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Quarterly Groundwater Monitoring Report April 2007

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The Hartford Area Hydrocarbon Plume Site
Hartford, Illinois

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EXECUTIVE SUMMARY

This April 2007 Quarterly Groundwater Monitoring Report, prepared for The Hartford Area Hydrocarbon Plume Site (Site) in Hartford, Illinois, focused on monitoring conditions along the perimeter of the dissolved phase plume in northern Hartford.

The Site geology consists of alternating alluvial deposits of clay and silt. This alluvium overlies alluvial sands and sandy glacial outwash that ranges from 60 to 130 feet thick and is known, locally, as the Main Sand. The overlying permeable zones within the alluvium are locally known (in descending order) as the North Olive, the Rand and the EPA Strata. These deposits are overlain and bounded by several clay deposits identified (in descending order) as the A Clay Stratum, which overlies the entire Site, and localized deposits of the B Clay, the C Clay and the D Clay Strata. The regionally extensive Main Sand underlies the fine-grained alluvial deposits.

Gauging results indicated that light non-aqueous phase liquid (LNAPL) was primarily found in the combined EPA and Main Sand Strata, and was limited in Hartford to south of Rand Avenue, east of Illinois State Route 3 and north of East Maple Street. A localized identification of LNAPL was present in the Rand Stratum at the northeast corner of the Site. The extent of the dissolved phase hydrocarbon plume is defined within the available area of investigation.

Groundwater analytical results along the southern and western boundaries of the interpreted extent of the ROST response showed no indications of dissolved phase hydrocarbons. Groundwater analytical results along the northern (HMW-49 series) and eastern (HMW-50 series) boundaries of the Site indicated the presence of dissolved phase hydrocarbon concentrations above groundwater comparison values. The groundwater analytical results revealed that methyl tert-butyl ether (MTBE) was detected in HMW-49C at a concentration above the comparison value, and in HMW-49D and HMW-50C at concentrations below the comparison value.

1.0 INTRODUCTION

This Quarterly Groundwater Monitoring Report, prepared for The Hartford Area Hydrocarbon Plume Site (Site) in Hartford, Illinois (Figure 1) focused on monitoring conditions along the perimeter of the dissolved phase plume which has formed as a result of the presence of light non-aqueous phase liquid (LNAPL) in northern Hartford (Clayton, 2006). This report was prepared by Bureau Veritas North America, Inc. (Bureau Veritas), on behalf of the Hartford Working Group (HWG). The HWG is comprised of the Atlantic Richfield Company (Atlantic Richfield), The Premcor Refining Group Inc. (Premcor), Shell Oil Products US (Shell), and Sinclair Oil Corporation (Sinclair)[1].

The hydrogeology in the northernmost area of Hartford consists of four hydrostratigraphic units identified in descending order as the North Olive, the Rand and the EPA Strata, all of which overlie the Main Sand. The Main Sand has been subdivided into Main Silt and Main Sand based on its composition (i.e., percentage of silt versus sand content). These four hydrostratigraphic units are overlain and bounded by several clay deposits identified (in descending order) as the A Clay, B Clay, C Clay, and D Clay. The A Clay forms the surface layer over the entirety of northern Hartford while the B Clay separates the North Olive and Rand Strata. Scattered areas of fill are present within the A Clay. The C Clay separates the Rand and EPA Strata, and the D Clay separates the EPA Stratum and the Main Sand. More detailed information on the hydrostratigraphic units at the Site is provided in the December 2005 *LNAPL Active Recovery System Conceptual Site Model* (Clayton 2005) and the January 2006 *Dissolved Phase Groundwater Investigation Report* (Clayton, 2006).

Quarterly groundwater sampling of existing wells (that do not contain LNAPL) within the four hydrostratigraphic units in Hartford has been on-going since December 2003. As wells have been installed as part of investigative activities during 2004 through 2006, they have been incorporated into the quarterly monitoring program. As proposed in the Dissolved Phase Groundwater Investigation Report (Clayton, 2006), a select number of monitoring wells continue to be sampled and analyzed on a quarterly

1 Sinclair Oil Corporation has commenced litigation seeking to rescind its agreement to participate in work, including this quarterly report, being performed by HWG under the *Administrative Order on Consent: In the Matter of The Hartford Area Hydrocarbon Plume Site,* Docket No. R7003-5-04-001 and has suspended participation in HWG activities. The lawsuit is currently pending. (See: *Sinclair v. The Premcor Refining Group Inc., et al.*, No. 06-CH-1346, (Madison County))

basis to monitor conditions along the perimeter of the dissolved phase plume. An additional select number of monitoring wells will be sampled and analyzed on an annual basis. The quarterly sampling includes selected wells screened in the Rand, EPA and Main Sand Strata, located beyond the interpreted extent of free product. The annual sampling includes selected wells, if free of LNAPL, throughout northern Hartford. Wells in the North Olive Stratum are included in the groundwater-sampling program; however, as water in this unit is seasonal or ephemeral and occurs as isolated areas of perched water, groundwater is typically not present during sampling events. A list summarizing the wells included in quarterly sampling is provided in Table 1 and the well locations are shown in Figure 2.

This report presents the results of the second quarter groundwater monitoring activities performed April 10 through 16, 2007 and was done in accordance with the monitoring program presented in Clayton's (2006) Dissolved Phase Groundwater Investigation Report. A discussion of the comprehensive well gauging, groundwater sample collection, groundwater analytical results, and conclusions is presented in Sections 2.0 through 5.0, respectively. Recommendations and future activities are presented in Section 6.0 and references are presented in Section 7.0.

2.0 WELL GAUGING

Gauged monitoring wells were inspected and evaluated with respect to their continued suitability for groundwater monitoring. The wells were determined to be in satisfactory condition for continued use in the monitoring program. The results of the monitoring well inspections are included in Appendix A.

Monitoring well gauging was conducted to determine groundwater depths and LNAPL specific thickness (D_o) (if present) in order to determine groundwater flow directions and delineate the current horizontal extent of gauged LNAPL. D_o is a normalized volume of LNAPL (ft^3/ft^2) per unit surface area but is expressed as a thickness (in units of feet). The gauging was performed at wells installed in the North Olive, Rand, EPA, and Main Sand Strata. Gauged monitoring wells were located in Hartford and at the Shell Rand Avenue site, the Shell Tannery Property and the Premcor Facility. The Shell sites are located immediately to the northeast and east of the north half of Hartford, while the Premcor Facility is immediately east of the central portion of Hartford. As part of the well gauging event, the Mississippi River elevation (at the Premcor Mississippi River Dock) was surveyed by CMT, Inc. on April 10, 2007.

The April 2007 groundwater and LNAPL gauging data from Hartford are summarized in Table 2. Monitoring well gauging data for the Shell wells and the wells on the Premcor Facility are summarized in Tables 3 and 4, respectively. An April 2007 groundwater elevation map was created for the North Olive Stratum and is presented in Figure 3. Groundwater flow maps, constructed for the April 2007 gauging event for the Rand, combined EPA and Main Sand, and Main Sand Strata, are presented in Figures 4, 5 and 6, respectively. A discussion of the groundwater gauging data is presented below. A discussion of the LNAPL extent and specific thickness, including figures, is presented in Appendix B.

Groundwater within the North Olive Stratum, which is potentially seasonal or more ephemeral, occurs as isolated areas of perched water on the surface of the underlying B Clay Stratum in Hartford. Historical data has not indicated any significant areas of continually perched water in this stratum. The April 2007 well gauging for the North Olive Stratum revealed that the locations where groundwater was encountered were generally scattered with only small, localized areas that contained water levels above the stratum base. Therefore, the groundwater map created for the North Olive Stratum presents only the elevation data where groundwater was present and the saturated thickness was above the stratum base (reference Figure 3).

Groundwater within the Rand Stratum in Hartford is also considered to represent localized areas of potentially seasonal or more ephemeral perched water on the surface of the underlying C Clay Strata. Groundwater in the Rand Stratum appears to be confined northeast of Hartford at the Shell sites, though this is the only area where the Rand Stratum was extensively saturated. Therefore, the groundwater flow map created for the Rand Stratum, in general, does not contour elevation data for monitoring well locations south of Birch Street. The April 2007 groundwater flow map indicates the presence of a groundwater mound located northeast of the Site (reference Figure 4). Groundwater flows radially away from this mound towards the north to northeast, east to southeast and west to southwest. Groundwater from this mound extends and flows southwest into the Village and is controlled by the topography of the base of the Rand Stratum.

Groundwater within the EPA Stratum is generally confined and hydraulically connected to the Main Sand in northeastern Hartford, on the Shell Tannery Property, the Shell Rand Avenue Site, and the Premcor Facility. The April 2007 groundwater flow map of the combined EPA and Main Sand Strata indicates the presence of a groundwater divide, located northeast of the Site, trending along a general

northwest/southeast axis (reference Figure 5). Groundwater on the eastern side of the divide flows in an easterly direction while flow on the western side of the divide is in a southwesterly direction. As the southwesterly flow reaches beyond the extent of the D Clay Stratum, a portion of groundwater is captured in the west portion of the Premcor Facility (which includes Premcor Production Well P-2 and P-6, screened between approximately 84 to 114 feet below ground surface [bgs] in the Main Sand, and Shallow Pumping Well RPW-01 screened between approximately 32 to 72 feet bgs in the EPA Stratum and the Main Sand). A groundwater convergence zone occurs along the western extent of the D Clay Stratum extending northwest from Hawthorne Street near Premcor Production Well P-2 to Rand Avenue. The east-northeasterly groundwater flow direction within Hartford was influenced by a seasonally high Mississippi River water elevation.

The April 2007 groundwater flow map for the Main Sand indicates the flow direction underlying Hartford was primarily northeasterly with localized variable flow directions in the vicinity of and towards Production Wells P-1/P-2, P-6, and Shallow Pumping Well RPW-01 located in the northwestern portion of the Premcor Facility, north of East Hawthorne Street (reference Figure 6). Hartford Municipal Well #3 was in operation at the time of the April gauging. The overall groundwater flow direction in April 2007 had a greater easterly component compared to historical interpretations. The seasonally high Mississippi River water elevation in April 2007 appeared to exert a significant influence on groundwater flow in the EPA and Main Sand Strata.

3.0 GROUNDWATER SAMPLE COLLECTION

Quarterly groundwater samples were collected from nineteen wells (including the five Sentinel Wells) during the second quarter of 2007. None of the wells completed in the North Olive Stratum were sampled due to the absence of groundwater in this unit. A limited number of wells completed in the Rand and EPA Strata were sampled due to the units' limited presence in the area, the presence of free product in some wells, and/or wells being dry or having limited available water. The majority of the wells included in quarterly sampling are in the Main Sand. A summary list of wells included in the quarterly groundwater sampling and their sampling status as of second quarter 2007 is provided in Table 1.

Second quarter 2007 groundwater sample collection activities were conducted on April 13 for A Clay well MP-89A; Rand Stratum well HMW-50A; EPA Stratum well HMW-50B; and Main Sand wells HMW-25,

HMW-26, HMW-27, HMW-28, HMW-39B, HMW-40C, and HMW-52C; and on April 16 for EPA Stratum wells HMW-49B (screened in the B/C clay) and HMW-49C; and Main Sand wells HMW-29, HMW-39C, HMW-49D, HMW-50C, MP-81C, MP-89C, and MP-92D. Ten wells included in the quarterly groundwater sampling program were not sampled in April 2007 because they were dry (MP-81A, MP-81B and MP-89B) or contained an insufficient amount of water for sampling (HMW-39A, HMW-40A, HMW-40B, HMW-49A, HMW-52A, HMW-52B, and MP-92C).

Monitoring well purging and sampling were performed using dedicated low-flow sampling pumps and polypropylene tubing, in accordance with Bureau Veritas' purging and sampling Standard Operating Procedure (SOP) 415a, where applicable. A peristaltic pump and/or bailer were used for purging and sampling at locations where low-flow purging/sampling was not applicable. A flow chart illustrating the SOP 415a purging and sampling technique is presented in Appendix C. Upon collection, groundwater samples were placed in laboratory-supplied, pre-preserved (if appropriate) containers. After collection, samples were immediately labeled, placed in a cooler containing ice and delivered under chain of custody procedures to Teklab, Inc. of Collinsville, Illinois for laboratory analysis. The purged groundwater removed from each well was temporarily stored in a tank, equipped with secondary containment and located in a secure area within the Village of Hartford before removal by a waste disposal contractor.

Water quality indicator parameters including temperature, pH, oxidation-reduction potential, dissolved oxygen, turbidity, and specific conductivity were electronically measured and recorded using a calibrated Mini-Troll with an associated Pocket PC (in addition to the field logbook) during purging and prior to low-flow sampling. The downloaded data logger indicator parameter records for the April 2007 event are included in Appendix D. The remaining well records, measured with a Horiba U-10, are also in Appendix D.

Quarterly groundwater samples were analyzed for benzene, ethylbenzene, toluene, and total xylenes (BETX), MTBE, Skinner List Metals (total and dissolved) along with general chemistry and natural attenuation parameters, as described in Clayton's (2006) Dissolved Phase Groundwater Investigation Report. The practical quantitation limits and analytical methods are presented in Table 5. The containers with applicable preservation requirements (if appropriate) for each parameter are presented in Table 6.

4.0 GROUNDWATER ANALYTICAL RESULTS

In April 2007, the second quarter groundwater sampling included a total of 19 wells:

- The A Clay groundwater sample data set included one well: MP-89A.
- The Rand Stratum groundwater sample data set included one well: HMW-50A.
- The EPA Stratum groundwater sample data set included three wells: HMW-49B (screened in the B/C clay), HMW-49C and HMW-50B.
- The Main Sand groundwater sample data set included fourteen wells: HMW-25, HMW-26, HMW-27, HMW-28, HMW-29, HMW-39B, HMW-39C, HMW-40C, HMW-49D, HMW-50C, HMW-52C, MP-81C, MP-89C, and MP-92D.

All of the wells sampled during the April 2007 quarterly event were located beyond the interpreted extent of free product, as verified through groundwater gauging efforts.

Groundwater quality values listed in 35 Illinois Administrative Code (IAC) Part 742 (Tiered Approach to Corrective Action Objectives [TACO] Tier 1 Groundwater Remediation Objectives [GROs] for Class I groundwater [Illinois Pollution Control Board, 1997]) were used as comparison values only for evaluating the April 2007 groundwater analytical results. These results were consistent with historical trends. The April 2007 results for BETX and MTBE, Skinner List Metals, General Chemistry, and Natural Attenuation Parameters and Indicator Parameters are provided in Tables 7 through 10, respectively. Summaries of the second quarter 2007 groundwater analytical results (benzene, MTBE, total BETX, total lead, and dissolved lead concentrations) for the Rand Stratum, EPA Stratum and Main Sand are presented in Figures 7, 8 and 9, respectively. The laboratory analytical results were provided electronically to the United States Environmental Protection Agency (USEPA) and the Illinois Environmental Protection Agency (Illinois EPA) as they were received from the laboratory. Paper copies of the laboratory analytical reports are maintained at Bureau Veritas' office in Downers Grove, Illinois. A discussion of the April 2007 results for BETX, MTBE and Skinner List Metals (total and dissolved) is presented below.

No detectable concentrations of BETX constituents were present in the samples collected from fourteen wells: Rand Stratum well HMW-50A and Main Sand wells HMW-25, HMW-26, HMW-27, HMW-28, HMW-29, HMW-39B, HMW-39C, HMW-40C, HMW-52C, MP-81C, MP-89A (screened in A Clay permeable lens), MP-89C, and MP-92D. BETX constituents were detected in samples from five wells:

EPA Stratum wells HMW-49B (screened in B/C clay) [631.7 micrograms per liter (µg/L)], HMW-49C (8,480 µg/L), and HMW-50B (0.7 J µg/L), and in Main Sand wells HMW-49D (97.4 J µg/L) and HMW-50C (160.1 µg/L and 174.9 µg/L). The "J" qualifier for the BETX concentration in sample HMW-49D is in reference to the concentrations of ethylbenzene (1.6 J µg/L) and toluene (4.7 J µg/L), and in sample HMW-50B is in reference to the concentration of benzene (0.7 µg/L), which are present at estimated concentrations below their reporting limits (5, 5 and 2 µg/L, respectively). None of the total BETX concentrations detected were above the comparison value (11,705 µg/L). Samples from four wells contained concentrations of benzene above the comparison value (5 µg/L): EPA Stratum wells HMW-49B (screened in B/C clay) (90.0 µg/L) and HMW-49C (1,010 µg/L) and Main Sand wells HMW-49D (84.4 µg/L) and HMW-50C (141 µg/L and 153 µg/L).

No detectable concentrations of MTBE were present in samples collected from sixteen wells: Rand Stratum well HMW-50A, EPA Stratum wells HMW-49B (screened in B/C clay) and HMW-50B, and Main Sand wells HMW-25 through HMW-29, HMW-39B, HMW-39C, HMW-40C, HMW-52C, MP-81C, MP-89A (screened in A Clay permeable lens), MP-89C, and MP-92D. Samples from two Main Sand wells, HMW-49D (44.4 µg/L) and HMW-50C (7.3 µg/L and 7.8 µg/L), contained concentrations of MTBE below the comparison value (70 µg/L). The sample from EPA Stratum well HMW-49C (152 µg/L) contained a concentration of MTBE above the comparison value (70 µg/L). Historically, MTBE has not been associated with the LNAPL in northern Hartford. In general, the presence of MTBE is sporadic and concentrations have historically decreased with increasing depth, as shown at well nest HMW-49.

A total of 13 metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, iron, lead, nickel, selenium, vanadium, and zinc) were detected in the samples from the 19 wells collected in April 2007. Four of the metals (arsenic, cadmium, iron, and lead) were present at concentrations above comparison values:

- Total arsenic was present above the comparison value [0.05 milligrams per liter (mg/L)] in samples from Main Sand Stratum wells HMW-40C (0.111 and 0.0829 mg/L) and MP-89C (0.0974 mg/L).
- Dissolved arsenic was present above the comparison value (0.05 mg/L) in the sample from Main Sand Stratum well MP-89C (0.0561 mg/L).
- Total cadmium was present above the comparison value (0.005 mg/L) in the sample from EPA Stratum well HMW-49C (0.0086 mg/L).

- Total iron was present in samples from eleven wells at concentrations above the comparison value 5 mg/L): EPA Stratum wells HMW-49B (screened in B/C clay) (29.5 mg/L), HMW-49C 13.0 mg/L) and HMW-50B (8.11 mg/L); and Main Sand Stratum wells HMW-26, HMW-29, HMW-40C, HMW-49D, HMW-50C, HMW-52C, MP-89C, and MP-92D (ranging from 11.2 to 45.1 mg/L).

- Dissolved iron was present in samples from ten wells at concentrations above the comparison value (5 mg/L): EPA Stratum wells HMW-49B (screened in B/C clay) (26.0 mg/L), HMW-49C (8.47 mg/L), and HMW-50B (6.58 mg/L); and Main Sand Stratum wells HMW-26, HMW-29, HMW-49D, HMW-50C, HMW-52C, MP-89C, and MP-92D (ranging from 6.29 to 33.1 mg/L).

- Total lead was present above the comparison value (0.0075 mg/L) in the sample from Main Sand Stratum well HMW-52C (0.0221 mg/L).

An evaluation of the Quality Assurance/Quality Control samples from this monitoring event revealed no concerns.

As part of the Site investigation, quarterly groundwater sampling of existing wells (without LNAPL) has been ongoing since December 2003. As wells were installed as part of investigative activities they were incorporated into the former quarterly monitoring program. The inclusive data set for December 2003 through April 2007 consists of a total of 107 different wells (63 Main Sand wells, 10 EPA Stratum wells, 30 Rand Stratum wells, and 4 North Olive Stratum wells). Summary tables presenting the previous four quarters of historic groundwater analytical results for BETX constituents and MTBE, metals (total and dissolved), and general chemistry and natural attenuation parameters, are presented in Appendix E for reference. Figures illustrating the historic summary of groundwater analytical results (benzene, MTBE, total BETX, total SVOCs, total lead, and dissolved lead) for each hydrostratigraphic unit, inclusive of the April 2007 quarterly results, are provided in Appendix F.

5.0 CONCLUSIONS

The second quarter 2007 groundwater gauging and sampling activities conducted in April focused on monitoring conditions along the perimeter of the dissolved phase plume. LNAPL was identified primarily in the combined EPA and Main Sand Strata (reference Appendix B). The extent of LNAPL in the combined EPA and Main Sand Strata was primarily north of East Maple Street, east of Illinois State Route 3 and south of Rand Avenue. The extent of LNAPL was limited to one well in the Rand Stratum (HMW-4), located in the northeast corner of the Site. No measurable LNAPL was present in the North

Olive Stratum or the Main Sand Stratum below the D Clay.

The conclusions drawn from the second quarter 2007 activities are consistent with Clayton's (2006) Dissolved Phase Groundwater Investigation Report. The extent of the dissolved phase hydrocarbon plume is defined within the available area of investigation.

The following findings are consistent with groundwater flow in the Main Sand, which, based on a review of both historical and April 2007 flow mapping data, has consistently been northerly though with a greater easterly component in April 2007:

- The groundwater analytical results along the southern and western boundaries of the interpreted extent of the ROST response did not indicate the presence of dissolved phase hydrocarbons.
- The groundwater analytical results along the northern and eastern boundaries of the Site indicated the presence of dissolved phase hydrocarbon concentrations above applicable groundwater comparison values.

6.0 RECOMMENDATIONS AND FUTURE ACTIVITIES

In general, routine quarterly monitoring began in January 2005 and included BETX, MTBE, Skinner List total metals, Skinner List dissolved metals, and general chemistry (other parameters such as SVOCs were also analyzed during this period). Natural attenuation parameters were included beginning in July 2005.

Based on the historical general chemistry and natural attenuation data, the HWG proposes to reduce the sampling frequency for these parameters from quarterly to annually (4th quarter only), commencing third quarter 2007. These modifications are based on the general consistency of groundwater concentration data over the course of monitoring. Future sampling of these parameters may be re-evaluated based on documented changes in groundwater concentration trends or the general conceptual site model.

An evaluation of the historical groundwater analytical results indicates that, of the Skinner List metal parameters, only arsenic and lead have exhibited concentrations above comparison values (TACO Tier 1 GROs for Class I Groundwater) on a consistent, non-sporadic basis. Therefore, it is proposed that future

quarterly monitoring groundwater samples be submitted for laboratory analysis of BETX, MTBE, arsenic (total and dissolved) and lead (total and dissolved).

The new parameter list is proposed for implementation during the next quarterly groundwater monitoring sampling event (currently scheduled for July 2007). This event will be conducted in accordance with the January 2006 Dissolved Phase Groundwater Investigation Report (Clayton, 2006). A well gauging event will also be conducted for the Hartford, Shell and Premcor groundwater monitoring wells at that time.

7.0 REFERENCES

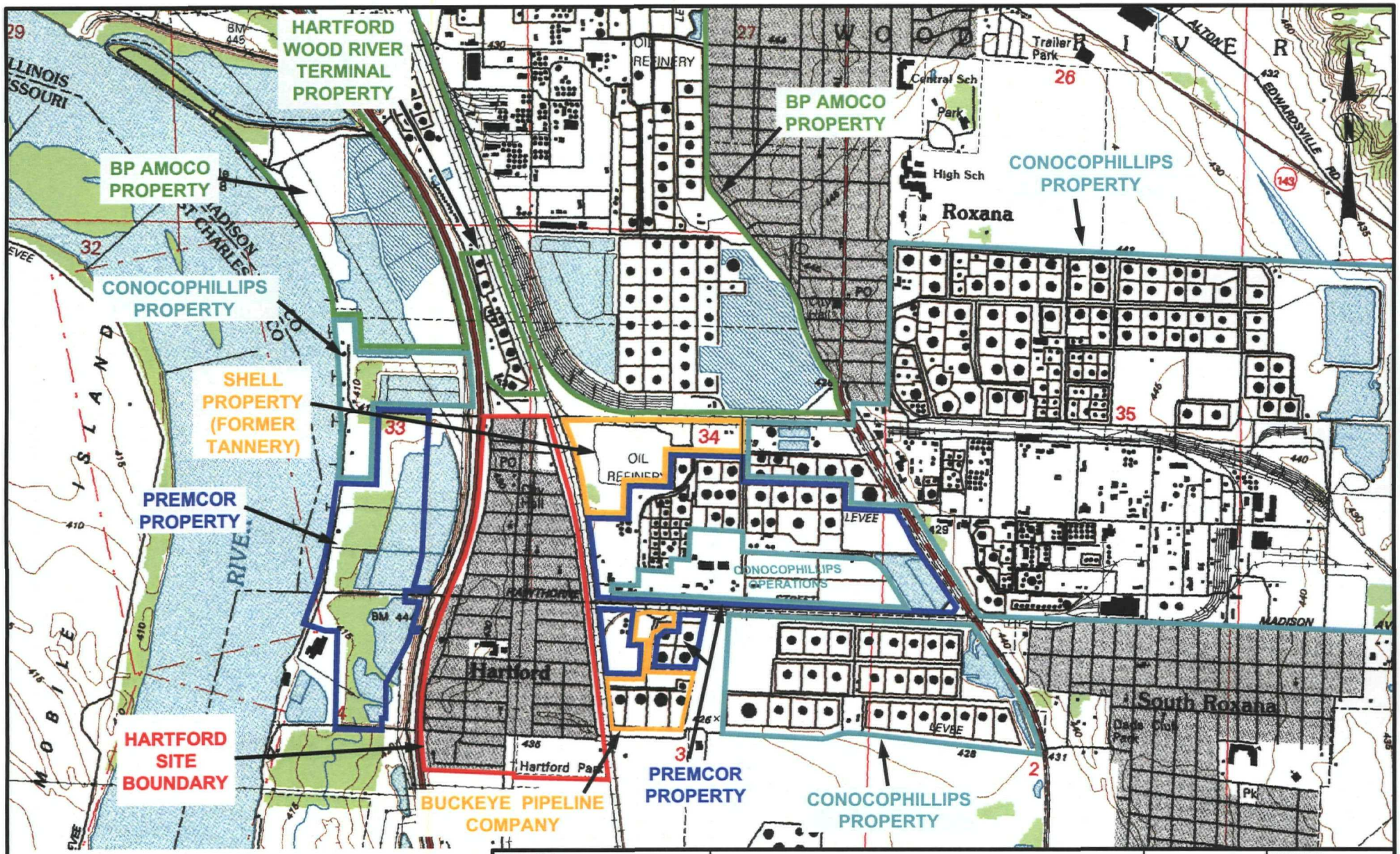
Clayton Group Services, Inc., December 15, 2005. *LNAPL Active Recovery System Conceptual Site Model, The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois.*

Clayton Group Services, Inc., January 4, 2006. *Dissolved Phase Groundwater Investigation Report for The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois.*

Illinois Pollution Control Board, 1997. *Tiered Approach to Corrective Action Objectives: 35 IAC Part 742.* Adopted rule, Final Order June 5, 1997. Last amended February 15, 2007.

United States Environmental Protection Agency, Region 5, Chicago, Illinois. *In the Matter of the Hartford Area Hydrocarbon Plume Site.* (Docket No. R7003-5-04-001).

