides • Varnishes • Paint remover/thinners

Sources:

U.S. Health and Human Services – Household Products Database;

<http://householdproducts.nlm.nih.gov/index.htm>

Agency for Toxic Substances and Disease Registry;

<http://www.atsdr.cdc.gov/>



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

April 11, 2011

Ms. Sheala Frederick
3029 Longley Avenue
South Bend, IN 46628

Re: Indoor Air/Sub-Slab Sampling Results
Honeywell International, Inc.
717 N. Bendix Dr./3520 Westmoor St.
South Bend, Indiana
VRP #6980601

Dear Ms. Frederick:

Thank you for your participation in the indoor air and sub-slab sampling program conducted in February by Honeywell as part of their ongoing efforts in the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program. We realize the time requirement on your behalf. We're grateful for your participation and accommodation to Honeywell and their representatives, as this made the first phase of the sampling program a seamless one.

The purpose of this sampling program is to assess any potential vapor migration from contaminated groundwater related to historical chemical releases at the plant located at 717 North Bendix Drive and 3520 Westmoor Street. Your participation in this assessment has allowed Honeywell's engineering consultant, MACTEC Engineering and Consulting, Inc., to collect samples from the indoor air and from below the basement floor (sub-slab) in your home.

Based on a review of the sub-slab sample results, one or more compounds were detected in the sample collected from beneath your home. However, the level at which the compounds were detected is below IDEM's appropriate health-protective criteria, so further action is not necessary at this time. That is, the detected concentrations from these sub-slab samples do not represent a health or exposure risk.

Additionally, analysis of the indoor air samples collected from your basement and first floor also detected low levels of certain compounds in the indoor air, and two compounds were detected above an IDEM screening criteria (please see the attached Table 1-11). It is important to note that based on the results of the sub-slab sample analysis, and the fact that low level vapor concentrations of certain compounds are commonly detected in residential indoor air samples, the compounds detected in the indoor air samples are not thought to be from a subsurface source but more likely from indoor or ambient air contributions. We have attached an informational sheet describing each of the compounds tested and the potential sources of these compounds. While the

concentrations measured in the indoor air samples do not represent an immediate or acute health concern, IDEM recommends the removal of any solvent-based chemicals or products from the living space as an additional precautionary measure.

As an additional health-protective measure, and to confirm the results from this sampling event, an additional sampling event is tentatively scheduled for late July 2011, provided your continued agreement to provide access. We will contact you well in advance to establish an acceptable date and time for sampling.

If you have any questions or would like to discuss your results in further detail, please do not hesitate to contact me, Loan Pham, at (317) 234-0971 or by email at lpham@idem.in.gov.

Again, thank you for your time and participation in this effort.

Sincerely,



Loan Pham, Project Manager
Voluntary Remediation Program
Office of Land Quality

cc: Chuck Gadelmann, Honeywell International, Inc.
Eric Kloss, Honeywell International, Inc.
Steven Murray, MACTEC Engineering and Consulting, Inc.

Table 1-11
Home 11 Residential Indoor Ambient Air and Sub-Slab Soil Vapor Comparison Table
Honeywell - South Bend

Compound	RIAAAs 30 Year Exposure Duration	Sub-Slab 30 Year Exposure Duration	Sample ID Sample Date Analyzed Date	Home 11 Basement 2/18/2011 3/1/2011	Home 11 Primary 2/18/2011 3/1/2011	Home 11 Sub-Slab 2/19/2011 2/28/2011	BG-9-0211 2/18/2011 3/1/2011	BG-10-0211 2/18/2011 3/1/2011
Benzene	0.78	7.8	ppbv	0.37	0.30	0.21	0.15	0.14
sec-Butylbenzene	NC	NC	ppbv	<0.16	<0.16	<0.16	<0.16	<0.16
Chloroethane	8.8	88*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethane	130	1300*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
cis-1,2-Dichloroethene	9.2	92*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
trans-1,2-Dichloroethene	18	180*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,1-Dichloroethene	52	520*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
1,2-Dichloropropane	0.21	2.1*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
Isopropylbenzene	82	820*	ppbv	<0.16	<0.16	0.29	<0.16	<0.16
n-Propylbenzene	30	300*	ppbv	<0.16	<0.16	0.17	<0.16	<0.16
Tetrachloroethene	0.47	4.7	ppbv	<0.080	<0.080	0.19	<0.080	<0.080
1,1,1-Trichloroethane	420	4200*	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
Trichloroethene	0.23	2.3	ppbv	0.26	<0.040	0.050	<0.040	<0.040
Vinyl chloride	0.85	8.5	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080
tert-Butylbenzene	NC	NC	ppbv	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	0.18	1.8	ppbv	<0.080	<0.080	<0.080	<0.080	<0.080

Notes:

RIAAAs = Residential Indoor Air Action Level

NC = No criteria given by the Indiana Department of Environmental Management

ppbv = Part Per Billion by Volume

* = Sub-Slab 30 year Exposure Duration screening levels determined by increasing RIAAAs by factor of 10

Bold = Exceeds RIAAAs 30 year Exposure Duration if a basement or primary living space sample or exceeds Sub-Slab 30 year Exposure Duration if a sub-slab sample.

Sample Key:

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SS = Sub-slab soil vapor sample

BG = Background Sample

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cis- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
trans- 1,2-dichloroethene	<ul style="list-style-type: none"> • Solvent, Breakdown compound of TCE
Isopropyl benzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
N- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Sec- propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tert-propylbenzene	<ul style="list-style-type: none"> • Fuels, petroleum solvents
Tetrachloroethene (PCE)	<ul style="list-style-type: none"> • Dry cleaning solvent • Degreasing solvent/auto parts cleaners • Adhesives and lubricants
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Vinyl chloride	<ul style="list-style-type: none"> • Breakdown compound of TCE • Pipe sealant paste
1,1,1- trichloroethane (1,1,1-TCA)	<ul style="list-style-type: none"> • Degreasing solvent

1,1- dichloroethane	<ul style="list-style-type: none"> • Solvent for plastics, oils and fats • Degreasing solvent • Insecticide sprays • Halon fire extinguishers • Breakdown compound of 1,1,1- TCA
1,1- dichloroethene	<ul style="list-style-type: none"> • Out gassing from plastics • Breakdown compound of 1,1,1- TCA and TCE
1,2- dichloroethane	<ul style="list-style-type: none"> • Degreaser • Paint remover • Out gassing from molded plastic consumer products (PVC)
1,2- dichloropropane	<ul style="list-style-type: none"> • Insecticides • Varnishes • Paint remover/thinners

Sources:

U.S. Health and Human Services – Household Products Database;

<http://householdproducts.nlm.nih.gov/index.htm>

Agency for Toxic Substances and Disease Registry;

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