FIGURES



** NOT TO SCALE **

SOURCE:
USGS 7.5 MINUTE SERIES TOPOGRAPHIC MAP
(WOOD RIVER, ILL.–MO. – rev.1994)

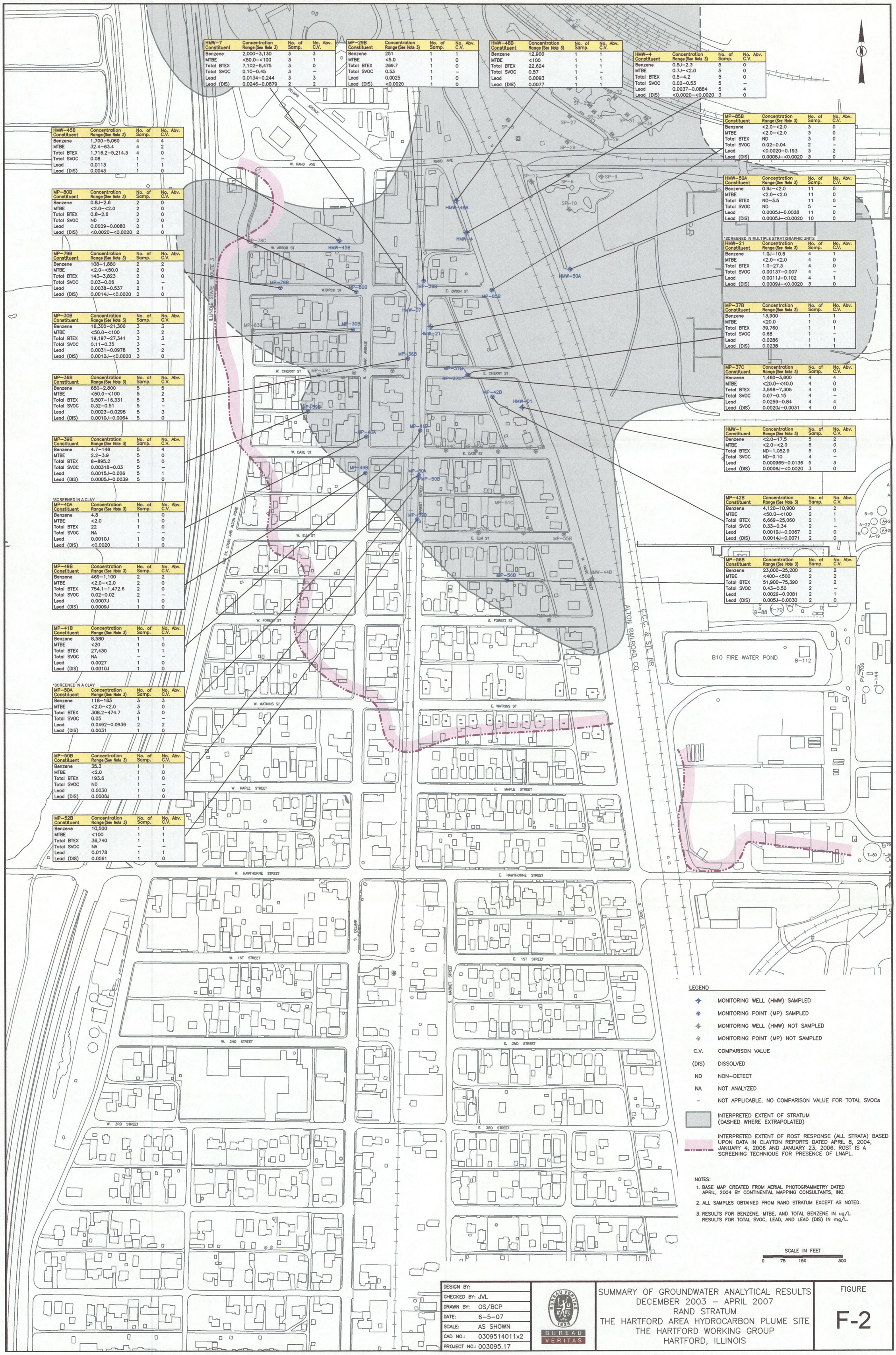
CHK BY	
DWN BY	BCP
DATE	8–8–06
SCALE	AS SHOWN
CAD NO.	0309512001B
PRJ NO.	15–03095.14

VILLAGE OF HARTFORD, IL
AND SURROUNDING AREA MAP

THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

BUREAU VERITAS

FIGURE
1



HMW-7 Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	2,000–3,130	3	3
MTBE	<50.0–<100	3	1
Total BTEX	7,102–8,475	3	0
Total SVOC	0.10–0.45	3	–
Lead	0.0134–0.244	3	3
Lead (DIS)	0.0246–0.0879	2	2

MP-29B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	251	1	1
MTBE	<5.0	1	0
Total BTEX	269.7	1	0
Total SVOC	0.53	1	–
Lead	0.0025	1	0
Lead (DIS)	<0.0020	1	0

HMW-48B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	12,900	1	1
MTBE	<100	1	1
Total BTEX	22,624	1	1
Total SVOC	0.57	1	–
Lead	0.0093	1	1
Lead (DIS)	0.0077	1	1

HMW-4 Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	0.5J–2.3	5	0
MTBE	0.7J–<2.0	5	0
Total BTEX	0.5–4.2	5	0
Total SVOC	0.02–0.53	5	–
Lead	0.0037–0.0884	5	4
Lead (DIS)	<0.0020–<0.0020	3	0

MP-85B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–<2.0	3	0
MTBE	<2.0–<2.0	3	0
Total BTEX	ND	3	0
Total SVOC	0.02–0.04	2	–
Lead	<0.0020–0.193	3	2
Lead (DIS)	0.0005J–<0.0020	3	0

HMW-50A Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	0.9J–<2.0	11	0
MTBE	<2.0–<2.0	11	0
Total BTEX	ND–3.5	11	0
Total SVOC	ND	5	–
Lead	0.0005J–0.0028	11	0
Lead (DIS)	0.0005J–<0.0020	10	0

*SCREENED IN MULTIPLE STRATIGRAPHIC UNITS

HMW-21 Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	1.0J–10.5	4	1
MTBE	<2.0–<2.0	4	0
Total BTEX	1.0–27.3	4	0
Total SVOC	0.00137–0.007	4	–
Lead	0.0011J–0.102	4	1
Lead (DIS)	0.0009J–<0.0020	3	0

MP-37B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	13,900	1	1
MTBE	<20.0	1	0
Total BTEX	39,760	1	1
Total SVOC	0.68	1	–
Lead	0.0286	1	1
Lead (DIS)	0.0238	1	1

MP-37C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	1,460–3,600	4	4
MTBE	<20.0–<40.0	4	0
Total BTEX	3,598–7,305	4	0
Total SVOC	0.07–0.15	4	–
Lead	0.0259–0.84	4	4
Lead (DIS)	0.0020J–0.0031	4	0

HMW-1 Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–17.5	5	2
MTBE	<2.0–<2.0	5	0
Total BTEX	ND–1,082.9	5	0
Total SVOC	ND–0.10	4	–
Lead	0.000965–0.0136	5	3
Lead (DIS)	0.0006J–<0.0020	3	0

MP-42B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	4,120–10,900	2	2
MTBE	<50.0–<100	2	1
Total BTEX	6,669–25,060	2	1
Total SVOC	0.33–0.34	2	–
Lead	0.0019J–0.0067	2	0
Lead (DIS)	0.0014J–0.0071	2	0

MP-56B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	23,000–25,200	2	2
MTBE	<400–<500	2	2
Total BTEX	51,900–75,390	2	2
Total SVOC	0.43–0.50	2	–
Lead	0.0029–0.0081	2	1
Lead (DIS)	0.005J–0.0030	2	0

HMW-45B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	1,700–5,060	4	4
MTBE	32.4–63.4	4	2
Total BTEX	1,716.2–5,214.3	4	0
Total SVOC	0.08	1	–
Lead	0.0113	1	1
Lead (DIS)	0.0043	1	0

MP-80B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	0.8J–2.6	2	0
MTBE	<2.0–<2.0	2	0
Total BTEX	0.8–2.6	2	0
Total SVOC	ND	2	0
Lead	0.0029–0.0080	2	1
Lead (DIS)	<0.0020–<0.0020	2	0

MP-79B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	108–1,880	2	2
MTBE	<2.0–<50.0	2	0
Total BTEX	143–3,823	2	0
Total SVOC	0.03–0.06	2	–
Lead	0.0038–0.537	2	1
Lead (DIS)	0.0014J–<0.0020	2	0

MP-30B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	16,300–21,300	3	3
MTBE	<50.0–<100	3	2
Total BTEX	19,197–27,341	3	3
Total SVOC	0.11–0.35	3	–
Lead	0.0031–0.0978	3	2
Lead (DIS)	0.0012J–<0.0020	3	0

MP-36B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	680–2,800	5	5
MTBE	<50.0–<100	5	2
Total BTEX	9,507–16,331	5	3
Total SVOC	0.32–0.51	5	–
Lead	0.0023–0.0295	5	3
Lead (DIS)	0.0010J–0.0064	5	0

MP-39B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	4.7–146	5	4
MTBE	2.2–3.9	5	0
Total BTEX	8–895.2	5	0
Total SVOC	0.0031B–0.03	5	–
Lead	0.0015J–0.026	5	1
Lead (DIS)	0.0005J–0.0039	5	0

*SCREENED IN A CLAY

MP-40A Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	4.8	1	0
MTBE	<2.0	1	0
Total BTEX	22	1	0
Total SVOC	NA	–	–
Lead	0.0010J	1	0
Lead (DIS)	<0.0020	1	0

MP-49B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	469–1,100	2	2
MTBE	<2.0–<2.0	2	0
Total BTEX	754.1–1,472.6	2	0
Total SVOC	0.02–0.02	2	–
Lead	0.0007J	1	0
Lead (DIS)	0.0009J	1	0

MP-41B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	8,580	1	1
MTBE	<20	1	0
Total BTEX	27,430	1	1
Total SVOC	NA	–	–
Lead	0.0027	1	0
Lead (DIS)	0.0010J	1	0

*SCREENED IN A CLAY

MP-50A Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	118–163	3	3
MTBE	<2.0–<2.0	3	0
Total BTEX	308.2–474.7	3	0
Total SVOC	0.05	1	–
Lead	0.0492–0.0939	2	2
Lead (DIS)	0.0031	1	0

MP-50B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	35.3	1	1
MTBE	<2.0	1	0
Total BTEX	193.6	1	0
Total SVOC	ND	1	–
Lead	0.0030	1	0
Lead (DIS)	0.0006J	1	0

MP-52B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	10,500	1	1
MTBE	<100	1	1
Total BTEX	36,740	1	1
Total SVOC	NA	–	–
Lead	0.0178	1	1
Lead (DIS)	0.0061	1	0

LEGEND

- MONITORING WELL (HMW) SAMPLED
- MONITORING POINT (MP) SAMPLED
- MONITORING WELL (HMW) NOT SAMPLED
- MONITORING POINT (MP) NOT SAMPLED
- C.V. COMPARISON VALUE
- (DIS) DISSOLVED
- ND NON–DETECT
- NA NOT ANALYZED
- – NOT APPLICABLE, NO COMPARISON VALUE FOR TOTAL SVOCs
- INTERPRETED EXTENT OF STRATUM (DASHED WHERE EXTRAPOLATED)
- INTERPRETED EXTENT OF ROST RESPONSE (ALL STRATA) BASED UPON DATA IN CLAYTON REPORTS DATED APRIL 8, 2004, JANUARY 4, 2006 AND JANUARY 23, 2006. ROST IS A SCREENING TECHNIQUE FOR PRESENCE OF LNAPL.

NOTES:

1. BASE MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.
2. ALL SAMPLES OBTAINED FROM RAND STRATUM EXCEPT AS NOTED.
3. RESULTS FOR BENZENE, MTBE, AND TOTAL BENZENE IN ug/L. RESULTS FOR TOTAL SVOC, LEAD, AND LEAD (DIS) IN mg/L.

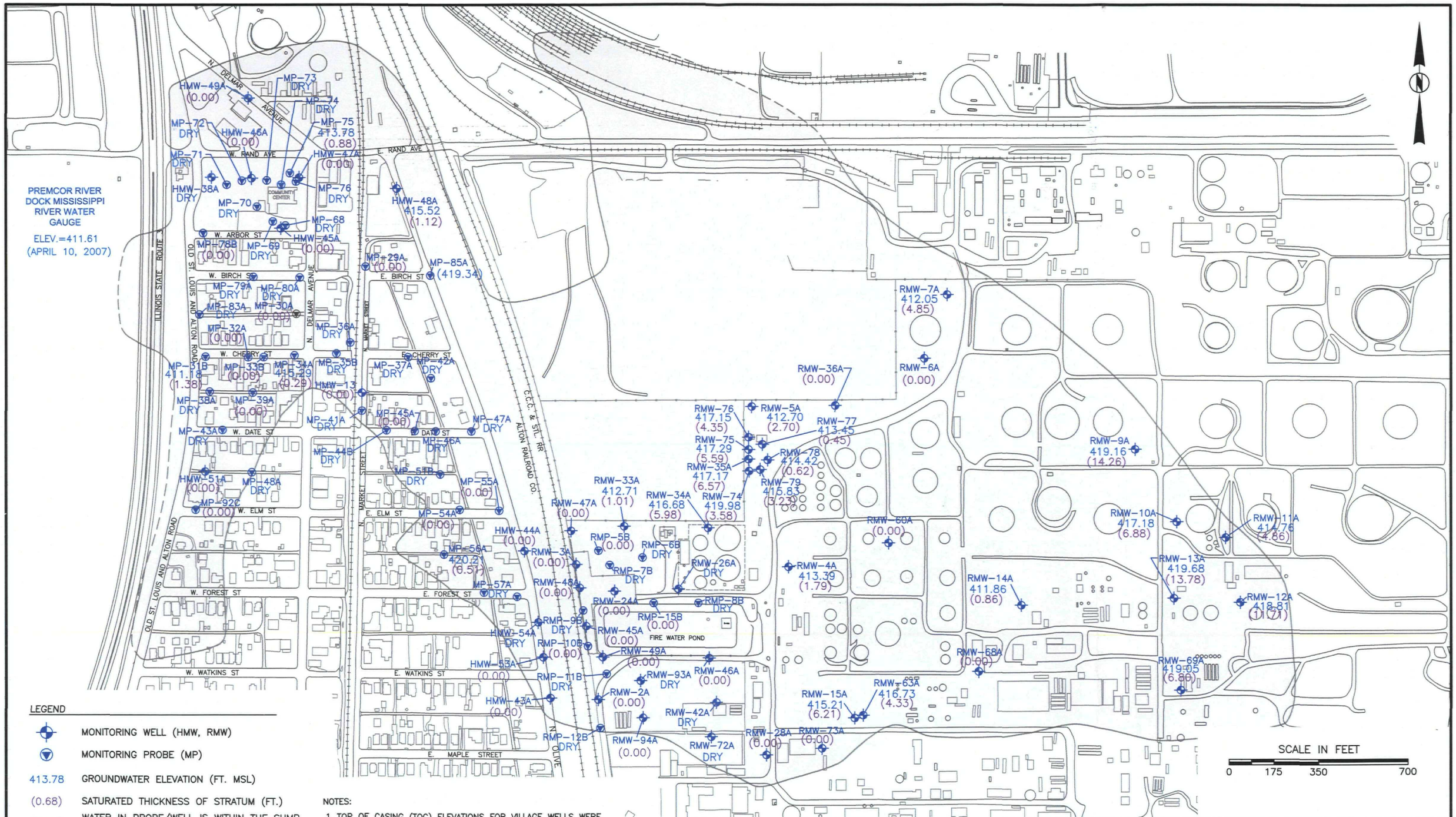
SCALE IN FEET
0 75 150 300

DESIGN BY:	
CHECKED BY:	JVL
DRAWN BY:	OS/BCP
DATE:	6–5–07
SCALE:	AS SHOWN
CAD NO.:	0309514011x2
PROJECT NO.:	003095.17

BUREAU VERITAS

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DECEMBER 2003 – APRIL 2007
RAND STRATUM
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

FIGURE
F-2



LEGEND

- MONITORING WELL (HMW, RMW)
- MONITORING PROBE (MP)
- 413.78 GROUNDWATER ELEVATION (FT. MSL)
- (0.68) SATURATED THICKNESS OF STRATUM (FT.)
- (0.00) WATER IN PROBE/WELL IS WITHIN THE SUMP OF WELL AND/OR BELOW BASE OF STRATUM
- (419.34) EXCLUDED WELLS: MP-85A
- INTERPRETED EXTENT OF STRATUM (DASHED WHERE EXTRAPOLATED)

NOTES:

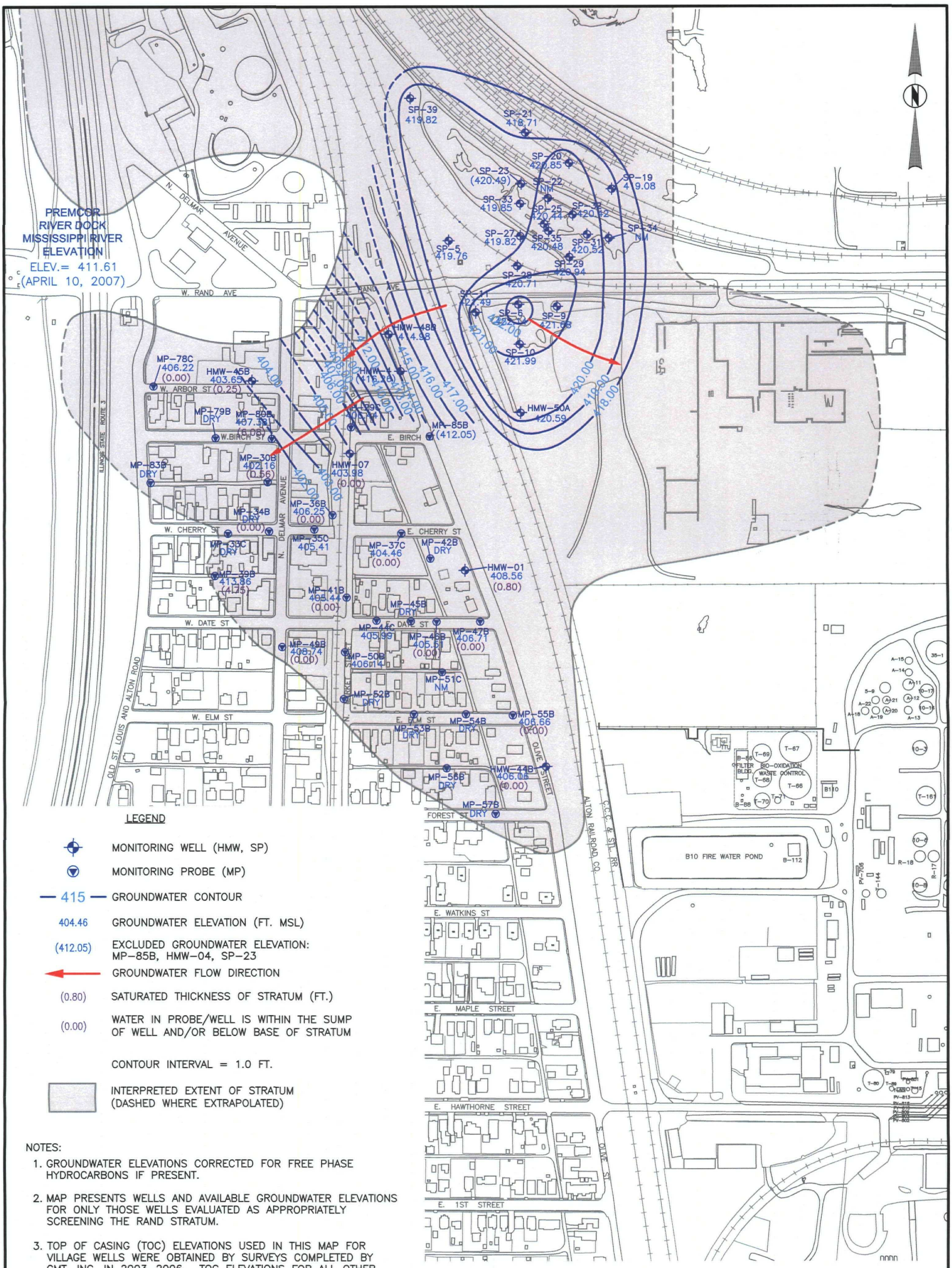
1. TOP OF CASING (TOC) ELEVATIONS FOR VILLAGE WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2003–2006. TOC ELEVATIONS FOR ALL PREMCOR FACILITY WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2004–2006. TOC ELEVATIONS FOR ALL OTHER WELLS WERE OBTAINED FROM HISTORICAL SURVEYS BY CMT, INC.
2. BASE MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.

CHECK BY	BAL
DRAWN BY	BCP
DATE	6–1–07
SCALE	AS SHOWN
CAD NO.	0309507e129a
PRJ NO.	003095.17

GROUNDWATER ELEVATION MAP
APRIL 10–11, 2007
NORTH OLIVE STRATUM
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

BUREAU VERITAS

FIGURE 3



LEGEND

- MONITORING WELL (HMW, SP)
- MONITORING PROBE (MP)
- 415 — GROUNDWATER CONTOUR
- 404.46 GROUNDWATER ELEVATION (FT. MSL)
- (412.05) EXCLUDED GROUNDWATER ELEVATION: MP-85B, HMW-04, SP-23
- GROUNDWATER FLOW DIRECTION
- (0.80) SATURATED THICKNESS OF STRATUM (FT.)
- (0.00) WATER IN PROBE/WELL IS WITHIN THE SUMP OF WELL AND/OR BELOW BASE OF STRATUM
- CONTOUR INTERVAL = 1.0 FT.
- INTERPRETED EXTENT OF STRATUM (DASHED WHERE EXTRAPOLATED)

NOTES:

1. GROUNDWATER ELEVATIONS CORRECTED FOR FREE PHASE HYDROCARBONS IF PRESENT.
2. MAP PRESENTS WELLS AND AVAILABLE GROUNDWATER ELEVATIONS FOR ONLY THOSE WELLS EVALUATED AS APPROPRIATELY SCREENING THE RAND STRATUM.
3. TOP OF CASING (TOC) ELEVATIONS USED IN THIS MAP FOR VILLAGE WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2003–2006. TOC ELEVATIONS FOR ALL OTHER WELLS WERE OBTAINED FROM HISTORICAL SURVEYS BY CMT, INC.
4. BASE MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.

SCALE IN FEET

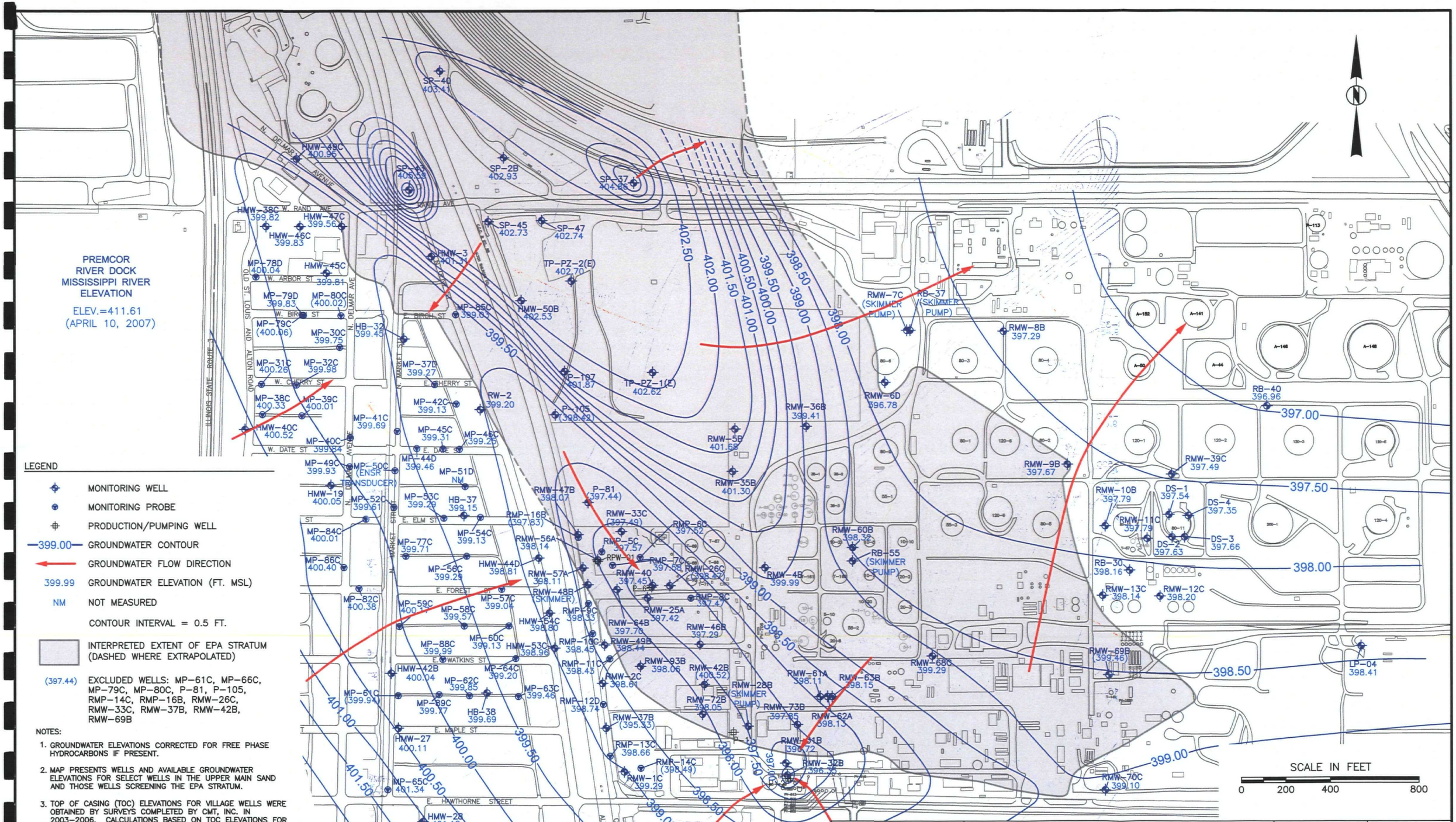
0 150 300 600

CHECK BY	BAL
DRAWN BY	BCP
DATE	6–1–07
SCALE	AS SHOWN
CAD NO.	0309507e130
PRJ NO.	003095.17

GROUNDWATER FLOW MAP
APRIL 10–11, 2007
RAND STRATUM
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

BUREAU VERITAS

FIGURE 4



LEGEND

- MONITORING WELL
- MONITORING PROBE
- PRODUCTION/PUMPING WELL
- 399.00 GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION
- 399.99 GROUNDWATER ELEVATION (FT. MSL)
- NM NOT MEASURED
- CONTOUR INTERVAL = 0.5 FT.
- INTERPRETED EXTENT OF EPA STRATUM (DASHED WHERE EXTRAPOLATED)
- (397.44) EXCLUDED WELLS: MP-61C, MP-66C, MP-79C, MP-80C, P-81, P-105, RMP-14C, RMP-16B, RMW-26C, RMW-33C, RMW-37B, RMW-42B, RMW-69B

NOTES:

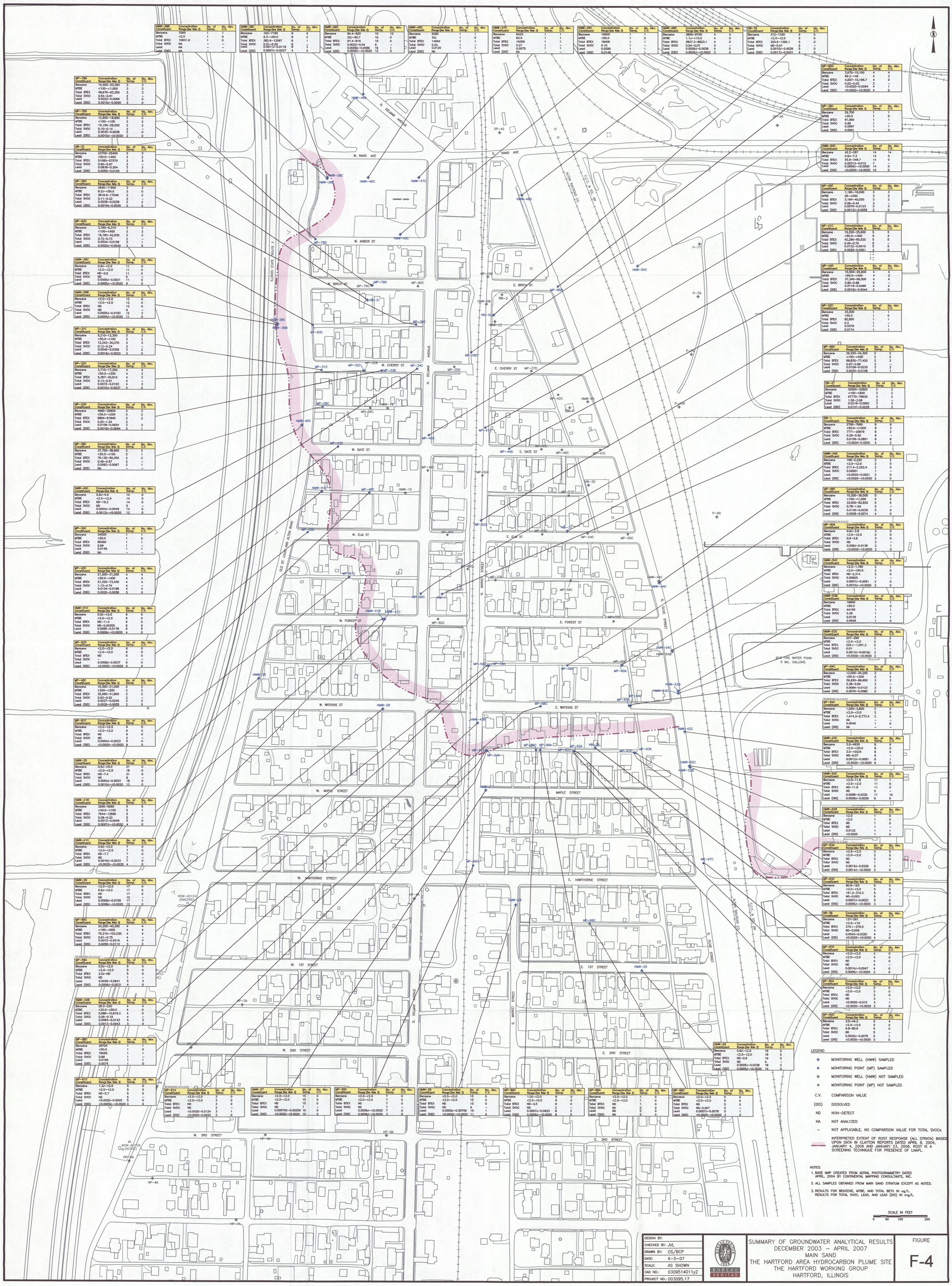
1. GROUNDWATER ELEVATIONS CORRECTED FOR FREE PHASE HYDROCARBONS IF PRESENT.
2. MAP PRESENTS WELLS AND AVAILABLE GROUNDWATER ELEVATIONS FOR SELECT WELLS IN THE UPPER MAIN SAND AND THOSE WELLS SCREENING THE EPA STRATUM.
3. TOP OF CASING (TOC) ELEVATIONS FOR VILLAGE WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2003–2006. CALCULATIONS BASED ON TOC ELEVATIONS FOR ALL PREMCOR FACILITY WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2004–2006. CALCULATIONS BASED ON TOC ELEVATIONS FOR ALL OTHER WELLS WERE OBTAINED FROM HISTORICAL SURVEYS BY CMT, INC.
4. BASE MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.
5. PRODUCTION WELL P-2 WAS OPERATING DURING THE GAUGING EVENT. OPERATION OF SHALLOW PUMPING WELL RPW-01 SWITCHED TO PRODUCTION WELL P-6 DURING THE GAUGING EVENT AT APPROXIMATELY 10:00 AM ON APRIL 10, 2007.

CHECK BY	BL
DRAWN BY	BCP
DATE	6-1-07
SCALE	AS SHOWN
CAD NO.	0309507e131
PRJ NO.	003095.25

GROUNDWATER FLOW MAP
APRIL 10–11, 2007
COMBINED EPA AND SHALLOW MAIN SAND STRATA
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

BUREAU VERITAS

FIGURE
5



HMW-36B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	7550	1	1
MTBE	<2.0	1	0
Total BTEX	10631.9	1	0
Total SVOC	NA	–	–
Lead	NA	–	–
Lead (DIS)	NA	–	–

HMW-38C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	193–7190	6	6
MTBE	6.3–<50.0	6	0
Total BTEX	382.6–12067	6	1
Total SVOC	0.01–0.20	5	–
Lead	0.0011J–0.0118	6	2
Lead (DIS)	0.0007J–0.0037	4	0

HMW-49D Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	84.4–620	15	15
MTBE	32J–80.7	15	0
Total BTEX	97.4–816	15	0
Total SVOC	0.0022–0.04	6	–
Lead	0.0008J–0.0086	15	1
Lead (DIS)	0.0005J–<0.0020	12	0

HMW-46C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	9290	1	1
MTBE	32J	1	0
Total BTEX	14554	1	1
Total SVOC	0.24	1	–
Lead	0.0120	1	1
Lead (DIS)	NA	–	–

HMW-47C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	8420	1	1
MTBE	83.5	1	1
Total BTEX	16306	1	1
Total SVOC	0.27	1	–
Lead	0.0075	1	1
Lead (DIS)	NA	–	–

HMW-45C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	16500	1	1
MTBE	<50.0	1	0
Total BTEX	18406	1	1
Total SVOC	0.15	1	–
Lead	0.0290	1	1
Lead (DIS)	0.0148	1	1

HMW-48D Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	3800–8750	4	4
MTBE	1.1J–<10.0	4	0
Total BTEX	3827.3–8523.1	4	0
Total SVOC	0.04–0.07	3	–
Lead	0.0009J–0.0036	4	0
Lead (DIS)	0.0005J–<0.0020	3	0

HB-32 Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	312–1330	5	5
MTBE	<2.0–<2.0	5	0
Total BTEX	325.5–1392.1	5	0
Total SVOC	ND–0.01	5	–
Lead	0.0010J–0.0039	5	0
Lead (DIS)	0.0017J–0.0031	4	0

MP-78D Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	15,400–20,300	3	3
MTBE	<100–<1,000	3	3
Total BTEX	48,970–83,350	3	3
Total SVOC	0.54–0.61	2	–
Lead	0.0023–0.0066	3	0
Lead (DIS)	0.0015J–0.0060	3	0

MP-79D Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	12,900–18,800	2	2
MTBE	<100–<100	2	2
Total BTEX	15,150–26,020	2	2
Total SVOC	0.10–0.14	2	–
Lead	0.0035–0.0038	2	0
Lead (DIS)	0.0010J–<0.0020	2	0

HB-31 Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	23700–25400	3	3
MTBE	<50.0–<400	3	2
Total BTEX	51080–57570	3	3
Total SVOC	0.60–0.67	3	–
Lead	0.0836–0.204	3	3
Lead (DIS)	0.0050–0.0163	3	2

MP-30C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	2640–11900	3	3
MTBE	8.2J–<50.0	3	0
Total BTEX	3818.9–17046	3	2
Total SVOC	0.11–0.22	3	–
Lead	0.0036–0.0239	3	2
Lead (DIS)	0.0016J–0.0045	2	0

MP-83C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	3,790–9,310	3	3
MTBE	<100–<400	3	3
Total BTEX	19,190–42,930	3	3
Total SVOC	0.72–0.73	2	–
Lead	0.0034–0.0159	3	1
Lead (DIS)	0.0020J–0.0040	3	0

HMW-39C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	0.6J–<2.0	11	0
MTBE	<2.0–<2.0	11	0
Total BTEX	ND–0.6	11	0
Total SVOC	ND	5	–
Lead	0.0005J–0.0021	11	0
Lead (DIS)	0.0005J–<0.0020	9	0

HMW-39B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–<2.0	12	0
MTBE	<2.0–<2.0	12	0
Total BTEX	ND	12	0
Total SVOC	ND	6	–
Lead	0.0005J–0.0183	12	3
Lead (DIS)	0.0004J–<0.0020	11	0

MP-31C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	5,210–12,300	3	3
MTBE	<50.0–<100	3	2
Total BTEX	12,342–30,370	3	3
Total SVOC	0.12–0.24	3	–
Lead	0.0040–0.0309	3	2
Lead (DIS)	0.0019J–0.0023	3	0

MP-32C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	2,710–17,200	4	4
MTBE	<50.0–<200	4	3
Total BTEX	5,387–30,810	4	3
Total SVOC	0.13–0.91	4	–
Lead	0.0072–0.0193	4	3
Lead (DIS)	0.0010J–0.0037	3	0

MP-33D Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	4980–25600	3	3
MTBE	<50.0–<200	3	2
Total BTEX	9894–61840	3	2
Total SVOC	0.20–1.24	3	–
Lead	0.0106–0.0654	3	3
Lead (DIS)	0.0016J–0.0094	3	1

MP-38C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	37,700–38,600	2	2
MTBE	<50.0–<100	2	1
Total BTEX	79,130–80,350	2	2
Total SVOC	0.49–0.57	2	–
Lead	0.0062–0.0097	2	1
Lead (DIS)	NA	–	–

HMW-40C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	0.6J–4.0	14	0
MTBE	<2.0–<2.0	14	0
Total BTEX	ND–19.2	14	0
Total SVOC	ND	5	–
Lead	0.0004J–0.0049	14	0
Lead (DIS)	0.0013J–<0.0020	12	0

MP-34C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	34000	1	1
MTBE	<50.0	1	0
Total BTEX	85080	1	1
Total SVOC	0.96	1	–
Lead	0.0149	1	1
Lead (DIS)	NA	–	–

MP-43C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	21,200–31,200	4	4
MTBE	<50.0–<400	4	3
Total BTEX	51,320–73,430	4	4
Total SVOC	1.13–4.74	4	–
Lead	0.0134–0.0188	4	4
Lead (DIS)	0.0020–0.0058	3	0

HMW-51C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	0.5J–<2.0	6	0
MTBE	<2.0–<2.0	6	0
Total BTEX	ND–11.4	6	0
Total SVOC	ND–0.00355	6	0
Lead	0.0085–0.0178	6	6
Lead (DIS)	0.0009J–<0.0020	4	0

MP-92D Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–<2.0	6	0
MTBE	<2.0–<2.0	6	0
Total BTEX	ND	6	0
Total SVOC	–	–	–
Lead	0.0008J–0.0037	6	0
Lead (DIS)	<0.0020–<0.0020	6	0

MP-48C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	10,300–21,000	2	2
MTBE	<200–<200	2	2
Total BTEX	32,960–41,800	2	2
Total SVOC	0.63–0.92	2	–
Lead	0.0227–0.0245	2	2
Lead (DIS)	0.0029–0.0055	2	0

MP-81C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–<2.0	9	0
MTBE	<2.0–<2.0	9	0
Total BTEX	ND	9	0
Total SVOC	ND	2	–
Lead	0.0004J–0.0023	9	0
Lead (DIS)	<0.0020–<0.0020	9	0

HMW-25 Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	0.5J–<5.0	21	0
MTBE	<2.0–<2.0	18	0
Total BTEX	ND–7.4	21	0
Total SVOC	ND	8	–
Lead	0.0004J–0.0053	18	0
Lead (DIS)	0.0010J–<0.0020	13	0

HMW-41B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	3290–5060	5	5
MTBE	<40.0–<100	5	1
Total BTEX	7944–12866	5	1
Total SVOC	0.08–0.20	5	–
Lead	0.0013–0.0048	5	0
Lead (DIS)	0.0007J–<0.0020	4	0

HMW-41C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	0.5J–<2.0	7	0
MTBE	<2.0–<2.0	7	0
Total BTEX	ND–7.7	7	0
Total SVOC	ND	7	–
Lead	0.0016J–0.0033	7	0
Lead (DIS)	<0.0020–<0.0020	4	0

HMW-26 Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–<2.0	17	0
MTBE	0.6J–<2.0	17	0
Total BTEX	ND	17	0
Total SVOC	ND	10	–
Lead	0.0006J–0.0159	17	1
Lead (DIS)	0.0008J–<0.0020	12	0

MP-59C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	24,200–40,300	4	4
MTBE	<100–<500	4	4
Total BTEX	70,210–103,230	4	4
Total SVOC	0.61–0.75	4	–
Lead	0.0072–0.0219	4	3
Lead (DIS)	0.0059–0.0112	3	2

*SCREENED IN A CLAY

MP-59A Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	0.5J–<2.0	5	0
MTBE	<2.0–<2.0	5	0
Total BTEX	2.0J–ND	5	0
Total SVOC	ND	1	–
Lead	0.0036–0.0641	5	3
Lead (DIS)	0.0006J–0.0031	4	0

HMW-42B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	28.0–220	4	4
MTBE	<20.0–<50.0	4	0
Total BTEX	5,588–10,818.2	4	0
Total SVOC	0.09–0.19	4	–
Lead	0.0064–0.0143	4	3
Lead (DIS)	0.0013–0.0043	3	0

MP-88C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	28700	1	1
MTBE	<50.0	1	0
Total BTEX	76050	1	1
Total SVOC	0.89	1	–
Lead	0.0166	1	1
Lead (DIS)	0.0074	1	0

MP-61C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	1.3J–<2.0	5	0
MTBE	<2.0–<2.0	5	0
Total BTEX	ND–5.7	5	0
Total SVOC	ND	5	–
Lead	<0.0020–0.0045	5	0
Lead (DIS)	<0.0005J–<0.0020	4	0

*SCREENED IN A CLAY

MP-61A Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–<2.0	3	0
MTBE	<2.0–<2.0	3	0
Total BTEX	ND	3	0
Total SVOC	ND	2	–
Lead	<0.0020–0.0124	3	1
Lead (DIS)	<0.0020–0.0020	3	0

HMW-27 Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–<2.0	15	0
MTBE	<2.0–<2.0	15	0
Total BTEX	ND	15	0
Total SVOC	ND	7	–
Lead	0.000792–0.00256	15	0
Lead (DIS)	<0.0020–<0.0020	10	0

MP-65C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–<2.0	7	0
MTBE	<2.0–<2.0	7	0
Total BTEX	ND	7	0
Total SVOC	ND	7	–
Lead	0.0009J–<0.0020	7	0
Lead (DIS)	0.0009J–<0.0020	3	0

HMW-28 Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–<2.0	15	0
MTBE	<2.0–<2.0	15	0
Total BTEX	ND	15	0
Total SVOC	ND	6	–
Lead	0.0005J–0.00759	15	1
Lead (DIS)	<0.0020–<0.0020	11	0

MP-89C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	1.0J–<2.0	8	0
MTBE	<2.0–<2.0	8	0
Total BTEX	ND–3.5	8	0
Total SVOC	ND	2	–
Lead	0.0007J–0.0623	8	2
Lead (DIS)	0.0009J–<0.0020	8	0

MP-89A Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–<2.0	1	0
MTBE	<2.0–<2.0	1	0
Total BTEX	ND	1	0
Total SVOC	NA	0	0
Lead	NA	0	0
Lead (DIS)	NA	0	0

MP-66C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–<2.0	5	0
MTBE	<2.0–<2.0	5	0
Total BTEX	ND	5	0
Total SVOC	ND–0.007	5	–
Lead	0.0007J–0.0078	5	1
Lead (DIS)	<0.0020–<0.0020	3	0

HMW-29 Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	0.6J–<2.0	19	0
MTBE	<2.0–<2.0	18	0
Total BTEX	ND–0.6	19	0
Total SVOC	ND	6	–
Lead	0.0005J–0.0238	18	2
Lead (DIS)	0.0005J–<0.0020	14	0

MP-85D Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	3,970–10,100	4	4
MTBE	69.2–146	4	3
Total BTEX	4,007–10,196.7	4	0
Total SVOC	0.02–0.02	3	–
Lead	<0.0020–0.0094	4	1
Lead (DIS)	<0.0020–<0.0020	4	0

MP-36C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	29,700	1	1
MTBE	<20.0	1	0
Total BTEX	61,860	1	1
Total SVOC	0.66	1	–
Lead	0.0097	1	1
Lead (DIS)	0.0051	1	0

HMW-50C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	42.2–287	14	14
MTBE	0.6J–7.3	14	0
Total BTEX	55.8–348.7	14	0
Total SVOC	0.00312–0.015	7	–
Lead	0.0006J–<0.0020	14	0
Lead (DIS)	<0.0020–<0.0020	10	0

MP-40C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	1,190–16,000	3	3
MTBE	29–<200	3	2
Total BTEX	3,184–40,030	3	2
Total SVOC	0.09–0.44	3	–
Lead	0.0079–0.0123	3	3
Lead (DIS)	0.0013J–0.0059	3	0

MP-41C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	16,200–25,900	5	5
MTBE	<50.0–<400	5	4
Total BTEX	42,290–65,520	5	5
Total SVOC	0.49–0.76	5	–
Lead	0.0132–0.0610	5	5
Lead (DIS)	0.0028–0.0061	4	0

MP-44D Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	15,500–25,900	4	4
MTBE	<50.0–<400	4	3
Total BTEX	37,340–66,000	4	4
Total SVOC	0.80–0.88	4	–
Lead	0.0119–0.0499	4	4
Lead (DIS)	0.0018J–0.0044	3	0

MP-52C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	33,200	1	1
MTBE	<50.0	1	0
Total BTEX	82,850	1	1
Total SVOC	0.2	1	–
Lead	0.0379	1	1
Lead (DIS)	0.0174	1	1

MP-86C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	29,200–34,300	2	2
MTBE	<100–<400	2	2
Total BTEX	68,830–77,420	2	2
Total SVOC	0.67–0.85	2	–
Lead	0.0159–0.0233	2	2
Lead (DIS)	0.0034–0.0108	2	1

HB-37 Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	30500–32800	3	3
MTBE	<100–<500	3	3
Total BTEX	67770–76930	3	3
Total SVOC	1.50–2.06	3	–
Lead	0.0219–0.0992	3	3
Lead (DIS)	0.0141–0.0228	3	3

RW-1 Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	2790–7660	8	8
MTBE	<50.0–<1000	8	3
Total BTEX	7771–20979	8	2
Total SVOC	0.26–0.50	8	–
Lead	0.0158–0.0851	8	8
Lead (DIS)	<0.0020–0.0202	4	2

HMW-44D Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	168–2,220	2	2
MTBE	<2.0–<2.0	2	0
Total BTEX	217.4–2,252.6	2	0
Total SVOC	0.00551	1	–
Lead	<0.0020–0.0021	2	0
Lead (DIS)	<0.0020–<0.0020	2	0

MP-58C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	15,200–38,500	5	5
MTBE	<100–<1,000	5	5
Total BTEX	33,630–82,820	5	5
Total SVOC	0.78–1.04	5	–
Lead	0.0130–0.0226	5	5
Lead (DIS)	0.0039–0.0074	4	0

*SCREENED IN A CLAY

MP-80A Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	0.9J–3.8	3	0
MTBE	<2.0–<2.0	3	0
Total BTEX	0.9–3.8	3	0
Total SVOC	ND	2	–
Lead	0.006J–0.0136	2	1
Lead (DIS)	<0.0020–<0.0020	2	0

HMW-54C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–1,760	2	1
MTBE	<2.0–<50.0	2	0
Total BTEX	ND–2,314	2	0
Total SVOC	0.00825	1	–
Lead	0.0007J–0.0051	2	0
Lead (DIS)	0.0010J–<0.0020	2	0

HMW-53B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	18600	1	1
MTBE	<50.0	1	0
Total BTEX	44160	1	1
Total SVOC	0.36	1	–
Lead	0.0135	1	1
Lead (DIS)	0.0046	1	0

HMW-53C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	207–299	2	2
MTBE	<2.0–<2.0	2	0
Total BTEX	226.1–1,001.2	2	0
Total SVOC	0.01	1	–
Lead	0.0013J–0.0016J	2	0
Lead (DIS)	<0.0020–<0.0020	2	0

MP-64C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	13,000–34,200	3	3
MTBE	<50.0–<200	3	2
Total BTEX	39,630–86,650	3	3
Total SVOC	0.38–0.54	3	–
Lead	0.0094–0.0123	3	3
Lead (DIS)	0.0079–0.0080	2	2

*SCREENED IN A CLAY

MP-84A Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	1,020–3,800	2	2
MTBE	<2.0–<2.0	2	0
Total BTEX	1,414.3–5,773.4	2	0
Total SVOC	NA	–	–
Lead	0.0040	1	0
Lead (DIS)	NA	–	–

HMW-43C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	3.0–4630	8	6
MTBE	<2.0–<20.0	8	0
Total BTEX	3.0–10234	8	0
Total SVOC	ND–0.07	6	–
Lead	0.0012J–0.0081	8	1
Lead (DIS)	<0.0020–<0.0020	6	0

HMW-52C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–11.8	11	1
MTBE	<2.0–<2.0	11	0
Total BTEX	ND–11.8	11	0
Total SVOC	ND	5	–
Lead	0.0068–0.0330	11	10
Lead (DIS)	0.0009J–0.0029	9	0

HMW-52B Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0	1	0
MTBE	<2.0	1	0
Total BTEX	ND	1	0
Total SVOC	ND	1	–
Lead	0.0122	1	1
Lead (DIS)	<0.0020	1	0

*SCREENED IN A CLAY

MP-63A Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–<2.0	2	0
MTBE	<2.0–<2.0	2	0
Total BTEX	ND	2	0
Total SVOC	ND	1	–
Lead	0.0015J–0.0330	2	1
Lead (DIS)	0.0014J–<0.0020	2	0

MP-63C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	90.9–193	5	5
MTBE	<2.0–<2.0	5	0
Total BTEX	191.3–315.2	5	0
Total SVOC	ND–0.003	5	–
Lead	0.0007J–0.0022	5	0
Lead (DIS)	0.0005J–<0.0020	3	0

HB-38 Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	137–261	4	4
MTBE	<2.0–<10	4	0
Total BTEX	270.1–376.5	4	0
Total SVOC	ND–0.005	4	–
Lead	0.0043–0.0320	4	3
Lead (DIS)	<0.0020–<0.0020	4	0

MP-67C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–<2.0	4	0
MTBE	<2.0–<2.0	4	0
Total BTEX	ND	4	0
Total SVOC	ND	4	–
Lead	0.0014J–0.0047	4	0
Lead (DIS)	0.0006J–<0.0020	3	0

*SCREENED IN A CLAY

MP-82A Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–<2.0	3	0
MTBE	<2.0–<2.0	3	0
Total BTEX	ND	3	0
Total SVOC	ND	3	–
Lead	<0.0020–0.010	3	1
Lead (DIS)	<0.0020–<0.0020	3	0

MP-82C Constituent	Concentration Range (See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	3.0–44.2	5	4
MTBE	<2.0–<2.0	5	0
Total BTEX	6.8–80.6	5	0
Total SVOC	ND	5	–
Lead	0.0020J–0.0075	5	1
Lead (DIS)	<0.0020–<0.0020	3	0

LEGEND

- MONITORING WELL (HMW) SAMPLED
- MONITORING POINT (MP) SAMPLED
- MONITORING WELL (HMW) NOT SAMPLED
- MONITORING POINT (MP) NOT SAMPLED
- C.V. COMPARISON VALUE
- (DIS) DISSOLVED
- ND NON-DETECT
- NA NOT ANALYZED
- – NOT APPLICABLE, NO COMPARISON VALUE FOR TOTAL SVOCs
- INTERPRETED EXTENT OF ROST RESPONSE (ALL STRATA) BASED UPON DATA IN CLAYTON REPORTS DATED APRIL 8, 2004, JANUARY 4, 2006 AND JANUARY 23, 2006. ROST IS A SCREENING TECHNIQUE FOR PRESENCE OF LNAPL.

NOTES:

1. BASE MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.
2. ALL SAMPLES OBTAINED FROM MAIN SAND STRATUM EXCEPT AS NOTED.
3. RESULTS FOR BENZENE, MTBE, AND TOTAL BETX IN ug/L. RESULTS FOR TOTAL SVOC, LEAD, AND LEAD (DIS) IN mg/L.

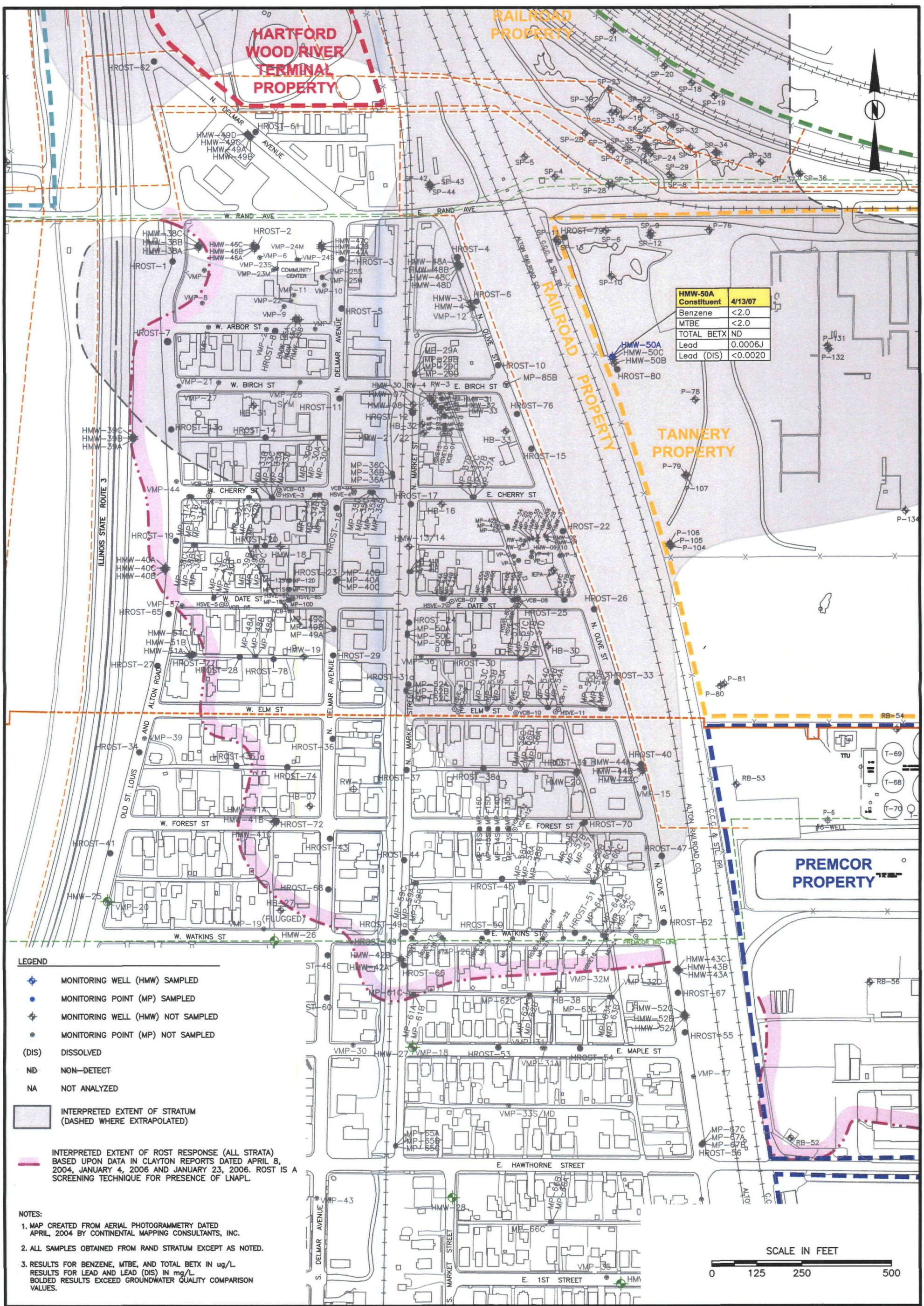
SCALE IN FEET
0 50 100 200

DESIGN BY:	
CHECKED BY:	JVL
DRAWN BY:	OS/BCP
DATE:	6-5-07
SCALE:	AS SHOWN
CAD NO.:	0309514011y2
PROJECT NO.:	003095.17

BUREAU VERITAS

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DECEMBER 2003 – APRIL 2007
MAIN SAND
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

FIGURE
F-4

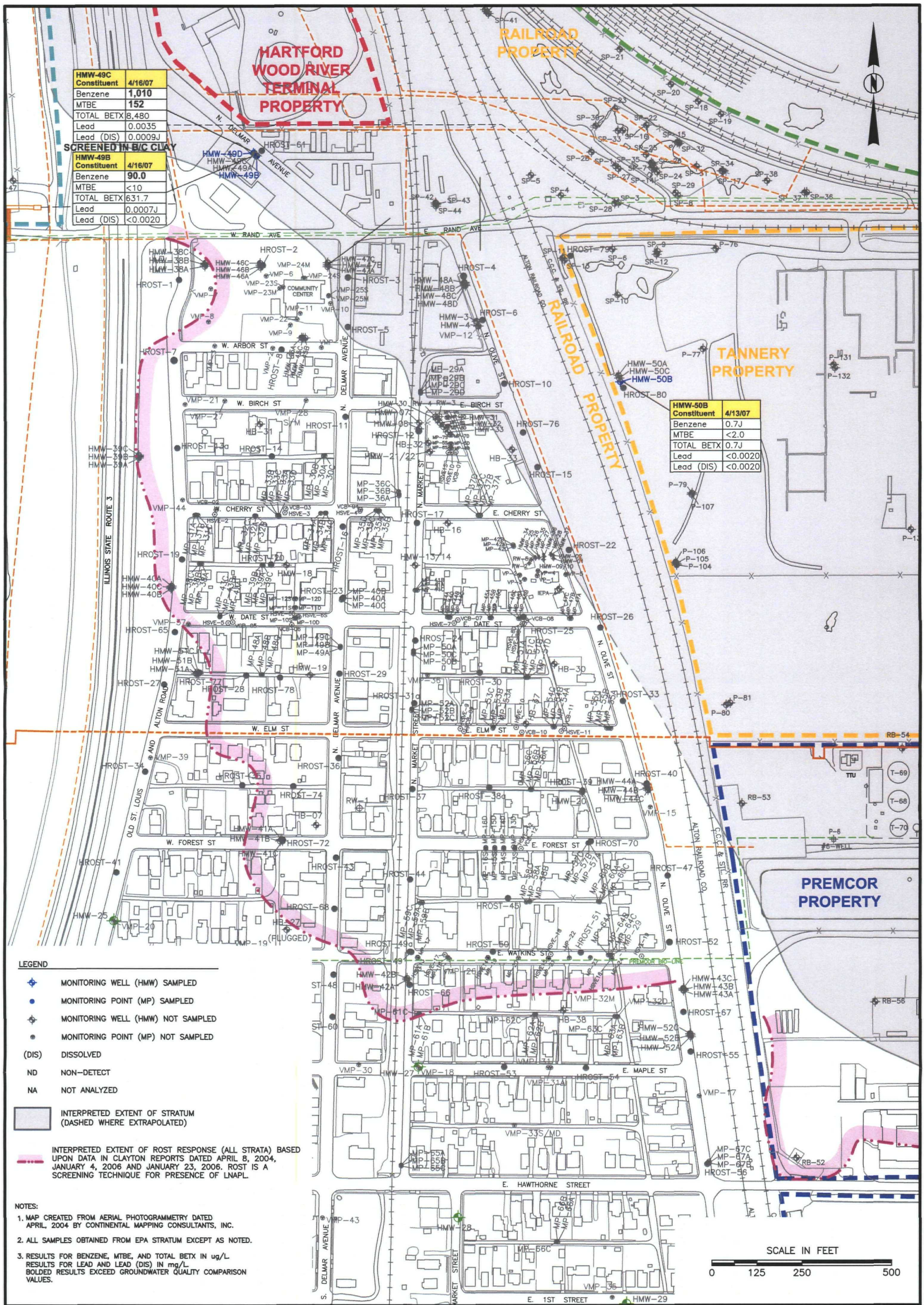


CHECK BY	KDC
DRAWN BY	SK/BCP
DATE	6-8-07
SCALE	AS SHOWN
CAD NO.	RAND_0407
PRJ NO.	003095.17

GROUNDWATER ANALYTICAL RESULTS
APRIL 2007
RAND STRATUM
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

BUREAU VERITAS

FIGURE 7

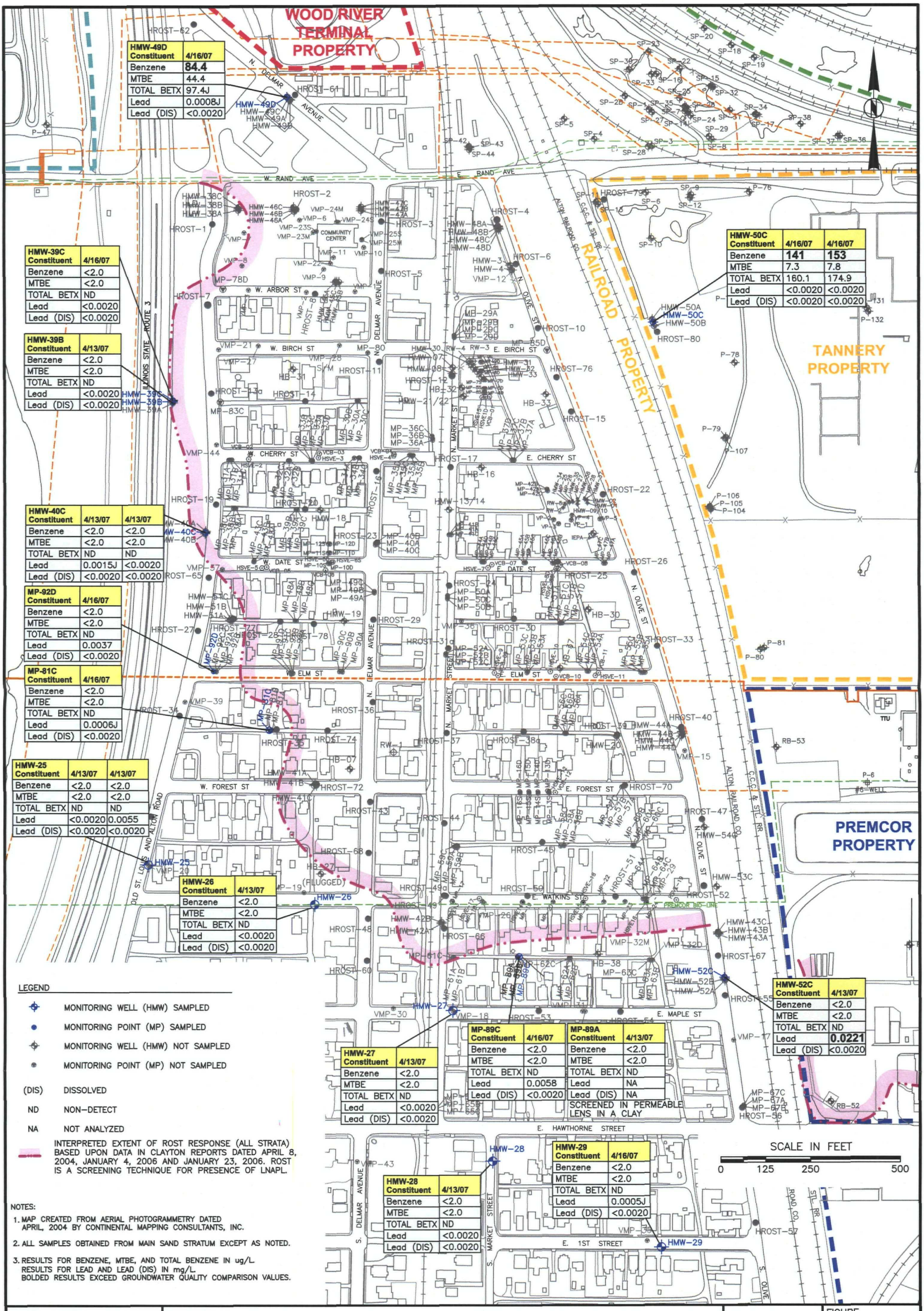


CHECK BY	KDC
DRAWN BY	SK/BCP
DATE	6-8-07
SCALE	AS SHOWN
CAD NO.	EPA_0407
PRJ NO.	003095.17

GROUNDWATER ANALYTICAL RESULTS
APRIL 2007
EPA STRATUM
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

BUREAU VERITAS

FIGURE 8



HMW-49D Constituent	4/16/07
Benzene	**84.4**
MTBE	44.4
TOTAL BETX	97.4J
Lead	0.0008J
Lead (DIS)	<0.0020

HMW-50C Constituent	4/16/07	4/16/07
Benzene	**141**	**153**
MTBE	7.3	7.8
TOTAL BETX	160.1	174.9
Lead	<0.0020	<0.0020
Lead (DIS)	<0.0020	<0.0020

HMW-39C Constituent	4/16/07
Benzene	<2.0
MTBE	<2.0
TOTAL BETX	ND
Lead	<0.0020
Lead (DIS)	<0.0020

HMW-39B Constituent	4/13/07
Benzene	<2.0
MTBE	<2.0
TOTAL BETX	ND
Lead	<0.0020
Lead (DIS)	<0.0020

HMW-40C Constituent	4/13/07	4/13/07
Benzene	<2.0	<2.0
MTBE	<2.0	<2.0
TOTAL BETX	ND	ND
Lead	0.0015J	<0.0020
Lead (DIS)	<0.0020	<0.0020

MP-92D Constituent	4/16/07
Benzene	<2.0
MTBE	<2.0
TOTAL BETX	ND
Lead	0.0037
Lead (DIS)	<0.0020

MP-81C Constituent	4/16/07
Benzene	<2.0
MTBE	<2.0
TOTAL BETX	ND
Lead	0.0006J
Lead (DIS)	<0.0020

HMW-25 Constituent	4/13/07	4/13/07
Benzene	<2.0	<2.0
MTBE	<2.0	<2.0
TOTAL BETX	ND	ND
Lead	<0.0020	0.0055
Lead (DIS)	<0.0020	<0.0020

HMW-26 Constituent	4/13/07
Benzene	<2.0
MTBE	<2.0
TOTAL BETX	ND
Lead	<0.0020
Lead (DIS)	<0.0020

HMW-52C Constituent	4/13/07
Benzene	<2.0
MTBE	<2.0
TOTAL BETX	ND
Lead	**0.0221**
Lead (DIS)	<0.0020

HMW-27 Constituent	4/13/07
Benzene	<2.0
MTBE	<2.0
TOTAL BETX	ND
Lead	<0.0020
Lead (DIS)	<0.0020

MP-89C Constituent	4/16/07
Benzene	<2.0
MTBE	<2.0
TOTAL BETX	ND
Lead	0.0058
Lead (DIS)	<0.0020

MP-89A Constituent	4/13/07
Benzene	<2.0
MTBE	<2.0
TOTAL BETX	ND
Lead	NA
Lead (DIS)	NA

SCREENED IN PERMEABLE LENS IN A CLAY

HMW-28 Constituent	4/13/07
Benzene	<2.0
MTBE	<2.0
TOTAL BETX	ND
Lead	<0.0020
Lead (DIS)	<0.0020

HMW-29 Constituent	4/16/07
Benzene	<2.0
MTBE	<2.0
TOTAL BETX	ND
Lead	0.0005J
Lead (DIS)	<0.0020

LEGEND

- MONITORING WELL (HMW) SAMPLED
- MONITORING POINT (MP) SAMPLED
- MONITORING WELL (HMW) NOT SAMPLED
- MONITORING POINT (MP) NOT SAMPLED
- (DIS) DISSOLVED
- ND NON-DETECT
- NA NOT ANALYZED
- INTERPRETED EXTENT OF ROST RESPONSE (ALL STRATA) BASED UPON DATA IN CLAYTON REPORTS DATED APRIL 8, 2004, JANUARY 4, 2006 AND JANUARY 23, 2006. ROST IS A SCREENING TECHNIQUE FOR PRESENCE OF LNAPL.

NOTES:

1. MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.
2. ALL SAMPLES OBTAINED FROM MAIN SAND STRATUM EXCEPT AS NOTED.
3. RESULTS FOR BENZENE, MTBE, AND TOTAL BENZENE IN ug/L. RESULTS FOR LEAD AND LEAD (DIS) IN mg/L. BOLDED RESULTS EXCEED GROUNDWATER QUALITY COMPARISON VALUES.

CHECK BY	KDC
DRAWN BY	SK
DATE	6-8-07
SCALE	AS SHOWN
CAD NO.	MAINSAND_0407
PRJ NO.	15-03095.17.001

GROUNDWATER ANALYTICAL RESULTS
APRIL 2007
MAIN SAND STRATUM
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

BUREAU VERITAS

FIGURE 9

TABLES

TABLE 1
APRIL 2007 GROUNDWATER SAMPLING WELL LIST
The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR000128249
The Hartford Working Group / Hartford, IL

WELL LOCATIONS	STRATUM SCREENED	SENTINEL WELL QUARTERLY SAMPLING[(a)]	QUARTERLY SAMPLING	ANNUAL SAMPLING
HMW-25	Main Sand	S		
HMW-26	Main Sand	S		
HMW-27	Main Sand	S		
HMW-28	Main Sand	S		
HMW-29	Main Sand	S		
HMW-38A	N. Olive			X
HMW-38B	B/C Clay (PL in B/C Clay)			X
HMW-38C	Main Sand			X
HMW-39A	Main Silt (Rand Horizon)		NS	
HMW-39B	Main Silt (Rand Horizon)		S	
HMW-39C	Main Sand		S	
HMW-40A	A Clay		NS	
HMW-40B	Main Sand		NS	
HMW-40C	Main Sand		S	
HMW-43A	N. Olive			X
HMW-43B	B/C Clay (PL in B/C Clay)			X
HMW-43C	Main Sand			X
HMW-44A	N. Olive			X
HMW-44B	Rand			X
HMW-44C	Main Sand			X
HMW-44D	Main Sand (below LNAPL)			X
HMW-45A	N. Olive			X
HMW-45B	Rand			X
HMW-45C	Main Sand			X
HMW-47A	N. Olive			X
HMW-47B	B/C Clay (PL in B/C Clay)			X
HMW-47C	Main Sand			X
HMW-48A	N. Olive			X
HMW-48B	Rand			X
HMW-48C	EPA			X
HMW-48D	Main Sand (below D Clay)			X
HMW-48E	NI			NI
HMW-49A	N. Olive		NS	
HMW-49B	B/C Clay (PL in B/C Clay)		S	
HMW-49C	EPA		S	
HMW-49D	Main Sand (below D Clay)		S	
HMW-50A	Rand		S	
HMW-50B	EPA		S	
HMW-50C	Main Sand (below D Clay)		S	
HMW-52A	Main Silt (N. Olive Horizon)		NS	
HMW-52B	Main Silt (Rand Horizon)		NS	
HMW-52C	Main Sand		S	
HMW-53A	N. Olive			X
HMW-53B	Main Silt (Rand Horizon) / Main Sand			X

TABLE 1
APRIL 2007 GROUNDWATER SAMPLING WELL LIST
The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR000128249
The Hartford Working Group / Hartford, IL

WELL LOCATIONS	STRATUM SCREENED	SENTINEL WELL QUARTERLY SAMPLING[a]	QUARTERLY SAMPLING	ANNUAL SAMPLING
HMW-53C	Main Sand (below LNAPL)			X
HMW-54A	N. Olive			X
HMW-54B	Main Sand			X
HMW-54C	Main Sand (below LNAPL)			X
HMW-55A	NI		NI	
HMW-55B	NI		NI	
HMW-55C	NI		NI	
HMW-55D	NI		NI	
HMW-56A	NI		NI	
HMW-56B	NI		NI	
HMW-56C	NI		NI	
HMW-56D	NI		NI	
HMW-56E	NI		NI	
MP-33A	A Clay			X
MP-33B	N. Olive			X
MP-33C	Rand			X
MP-33D	Main Sand			X
MP-40A	A Clay (PL in A Clay)			X
MP-40B	Main Silt (Rand Horizon)			X
MP-40C	Main Sand			X
MP-44A	A Clay			X
MP-44B	N. Olive			X
MP-44C	Rand			X
MP-44D	Main Sand			X
MP-48A	N. Olive			X
MP-48B	Main Silt (Rand Horizon)			X
MP-48C	Main Sand			X
MP-52A	A Clay (PL in A Clay)			X
MP-52B	Rand			X
MP-52C	Main Sand			X
MP-58A	A Clay			X
MP-58B	Main Silt (Rand Horizon)			X
MP-58C	Main Sand			X
MP-59A	A Clay			X
MP-59B	Main Silt (Rand Horizon)			X
MP-59C	Main Sand			X
MP-78A	A Clay			X
MP-78B	N. Olive			X
MP-78C	Rand			X
MP-78D	Main Sand			X
MP-81A	A Clay (PL in A Clay)		NS	
MP-81B	Main Silt (Rand Horizon)		NS	
MP-81C	Main Sand		S	
MP-83A	N. Olive			X
MP-83B	Rand			X

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The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR000128249
The Hartford Working Group / Hartford, IL

WELL LOCATIONS	STRATUM SCREENED	SENTINEL WELL QUARTERLY SAMPLING[(a)]	QUARTERLY SAMPLING	ANNUAL SAMPLING
MP-83C	Main Sand			X
MP-85A	N. Olive			X
MP-85B	Rand			X
MP-85C	EPA			X
MP-85D	Main Sand (below D Clay)			X
MP-86A	A Clay (PL in A Clay)			X
MP-86B	Main Silt (Rand Horizon)			X
MP-86C	Main Sand			X
MP-89A	A Clay (PL in A Clay)		S	
MP-89B	Main Silt (Rand Horizon)		NS	
MP-89C	Main Sand		S	
MP-92C	N. Olive		NS	
MP-92D	Main Silt (Rand Horizon) / Main Sand		S	

NOTES:
(a) = Sentinel Well Quarterly Sampling and Quarterly Sampling are reported under separate submittals, quarterly.
MP-92 A & B are probes which are not constructed to allow groundwater sampling.
S = Well sampled.
NS = Well not sampled due to being dry or containing an insufficient amount of water for sampling.
P = Well not sampled due to product present.
NI = Well proposed to be installed and included in future sampling.
PL = Permeable Lens

TABLE 2
SUMMARY OF 2007 QUARTERLY GROUNDWATER ELEVATIONS THROUGH APRIL
The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR 000128249
The Hartford Working Group / Hartford, Illinois

WELL	STRATUM SCREENED	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Do[1] (ft)	Piezometric Surface Elevation[2] (ft)
IEPA-4	Main Sand	01/09/07	430.35	34.10	34.94	396.25	395.41	0.84	0.06	396.06
		04/10/07	430.35	31.25	33.11	399.10	397.24	1.86	0.32	398.67
HB-07	Main Sand	--	432.32	PLUGGED	PLUGGED	PLUGGED	PLUGGED	PLUGGED	--	PLUGGED
HB-16	Main Sand	01/10/07	431.42	35.10	36.40	396.32	395.02	1.30	0.13	396.02
		04/10/07	431.42	31.79	32.76	399.63	398.66	0.97	0.08	399.41
HB-27	Main Sand	--	425.83	PLUGGED	PLUGGED	PLUGGED	PLUGGED	PLUGGED	--	PLUGGED
HB-30	Main Sand	01/09/07	431.08	34.80	NA	396.28	NA	0.25	0.02	NA
		04/10/07	431.08	31.87	32.86	399.21	398.22	0.99	0.08	398.98
HB-31	Main Sand	01/10/07	431.49	36.50	36.54	394.99	394.95	0.04	0.01	394.98
		04/11/07	431.49	31.89	31.95	399.60	399.54	0.06	0.01	399.59
HB-32	Main Sand	01/09/07	433.45	NA	37.60	NA	395.85	0.00	0.00	395.85
		04/10/07	433.45	NA	34.00	NA	399.45	0.00	0.00	399.45
HB-33	Rand/C Clay/EPA/	01/10/07	430.23	NA	32.44	NA	397.79	0.00	0.00	397.79
		04/10/07	429.46	NA	DRY	NA	--	0.00	0.00	
	D Clay/ Main Sand									
HB-37	Main Sand	01/10/07	431.77	35.64	35.86	396.13	395.91	0.22	0.02	396.08
		04/10/07	431.77	NA	32.62	NA	399.15	0.00	0.00	399.15
HB-38	Main Sand	01/09/07	429.92	NA	33.24	NA	396.68	0.00	0.00	396.68
		04/10/07	429.92	NA	30.23	NA	399.69	0.00	0.00	399.69
HMW-01	Rand	01/09/07	429.94	NA	22.64	NA	407.30	0.00	0.00	407.30
		04/10/07	429.94	NA	21.38	NA	408.56	0.00	0.00	408.56
HMW-02	Main Sand	01/09/07	429.65	33.91	35.23	395.74	394.42	1.32	0.13	395.44
		04/10/07	429.65	30.94	31.92	398.71	397.73	0.98	0.08	398.48
HMW-03	EPA	01/09/07	428.72	NA	30.87	NA	397.85	0.00	0.00	397.85
		04/10/07	428.72	NA	27.41	NA	401.31	0.00	0.00	401.31

TABLE 2
SUMMARY OF 2007 QUARTERLY GROUNDWATER ELEVATIONS THROUGH APRIL
The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR 000128249
The Hartford Working Group / Hartford, Illinois

WELL	STRATUM SCREENED	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Do[1] (ft)	Piezometric Surface Elevation[2] (ft)
HMW-04	Rand	01/09/07	428.96	15.97	15.99	412.99	412.97	0.02	0.01	412.99
		04/10/07	428.96	12.69	12.75	416.27	416.21	0.06	0.01	416.26
HMW-07	Rand	01/09/07	429.12	NA	25.24	NA	403.88	0.00	0.00	403.88
		04/10/07	429.12	NA	25.14	NA	403.98	0.00	0.00	403.98
HMW-08	Main Sand	01/09/07	429.74	33.66	34.77	396.08	394.97	1.11	0.07	395.82
		04/10/07	429.74	30.11	30.89	399.63	398.85	0.78	0.06	399.45
HMW-09	N. Olive/ B Clay/	01/09/07	430.23	NA	23.16	NA	407.07	0.00	0.00	407.07
		04/10/07	430.23	NA	23.18	NA	407.05	0.00	0.00	407.05
	Rand									
HMW-10	Main Sand	01/09/07	430.20	34.03	35.46	396.17	394.74	1.43	0.16	395.84
		04/10/07	430.20	31.00	31.65	399.20	398.55	0.65	0.05	399.05
HMW-13	N. Olive	01/09/07	430.81	NA	18.77	NA	412.04	0.00	0.00	412.04
		04/10/07	430.81	NA	18.76	NA	412.05	0.00	0.00	412.05
HMW-14	Rand/ C Clay/	01/10/07	430.86	34.36	35.70	396.50	395.16	1.34	0.13	396.19
		04/10/07	430.86	31.09	31.80	399.77	399.06	0.71	0.06	399.61
	Main Sand									
HMW-18	Main Sand	01/10/07	431.58	35.15	36.29	396.43	395.29	1.14	0.07	396.17
		04/10/07	431.58	31.75	32.22	399.83	399.36	0.47	0.04	399.72
HMW-19	Main Sand	01/10/07	431.80	35.11	36.22	396.69	395.58	1.11	0.07	396.43
		04/10/07	431.80	31.68	31.98	400.12	399.82	0.30	0.02	400.05
HMW-20	Rand/ C Clay/	01/09/07	430.65	34.55	35.31	396.10	395.34	0.76	0.06	395.93
		04/10/07	430.65	31.28	32.58	399.37	398.07	1.30	0.13	399.07
	Main Sand									
HMW-21	N. Olive/ B Clay/	01/09/07	430.05	NA	24.26	NA	405.79	0.00	0.00	405.79
		04/10/07	430.05	NA	23.08	NA	406.97	0.00	0.00	406.97
	Rand									
HMW-22	Main Sand	01/10/07	430.15	33.88	35.23	396.27	394.92	1.35	0.13	395.96
		04/10/07	430.15	30.64	30.99	399.51	399.16	0.35	0.02	399.43

TABLE 2
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WELL	STRATUM SCREENED	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Do (ft)	Piezometric Surface Elevation[2] (ft)
HMW-25	Main Sand	01/10/07	427.45	NA	29.84	NA	397.61	0.00	0.00	397.61
		04/10/07	427.45	NA	25.22	NA	402.23	0.00	0.00	402.23
HMW-26	Main Sand	01/10/07	425.20	NA	28.00	NA	397.20	0.00	0.00	397.20
		04/10/07	425.20	NA	24.57	NA	400.63	0.00	0.00	400.63
HMW-27	Main Sand	01/09/07	430.51	NA	34.40	NA	396.11	0.00	0.00	396.11
		04/10/07	430.51	NA	30.40	NA	400.11	0.00	0.00	400.11
(T 7/13/04-4/19/05)										
HMW-28	Main Sand	01/09/07	430.97	NA	33.38	NA	397.59	0.00	0.00	397.59
		04/10/07	430.97	NA	29.79	NA	401.18	0.00	0.00	401.18
HMW-29	Main Sand	01/09/07	429.99	NA	32.55	NA	397.44	0.00	0.00	397.44
		04/10/07	429.99	NA	29.79	NA	400.20	0.00	0.00	400.20
HMW-30	Rand/ C Clay/	01/09/07	430.07	34.07	34.87	396.00	395.20	0.80	0.05	395.82
		04/10/07	430.07	30.53	31.01	399.54	399.06	0.48	0.03	399.43
	Main Sand									
HMW-31	Rand/ C Clay/	01/09/07	430.09	34.08	34.95	396.01	395.14	0.87	0.06	395.81
		04/10/07	430.09	30.66	30.78	399.43	399.31	0.12	0.01	399.40
	Main Sand									
HMW-32	Rand/ C Clay/	01/09/07	430.01	34.03	34.63	395.98	395.38	0.60	0.04	395.84
		04/10/07	430.01	30.44	31.06	399.57	398.95	0.62	0.04	399.43
	Main Sand									
HMW-33	Rand/ C Clay/	01/09/07	430.13	34.05	35.16	396.08	394.97	1.11	0.05	395.82
		04/10/07	430.13	30.51	31.67	399.62	398.46	1.16	0.08	399.35
	Main Sand									
HMW-34	Rand/ C Clay/	01/09/07	429.83	33.60	35.02	396.23	394.81	1.42	0.16	395.90
		04/10/07	429.83	30.54	31.18	399.29	398.65	0.64	0.05	399.14
	Main Sand									
HMW-35	Rand/ C Clay/	01/09/07	429.81	33.59	34.99	396.22	394.82	1.40	0.16	395.90
		04/10/07	429.81	30.58	31.13	399.23	398.68	0.55	0.05	399.10
	Main Sand									
HMW-36	Rand/ C Clay/	01/09/07	429.91	33.70	34.91	396.21	395.00	1.21	0.10	395.93
		04/10/07	429.91	30.68	31.20	399.23	398.71	0.52	0.04	399.11
	Main Sand									

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WELL	STRATUM SCREENED	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Do (ft)	Piezometric Surface Elevation (ft)
HMW-37	Rand/ C Clay/	01/09/07	429.61	33.42	34.67	396.19	394.94	1.25	0.13	395.90
		04/10/07	429.61	30.41	31.15	399.20	398.46	0.74	0.06	399.03
	Main Sand									
HMW-38 A	N. Olive	01/10/07	430.06	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.06	NA	DRY	NA	--	0.00	0.00	--
HMW-38 B	B/C Clay	01/10/07	429.93	NA	25.13	NA	404.80	0.00	0.00	404.80
		04/10/07	429.93	NA	25.13	NA	404.80	0.00	0.00	404.80
(T 1/10/05-1/11/05)	(PL in B/C Clay)									
HMW-38 C	Main Sand	01/10/07	430.23	NA	34.41	NA	395.82	0.00	0.00	395.82
		04/10/07	430.23	NA	30.41	NA	399.82	0.00	0.00	399.82
(T 11/19/04)										
HMW-39 A	Main Silt	01/10/07	426.46	NA	20.35	NA	406.11	0.00	0.00	406.11
		04/10/07	426.46	NA	20.37	NA	406.09	0.00	0.00	406.09
	(Rand Horizon)									
HMW-39 B	Main Silt	01/10/07	426.55	NA	23.35	NA	403.20	0.00	0.00	403.20
		04/10/07	426.55	NA	22.89	NA	403.66	0.00	0.00	403.66
(T 1/12/05)	(Rand Horizon)									
HMW-39 C	Main Sand	01/10/07	426.28	NA	30.04	NA	396.24	0.00	0.00	396.24
		04/10/07	426.28	NA	25.91	NA	400.37	0.00	0.00	400.37
(T 1/11/05-4/20/05)										
HMW-40 A	A Clay	01/10/07	425.01	NA	12.96	NA	412.05	0.00	0.00	412.05
		04/10/07	425.01	NA	12.96	NA	412.05	0.00	0.00	412.05
HMW-40 B	Main Sand	01/10/07	424.86	NA	24.37	NA	400.49	0.00	0.00	400.49
		04/10/07	424.86	NA	24.34	NA	400.52	0.00	0.00	400.52
HMW-40 C	Main Sand	01/10/07	425.01	NA	28.62	NA	396.39	0.00	0.00	396.39
		04/10/07	425.01	NA	24.49	NA	400.52	0.00	0.00	400.52
(T 4/21/05)										
HMW-41 A	Main Silt	01/10/07	425.42	NA	17.80	NA	407.62	0.00	0.00	407.62
		04/10/07	425.42	NA	17.90	NA	407.52	0.00	0.00	407.52
	(Rand Horizon)									
HMW-41 B	Main Silt	01/10/07	425.62	NA	28.81	NA	396.81	0.00	0.00	396.81
		04/10/07	425.62	NA	25.40	NA	400.22	0.00	0.00	400.22
	(Rand Horizon)									
HMW-41 C	Main Sand	01/10/07	425.85	NA	29.04	NA	396.81	0.00	0.00	396.81
		04/10/07	425.85	NA	25.41	NA	400.44	0.00	0.00	400.44

TABLE 2
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The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR 000128249
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WELL	STRATUM SCREENED	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Do (ft)	Piezometric Surface Elevation[2] (ft)
HMW-42 A	Main Silt	01/09/07	431.39	NA	26.02	NA	405.37	0.00	0.00	405.37
		04/10/07	431.39	NA	26.05	NA	405.34	0.00	0.00	405.34
	(Rand Horizon)									
HMW-42 B	Main Sand	01/09/07	431.46	NA	34.49	NA	396.97	0.00	0.00	396.97
		04/10/07	431.46	NA	31.42	NA	400.04	0.00	0.00	400.04
HMW-43 A	N. Olive	01/09/07	428.73	NA	17.41	NA	411.32	0.00	0.00	411.32
		04/10/07	428.73	NA	17.43	NA	411.30	0.00	0.00	411.30
HMW-43 B	B/C Clay	01/09/07	428.63	NA	22.10	NA	406.53	0.00	0.00	406.53
		04/10/07	428.63	NA	22.12	NA	406.51	0.00	0.00	406.51
(T 1/11/05-1/11/05)	(PL in B/C Clay)									
HMW-43 C	Main Sand	01/09/07	428.96	NA	32.79	NA	396.17	0.00	0.00	396.17
		04/10/07	428.96	NA	29.90	NA	399.06	0.00	0.00	399.06
(T 1/11/05)										
HMW-44 A	N. Olive	01/09/07	429.47	NA	16.12	NA	413.35	0.00	0.00	413.35
		04/10/07	429.47	NA	16.07	NA	413.40	0.00	0.00	413.40
HMW-44 B	Rand	01/09/07	429.41	NA	23.41	NA	406.00	0.00	0.00	406.00
		04/10/07	429.41	NA	23.35	NA	406.06	0.00	0.00	406.06
HMW-44 C	Main Sand	01/09/07	428.38	32.16	33.97	396.22	394.41	1.81	0.25	395.80
		04/10/07	428.38	29.39	30.33	398.99	398.05	0.94	0.05	398.77
HMW-44 D	Main Sand	01/09/07	429.76	NA	33.98	NA	395.78	0.00	0.00	395.78
		04/10/07	429.76	NA	30.95	NA	398.81	0.00	0.00	398.81
(T 11/11/05)										
HMW-45 A	N. Olive	01/10/07	431.17	NA	17.51	NA	413.66	0.00	0.00	413.66
		04/11/07	431.17	NA	17.52	NA	413.65	0.00	0.00	413.65
HMW-45 B	Rand	01/10/07	431.22	NA	28.00	NA	403.22	0.00	0.00	403.22
		04/11/07	431.22	NA	27.57	NA	403.65	0.00	0.00	403.65
HMW-45 C	Main Sand	01/10/07	430.87	34.81	35.30	396.06	395.57	0.49	0.03	395.95
		04/11/07	430.87	30.90	31.58	399.97	399.29	0.68	0.05	399.81
HMW-46 A	N. Olive	01/10/07	430.51	NA	18.54	NA	411.97	0.00	0.00	411.97
		04/10/07	430.51	NA	17.56	NA	412.95	0.00	0.00	412.95

TABLE 2
SUMMARY OF 2007 QUARTERLY GROUNDWATER ELEVATIONS THROUGH APRIL
The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR 000128249
The Hartford Working Group / Hartford, Illinois

WELL	STRATUM SCREENED	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Do (ft)	Piezometric Surface Elevation[2] (ft)
HMW-46 B	B/C Clay	01/10/07	430.61	NA	24.80	NA	405.81	0.00	0.00	405.81
		04/10/07	430.61	NA	23.88	NA	406.73	0.00	0.00	406.73
	(PL in B/C Clay)									
HMW-46 C	Main Sand	01/10/07	430.49	34.60	34.67	395.89	395.82	0.07	0.01	395.87
		04/11/07	430.49	30.64	30.71	399.85	399.78	0.07	0.01	399.83
HMW-47 A	N. Olive	01/10/07	430.50	NA	19.29	NA	411.21	0.00	0.00	411.21
		04/10/07	430.50	NA	19.02	NA	411.48	0.00	0.00	411.48
HMW-47 B	B/C Clay	01/10/07	430.13	NA	20.55	NA	409.58	0.00	0.00	409.58
		04/10/07	430.13	NA	18.86	NA	411.27	0.00	0.00	411.27
	(PL in B/C Clay)									
HMW-47 C	Main Sand	01/10/07	430.61	34.84	35.01	395.77	395.60	0.17	0.01	395.73
		04/10/07	430.61	NA	31.05	NA	399.56	0.00	0.00	399.56
HMW-48 A	N. Olive	01/09/07	429.16	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.16	NA	13.64	NA	415.52	0.00	0.00	415.52
HMW-48 B	Rand	01/09/07	429.18	NA	16.21	NA	412.97	0.00	0.00	412.97
		04/10/07	429.18	NA	14.20	NA	414.98	0.00	0.00	414.98
HMW-48 C	EPA	01/09/07	429.02	31.50	31.83	397.52	397.19	0.33	0.02	397.44
		04/10/07	429.02	28.62	29.80	400.40	399.22	1.18	0.08	400.13
HMW-48 D	Main Sand	01/09/07	428.98	NA	33.29	NA	395.69	0.00	0.00	395.69
		04/10/07	428.98	NA	29.81	NA	399.17	0.00	0.00	399.17
	(below D Clay)									
HMW-49 A	N. Olive	01/10/07	430.21	NA	12.83	NA	417.38	0.00	0.00	417.38
		04/10/07	430.21	NA	12.87	NA	417.34	0.00	0.00	417.34
HMW-49 B	B/C Clay	01/10/07	430.23	NA	23.13	NA	407.10	0.00	0.00	407.10
		04/10/07	430.23	NA	22.70	NA	407.53	0.00	0.00	407.53
	(PL in B/C Clay)									
HMW-49 C	EPA	01/10/07	430.18	NA	32.59	NA	397.59	0.00	0.00	397.59
		04/10/07	430.18	NA	29.23	NA	400.95	0.00	0.00	400.95
(T 1/19/05)										
HMW-49 D	Main Sand	01/10/07	430.25	NA	34.48	NA	395.77	0.00	0.00	395.77
		04/10/07	430.25	NA	30.74	NA	399.51	0.00	0.00	399.51
(T 1/19/05)	(below D Clay)									

TABLE 2
SUMMARY OF 2007 QUARTERLY GROUNDWATER ELEVATIONS THROUGH APRIL
The Hartford Area Hydrocarbon Plume Site

1190505040 – Madison County – ILR 000128249
The Hartford Working Group / Hartford, Illinois

WELL	STRATUM SCREENED	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Do (ft)	Piezometric Surface Elevation[2] (ft)
HMW-50 A	Rand	01/09/07	434.43	NA	19.12	NA	415.31	0.00	0.00	415.31
		04/10/07	434.43	NA	13.84	NA	420.59	0.00	0.00	420.59
(T 1/11/05)										
HMW-50 B	EPA	01/09/07	434.43	NA	35.15	NA	399.28	0.00	0.00	399.28
		04/10/07	434.43	NA	31.90	NA	402.53	0.00	0.00	402.53
(T 1/7/05)										
HMW-50 C	Main Sand	01/09/07	434.28	NA	38.68	NA	395.60	0.00	0.00	395.60
		04/10/07	434.28	NA	35.75	NA	398.53	0.00	0.00	398.53
(T 1/7/05)	(below D Clay)									
HMW-51 A	N. Olive	01/10/07	425.46	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	425.46	NA	13.60	NA	411.86	0.00	0.00	411.86
HMW-51 B	Main Sand	01/10/07	425.51	NA	24.79	NA	400.72	0.00	0.00	400.72
		04/10/07	425.51	NA	24.71	NA	400.80	0.00	0.00	400.80
HMW-51 C	Main Sand	01/10/07	425.42	NA	28.79	NA	396.63	0.00	0.00	396.63
		04/10/07	425.42	NA	24.80	NA	400.62	0.00	0.00	400.62
HMW-52 A	Main Silt	01/09/07	427.80	NA	20.24	NA	407.56	0.00	0.00	407.56
		04/10/07	427.80	NA	20.26	NA	407.54	0.00	0.00	407.54
	(N. Olive Horizon)									
HMW-52 B	Main Silt	01/09/07	427.81	NA	26.70	NA	401.11	0.00	0.00	401.11
		04/10/07	427.81	NA	26.76	NA	401.05	0.00	0.00	401.05
	(Rand Horizon)									
HMW-52 C	Main Sand	01/09/07	427.83	NA	31.38	NA	396.45	0.00	0.00	396.45
		04/10/07	427.83	NA	28.64	NA	399.19	0.00	0.00	399.19
HMW-53 A	N. Olive	01/09/07	429.73	NA	15.72	NA	414.01	0.00	0.00	414.01
		04/10/07	429.73	NA	15.74	NA	413.99	0.00	0.00	413.99
HMW-53 B	Main Silt	01/09/07	429.76	33.39	34.60	396.37	395.16	1.21	0.10	396.09
		04/10/07	429.76	30.50	31.62	399.26	398.14	1.12	0.07	399.00
	(Rand Horizon)/									
	Main Sand									
HMW-53C	Main Sand	01/09/07	429.66	NA	33.62	NA	396.04	0.00	0.00	396.04
		04/10/07	429.66	NA	30.70	NA	398.96	0.00	0.00	398.96

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1190505040 -- Madison County -- ILR 000128249
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WELL	STRATUM SCREENED	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Do[1] (ft)	Piezometric Surface Elevation[2] (ft)
HMW-54 A	N. Olive	01/09/07	429.54	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.54	NA	DRY	NA	--	0.00	0.00	--
HMW-54 B	Main Sand	01/09/07	429.55	33.27	34.66	396.28	394.89	1.39	0.13	395.96
		04/10/07	429.55	30.43	31.82	399.12	397.73	1.39	0.13	398.80
HMW-54 C	Main Sand	01/09/07	429.56	NA	33.62	NA	395.94	0.00	0.00	395.94
		04/10/07	429.56	NA	30.76	NA	398.80	0.00	0.00	398.80
HP-01A	Main Sand	01/09/07	425.84	NA	26.90	NA	398.94	0.00	0.00	398.94
		04/10/07	425.84	NA	21.55	NA	404.29	0.00	0.00	404.29
(T 10/7/05)										
HP-01B	Main Sand	01/09/07	425.77	NA	26.81	NA	398.96	0.00	0.00	398.96
		04/10/07	425.77	NA	21.48	NA	404.29	0.00	0.00	404.29
	(Deep Nest Well)									
HP-01C	Main Sand	01/09/07	425.84	NA	26.89	NA	398.95	0.00	0.00	398.95
		04/10/07	425.84	NA	21.56	NA	404.28	0.00	0.00	404.28
	(Deep Nest Well)									
HP-02	Main Sand	01/09/07	429.92	NA	31.02	NA	398.90	0.00	0.00	398.90
		04/10/07	429.92	NA	25.78	NA	404.14	0.00	0.00	404.14
HP-03A	Main Sand	01/09/07	429.28	NA	30.55	NA	398.73	0.00	0.00	398.73
		04/10/07	429.28	NA	25.58	NA	403.70	0.00	0.00	403.70
(T 10/7/05)										
HP-03B	Main Sand	01/09/07	429.24	NA	30.56	NA	398.68	0.00	0.00	398.68
		04/10/07	429.24	NA	25.50	NA	403.74	0.00	0.00	403.74
	(Deep Nest Well)									
HP-03C	Main Sand	01/09/07	429.10	NA	30.39	NA	398.71	0.00	0.00	398.71
		04/10/07	429.10	NA	25.32	NA	403.78	0.00	0.00	403.78
	(Deep Nest Well)									
HP-04A	Main Sand	01/09/07	430.94	NA	33.04	NA	397.90	0.00	0.00	397.90
		04/10/07	430.94	NA	28.89	NA	402.05	0.00	0.00	402.05
HP-04B	Main Sand	01/09/07	430.94	NA	33.00	NA	397.94	0.00	0.00	397.94
		04/10/07	430.94	NA	28.82	NA	402.12	0.00	0.00	402.12
	(Deep Nest Well)									
HP-04C	Main Sand	01/09/07	430.96	NA	33.04	NA	397.92	0.00	0.00	397.92
		04/10/07	430.96	NA	28.79	NA	402.17	0.00	0.00	402.17
	(Deep Nest Well)									

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1190505040 -- Madison County -- ILR 000128249
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HP-05A	Main Sand	01/09/07	424.42	NA	25.52	NA	398.90	0.00	0.00	398.90
		04/10/07	424.42	NA	19.20	NA	405.22	0.00	0.00	405.22
HP-05B	Main Sand	01/09/07	424.58	NA	25.97	NA	398.61	0.00	0.00	398.61
		04/10/07	424.58	NA	19.43	NA	405.15	0.00	0.00	405.15
	(Deep Nest Well)									
HP-05C	Main Sand	01/09/07	424.43	NA	25.85	NA	398.58	0.00	0.00	398.58
		04/10/07	424.43	NA	19.25	NA	405.18	0.00	0.00	405.18
	(Deep Nest Well)									
HP-06	Main Sand	01/09/07	425.88	NA	26.84	NA	399.04	0.00	0.00	399.04
		04/10/07	425.88	NA	20.79	NA	405.09	0.00	0.00	405.09
HP-07	Main Sand	01/09/07	429.04	NA	29.78	NA	399.26	0.00	0.00	399.26
		04/10/07	429.04	NA	24.32	NA	404.72	0.00	0.00	404.72
HP-08	Main Sand	01/09/07	429.81	NA	31.03	NA	398.78	0.00	0.00	398.78
		04/10/07	429.81	NA	26.88	NA	402.93	0.00	0.00	402.93
HP-09	Main Sand	01/09/07	431.45	NA	32.76	NA	398.69	0.00	0.00	398.69
		04/10/07	431.45	NA	28.18	NA	403.27	0.00	0.00	403.27
MP-5S	A Clay	01/09/07	429.83	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.83	--	--	--	--	--	--	--
MP-5D	Rand	01/09/07	430.02	NA	24.29	NA	405.73	0.00	0.00	405.73
		04/10/07	430.02	--	--	--	--	--	--	--
MP-6S	A Clay	01/09/07	430.15	--	--	--	--	--	--	--
		04/10/07	430.15	--	--	--	--	--	--	--
MP-6D	Rand	01/09/07	430.13	--	--	--	--	--	--	--
		04/10/07	430.13	--	--	--	--	--	--	--
MP-7S	A Clay	01/09/07	430.17	--	--	--	--	--	--	--
		04/10/07	430.17	--	--	--	--	--	--	--
MP-7D	Rand	01/09/07	430.16	--	--	--	--	--	--	--
		04/10/07	430.16	--	--	--	--	--	--	--

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MP-8S	A. Clay	01/09/07	430.20	NA	7.10	NA	423.10	0.00	0.00	423.10
		04/10/07	430.20	NA	3.22	NA	426.98	0.00	0.00	426.98
MP-8D	Rand	01/09/07	430.14	NA	25.04	NA	405.10	0.00	0.00	405.10
		04/10/07	430.14	NA	23.69	NA	406.45	0.00	0.00	406.45
MP-9S	A Clay	01/09/07	430.05	NA	8.99	NA	421.06	0.00	0.00	421.06
		04/10/07	430.05	NA	9.07	NA	420.98	0.00	0.00	420.98
MP-9D	Rand	01/09/07	430.00	NA	23.78	NA	406.22	0.00	0.00	406.22
		04/10/07	430.00	22.45	22.98	407.55	407.02	0.53	0.03	407.43
MP-10S	A Clay	01/10/07	430.53	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.53	NA	DRY	NA	--	0.00	0.00	--
	(PL in A Clay)									
MP-10D	B/C Clay/ Main Silt	01/10/07	430.37	NA	20.20	NA	410.17	0.00	0.00	410.17
		04/10/07	430.37	NA	18.49	NA	411.88	0.00	0.00	411.88
	(Rand Horizon)									
MP-11S	A Clay	01/10/07	431.19	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	431.19	NA	DRY	NA	--	0.00	0.00	--
	(PL in A Clay)									
MP-11D	B/C Clay/ Main Silt	01/10/07	431.19	NA	20.79	NA	410.40	0.00	0.00	410.40
		04/10/07	431.19	NA	18.99	NA	412.20	0.00	0.00	412.20
	(Rand Horizon)									
MP-12S	A Clay	01/10/07	431.70	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	431.70	NA	DRY	NA	--	0.00	0.00	--
	(PL in A Clay)									
MP-12D	B Clay/ Rand/	01/10/07	431.63	NA	20.82	NA	410.81	0.00	0.00	410.81
		04/10/07	431.63	NA	18.79	NA	412.84	0.00	0.00	412.84
	C Clay									
MP-13S	A Clay	01/09/07	429.20	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.20	NA	8.18	NA	421.02	0.00	0.00	421.02
MP-13D	Main Silt	01/09/07	429.30	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.30	NA	27.37	NA	401.93	0.00	0.00	401.93
	(Rand Horizon)									
MP-14S	A Clay	01/09/07	429.51	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.51	NA	DRY	NA	--	0.00	0.00	--

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MP-14D	Main Silt	01/09/07	429.51	NA	26.82	NA	402.69	0.00	0.00	402.69
		04/10/07	429.51	NA	26.82	NA	402.69	0.00	0.00	402.69
	(Rand Horizon)									
MP-15S	A Clay	01/09/07	429.63	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.63	NA	DRY	NA	--	0.00	0.00	--
MP-15D	Main Silt	01/09/07	429.58	NA	26.77	NA	402.81	0.00	0.00	402.81
		04/10/07	429.58	NA	26.78	NA	402.80	0.00	0.00	402.80
	(Rand Horizon)									
MP-16S	A Clay	01/09/07	429.75	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.75	NA	DRY	NA	--	0.00	0.00	--
MP-16D	Main Silt	01/09/07	429.77	NA	27.60	NA	402.17	0.00	0.00	402.17
		04/10/07	429.77	NA	27.62	NA	402.15	0.00	0.00	402.15
	(Rand Horizon)									
MP-25	N. Olive/ B Clay/	01/09/07	429.71	NA	28.18	NA	401.53	0.00	0.00	401.53
		04/10/07	429.71	NA	26.90	NA	402.81	0.00	0.00	402.81
	Rand									
MP-26	N. Olive/ B Clay/	01/09/07	429.54	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.54	NA	25.78	NA	403.76	0.00	0.00	403.76
	Rand									
MP-27	N. Olive/ B Clay/	01/09/07	429.55	NA	28.69	NA	400.86	0.00	0.00	400.86
		04/10/07	429.55	NA	27.69	NA	401.86	0.00	0.00	401.86
	Rand									
MP-28	Rand	01/09/07	429.80	NA	25.02	NA	404.78	0.00	0.00	404.78
		04/10/07	429.80	NA	22.42	NA	407.38	0.00	0.00	407.38
MP-29 A	N. Olive	01/09/07	429.39	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.39	NA	11.86	NA	417.53	0.00	0.00	417.53
MP-29 B	Rand	01/09/07	429.43	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.43	NA	DRY	NA	--	0.00	0.00	--
MP-29 C	Rand	01/09/07	429.49	24.63	24.64	404.86	404.85	0.01	0.01	404.86
		04/10/07	429.49	NA	23.05	NA	406.44	0.00	0.00	406.44
MP-29 D	Main Sand	01/09/07	429.47	33.40	34.73	396.07	394.74	1.33	0.11	395.76
		04/10/07	429.47	29.80	31.15	399.67	398.32	1.35	0.11	399.36

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SUMMARY OF 2007 QUARTERLY GROUNDWATER ELEVATIONS THROUGH APRIL
The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR 000128249
The Hartford Working Group / Hartford, Illinois

WELL	STRATUM SCREENED	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Do (ft)	Piezometric Surface Elevation (ft)
MP-30 A	N. Olive	01/10/07	431.20	NA	18.46	NA	412.74	0.00	0.00	412.74
		04/10/07	431.20	NA	18.49	NA	412.71	0.00	0.00	412.71
MP-30 B	Rand	01/10/07	431.21	NA	29.37	NA	401.84	0.00	0.00	401.84
		04/10/07	431.21	NA	29.05	NA	402.16	0.00	0.00	402.16
MP-30 C	Main Sand	01/10/07	431.13	34.76	35.83	396.37	395.30	1.07	0.07	396.12
		04/10/07	431.13	31.24	31.85	399.89	399.28	0.61	0.05	399.75
MP-31 A	A Clay	01/10/07	426.71	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	426.71	NA	DRY	NA	--	0.00	0.00	--
MP-31 B	N. Olive	01/10/07	426.79	NA	15.78	NA	411.01	0.00	0.00	411.01
		04/10/07	426.79	NA	15.61	NA	411.18	0.00	0.00	411.18
MP-31 C	Main Sand	01/10/07	426.98	NA	30.80	NA	396.18	0.00	0.00	396.18
		04/10/07	426.98	NA	26.72	NA	400.26	0.00	0.00	400.26
MP-32 A	N. Olive	01/10/07	429.68	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.68	NA	13.94	NA	415.74	0.00	0.00	415.74
MP-32 B	Main Sand	01/10/07	429.68	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.68	NA	30.00	NA	399.68	0.00	0.00	399.68
MP-32 C	Main Sand	01/10/07	429.72	NA	33.60	NA	396.12	0.00	0.00	396.12
		04/10/07	429.72	NA	29.74	NA	399.98	0.00	0.00	399.98
MP-33 A	A Clay	01/10/07	430.05	--	--	--	--	--	--	--
		04/10/07	430.05	NA	9.59	NA	420.46	0.00	0.00	420.46
MP-33 B	N. Olive	01/10/07	430.09	--	--	--	--	--	--	--
		04/10/07	430.09	NA	14.09	NA	416.00	0.00	0.00	416.00
MP-33 C	Rand	01/10/07	430.09	--	--	--	--	--	--	--
		04/10/07	430.09	NA	DRY	NA	--	0.00	0.00	--
MP-33 D	Main Sand	01/10/07	430.09	--	--	--	--	--	--	--
		04/10/07	430.09	NA	30.20	NA	399.89	0.00	0.00	399.89

TABLE 2
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MP-34 A	N. Olive	01/10/07	430.97	ENSR Transducer Present						
		04/10/07	430.97	NA	15.68	NA	415.29	0.00	0.00	415.29
MP-34 B	Rand	01/10/07	430.70	ENSR Transducer Present						
		04/10/07	430.70	**NA**	**DRY**	NA	--	0.00	0.00	--
MP-34 C	Main Sand	01/10/07	430.88	ENSR Transducer Present						
		04/11/07	430.88	30.82	30.88	400.06	400.00	0.06	0.01	400.05
MP-35 A	A Clay	01/10/07	430.36	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.36	NA	DRY	NA	--	0.00	0.00	--
MP-35 B	N. Olive	01/10/07	430.41	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.41	NA	DRY	NA	--	0.00	0.00	--
MP-35 C	Rand	01/10/07	430.44	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.44	NA	25.03	NA	405.41	0.00	0.00	405.41
MP-35 D	Main Sand	01/10/07	430.43	34.18	35.53	396.25	394.90	1.35	0.16	395.94
		04/10/07	430.43	30.63	31.46	399.80	398.97	0.83	0.06	399.61
MP-36 A	N. Olive	01/10/07	431.91	--	--	--	--	--	--	--
		04/10/07	431.91	NA	DRY	NA	--	0.00	0.00	--
MP-36 B	Rand	01/10/07	431.94	NA	26.37	NA	405.57	0.00	0.00	405.57
		04/10/07	431.94	NA	25.69	NA	406.25	0.00	0.00	406.25
MP-36C	Main Sand	01/10/07	431.99	35.70	36.84	396.29	395.15	1.14	0.07	396.03
		04/10/07	431.99	--	--	--	--	--	--	--
MP-37 A	N. Olive	01/09/07	429.01	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.01	NA	DRY	NA	--	0.00	0.00	--
MP-37 B	Rand	01/09/07	428.99	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	428.99	NA	DRY	NA	--	0.00	0.00	--
MP-37 C	C Clay	01/09/07	429.07	25.53	25.54	403.54	403.53	0.01	0.01	403.54
		04/10/07	429.07	NA	24.61	NA	404.46	0.00	0.00	404.46
	(PL in Clay)									

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MP-37 D	Main Sand	01/09/07	429.04	32.09	34.37	396.95	394.67	2.28	0.44	396.43
		04/10/07	429.04	29.49	30.72	399.55	398.32	1.23	0.10	399.27
MP-38 A	N. Olive	01/10/07	427.17	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	427.17	NA	DRY	NA	--	0.00	0.00	--
MP-38 B	Main Silt	01/10/07	427.03	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	427.03	NA	DRY	NA	--	0.00	0.00	--
	(Rand Horizon)									
MP-38 C	Main Sand	01/10/07	426.91	29.96	32.43	396.95	394.48	2.47	0.50	396.38
		04/10/07	426.91	NA	26.58	NA	400.33	0.00	0.00	400.33
MP-39 A	N. Olive	01/10/07	432.09	NA	12.80	NA	419.29	0.00	0.00	419.29
		04/10/07	432.09	NA	12.80	NA	419.29	0.00	0.00	419.29
MP-39 B	Rand	01/10/07	432.07	NA	21.32	NA	410.75	0.00	0.00	410.75
		04/10/07	432.07	NA	18.21	NA	413.86	0.00	0.00	413.86
MP-39 C	Main Sand	01/10/07	432.07	35.47	37.10	396.60	394.97	1.63	0.22	396.23
		04/10/07	432.07	31.84	32.79	400.23	399.28	0.95	0.07	400.01
MP-40 A	A Clay	01/10/07	431.02	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	431.02	NA	DRY	NA	--	0.00	0.00	--
	(PL in A Clay)									
MP-40 B	Main Silt	01/10/07	431.04	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	431.04	NA	DRY	NA	--	0.00	0.00	--
	(Rand Horizon)									
MP-40 C	Main Sand	01/10/07	431.04	34.41	35.87	396.63	395.17	1.46	0.19	396.29
		04/10/07	431.04	NA	31.20	NA	399.84	0.00	0.00	399.84
MP-41 A	N. Olive	01/09/07	431.24	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	431.24	NA	DRY	NA	--	0.00	0.00	--
MP-41 B	Rand	01/09/07	431.23	NA	25.80	NA	405.43	0.00	0.00	405.43
		04/10/07	431.23	NA	25.79	NA	405.44	0.00	0.00	405.44
MP-41 C	Main Sand	01/09/07	431.08	34.76	35.86	396.32	395.22	1.10	0.07	396.07
		04/11/07	431.08	31.36	31.49	399.72	399.59	0.13	0.01	399.69

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MP-42 A	N. Olive	01/09/07	430.21	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.21	NA	17.78	NA	412.43	0.00	0.00	412.43
MP-42 B	Rand	01/09/07	430.20	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.20	NA	DRY	NA	--	0.00	0.00	--
MP-42 C	Main Sand	01/10/07	430.32	34.11	35.44	396.21	394.88	1.33	0.13	395.90
		04/10/07	430.32	30.94	32.04	399.38	398.28	1.10	0.07	399.13
MP-43 A	N. Olive	01/10/07	426.75	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	426.75	NA	DRY	NA	--	0.00	0.00	--
MP-43 B	Main Silt	01/10/07	426.72	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	426.72	NA	DRY	NA	--	0.00	0.00	--
	(Rand Horizon)									
MP-43 C	Main Silt	01/10/07	426.39	NA	29.92	NA	396.47	0.00	0.00	396.47
		04/10/07	426.39	NA	25.98	NA	400.41	0.00	0.00	400.41
	(Rand Horizon)/ Main Sand									
MP-44 A	A Clay	01/09/07	430.64	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.64	NA	DRY	NA	--	0.00	0.00	--
MP-44 B	N. Olive	01/09/07	430.54	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.54	NA	DRY	NA	--	0.00	0.00	--
MP-44 C	Rand	01/09/07	430.54	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.54	NA	24.55	NA	405.99	0.00	0.00	405.99
MP-44 D	Main Sand	01/09/07	430.62	34.27	35.65	396.35	394.97	1.38	0.16	396.03
		04/10/07	430.62	31.07	31.48	399.55	399.14	0.41	0.03	399.46
MP-45 A	N. Olive	01/09/07	430.04	NA	12.75	NA	417.29	0.00	0.00	417.29
		04/10/07	430.04	NA	12.73	NA	417.31	0.00	0.00	417.31
MP-45 B	Rand	01/09/07	430.04	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.04	NA	DRY	NA	--	0.00	0.00	--

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MP-45 C	Main Sand	01/09/07	429.93	33.59	35.25	396.34	394.68	1.66	0.25	395.96
		04/10/07	429.93	NA	30.62	NA	399.31	0.00	0.00	399.31
MP-46 A	N. Olive	01/09/07	429.67	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.67	NA	DRY	NA	--	0.00	0.00	--
MP-46 B	Rand	01/09/07	429.65	NA	24.15	NA	405.50	0.00	0.00	405.50
		04/10/07	429.65	NA	24.14	NA	405.51	0.00	0.00	405.51
MP-46 C	Main Sand	01/09/07	429.60	33.28	34.91	396.32	394.69	1.63	0.22	395.95
		04/10/07	429.60	30.33	30.41	399.27	399.19	0.08	0.01	399.25
MP-47 A	N. Olive	01/09/07	429.12	NA	DRY	--	--	0.00	0.00	--
		04/11/07	429.12	NA	DRY	--	--	0.00	0.00	--
MP-47 B	Rand	01/09/07	429.05	NA	22.34	NA	406.71	0.00	0.00	406.71
		04/11/07	429.05	NA	22.34	NA	406.71	0.00	0.00	406.71
MP-47 C	Main Sand	01/09/07	429.01	32.72	34.41	396.29	394.60	1.69	0.22	395.90
		04/11/07	429.01	29.53	30.64	399.48	398.37	1.11	0.04	399.22
MP-48 A	N. Olive	01/10/07	428.92	ENSR Transducer Present						
		04/10/07	428.92	NA	DRY	NA	--	0.00	0.00	--
MP-48 B	Main Silt	01/10/07	429.04	ENSR Transducer Present						
		04/10/07	429.04	28.91	29.03	400.13	400.01	0.12	0.01	400.10
	(Rand Horizon)									
MP-48 C	Main Sand	01/10/07	429.41	ENSR Transducer Present						
		04/10/07	429.41	28.78	29.89	400.63	399.52	1.11	0.07	400.37
MP-49 A	A Clay	01/10/07	431.07	NA	DRY	NA	-	0.00	0.00	-
		04/10/07	431.07	NA	10.43	NA	420.64	0.00	0.00	420.64
	(PL in A Clay)									
MP-49 B	Rand	01/10/07	431.08	NA	23.18	NA	407.90	0.00	0.00	407.90
		04/10/07	431.08	NA	22.34	NA	408.74	0.00	0.00	408.74
MP-49 C	Main Sand	01/10/07	431.07	34.33	35.83	396.74	395.24	1.50	0.19	396.40
		04/10/07	431.07	31.07	31.39	400.00	399.68	0.32	0.02	399.93

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MP-50 A	A Clay	01/09/07	430.31	ENSR Transducer Present						
		04/10/07	430.31	NA	13.71	NA	416.60	0.00	0.00	416.60
MP-50 B	Rand	01/09/07	430.29	ENSR Transducer Present						
		04/10/07	430.29	NA	24.15	NA	406.14	0.00	0.00	406.14
MP-50 C	Main Sand	01/09/07	429.98	ENSR Transducer Present						
		04/10/07	429.98	ENSR Transducer Present						
MP-51 A	A Clay	01/09/07	430.90	NA	DRY	NA	NA	DRY	NA	--
		04/10/07	430.90	--	--	--	--	--	--	--
	(PL in A Clay)									
MP-51 B	N. Olive	01/09/07	430.91	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.91	--	--	--	--	--	--	--
MP-51 C	Rand	01/09/07	430.93	NA	DRY	--	--	0.00	0.00	--
		04/10/07	430.93	--	--	--	--	--	--	--
MP-51 D	Main Sand	01/09/07	430.99	34.61	36.25	396.38	394.74	1.64	0.22	396.00
		04/10/07	430.99	--	--	--	--	--	--	--
MP-52 A	A Clay	01/09/07	429.96	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.96	NA	DRY	NA	--	0.00	0.00	--
	(PL in A Clay)									
MP-52 B	Rand	01/09/07	429.97	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.97	NA	DRY	NA	--	0.00	0.00	--
MP-52 C	Main Sand	01/09/07	429.99	34.57	34.60	395.42	395.39	0.03	0.01	395.41
		04/10/07	429.99	30.21	30.97	399.78	399.02	0.76	0.06	399.61
MP-53 A	A Clay	01/09/07	430.59	NA	11.69	NA	418.90	0.00	0.00	418.90
		04/10/07	430.59	NA	11.36	NA	419.23	0.00	0.00	419.23
MP-53 B	Rand	01/09/07	430.60	NA	DRY	--	--	0.00	0.00	--
		04/10/07	430.60	NA	DRY	--	--	0.00	0.00	--
MP-53 C	Main Sand	01/09/07	430.52	34.33	34.90	396.19	395.62	0.57	0.05	396.06
		04/10/07	430.52	NA	31.23	NA	399.29	0.00	0.00	399.29

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MP-54 A	N. Olive	01/09/07	430.00	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.00	NA	12.42	NA	417.58	0.00	0.00	417.58
MP-54 B	Rand	01/09/07	429.99	NA	DRY	--	--	0.00	0.00	--
		04/10/07	429.99	NA	DRY	--	--	0.00	0.00	--
MP-54 C	Main Sand	01/09/07	430.07	33.74	35.30	396.33	394.77	1.56	0.22	395.97
		04/10/07	430.07	NA	30.94	NA	399.13	0.00	0.00	399.13
MP-55 A	N. Olive/ B Clay	01/09/07	429.65	NA	16.89	NA	412.76	0.00	0.00	412.76
		04/10/07	429.65	NA	16.88	NA	412.77	0.00	0.00	412.77
MP-55 B	Rand	01/09/07	429.64	NA	23.89	NA	405.75	0.00	0.00	405.75
		04/10/07	429.64	NA	22.98	NA	406.66	0.00	0.00	406.66
MP-55 C	Main Sand	01/10/07	429.67	33.34	34.85	396.33	394.82	1.51	0.17	395.98
		04/10/07	429.67	NA	30.74	NA	398.93	0.00	0.00	398.93
MP-56 A	N. Olive	01/09/07	430.25	NA	10.96	NA	419.29	0.00	0.00	419.29
		04/10/07	430.25	NA	10.04	NA	420.21	0.00	0.00	420.21
MP-56 B	Rand	01/09/07	430.25	NA	DRY	--	--	0.00	0.00	--
		04/10/07	430.25	NA	DRY	--	--	0.00	0.00	--
MP-56 C	Main Sand	01/09/07	430.15	NA	33.98	NA	396.17	0.00	0.00	396.17
		04/10/07	430.15	30.86	30.87	399.29	399.28	0.01	0.01	399.29
MP-57 A	N. Olive	01/09/07	429.05	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.05	NA	DRY	NA	--	0.00	0.00	--
MP-57 B	Rand	01/09/07	429.04	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.04	NA	DRY	NA	--	0.00	0.00	--
MP-57 C	Main Sand	01/09/07	429.15	32.85	33.96	396.30	395.19	1.11	0.07	396.04
		04/10/07	429.15	30.04	30.33	399.11	398.82	0.29	0.02	399.04
MP-58 A	A Clay	01/09/07	430.29	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.29	NA	DRY	NA	--	0.00	0.00	--

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WELL	STRATUM SCREENED	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Do[1] (ft)	Piezometric Surface Elevation[2] (ft)
MP-58 B	Main Silt	01/09/07	430.29	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.29	NA	21.03	NA	409.26	0.00	0.00	409.26
	(Rand Horizon)									
MP-58 C	Main Sand	01/09/07	430.33	33.88	34.03	396.45	396.30	0.15	0.01	396.42
		04/10/07	430.33	NA	30.76	NA	399.57	0.00	0.00	399.57
MP-59 A	A Clay	01/09/07	429.97	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.97	NA	8.82	NA	421.15	0.00	0.00	421.15
MP-59 B	Main Silt	01/09/07	429.88	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.88	NA	DRY	NA	--	0.00	0.00	--
	(Rand Horizon)									
MP-59 C	Main Sand	01/09/07	429.90	33.12	33.41	396.78	396.49	0.29	0.02	396.71
		04/10/07	429.90	NA	29.73	NA	400.17	0.00	0.00	400.17
MP-60 A	A Clay	01/09/07	429.21	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.10	NA	7.79	NA	421.31	0.00	0.00	421.31
	(PL in A Clay)									
MP-60 B	Main Silt	01/09/07	429.20	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.10	NA	20.73	NA	408.37	0.00	0.00	408.37
	(Rand Horizon)									
MP-60 C	Main Sand	01/09/07	429.21	32.72	34.13	396.49	395.08	1.41	0.16	396.17
		04/10/07	429.21	30.07	30.11	399.14	399.10	0.04	0.01	399.13
MP-61 A	A Clay	01/09/07	429.98	NA	10.17	NA	419.81	0.00	0.00	419.81
		04/10/07	429.98	NA	DRY	NA	--	0.00	0.00	--
	(PL in A Clay)									
MP-61 B	Main Silt	01/09/07	429.98	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.98	NA	DRY	NA	--	0.00	0.00	--
	(Rand Horizon)									
MP-61 C	Main Sand	01/09/07	430.00	NA	33.08	NA	396.92	0.00	0.00	396.92
		04/10/07	430.00	NA	30.06	NA	399.94	0.00	0.00	399.94
MP-62 A	A Clay	01/09/07	429.11	NA	8.77	NA	420.34	0.00	0.00	420.34
		04/10/07	429.11	NA	7.57	NA	421.54	0.00	0.00	421.54
	(PL in A Clay)									
MP-62 B	Main Silt	01/09/07	429.11	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.11	NA	DRY	NA	--	0.00	0.00	--
	(N. Olive Horizon)									

TABLE 2
SUMMARY OF 2007 QUARTERLY GROUNDWATER ELEVATIONS THROUGH APRIL
The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR 000128249
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WELL	STRATUM SCREENED	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Do[1] (ft)	Piezometric Surface Elevation[2] (ft)
MP-62 C	Main Sand	01/09/07	428.94	NA	32.21	NA	396.73	0.00	0.00	396.73
		04/10/07	428.94	NA	29.09	NA	399.85	0.00	0.00	399.85
MP-63 A	A Clay	01/09/07	429.26	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.26	NA	9.05	NA	420.21	0.00	0.00	420.21
MP-63 B	Main Silt	01/10/07	429.26	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.26	NA	19.66	NA	409.60	0.00	0.00	409.60
	(N. Olive Horizon)									
MP-63 C	Main Sand	01/09/07	429.29	NA	32.69	NA	396.60	0.00	0.00	396.60
		04/10/07	429.29	NA	29.83	NA	399.46	0.00	0.00	399.46
MP-64 A	A Clay	01/09/07	428.73	NA	9.61	NA	419.12	0.00	0.00	419.12
		04/10/07	428.73	NA	DRY	NA	--	0.00	0.00	--
	(PL in A Clay)									
MP-64 B	Main Silt	01/09/07	428.74	NA	21.31	NA	407.43	0.00	0.00	407.43
		04/10/07	428.74	NA	21.33	NA	407.41	0.00	0.00	407.41
	(N. Olive Horizon)									
MP-64 C	Main Sand	01/09/07	428.55	31.76	33.26	396.79	395.29	1.50	0.19	396.45
		04/10/07	428.55	29.29	29.54	399.26	399.01	0.25	0.02	399.20
MP-65 A	Main Silt	01/09/07	431.41	NA	16.20	NA	415.21	0.00	0.00	415.21
		04/10/07	431.41	NA	16.28	NA	415.13	0.00	0.00	415.13
	(N. Olive Horizon)									
MP-65 B	Main Sand	01/09/07	431.44	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	431.44	NA	DRY	NA	--	0.00	0.00	--
MP-65 C	Main Sand	01/09/07	431.42	NA	33.85	NA	397.57	0.00	0.00	397.57
		04/10/07	431.42	NA	30.08	NA	401.34	0.00	0.00	401.34
MP-66 A	Main Silt	01/10/07	430.81	NA	14.22	NA	416.59	0.00	0.00	416.59
		04/10/07	430.81	NA	14.15	NA	416.66	0.00	0.00	416.66
	(N. Olive Horizon)									
MP-66 B	Main Silt	01/09/07	430.82	NA	25.16	NA	405.66	0.00	0.00	405.66
		04/10/07	430.82	NA	25.25	NA	405.57	0.00	0.00	405.57
	(Rand Horizon)									
MP-66 C	Main Sand	01/09/07	430.79	NA	33.38	NA	397.41	0.00	0.00	397.41
		04/10/07	430.79	NA	30.90	NA	399.89	0.00	0.00	399.89

TABLE 2
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The Hartford Area Hydrocarbon Plume Site

1190505040 – Madison County – ILR 000128249
The Hartford Working Group / Hartford, Illinois

WELL	STRATUM SCREENED	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Do[1] (ft)	Piezometric Surface Elevation[2] (ft)
MP-67 A	A Clay	01/09/07	430.29	NA	9.86	NA	420.43	0.00	0.00	420.43
		04/10/07	430.29	NA	9.85	NA	420.44	0.00	0.00	420.44
	(PL in A Clay)									
MP-67 B	Main Silt	01/09/07	430.31	NA	25.38	NA	404.93	0.00	0.00	404.93
		04/10/07	430.31	NA	25.35	NA	404.96	0.00	0.00	404.96
	(Rand Horizon)									
MP-67 C	Main Sand	01/09/07	430.19	NA	33.30	NA	396.89	0.00	0.00	396.89
		04/10/07	430.19	NA	30.75	NA	399.44	0.00	0.00	399.44
MP-68 A	N. Olive	01/10/07	431.36	NA	DRY	NA	--	0.00	0.00	--
		04/11/07	431.36	NA	DRY	NA	--	0.00	0.00	--
MP-69 A	N. Olive	01/10/07	431.57	NA	DRY	NA	--	0.00	0.00	--
		04/11/07	431.57	NA	DRY	NA	--	0.00	0.00	--
MP-70 A	N. Olive	01/10/07	431.00	NA	DRY	NA	--	0.00	0.00	--
		04/11/07	431.00	NA	DRY	NA	--	0.00	0.00	--
MP-71 A	N. Olive	01/10/07	430.14	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.14	NA	DRY	NA	--	0.00	0.00	--
MP-72 A	N. Olive	01/10/07	430.51	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.51	NA	DRY	NA	--	0.00	0.00	--
MP-73 A	N. Olive	01/10/07	430.84	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.84	NA	DRY	NA	--	0.00	0.00	--
MP-74 A	N. Olive	01/10/07	431.38	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	431.38	NA	DRY	NA	--	0.00	0.00	--
MP-75 A	N. Olive	01/10/07	430.66	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.66	NA	16.88	NA	413.78	0.00	0.00	413.78
MP-76 A	N. Olive	01/10/07	430.75	NA	DRY	NA	--	0.00	0.00	--
		04/11/07	430.75	NA	DRY	NA	--	0.00	0.00	--
MP-77A	A Clay	01/09/07	430.53	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.53	NA	DRY	NA	--	0.00	0.00	--

TABLE 2
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1190505040 -- Madison County -- ILR 000128249
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WELL	STRATUM SCREENED	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Do (ft)	Piezometric Surface Elevation (ft)
MP-77B	Main Silt	01/09/07	430.62	NA	24.58	NA	406.04	0.00	0.00	406.04
		04/10/07	430.62	NA	24.53	NA	406.09	0.00	0.00	406.09
	(Rand Horizon)									
MP-77C	Main Sand	01/09/07	430.46	33.89	34.95	396.57	395.51	1.06	0.07	396.33
		04/10/07	430.46	30.61	31.20	399.85	399.26	0.59	0.05	399.71
MP-78 A	A Clay	01/10/07	430.38	NA	DRY	NA	--	0.00	0.00	--
		04/11/07	430.38	NA	7.86	NA	422.52	0.00	0.00	422.52
MP-78 B	N. Olive	01/10/07	430.23	NA	DRY	NA	--	0.00	0.00	--
		04/11/07	430.23	NA	13.76	NA	416.47	0.00	0.00	416.47
MP-78 C	Rand	01/10/07	430.29	NA	24.08	NA	406.21	0.00	0.00	406.21
		04/11/07	430.29	NA	24.07	NA	406.22	0.00	0.00	406.22
MP-78 D	Main Sand	01/10/07	430.17	NA	34.23	NA	395.94	0.00	0.00	395.94
		04/11/07	430.17	NA	30.13	NA	400.04	0.00	0.00	400.04
MP-79 A	N. Olive	01/10/07	429.44	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.44	NA	DRY	NA	--	0.00	0.00	--
MP-79 B	Rand	01/10/07	429.48	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.48	NA	DRY	NA	--	0.00	0.00	--
MP-79 C	Main Sand	01/11/07	429.52	32.27	36.58	397.25	392.94	4.31	1.07	396.26
		04/10/07	429.52	27.99	34.40	401.53	395.12	6.41	1.60	400.06
MP-79 D	Main Sand	01/10/07	429.46	NA	33.42	NA	396.04	0.00	0.00	396.04
		04/10/07	429.46	NA	29.63	NA	399.83	0.00	0.00	399.83
MP-80 A	N. Olive	01/10/07	430.03	NA	18.85	NA	411.18	0.00	0.00	411.18
		04/11/07	430.03	NA	DRY	NA	--	0.00	0.00	--
MP-80 B	Rand	01/10/07	430.10	NA	27.56	NA	402.54	0.00	0.00	402.54
		04/11/07	430.10	NA	22.72	NA	407.38	0.00	0.00	407.38
MP-80 C	Main Sand	01/10/07	430.03	33.61	35.14	396.42	394.89	1.53	0.19	396.07
		04/11/07	430.03	28.75	34.25	401.28	395.78	5.50	1.44	400.02

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MP-81 A	A Clay	01/10/07	425.57	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	425.57	NA	DRY	NA	--	0.00	0.00	--
	(PL in A Clay)									
MP-81 B	Main Silt	01/10/07	425.53	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	425.53	NA	DRY	NA	--	0.00	0.00	--
	(Rand Horizon)									
MP-81 C	Main Sand	01/10/07	425.40	NA	28.58	NA	396.82	0.00	0.00	396.82
		04/10/07	425.40	NA	24.75	NA	400.65	0.00	0.00	400.65
MP-82 A	A Clay	01/10/07	431.67	--	--	--	--	--	--	--
		04/10/07	431.67	NA	DRY	NA	--	0.00	0.00	--
	(PL in A Clay)									
MP-82 B	Main Silt	01/10/07	431.58	--	--	--	--	--	--	--
		04/10/07	431.58	NA	25.57	NA	406.01	0.00	0.00	406.01
	(Rand Horizon)									
MP-82 C	Main Sand	01/10/07	431.61	NA	34.88	NA	396.73	0.00	0.00	396.73
		04/10/07	431.61	NA	31.23	NA	400.38	0.00	0.00	400.38
MP-83 A	N. Olive	01/10/07	426.92	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	426.92	NA	DRY	NA	--	0.00	0.00	--
MP-83 B	Rand	01/10/07	426.94	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	426.94	NA	DRY	NA	--	0.00	0.00	--
MP-83 C	Main Sand	01/10/07	426.79	NA	30.66	NA	396.13	0.00	0.00	396.13
		04/10/07	426.79	NA	26.66	NA	400.13	0.00	0.00	400.13
MP-84 A	A Clay	01/10/07	432.08	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	432.08	NA	8.56	NA	423.52	0.00	0.00	423.52
	(PL in A Clay)									
MP-84 B	Main Silt	01/10/07	432.07	NA	25.45	NA	406.62	0.00	0.00	406.62
		04/10/07	432.07	NA	25.43	NA	406.64	0.00	0.00	406.64
	(Rand Horizon)									
MP-84 C	Main Silt	01/10/07	432.10	35.27	36.99	396.83	395.11	1.72	0.25	396.43
		04/10/07	432.10	32.06	32.18	400.04	399.92	0.12	0.01	400.01
	(Rand Horizon)/									
	Main Sand									

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MP-85 A	N. Olive	01/09/07	428.07	NA	10.16	NA	417.91	0.00	0.00	417.91
		04/10/07	428.07	NA	8.73	NA	419.34	0.00	0.00	419.34
MP-85 B	Rand	01/09/07	428.06	NA	17.31	NA	410.75	0.00	0.00	410.75
		04/10/07	428.06	NA	16.01	NA	412.05	0.00	0.00	412.05
MP-85 C	EPA	01/09/07	428.08	32.10	32.26	395.98	395.82	0.16	0.01	395.94
		04/10/07	428.08	NA	29.05	NA	399.03	0.00	0.00	399.03
MP-85 D	Main Sand	01/09/07	427.86	NA	32.09	NA	395.77	0.00	0.00	395.77
		04/10/07	427.86	NA	28.73	NA	399.13	0.00	0.00	399.13
	(below D Clay)									
MP-86 A	A Clay	01/10/07	431.31	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	431.31	NA	7.45	NA	423.86	0.00	0.00	423.86
	(PL in A Clay)									
MP-86 B	Main Silt	01/10/07	431.28	NA	25.53	NA	405.75	0.00	0.00	405.75
		04/10/07	431.28	NA	25.49	NA	405.79	0.00	0.00	405.79
	(Rand Horizon)									
MP-86 C	Main Sand	01/10/07	431.20	34.48	34.62	396.72	396.58	0.14	0.01	396.69
		04/10/07	431.20	NA	30.80	NA	400.40	0.00	0.00	400.40
MP-87 A	A Clay	01/10/07	432.01	--	--	--	--	--	--	--
		04/10/07	432.01	NA	DRY	NA	--	0.00	0.00	--
	(PL in A Clay)									
MP-87 B	Main Silt	01/10/07	432.01	--	--	--	--	--	--	--
		04/10/07	432.01	NA	25.51	NA	406.50	0.00	0.00	406.50
	(Rand Horizon)									
MP-87 C	Main Sand	01/10/07	432.08	--	--	--	--	--	--	--
		04/10/07	432.08	31.89	32.69	400.19	399.39	0.80	0.06	400.01
MP-88 A	A Clay	01/09/07	430.60	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.60	NA	9.79	NA	420.81	0.00	0.00	420.81
MP-88 B	Main Silt	01/09/07	430.60	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.60	NA	19.60	NA	411.00	0.00	0.00	411.00
	(Rand Horizon)									
MP-88 C	Main Sand	01/09/07	430.51	33.76	34.02	396.75	396.49	0.26	0.02	396.69
		04/10/07	430.51	NA	30.52	NA	399.99	0.00	0.00	399.99

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MP-89 A	A Clay	01/09/07	429.17	NA	9.72	NA	419.45	0.00	0.00	419.45
		04/10/07	429.17	NA	7.95	NA	421.22	0.00	0.00	421.22
MP-89 B	Main Silt	01/09/07	429.17	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.17	NA	DRY	NA	--	0.00	0.00	--
	(Rand Horizon)									
MP-89 C	Main Sand	01/09/07	429.25	NA	32.45	NA	396.80	0.00	0.00	396.80
		04/10/07	429.25	NA	29.48	NA	399.77	0.00	0.00	399.77
MP-90 B	Main Silt	--	430.18	NA	Well Abandoned in 2006					
	(N. Olive Horizon)									
MP-90 BR	Main Silt	01/10/07	429.95	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.95	NA	DRY	NA	--	0.00	0.00	--
	(N. Olive Horizon)									
MP-90 C	Main Silt	01/10/07	429.95	33.18	34.13	396.77	395.82	0.95	0.08	396.55
		04/10/07	429.95	29.39	30.39	400.56	399.56	1.00	0.08	400.33
	(Rand Horizon)/ Main Sand									
MP-91 B	Main Silt	01/10/07	425.98	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	425.98	NA	DRY	NA	--	0.00	0.00	--
	(N. Olive Horizon)									
MP-91 C	Main Silt	01/10/07	425.98	NA	DRY	NA	--	0.00	0.00	--
		04/11/07	425.98	NA	26.24	NA	399.74	0.00	0.00	399.74
MP-91 D	Main Sand	01/10/07	425.96	NA	29.51	NA	396.45	0.00	0.00	396.45
		04/10/07	425.96	NA	25.41	NA	400.55	0.00	0.00	400.55
MP-92 C	N. Olive	01/10/07	427.71	NA	19.88	NA	407.83	0.00	0.00	407.83
		04/10/07	427.71	NA	19.81	NA	407.90	0.00	0.00	407.90
MP-92 D	Main Silt	01/10/07	427.98	NA	31.15	NA	396.83	0.00	0.00	396.83
		04/10/07	427.98	NA	27.08	NA	400.90	0.00	0.00	400.90
	(Rand Horizon)/ Main Sand									
MP-93A	Fill/ A Clay	01/10/07	429.74	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.74	NA	DRY	NA	--	0.00	0.00	--

TABLE 2
SUMMARY OF 2007 QUARTERLY GROUNDWATER ELEVATIONS THROUGH APRIL
The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR 000128249
The Hartford Working Group / Hartford, Illinois

WELL	STRATUM SCREENED	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Do[1] (ft)	Piezometric Surface Elevation[2] (ft)
MP-93B	A Clay	01/10/07	429.84	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.84	NA	DRY	NA	--	0.00	0.00	--
MP-94A	A Clay	01/09/07	428.63	NA	8.53	NA	420.10	0.00	0.00	420.10
		04/10/07	428.63	NA	8.11	NA	420.52	0.00	0.00	420.52
MP-94B	Main Silt	01/09/07	428.72	NA	17.79	NA	410.93	0.00	0.00	410.93
		04/10/07	428.72	NA	17.79	NA	410.93	0.00	0.00	410.93
MP-95A	A Clay	01/09/07	428.60	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	428.60	NA	9.37	NA	419.23	0.00	0.00	419.23
MP-95B	Main Silt	01/09/07	428.67	NA	16.69	NA	411.98	0.00	0.00	411.98
		04/10/07	428.67	NA	16.71	NA	411.96	0.00	0.00	411.96
MP-96A	A Clay	01/09/07	429.42	NA	5.08	NA	424.34	0.00	0.00	424.34
		04/10/07	429.42	NA	DRY	NA	--	0.00	0.00	--
MP-96B	N. Olive	01/09/07	429.57	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.57	NA	DRY	NA	--	0.00	0.00	--
MP-96C	Rand	01/09/07	429.38	NA	23.57	NA	405.81	0.00	0.00	405.81
		04/10/07	429.38	NA	23.57	NA	405.81	0.00	0.00	405.81
MP-96D	Main Sand	01/09/07	429.48	33.26	34.38	396.22	395.10	1.12	0.07	395.96
		04/10/07	429.48	30.55	31.47	398.93	398.01	0.92	0.07	398.72
MP-97A	A Clay	01/09/07	429.33	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.33	NA	DRY	NA	--	0.00	0.00	--
MP-97B	N. Olive	01/09/07	429.31	NA	15.58	NA	413.73	0.00	0.00	413.73
		04/10/07	429.31	NA	15.56	NA	413.75	0.00	0.00	413.75
MP-97C	Rand	01/09/07	429.30	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.30	NA	DRY	NA	--	0.00	0.00	
MP-97D	Main Sand	01/09/07	429.31	33.09	34.73	396.22	394.58	1.64	0.22	395.84
		04/10/07	429.31	30.37	31.12	398.94	398.19	0.75	0.06	398.77

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MP-98A	A Clay	01/09/07	429.40	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.40	NA	DRY	NA	--	0.00	0.00	--
MP-98B	N. Olive	01/09/07	429.38	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.38	NA	DRY	NA	--	0.00	0.00	--
MP-98C	Rand	01/09/07	429.38	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.38	NA	DRY	NA	--	0.00	0.00	--
MP-99A	A Clay	01/10/07	431.59	NA	6.88	NA	424.71	0.00	0.00	424.71
		04/10/07	431.59	NA	6.84	NA	424.75	0.00	0.00	424.75
MP-99B	Main Silt	01/10/07	431.58	NA	13.28	NA	418.30	0.00	0.00	418.30
		04/10/07	431.58	NA	13.24	NA	418.34	0.00	0.00	418.34
MP-99C	Main Sand	01/10/07	431.56	NA	34.61	NA	396.95	0.00	0.00	396.95
		04/10/07	431.56	NA	31.25	NA	400.31	0.00	0.00	400.31
MP-100A	Fill	01/10/07	431.55	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	431.55	NA	DRY	NA	--	0.00	0.00	--
MP-100B	A Clay	01/10/07	431.62	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	431.62	NA	DRY	NA	--	0.00	0.00	--
MP-100C	Main Silt	01/10/07	431.67	NA	13.21	NA	418.46	0.00	0.00	418.46
		04/10/07	431.67	NA	13.23	NA	418.44	0.00	0.00	418.44
MP-100D	Main Sand	01/10/07	431.65	NA	34.43	NA	397.22	0.00	0.00	397.22
		04/10/07	431.65	NA	31.34	NA	400.31	0.00	0.00	400.31
MP-101A	A Clay	01/10/07	431.29	--	--	--	--	--	--	--
		04/10/07	431.29	--	--	--	--	--	--	--
MP-101B	Main Silt	01/10/07	431.30	--	--	--	--	--	--	--
		04/10/07	431.30	--	--	--	--	--	--	--
MP-101C	Main Sand	01/10/07	431.31	--	--	--	--	--	--	--
		04/10/07	431.31	--	--	--	--	--	--	--

TABLE 2
SUMMARY OF 2007 QUARTERLY GROUNDWATER ELEVATIONS THROUGH APRIL
The Hartford Area Hydrocarbon Plume Site

1190505040 – Madison County – ILR 000128249
The Hartford Working Group / Hartford, Illinois

WELL	STRATUM SCREENED	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Do (ft)	Piezometric Surface Elevation[2] (ft)
MP-102A	A Clay	01/10/07	431.14	--	--	--	--	--	--	--
		04/10/07	431.14	NA	7.71	NA	423.43	0.00	0.00	423.43
MP-102B	Main Silt	01/10/07	431.13	--	--	--	--	--	--	--
		04/10/07	431.13	NA	14.67	NA	416.46	0.00	0.00	416.46
MP-102C	Main Sand	01/10/07	431.13	--	--	--	--	--	--	--
		04/10/07	431.13	NA	30.71	NA	400.42	0.00	0.00	400.42
MP-103A	A Clay	01/10/07	431.23	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	431.23	NA	DRY	NA	--	0.00	0.00	--
MP-103B	Main Silt	01/10/07	431.25	NA	14.53	NA	416.72	0.00	0.00	416.72
		04/10/07	431.25	NA	14.53	NA	416.72	0.00	0.00	416.72
MP-103C	Main Sand	01/10/07	431.24	NA	34.52	NA	396.72	0.00	0.00	396.72
		04/10/07	431.24	NA	30.83	NA	400.41	0.00	0.00	400.41
MP-104A	A Clay	01/10/07	431.26	NA	6.96	NA	424.30	0.00	0.00	424.30
		04/10/07	431.26	NA	7.40	NA	423.86	0.00	0.00	423.86
MP-104B	Main Silt	01/10/07	431.29	NA	14.35	NA	416.94	0.00	0.00	416.94
		04/10/07	431.29	NA	14.34	NA	416.95	0.00	0.00	416.95
MP-104C	Main Sand	01/10/07	431.25	NA	34.51	NA	396.74	0.00	0.00	396.74
		04/10/07	431.25	NA	30.88	NA	400.37	0.00	0.00	400.37
MP-105A	A Clay / N. Olive	01/09/07	430.95	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	430.95	NA	DRY	NA	--	0.00	0.00	--
MP-105B	A Clay / N. Olive	01/09/07	431.36	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	431.36	NA	DRY	NA	--	0.00	0.00	--
MP-105C	A Clay / N. Olive	01/09/07	431.35	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	431.35	NA	DRY	NA	--	0.00	0.00	--
MP-105D	A Clay / N. Olive	01/09/07	431.43	NA	9.23	NA	422.20	0.00	0.00	422.20
		04/10/07	431.43	NA	DRY	NA	--	0.00	0.00	--

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The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR 000128249
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WELL	STRATUM SCREENED	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Do (ft)	Piezometric Surface Elevation (ft)
MP-105E	A Clay / N. Olive	01/09/07	431.46	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	431.46	NA	DRY	NA	--	0.00	0.00	--
MP-106A	A Clay	01/09/07	429.49	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.49	NA	DRY	NA	--	0.00	0.00	--
MP-106B	N. Olive	01/09/07	429.48	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.48	NA	DRY	NA	--	0.00	0.00	--
MP-106C	Rand	01/09/07	429.49	NA	22.70	NA	406.79	0.00	0.00	406.79
		04/10/07	429.49	NA	19.91	NA	409.58	0.00	0.00	409.58
MP-107A	A Clay	01/09/07	429.76	NA	4.89	NA	424.87	0.00	0.00	424.87
		04/10/07	429.76	NA	4.95	NA	424.81	0.00	0.00	424.81
MP-107B	N. Olive	01/09/07	429.80	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.80	NA	DRY	NA	--	0.00	0.00	--
MP-107C	Rand	01/09/07	429.74	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.74	NA	21.68	NA	408.06	0.00	0.00	408.06
MP-108A	A Clay	01/09/07	429.57	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.57	NA	DRY	NA	--	0.00	0.00	--
MP-108B	N. Olive	01/09/07	429.62	NA	DRY	NA	--	0.00	0.00	--
		04/10/07	429.62	NA	13.15	NA	416.47	0.00	0.00	416.47
MP-108C	Rand	01/09/07	429.60	NA	21.72	NA	407.88	0.00	0.00	407.88
		04/10/07	429.60	NA	DRY	NA	--	0.00	0.00	--
RW-1	Main Sand	01/10/07	433.78	37.08	37.48	396.70	396.30	0.40	0.03	396.61
		04/10/07	433.78	33.52	33.67	400.26	400.11	0.15	0.01	400.23
RW-2	Main Sand	01/10/07	431.99	35.85	36.62	396.14	395.37	0.77	0.06	395.96
		04/10/07	431.99	32.61	33.41	399.38	398.58	0.80	0.06	399.20

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RW-3	Main /	01/10/07	433.35	37.27	37.98	396.08	395.37	0.71	0.05	395.92
		04/10/07	433.35	33.87	34.19	399.48	399.16	0.32	0.02	399.41
	potentially other									
	hydrostratigraphic									
	unit									
RW-4	Rand/ C Clay/	01/09/07	429.65	NA	33.64	NA	396.01	0.00	0.00	396.01
		04/10/07	429.65	NA	20.44	NA	409.21	0.00	0.00	409.21
	Main Sand									
RW-4 A*	Rand/ C Clay/	01/09/07	429.86	**Skimmer Pump in Well**						
		04/10/07	429.86	**Skimmer Pump in Well**						
	Main Sand									
RW-5	Rand/ C Clay/	01/09/07	430.22	33.98	35.27	396.24	394.95	1.29	0.13	395.94
		04/10/07	430.22	30.88	31.51	399.34	398.71	0.63	0.05	399.20
	Main Sand									
River Elevation	NA	01/09/07					402.74			
at River Dock							411.61			

NOTES:
NA = Not Applicable
-- = No data
PL = Permeable Lense
SG = Specific gravity of hydrocarbon determined to be an average of 0.77 for data recorded during and after 09/03.
(T xx/xx/xxxx) = Date transducer installed in well, however, data may be from miniTROLL or manual gauging.
1 = D_o is a normalized volume of LNAPL (ft^3/ft^2) per unit surface area, but is expressed as a thickness (in units of feet).
2 = Piezometric surface elevation = [(A)-(C)]+S.G.[(C)-(B)]
MP-5 through 28 installed as vacuum monitoring probes by Clayton in 7/03 and are not appropriate for determining groundwater flow.
HMW-25 through HMW-29 installed by Clayton in 12/03.
HMW-30 through 37, RW-4 and RMW-4A installed as pilot test wells by Clayton in 2004 and are not appropriate for determining groundwater flow.
Remaining HMW-series and MP-series installed by Clayton during 2004 through 2006.
Remaining wells installed by others.
TOC elevations surveyed to USGS datum by CMT.
Top of casing elevation changes present in the table indicate that the associated wells have been re-surveyed.

TABLE 3
SUMMARY OF 2007 QUARTERLY GROUNDWATER ELEVATIONS THROUGH APRIL
Wells (Shell Sites) Outside of Hartford, Illinois

1190505040 -- Madison County -- ILR 000128249
The Hartford Working Group / Hartford, Illinois

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
P-47	--	428.20	--	--	--	--	--	--
P-51	--	426.62	--	--	--	--	--	--
P-76	01/09/07	433.28	Abandoned by Shell in 12/2005					
	04/10/07	433.28	Abandoned by Shell in 12/2005					
P-77	01/09/07	434.71	NA	39.03	NA	395.68	0.00	395.68
	04/10/07	434.71	NA	36.32	NA	398.39	0.00	398.39
P-78	01/09/07	433.33	NA	37.70	NA	395.63	0.00	395.63
	04/10/07	433.33	NA	35.97	NA	397.36	0.00	397.36
P-79	01/09/07	432.72	NA	37.04	NA	395.68	0.00	395.68
	04/10/07	432.72	NA	34.26	NA	398.46	0.00	398.46
P-80	01/09/07	433.10	NA	37.54	NA	395.56	0.00	395.56
	04/10/07	433.10	NA	34.70	NA	398.40	0.00	398.40
P-81	01/09/07	433.26	37.28	39.01	395.98	394.25	1.73	395.53
	04/10/07	433.26	NA	35.82	NA	397.44	0.00	397.44
P-104	01/09/07	432.74	NA	24.55	NA	408.19	0.00	408.19
	04/10/07	432.74	NA	18.53	NA	414.21	0.00	414.21
P-105	01/09/07	432.59	NA	36.53	NA	396.06	0.00	396.06
	04/10/07	432.59	NA	34.17	NA	398.42	0.00	398.42
P-106	01/09/07	432.70	NA	36.99	NA	395.71	0.00	395.71
	04/10/07	432.70	NA	34.14	NA	398.56	0.00	398.56
P-107	01/09/07	431.92	NA	33.10	NA	398.82	0.00	398.82
	04/10/07	431.92	NA	30.05	NA	401.87	0.00	401.87
P-129	01/09/07	433.23	--	--	--	--	--	--
	04/10/07	433.23	--	--	--	--	--	--

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WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
P-130	01/09/07	431.59	--	--	--	--	--	--
	04/10/07	431.59	--	--	--	--	--	--
P-131	01/09/07	432.65	NA	21.10	NA	411.55	0.00	411.55
	04/10/07	432.65	NA	13.77	NA	418.88	0.00	418.88
P-132	01/09/07	432.12	NA	32.79	NA	399.33	0.00	399.33
	04/10/07	432.12	NA	29.40	NA	402.72	0.00	402.72
P-133	01/09/07	431.06	NA	17.12	NA	413.94	0.00	413.94
	04/10/07	431.06	NA	14.18	NA	416.88	0.00	416.88
P-134	01/09/07	432.55	NA	19.92	NA	412.63	0.00	412.63
	04/10/07	432.55	NA	13.86	NA	418.69	0.00	418.69
SP-1	01/09/07	429.01	NA	11.54	NA	417.47	0.00	417.47
	04/10/07	429.01	NA	9.04	NA	419.97	0.00	419.97
SP-2B	01/09/07	429.11	NA	29.48	NA	399.63	0.00	399.63
	04/10/07	429.11	NA	26.18	NA	402.93	0.00	402.93
SP-3	01/09/07	431.64	NA	13.21	NA	418.43	0.00	418.43
	04/10/07	431.64	NA	10.66	NA	420.98	0.00	420.98
SP-5	01/09/07	431.15	NA	13.46	NA	417.69	0.00	417.69
	04/10/07	431.15	NA	11.39	NA	419.76	0.00	419.76
SP-6	01/09/07	433.08	NA	13.78	NA	419.30	0.00	419.30
	04/10/07	433.08	NA	10.94	NA	422.14	0.00	422.14
SP-7	01/09/07	429.03	NA	11.44	NA	417.59	0.00	417.59
	04/10/07	429.03	NA	8.45	NA	420.58	0.00	420.58
SP-8	01/09/07	429.03	NA	11.44	NA	417.59	0.00	417.59
	04/10/07	429.03	NA	8	NA	421.03	0.00	421.03

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WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
SP-9	01/09/07	432.65	NA	14.34	NA	418.31	0.00	418.31
	04/10/07	432.65	NA	10.97	NA	421.68	0.00	421.68
SP-10	01/09/07	432.61	NA	14.07	NA	418.54	0.00	418.54
	04/10/07	432.61	NA	10.62	NA	421.99	0.00	421.99
SP-11	01/09/07	432.40	NA	13.21	NA	419.19	0.00	419.19
	04/10/07	432.40	NA	10.91	NA	421.49	0.00	421.49
SP-12	01/09/07	432.35	Abandoned by Shell in 12/2005					
	04/10/07	432.35	Abandoned by Shell in 12/2005					
SP-13	01/09/07	432.48	Abandoned by Shell in 12/2005					
	04/10/07	432.48	Abandoned by Shell in 12/2005					
SP-14	01/09/07	428.92	Abandoned by Shell in 2006					
	04/10/07	428.92	Abandoned by Shell in 2006					
SP-15	01/09/07	428.89	NA	11.71	NA	417.18	0.00	417.18
	04/10/07	428.89	NA	8.43	NA	420.46	0.00	420.46
SP-16	01/09/07	429.43	NA	11.98	NA	417.45	0.00	417.45
	04/10/07	429.43	NA	9.37	NA	420.06	0.00	420.06
SP-17	01/09/07	428.19	Abandoned by Shell in 2006					
	04/10/07	428.19	Abandoned by Shell in 2006					
SP-18	01/09/07	431.07	Abandoned by Shell in 2006					
	04/10/07	431.07	Abandoned by Shell in 2006					
SP-19	01/09/07	430.87	NA	15.17	NA	415.70	0.00	415.70
	04/10/07	430.87	NA	11.79	NA	419.08	0.00	419.08
SP-20	01/09/07	431.16	NA	13.76	NA	417.40	0.00	417.40
	04/10/07	431.16	NA	10.31	NA	420.85	0.00	420.85

TABLE 3
SUMMARY OF 2007 QUARTERLY GROUNDWATER ELEVATIONS THROUGH APRIL
Wells (Shell Sites) Outside of Hartford, Illinois

1190505040 -- Madison County -- ILR 000128249
The Hartford Working Group / Hartford, Illinois

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
SP-21	01/09/07	431.68	NA	16.15	NA	415.53	0.00	415.53
	04/10/07	431.68	12.97	12.98	418.71	418.70	0.01	418.71
SP-22	01/09/07	430.35	NA	12.49	NA	417.86	0.00	417.86
	04/10/07	430.35	--	--	--	--	--	--
SP-23	01/09/07	430.70	NA	13.16	NA	417.54	0.00	417.54
	04/10/07	430.70	NA	10.21	NA	420.49	0.00	420.49
SP-24	01/09/07	428.89	NA	11.28	NA	417.61	0.00	417.61
	04/10/07	428.89	NA	8.25	NA	420.64	0.00	420.64
SP-25	01/09/07	428.61	11.07	11.11	417.54	417.50	0.04	417.53
	04/10/07	428.61	NA	8.17	NA	420.44	0.00	420.44
SP-26	01/09/07	429.88	NA	12.38	NA	417.50	0.00	417.50
	04/10/07	429.88	NA	9.39	NA	420.49	0.00	420.49
SP-27	01/09/07	431.93	NA	14.58	NA	417.35	0.00	417.35
	04/10/07	431.93	NA	12.11	NA	419.82	0.00	419.82
SP-28	01/09/07	432.21	NA	13.81	NA	418.40	0.00	418.40
	04/10/07	432.21	NA	11.50	NA	420.71	0.00	420.71
SP-29	01/09/07	431.81	NA	14.18	NA	417.63	0.00	417.63
	04/10/07	431.81	NA	10.87	NA	420.94	0.00	420.94
SP-30	01/09/07	431.87	15.45	15.51	416.42	416.36	0.06	416.40
	04/10/07	431.87	13.13	13.21	418.74	418.66	0.08	418.72
SP-31	01/09/07	429.77	NA	12.84	NA	416.93	0.00	416.93
	04/10/07	429.77	NA	9.25	NA	420.52	0.00	420.52
SP-32	01/09/07	430.49	NA	13.35	NA	417.14	0.00	417.14
	04/10/07	430.49	NA	10.07	NA	420.42	0.00	420.42

TABLE 3
SUMMARY OF 2007 QUARTERLY GROUNDWATER ELEVATIONS THROUGH APRIL
Wells (Shell Sites) Outside of Hartford, Illinois

1190505040 -- Madison County -- ILR 000128249
The Hartford Working Group / Hartford, Illinois

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
SP-33	01/09/07	430.99	NA	13.74	NA	417.25	0.00	417.25
	04/10/07	430.99	NA	11.14	NA	419.85	0.00	419.85
SP-34	01/09/07	430.17	NA	13.54	NA	416.63	0.00	416.63
	04/10/07	430.17	--	--	--	--	--	--
SP-35	01/09/07	431.13	NA	13.59	NA	417.54	0.00	417.54
	04/10/07	431.13	NA	10.65	NA	420.48	0.00	420.48
SP-36	01/09/07	429.50	NA	34.10	NA	395.40	0.00	395.40
	04/10/07	429.50	NA	31.59	NA	397.91	0.00	397.91
SP-37	01/09/07	429.71	NA	29.66	NA	400.05	0.00	400.05
	04/10/07	429.71	NA	24.85	NA	404.86	0.00	404.86
SP-38	01/09/07	430.90	NA	22.39	NA	408.51	0.00	408.51
	04/10/07	430.90	NA	17.88	NA	413.02	0.00	413.02
SP-39	01/09/07	431.98	NA	15.57	NA	416.41	0.00	416.41
	04/10/07	431.98	NA	12.16	NA	419.82	0.00	419.82
SP-40	01/09/07	431.84	NA	31.77	NA	400.07	0.00	400.07
	04/10/07	431.84	NA	28.43	NA	403.41	0.00	403.41
SP-41	01/09/07	431.52	NA	36.20	NA	395.32	0.00	395.32
	04/10/07	431.52	NA	32.99	NA	398.53	0.00	398.53
SP-42	01/09/07	431.73	NA	36.19	NA	395.54	0.00	395.54
	04/10/07	431.73	NA	32.66	NA	399.07	0.00	399.07
SP-43	01/09/07	431.75	NA	29.12	NA	402.63	0.00	402.63
	04/10/07	431.75	NA	26.16	NA	405.59	0.00	405.59
SP-44	01/09/07	431.87	NA	18.10	NA	413.77	0.00	413.77
	04/10/07	431.87	NA	16.60	NA	415.27	0.00	415.27

TABLE 3
SUMMARY OF 2007 QUARTERLY GROUNDWATER ELEVATIONS THROUGH APRIL
Wells (Shell Sites) Outside of Hartford, Illinois

1190505040 -- Madison County -- ILR 000128249
The Hartford Working Group / Hartford, Illinois

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
SP-45	01/09/07	434.16	NA	34.56	NA	399.60	0.00	399.60
	04/10/07	434.16	NA	31.43	NA	402.73	0.00	402.73
SP-46	01/09/07	434.06	NA	38.56	NA	395.50	0.00	395.50
	04/10/07	434.06	NA	35.49	NA	398.57	0.00	398.57
SP-47	01/09/07	432.96	NA	33.41	NA	399.55	0.00	399.55
	04/10/07	432.96	NA	30.22	NA	402.74	0.00	402.74
SP-48	01/09/07	432.31	NA	33.71	NA	398.60	0.00	398.60
	04/10/07	432.31	NA	31.13	NA	401.18	0.00	401.18
SP-49	01/09/07	428.85	NA	30.06	NA	398.79	0.00	398.79
	04/10/07	428.85	NA	26.88	NA	401.97	0.00	401.97
SP-50	01/09/07	432.47	NA	33.12	NA	399.35	0.00	399.35
	04/10/07	432.47	NA	29.90	NA	402.57	0.00	402.57
SP-51	01/09/07	432.49	NA	37.09	NA	395.40	0.00	395.40
	04/10/07	432.49	NA	34.04	NA	398.45	0.00	398.45
SP-52	01/09/07	428.99	NA	13.92	NA	415.07	0.00	415.07
	04/10/07	428.99	--	--	--	--	--	--
SP-53	01/09/07	428.92	NA	24.39	NA	404.53	0.00	404.53
	04/10/07	428.92	--	--	--	--	--	--
SP-54	01/09/07	428.90	NA	33.43	NA	395.47	0.00	395.47
	04/10/07	428.90	--	--	--	--	--	--
SP-55	01/09/07	432.31	NA	14.13	NA	418.18	0.00	418.18
	04/10/07	432.31	--	--	--	--	--	--
SP-56	01/09/07	432.21	NA	32.33	NA	399.88	0.00	399.88
	04/10/07	432.21	--	--	--	--	--	--

TABLE 3
SUMMARY OF 2007 QUARTERLY GROUNDWATER ELEVATIONS THROUGH APRIL
Wells (Shell Sites) Outside of Hartford, Illinois

1190505040 -- Madison County -- ILR 000128249
The Hartford Working Group / Hartford, Illinois

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
SP-57	01/09/07	432.15	NA	36.61	NA	395.54	0.00	395.54
	04/10/07	432.15	--	--	--	--	--	--
SP-58	01/09/07	431.93	NA	32.72	NA	399.21	0.00	399.21
	04/10/07	431.93	NA	29.59	NA	402.34	0.00	402.34
SP-59	01/09/07	431.94	NA	36.70	NA	395.24	0.00	395.24
	04/10/07	431.94	33.81	33.82	398.13	398.12	0.01	398.13
SP-60	01/09/07	432.05	NA	36.76	NA	395.29	0.00	395.29
	04/10/07	432.05	NA	34.01	NA	398.04	0.00	398.04
TP-PZ-1 (E)	01/09/07	437.36	NA	38.08	NA	399.28	0.00	399.28
	04/10/07	437.36	NA	34.74	NA	402.62	0.00	402.62
TP-PZ-2-(E)	01/09/07	434.43	NA	34.95	NA	399.48	0.00	399.48
	04/10/07	434.43	NA	31.73	NA	402.70	0.00	402.70

NOTES:

NA = Not Applicable
-- = No data
SG = Specific gravity of hydrocarbon assumed to be 0.74 by others.
[1] Piezometric surface elevation = [(A)-(C)]+S.G.[(C)-(B)]
Well SP-4 no longer exists.
TOC elevations (except for SP-42, SP-43, & SP-44) have been rotated and adjusted to match USGS datum (datum used to survey Village wells). This rotation and adjustment of original survey data (obtained in 7/01 by CMT, Inc.) was completed in 1/04 by CMT. TOC elevations for SP-42, SP-43, and SP-44 were surveyed to USGS datum in 12/03 by CMT.
Top of casing elevation changes present in the table indicate that the associated wells have been re-surveyed.

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
DS-1	Main Sand	01/09/07	430.94	34.18	34.30	396.76	396.64	0.12	396.73
		04/11/07	430.94	33.30	33.75	397.64	397.19	0.45	397.54
	(Shallow)								
DS-2	Main Sand	01/09/07	431.13	34.19	34.43	396.94	396.70	0.24	396.89
		04/11/07	431.13	33.36	33.98	397.77	397.15	0.62	397.63
	(Shallow)								
DS-3	Main Sand	01/09/07	430.49	33.58	34.18	396.91	396.31	0.60	396.78
		04/11/07	430.49	32.76	33.07	397.73	397.42	0.31	397.66
	(Shallow)								
DS-4	Main Sand	01/09/07	431.26	34.68	34.78	396.58	396.48	0.10	396.56
		04/11/07	431.26	33.86	34.08	397.40	397.18	0.22	397.35
	(Shallow)								
GB-1	Main Sand	01/09/07	431.59	NA	32.05	NA	399.54	0.00	399.54
		04/11/07	431.59	NA	31.58	NA	400.01	0.00	400.01
	(Shallow)								
GB-6	Main Sand	01/09/07	430.53	NA	32.63	NA	397.90	0.00	397.90
		04/11/07	430.53	NA	32.20	NA	398.33	0.00	398.33
	(Shallow)								
LP-4	Main Sand	01/09/07	432.55	NA	34.87	NA	397.68	0.00	397.68
		04/11/07	432.55	NA	34.14	NA	398.41	0.00	398.41
	(Shallow)								
MP-1S	N. Olive	01/09/07	431.37	--	--	--	--	--	--
		04/10/07	431.37	--	--	--	--	--	--
MP-1D	EPA	01/09/07	431.04	--	--	--	--	--	--
		04/10/07	431.04	--	--	--	--	--	--
MP-2S	N. Olive	01/09/07	430.66	NA	26.85	NA	403.81	0.00	403.81
		04/10/07	430.66	--	--	--	--	--	--
MP-2D	EPA	01/09/07	430.27	NA	DRY	NA	--	0.00	--
		04/10/07	430.27	--	--	--	--	--	--
MP-3S	N. Olive	01/09/07	430.59	--	--	--	--	--	--
		04/10/07	430.59	--	--	--	--	--	--
MP-3D	EPA	01/09/07	430.51	--	--	--	--	--	--
		04/10/07	430.51	--	--	--	--	--	--

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
MP-4S	N. Olive	01/09/07	430.42	NA	25.51	NA	404.91	0.00	404.91
		04/10/07	430.42	--	--	--	--	--	--
MP-4D	EPA	01/09/07	430.42	NA	DRY	NA	--	0.00	--
		04/10/07	430.42	31.59	NA	398.83	--	2.29	--
MW-1	Main Sand	01/09/07	420.39	NA	18.18	NA	402.21	0.00	402.21
		04/11/07	420.39	NA	9.67	NA	410.72	0.00	410.72
	(Shallow)								
MW-2	Main Sand	01/09/07	419.10	NA	17.61	NA	401.49	0.00	401.49
		04/11/07	419.10	NA	9.03	NA	410.07	0.00	410.07
	(Shallow)								
MW-3	Main Sand	01/09/07	421.37	NA	20.10	NA	401.27	0.00	401.27
		04/11/07	421.37	NA	11.37	NA	410.00	0.00	410.00
	(Shallow)								
MW-4	Main Sand	01/09/07	421.38	NA	20.40	NA	400.98	0.00	400.98
		04/11/07	421.38	NA	11.77	NA	409.61	0.00	409.61
	(Shallow)								
P-6 N	Main Sand	01/09/07	430.29	NA	34.94	NA	395.35	0.00	395.35
		04/10/07	430.29	NA	32.43	NA	397.86	0.00	397.86
(T 2/27/05)	(Basal)								
P-6 S	Main Sand	01/09/07	430.28	NA	34.95	NA	395.33	0.00	395.33
		04/10/07	430.28	NA	32.44	NA	397.84	0.00	397.84
	(Basal)								
P-6 E	Main Sand	01/09/07	429.73	34.06	35.76	395.67	393.97	1.70	395.30
		04/10/07	429.73	33.50	35.17	396.23	394.56	1.67	395.86
	(Basal)								
Product Pipeline	NA	01/09/07	--	NA	12.90	--	--	0.00	--
		04/10/07	--	NA	12.58	--	--	0.00	--
Sump									
RB-01	Main Sand	01/09/07	430.28	NA	DRY	NA	--	0.00	--
		04/10/07	430.28	NA	32.79	NA	397.49	0.00	397.49
	(Shallow)								
RB-08P	EPA / Main	01/09/07	433.41	34.66	37.49	398.75	395.92	2.83	398.13
		04/10/07	433.41	32.18	36.72	401.23	396.69	4.54	400.23
Skimmer Well									
RB-08	EPA / Main	01/09/07	--	23.79	NA	--	--	5.77	--
		04/10/07	--	22.54	NA	--	--	7.00	--
2" piezometer									

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RB-10	EPA / Main	01/09/07	430.16	32.70	39.23	397.46	390.93	6.53	396.02
		04/11/07	430.16	NA	32.01	NA	398.15	0.00	398.15
RB-13	EPA / Main	01/09/07	430.79	NA	33.84	NA	396.95	0.00	396.95
		04/10/07	430.79	NA	32.38	NA	398.41	0.00	398.41
RB-22	Main Sand	01/10/07	431.06	NA	32.85	NA	398.21	0.00	398.21
		04/11/07	431.06	NA	32.13	NA	398.93	0.00	398.93
	(Shallow)								
RB-25	EPA / Main	01/09/07	432.10	NA	35.93	NA	396.17	0.00	396.17
		04/10/07	432.10	NA	33.91	NA	398.19	0.00	398.19
RB-26	EPA / Main	01/09/07	430.05	NA	34.10	NA	395.95	0.00	395.95
		04/10/07	430.05	NA	31.82	NA	398.23	0.00	398.23
RB-29	N. Olive	01/09/07	431.97	14.20	14.51	417.77	417.46	0.31	417.70
		04/11/07	431.97	12.82	12.98	419.15	418.99	0.16	419.11
RB-30	Main Sand	01/09/07	431.94	NA	35.39	NA	396.55	0.00	396.55
		04/11/07	431.94	NA	33.78	NA	398.16	0.00	398.16
	(Shallow)								
RB-35	EPA / Main	01/09/07	429.49	32.18	35.56	397.31	393.93	3.38	396.57
		04/10/07	429.49	30.72	32.05	398.77	397.44	1.33	398.48
RB-36	N. Olive	01/09/07	429.21	NA	22.03	NA	407.18	0.00	407.18
		04/10/07	429.21	NA	17.59	NA	411.62	0.00	411.62
RB-37	Main Sand	01/09/07	428.52	Skimmer Pump in Well					
		04/10/07	428.52	Skimmer Pump in Well					
	(Shallow)								
RB-38	Main Sand	01/09/07	433.73	NA	37.97	NA	395.76	0.00	395.76
		04/11/07	433.73	NA	36.64	NA	397.09	0.00	397.09
	(Shallow)								
RB-39	EPA / Main	01/09/07	431.54	NA	32.97	NA	398.57	0.00	398.57
		04/10/07	431.54	NA	29.83	NA	401.71	0.00	401.71
RB-40	Main Sand	01/09/07	433.51	NA	37.48	NA	396.03	0.00	396.03
		04/11/07	433.51	NA	36.55	NA	396.96	0.00	396.96
	(Shallow)								

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RB-41	Main Sand	01/09/07	433.25	NA	37.23	NA	396.02	0.00	396.02
		04/11/07	433.25	NA	36.63	NA	396.62	0.00	396.62
	(Shallow)								
RB-42	Main Sand	01/09/07	428.47	NA	32.83	NA	395.64	0.00	395.64
		04/11/07	428.47	NA	31.35	NA	397.12	0.00	397.12
	(Shallow)								
RB-43	Main Sand	01/09/07	427.99	NA	26.41	NA	401.58	0.00	401.58
		04/11/07	427.99	NA	28.10	NA	399.89	0.00	399.89
	(Shallow)								
RB-44	Main Sand	01/09/07	432.99	NA	34.05	NA	398.94	0.00	398.94
		04/11/07	432.99	NA	33.41	NA	399.58	0.00	399.58
	(Shallow)								
RB-45	Main Sand	01/09/07	431.95	NA	33.54	NA	398.41	0.00	398.41
		04/11/07	431.95	NA	32.53	NA	399.42	0.00	399.42
	(Shallow)								
RB-46	Main Sand	01/10/07	430.61	NA	33.35	NA	397.26	0.00	397.26
		04/11/07	430.61	NA	31.58	NA	399.03	0.00	399.03
	(Shallow)								
RB-47	Main Sand	01/10/07	431.05	NA	34.13	NA	396.92	0.00	396.92
		04/11/07	431.05	NA	32.21	NA	398.84	0.00	398.84
	(Shallow)								
RB-48	Main Sand	01/10/07	431.36	**Skimmer Pump in Well**					
		04/11/07	431.36	**Skimmer Pump in Well**					
	(Shallow)								
RB-49	A Clay	01/10/07	429.32	NA	3.28	NA	426.04	0.00	426.04
		04/11/07	429.32	NA	2.41	NA	426.91	0.00	426.91
RB-50	A Clay	01/10/07	431.47	NA	5.29	NA	426.18	0.00	426.18
		04/11/07	431.47	NA	3.87	NA	427.60	0.00	427.60
RB-51	Main Sand	01/10/07	431.54	NA	32.94	NA	398.60	0.00	398.60
		04/11/07	431.54	NA	30.09	NA	401.45	0.00	401.45
	(Shallow)								
RB-52	Main Sand	01/09/07	431.97	**Skimmer Pump in Well**					
		04/10/07	431.97	**Skimmer Pump in Well**					
	(Shallow)								
RB-53	EPA / Main	01/09/07	433.31	**Skimmer Pump in Well**					
		04/10/07	433.31	**Skimmer Pump in Well**					
Barotroll									

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RB-54	EPA	01/09/07	431.79	NA	24.20	NA	407.59	0.00	407.59
		04/10/07	431.79	NA	21.59	NA	410.20	0.00	410.20
RB-55	EPA	01/09/07	433.82	Skimmer Pump in Well					
		04/10/07	433.82	Skimmer Pump in Well					
RB-56	EPA / Main	01/09/07	431.89	Skimmer Pump in Well					
		04/10/07	431.89	Skimmer Pump in Well					
RMP-5A	A Clay		431.08	--	--	--	--	--	--
RMP-5B	N. Olive	01/09/07	430.96	NA	18.00	NA	412.96	0.00	412.96
		04/10/07	430.96	NA	18.02	NA	412.94	0.00	412.94
RMP-5C	EPA	01/09/07	431.24	NA	36.41	NA	394.83	0.00	394.83
		04/10/07	431.24	NA	33.67	NA	397.57	0.00	397.57
RMP-5D	Main Sand	01/09/07	431.41	NA	36.51	NA	394.90	0.00	394.90
		04/10/07	431.41	NA	33.20	NA	398.21	0.00	398.21
	(below D Clay)								
RMP-6A	A Clay		430.08	--	--	--	--	--	--
RMP-6B	N. Olive	01/09/07	429.97	NA	DRY	NA	--	0.00	--
		04/10/07	429.97	NA	DRY	NA	--	0.00	--
RMP-6C	EPA	01/09/07	429.88	NA	34.08	NA	395.80	0.00	395.80
		04/10/07	429.88	NA	32.36	NA	397.52	0.00	397.52
RMP-6D	Main Sand	01/09/07	430.26	NA	34.84	NA	395.42	0.00	395.42
		04/10/07	430.26	NA	32.31	NA	397.95	0.00	397.95
	(below D Clay)								
RMP-7A	A Clay		430.50	--	--	--	--	--	--
RMP-7B	N. Olive	01/09/07	430.58	NA	DRY	NA	--	0.00	--
		04/10/07	430.58	NA	DRY	NA	--	0.00	--
RMP-7C	EPA	01/09/07	430.49	34.75	36.83	395.74	393.66	2.08	395.28
		04/10/07	430.49	NA	32.91	NA	397.58	0.00	397.58

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RMP-7D	Main Sand	01/09/07	430.56	NA	35.24	NA	395.32	0.00	395.32
		04/10/07	430.56	NA	32.65	NA	397.91	0.00	397.91
	(below D Clay)								
RMP-8A	A Clay		433.44	--	--	--	--	--	--
RMP-8B	N. Olive	01/09/07	433.42	NA	DRY	NA	--	0.00	--
		04/10/07	433.42	NA	DRY	NA	--	0.00	--
RMP-8C	EPA	01/09/07	433.37	NA	37.00	NA	396.37	0.00	396.37
		04/10/07	433.37	NA	35.90	NA	397.47	0.00	397.47
RMP-8D	Main Sand	01/09/07	433.33	NA	37.74	NA	395.59	0.00	395.59
		04/10/07	433.33	NA	35.31	NA	398.02	0.00	398.02
	(below D Clay)								
RMP-9A	A Clay		434.15	--	--	--	--	--	--
RMP-9B	N. Olive	01/09/07	433.95	NA	20.87	NA	413.08	0.00	413.08
		04/10/07	433.95	NA	DRY	NA	--	0.00	--
RMP-9C	Main Sand	01/09/07 ***	435.93	H2A Present					
		04/10/07	434.20	35.77	36.24	398.43	397.96	0.47	398.33
	(Shallow)								
RMP-10A	A Clay		430.70	--	--	--	--	--	--
RMP-10B	N. Olive	01/09/07	430.70	NA	DRY	NA	--	0.00	--
		04/10/07	430.70	NA	17.68	NA	413.02	0.00	413.02
RMP-10C	Main Sand	01/09/07	430.74	34.51	36.31	396.23	394.43	1.80	395.83
		04/10/07	430.74	NA	32.29	NA	398.45	0.00	398.45
	(Shallow)								
RMP-11A	A Clay		429.73	--	--	--	--	--	--
RMP-11B	N. Olive	01/09/07	429.81	NA	DRY	NA	--	0.00	--
		04/10/07	429.81	NA	DRY	NA	--	0.00	--
RMP-11C	Main Sand	1/9/07 ***	432.30	36.19	38.23	396.11	394.07	2.04	395.66
		04/01/07	429.82	31.30	31.71	398.52	398.11	0.41	398.43
	(Shallow)								
RMP-12A	A Clay		430.47	--	--	--	--	--	--

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMP-12B	N. Olive	01/09/07	430.45	NA	17.01	NA	413.44	0.00	413.44
		04/10/07	430.45	NA	DRY	NA	--	0.00	--
RMP-12C	Main Silt		430.26	--	--	--	--	--	--
RMP-12D	Main Sand	01/09/07	430.35	NA	34.25	NA	396.10	0.00	396.10
		04/10/07	430.35	NA	31.61	NA	398.74	0.00	398.74
RMP-13A	A Clay		431.28	--	--	--	--	--	--
RMP-13B	Main Silt		431.30	--	--	--	--	--	--
RMP-13C	Main Silt	01/09/07	431.32	NA	33.78	NA	397.54	0.00	397.54
		04/10/07	431.32	NA	32.66	NA	398.66	0.00	398.66
RMP-14A	A Clay		430.30	--	--	--	--	--	--
RMP-14B	Main Silt		430.30	--	--	--	--	--	--
RMP-14C	Main Sand	01/09/07	430.64	33.35	39.23	397.29	391.41	5.88	396.00
		04/10/07	430.64	30.81	36.88	399.83	393.76	6.07	398.49
	(Shallow)								
RMP-15A	A Clay		433.63	--	--	--	--	--	--
RMP-15B	N. Olive	01/09/07	433.77	NA	20.78	NA	412.99	0.00	412.99
		04/10/07	433.77	NA	20.80	NA	412.97	0.00	412.97
RMP-16A	A Clay		433.97	--	--	--	--	--	--
RMP-16B	EPA	01/09/07	434.13	NA	38.86	NA	395.27	0.00	395.27
		04/10/07	434.13	NA	36.30	NA	397.83	0.00	397.83
RMP-17A	Main Sand	01/09/07	434.20	38.30	39.91	395.90	394.29	1.61	395.55
		04/10/07	434.20	35.80	36.29	398.40	397.91	0.49	398.29
	(Shallow)								
RMP-18A	Main Sand	01/09/07	430.07	33.88	35.53	396.19	394.54	1.65	395.83
		04/10/07	430.07	31.59	32.09	398.48	397.98	0.50	398.37
	(Shallow)								

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation 1 (ft)
RMP-19A	Main Sand	01/09/07	430.41	34.08	35.68	396.33	394.73	1.60	395.98
		04/10/07	430.41	31.79	32.05	398.62	398.36	0.26	398.56
	(Shallow)								
RMW-1A	A Clay	01/09/07	429.78	NA	10.09	NA	419.69	0.00	419.69
		04/10/07	429.78	NA	10.09	NA	419.69	0.00	419.69
RMW-1B	Main Silt	01/09/07	429.72	26.11	26.20	403.61	403.52	0.09	403.59
		04/10/07	429.72	NA	26.21	NA	403.51	0.00	403.51
RMW-1C	Main Sand	01/09/07	429.48	32.90	33.19	396.58	396.29	0.29	396.52
		04/10/07	429.48	30.04	30.73	399.44	398.75	0.69	399.29
	(Shallow)								
RMW-1D	Main Sand	01/09/07	429.66	NA	33.16	NA	396.50	0.00	396.50
		04/10/07	429.66	NA	30.38	NA	399.28	0.00	399.28
	(Intermediate)								
RMW-1E	Main Sand	01/09/07	429.63	NA	33.21	NA	396.42	0.00	396.42
		04/10/07	429.63	NA	30.42	NA	399.21	0.00	399.21
	(Deep)								
RMW-1F	Main Sand	01/09/07	429.43	NA	33.00	NA	396.43	0.00	396.43
		04/10/07	429.43	NA	30.21	NA	399.22	0.00	399.22
	(Basal)								
RMW-2A	N. Olive	01/09/07	433.64	NA	21.89	NA	411.75	0.00	411.75
		04/10/07	433.64	NA	21.90	NA	411.74	0.00	411.74
RMW-2B	B/C Clay	01/09/07	433.64	NA	26.84	NA	406.80	0.00	406.80
		04/10/07	433.64	NA	26.10	NA	407.54	0.00	407.54
	(Permeable Lens)								
RMW-2C	Main Sand	01/09/07	433.34	37.05	38.41	396.29	394.93	1.36	395.99
		04/10/07	433.34	34.60	35.17	398.74	398.17	0.57	398.61
	(Shallow)								
RMW-2D	Main Sand	01/09/07	433.41	NA	37.21	NA	396.20	0.00	396.20
		04/10/07	433.41	NA	34.62	NA	398.79	0.00	398.79
	(Intermediate)								
RMW-2E	Main Sand	01/09/07	433.54	NA	37.34	NA	396.20	0.00	396.20
		04/10/07	433.54	NA	34.78	NA	398.76	0.00	398.76
	(Deep)								
RMW-2F	Main Sand	01/09/07	433.64	NA	37.53	NA	396.11	0.00	396.11
		04/10/07	433.64	NA	34.89	NA	398.75	0.00	398.75
	(Basal)								

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-3A	N. Olive	01/09/07	434.10	NA	22.25	NA	411.85	0.00	411.85
		04/10/07	434.10	NA	22.30	NA	411.80	0.00	411.80
RMW-3B	EPA / Main	01/09/07	434.01	38.52	39.61	395.49	394.40	1.09	395.25
		04/10/07	434.01	35.71	35.87	398.30	398.14	0.16	398.26
(T 2/27/05-7/18/05)									
RMW-3C	Main Sand	01/09/07	434.21	NA	38.83	NA	395.38	0.00	395.38
		04/10/07	434.21	NA	35.79	NA	398.42	0.00	398.42
	(below D Clay)								
RMW-4A	N. Olive	01/09/07	433.02	NA	20.09	NA	412.93	0.00	412.93
		04/10/07	433.02	NA	19.63	NA	413.39	0.00	413.39
RMW-4B	EPA	01/09/07	433.07	NA	35.03	NA	398.04	0.00	398.04
		04/10/07	433.07	NA	33.08	NA	399.99	0.00	399.99
RMW-4C	Main Sand	01/09/07	433.11	NA	37.53	NA	395.58	0.00	395.58
		04/10/07	433.11	NA	35.38	NA	397.73	0.00	397.73
(T 2/27/05)	(below D Clay)								
RMW-4D	Main Sand	01/09/07	432.83	NA	37.29	NA	395.54	0.00	395.54
		04/10/07	432.83	NA	35.01	NA	397.82	0.00	397.82
	(Intermediate)								
RMW-4E	Main Sand	01/09/07	432.82	NA	37.26	NA	395.56	0.00	395.56
		04/10/07	432.82	NA	34.97	NA	397.85	0.00	397.85
	(Deep)								
RMW-4F	Main Sand	01/09/07	432.37	NA	36.80	NA	395.57	0.00	395.57
		04/10/07	432.37	NA	34.51	NA	397.86	0.00	397.86
	(Basal)								
RMW-5A	N. Olive	01/09/07	431.85	NA	21.25	NA	410.60	0.00	410.60
		04/10/07	431.85	NA	19.15	NA	412.70	0.00	412.70
RMW-5B	EPA	01/09/07	431.78	NA	33.22	NA	398.56	0.00	398.56
		04/10/07	431.78	NA	30.10	NA	401.68	0.00	401.68
(T 1/7/05)									
RMW-5C	Main Sand	01/09/07	431.78	NA	36.15	NA	395.63	0.00	395.63
		04/10/07	431.78	NA	33.84	NA	397.94	0.00	397.94
(T 1/10/05)	(below D Clay)								
RMW-6A	N. Olive	01/09/07	430.40	NA	17.95	NA	412.45	0.00	412.45
		04/10/07	430.40	NA	17.95	NA	412.45	0.00	412.45

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-6B	B/C Clay	01/09/07	430.39	NA	21.12	NA	409.27	0.00	409.27
		04/10/07	430.39	NA	19.90	NA	410.49	0.00	410.49
	(Permeable Lens)								
RMW-6C	Main Silt	01/09/07	430.37	NA	30.52	NA	399.85	0.00	399.85
		04/10/07	430.37	NA	30.52	NA	399.85	0.00	399.85
RMW-6D	Main Sand	01/09/07	430.41	NA	34.35	NA	396.06	0.00	396.06
		04/10/07	430.41	NA	33.63	NA	396.78	0.00	396.78
	(Shallow)								
RMW-6E	Main Sand	01/09/07	430.02	NA	34.41	NA	395.61	0.00	395.61
		04/10/07	430.02	NA	32.52	NA	397.50	0.00	397.50
	(Intermediate)								
RMW-6F	Main Sand	01/09/07	429.67	NA	34.05	NA	395.62	0.00	395.62
		04/10/07	429.67	NA	32.16	NA	397.51	0.00	397.51
	(Deep)								
RMW-6G	Main Sand	01/09/07	430.01	NA	34.40	NA	395.61	0.00	395.61
		04/10/07	430.01	NA	32.51	NA	397.50	0.00	397.50
	(Basal)								
RMW-7A	N. Olive	01/09/07	429.00	NA	19.04	NA	409.96	0.00	409.96
		04/10/07	429.00	NA	16.95	NA	412.05	0.00	412.05
RMW-7B	B/C Clay	01/09/07	429.11	NA	21.45	NA	407.66	0.00	407.66
		04/10/07	429.11	NA	17.92	NA	411.19	0.00	411.19
	(Permeable Lens)								
RMW-7C	Main Sand	01/09/07	429.34	Skimmer Pump in Well					
		04/10/07	429.34	Skimmer Pump in Well					
RMW-7D	Main Sand	01/09/07	428.62	NA	33.08	NA	395.54	0.00	395.54
		04/10/07	428.62	NA	31.32	NA	397.30	0.00	397.30
	(Intermediate)								
RMW-7E	Main Sand	01/09/07	428.95	NA	33.42	NA	395.53	0.00	395.53
		04/10/07	428.95	NA	31.66	NA	397.29	0.00	397.29
	(Deep)								
RMW-7F	Main Sand	01/09/07	429.20	NA	33.61	NA	395.59	0.00	395.59
		04/10/07	429.20	NA	31.86	NA	397.34	0.00	397.34
	(Basal)								
RMW-8A	Main Silt	01/09/07	432.52	NA	33.60	NA	398.92	0.00	398.92
		04/11/07	432.52	NA	33.55	NA	398.97	0.00	398.97

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-8B	Main Sand	01/09/07	432.49	NA	36.73	NA	395.76	0.00	395.76
		04/11/07	432.49	NA	35.20	NA	397.29	0.00	397.29
	(Shallow)								
RMW-8C	Main Sand	01/09/07	432.32	NA	36.52	NA	395.80	0.00	395.80
		04/11/07	432.32	NA	34.91	NA	397.41	0.00	397.41
	(Intermediate)								
RMW-8D	Main Sand	01/09/07	432.43	NA	36.62	NA	395.81	0.00	395.81
		04/11/07	432.43	NA	35.03	NA	397.40	0.00	397.40
	(Deep)								
RMW-8E	Main Sand	01/09/07	432.52	NA	36.70	NA	395.82	0.00	395.82
		04/11/07	432.52	NA	35.05	NA	397.47	0.00	397.47
	(Basal)								
RMW-9A	N. Olive	01/09/07	430.71	NA	11.24	NA	419.47	0.00	419.47
		04/11/07	430.71	NA	11.55	NA	419.16	0.00	419.16
RMW-9B	EPA	01/09/07	430.67	34.58	34.83	396.09	395.84	0.25	396.04
		04/11/07	430.67	32.52	34.72	398.15	395.95	2.20	397.67
RMW-10A	N. Olive	01/09/07	430.53	14.03	14.35	416.50	416.18	0.32	416.43
		04/11/07	430.53	13.33	13.41	417.20	417.12	0.08	417.18
RMW-10B	Main Sand	01/09/07	430.42	NA	34.27	NA	396.15	0.00	396.15
		04/11/07	430.42	NA	32.63	NA	397.79	0.00	397.79
	(Shallow)								
RMW-10C	Main Sand	01/09/07	428.09	NA	31.83	NA	396.26	0.00	396.26
		04/11/07	428.09	NA	30.21	NA	397.88	0.00	397.88
	(Intermediate)								
RMW-10D	Main Sand	01/09/07	428.00	NA	31.73	NA	396.27	0.00	396.27
		04/11/07	428.00	NA	30.10	NA	397.90	0.00	397.90
	(Deep)								
RMW-10E	Main Sand	01/09/07	427.87	NA	31.56	NA	396.31	0.00	396.31
		04/11/07	427.87	NA	29.94	NA	397.93	0.00	397.93
	(Basal)								
RMW-11A	N. Olive	01/09/07	429.70	NA	15.46	NA	414.24	0.00	414.24
		04/11/07	429.70	NA	14.94	NA	414.76	0.00	414.76
(T 1/21/05)									
RMW-11B	B/C Clay	01/09/07	429.88	NA	23.49	NA	406.39	0.00	406.39
		04/11/07	429.88	NA	22.80	NA	407.08	0.00	407.08
(T 1/21/05)	(Permeable Lens)								

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-11C	Main Sand	01/09/07	430.27	33.52	35.02	396.75	395.25	1.50	396.42
		04/11/07	430.27	32.35	32.92	397.92	397.35	0.57	397.79
(T 1/21/05-8/19/05)	(Shallow)								
RMW-12A	N. Olive	01/09/07	432.43	NA	14.70	NA	417.73	0.00	417.73
		04/11/07	432.43	NA	13.62	NA	418.81	0.00	418.81
RMW-12B	B/C Clay	01/09/07	432.57	NA	30.35	NA	402.22	0.00	402.22
		04/11/07	432.57	NA	30.18	NA	402.39	0.00	402.39
	(Permeable Lens)								
RMW-12C	Main Sand	01/09/07	432.25	NA	35.52	NA	396.73	0.00	396.73
		04/11/07	432.25	NA	34.05	NA	398.20	0.00	398.20
	(Shallow)								
RMW-13A	N. Olive	01/09/07	429.26	NA	10.16	NA	419.10	0.00	419.10
		04/11/07	429.26	NA	9.58	NA	419.68	0.00	419.68
RMW-13B	B/C Clay	01/09/07	429.25	NA	23.35	NA	405.90	0.00	405.90
		04/11/07	429.25	NA	22.62	NA	406.63	0.00	406.63
	(Permeable Lens)								
RMW-13C	Main Sand	01/09/07	429.06	NA	32.50	NA	396.56	0.00	396.56
		04/11/07	429.06	NA	30.92	NA	398.14	0.00	398.14
	(Shallow)								
RMW-14A	N. Olive	01/09/07	433.12	NA	22.15	NA	410.97	0.00	410.97
		04/11/07	433.12	NA	21.26	NA	411.86	0.00	411.86
RMW-14B	B/C Clay	01/09/07	433.14	NA	22.28	NA	410.86	0.00	410.86
		04/11/07	433.14	NA	21.22	NA	411.92	0.00	411.92
	(Permeable Lens)								
RMW-14C	Main Sand	01/09/07	433.10	NA	36.92	NA	396.18	0.00	396.18
		04/11/07	433.10	NA	34.97	NA	398.13	0.00	398.13
	(below D Clay)								
RMW-15A	N. Olive	01/09/07	432.96	18.82	18.84	414.14	414.12	0.02	414.14
		04/10/07	432.96	NA	17.75	NA	415.21	0.00	415.21
RMW-15B	B/C Clay	01/09/07	432.96	NA	19.00	NA	413.96	0.00	413.96
		04/10/07	432.96	NA	17.97	NA	414.99	0.00	414.99
RMW-15C	EPA / Main	01/09/07	432.95	Skimmer Pump in Well					
		04/10/07	432.95	Skimmer Pump in Well					

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-15D	Main Sand	01/09/07	432.77	NA	37.32	NA	395.45	0.00	395.45
		04/10/07	432.77	NA	35.25	NA	397.52	0.00	397.52
	(Intermediate)								
RMW-15E	Main Sand	01/09/07	432.80	NA	37.34	NA	395.46	0.00	395.46
		04/10/07	432.80	NA	35.25	NA	397.55	0.00	397.55
	(Deep)								
RMW-15F	Main Sand	01/09/07	432.36	NA	36.92	NA	395.44	0.00	395.44
		04/10/07	432.36	NA	34.82	NA	397.54	0.00	397.54
	(Basal)								
RMW-16A	Main Silt	01/10/07	430.07	NA	29.14	NA	400.93	0.00	400.93
		04/11/07	430.07	NA	DRY	NA	--	0.00	--
RMW-16B	Main Sand	01/10/07	430.12	NA	33.11	NA	397.01	0.00	397.01
		04/11/07	430.12	NA	30.55	NA	399.57	0.00	399.57
	(Shallow)								
RMW-16C	Main Sand	01/10/07	430.15	NA	33.31	NA	396.84	0.00	396.84
		04/11/07	430.15	NA	30.54	NA	399.61	0.00	399.61
	(Intermediate)								
RMW-16D	Main Sand	01/10/07	430.13	NA	33.29	NA	396.84	0.00	396.84
		04/11/07	430.13	NA	30.52	NA	399.61	0.00	399.61
	(Deep)								
RMW-16E	Main Sand	01/10/07	430.12	NA	33.25	NA	396.87	0.00	396.87
		04/11/07	430.12	NA	30.50	NA	399.62	0.00	399.62
	(Basal)								
RMW-17A	Main Silt	01/10/07	431.80	NA	DRY	NA	--	0.00	--
		04/11/07	431.80	NA	32.29	NA	399.51	0.00	399.51
RMW-17B	Main Sand	01/10/07	431.79	NA	34.43	NA	397.36	0.00	397.36
		04/11/07	431.79	NA	32.25	NA	399.54	0.00	399.54
	(Shallow)								
RMW-17C	Main Sand	01/10/07	431.51	NA	34.19	NA	397.32	0.00	397.32
		04/11/07	431.51	NA	31.34	NA	400.17	0.00	400.17
	(Intermediate)								
RMW-17D	Main Sand	01/10/07	431.56	NA	34.18	NA	397.38	0.00	397.38
		04/11/07	431.56	NA	31.34	NA	400.22	0.00	400.22
	(Deep)								
RMW-17E	Main Sand	01/10/07	431.61	NA	34.15	NA	397.46	0.00	397.46
		04/11/07	431.61	NA	31.26	NA	400.35	0.00	400.35
	(Basal)								

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
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The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-18A	Main Silt	01/10/07	429.54	NA	25.12	NA	404.42	0.00	404.42
		04/11/07	429.54	NA	25.15	NA	404.39	0.00	404.39
RMW-18B	Main Sand	01/10/07	429.42	NA	32.84	NA	396.58	0.00	396.58
		04/11/07	429.42	NA	30.68	NA	398.74	0.00	398.74
	(Shallow)								
RMW-19A	Main Silt	01/10/07	431.33	NA	32.63	NA	398.70	0.00	398.70
		04/11/07	431.33	NA	31.73	NA	399.60	0.00	399.60
RMW-19B	Main Sand	01/10/07	431.71	NA	33.71	NA	398.00	0.00	398.00
		04/11/07	431.71	NA	31.80	NA	399.91	0.00	399.91
	(Shallow)								
RMW-20A	Main Silt	01/10/07	431.56	Skimmer Pump in Well					
		04/11/07	431.56	Skimmer Pump in Well					
RMW-20B	Main Sand	01/10/07	431.56	Skimmer Pump in Well					
		04/11/07	431.56	Skimmer Pump in Well					
	(Shallow)								
RMW-21A	Main Silt	01/10/07	432.16	NA	29.85	NA	402.31	0.00	402.31
		04/11/07	432.16	NA	29.87	NA	402.29	0.00	402.29
RMW-21B	Main Sand	01/10/07	432.09	32.89	36.10	399.20	395.99	3.21	398.49
		04/11/07	432.09	31.25	32.97	400.84	399.12	1.72	400.46
	(Shallow)								
RMW-21C	Main Sand	01/10/07	429.05	NA	30.65	NA	398.40	0.00	398.40
		04/11/07	429.05	NA	28.61	NA	400.44	0.00	400.44
	(Intermediate)								
RMW-21D	Main Sand	01/10/07	428.73	NA	30.33	NA	398.40	0.00	398.40
		04/11/07	428.73	NA	28.31	NA	400.42	0.00	400.42
	(Deep)								
RMW-21E	Main Sand	01/10/07	428.30	NA	29.89	NA	398.41	0.00	398.41
		04/11/07	428.30	NA	27.84	NA	400.46	0.00	400.46
	(Basal)								
RMW-22A	Main Silt	01/10/07	430.84	NA	DRY	NA	--	0.00	--
		04/11/07	430.84	NA	DRY	NA	--	0.00	--
RMW-22B	Main Sand	01/10/07	430.76	NA	32.25	NA	398.51	0.00	398.51
		04/11/07	430.76	NA	29.95	NA	400.81	0.00	400.81
	(Shallow)								

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-23A	Main Sand	01/10/07	430.45	31.03	33.45	399.42	397.00	2.42	398.89
		04/11/07	430.45	29.22	29.73	401.23	400.72	0.51	401.12
(T 1/7/05)	(Shallow)								
RMW-24A	N. Olive	01/09/07	433.30	NA	22.44	NA	410.86	0.00	410.86
		04/10/07	433.30	NA	22.47	NA	410.83	0.00	410.83
RMW-24B	B/C Clay	01/09/07	433.28	NA	29.06	NA	404.22	0.00	404.22
		04/10/07	433.28	NA	29.03	NA	404.25	0.00	404.25
	(Permeable Lens)								
RMW-24C	EPA / Main	01/09/07	433.28	37.67	37.93	395.61	395.35	0.26	395.55
		04/10/07	433.28	NA	35.39	NA	397.89	0.00	397.89
(T 11/19/04-5/19/05)									
RMW-24D	Main Sand	01/09/07	433.43	NA	37.82	NA	395.61	0.00	395.61
		04/10/07	433.43	NA	35.27	NA	398.16	0.00	398.16
	(below D Clay)								
RMW-25A	EPA	01/09/07	433.51	NA	37.65	NA	395.86	0.00	395.86
		04/10/07	433.51	NA	36.09	NA	397.42	0.00	397.42
(T 2/27/05)									
RMW-25B	Main Sand	01/09/07	433.58	37.94	38.37	395.64	395.21	0.43	395.55
		04/10/07	433.58	35.38	36.22	398.20	397.36	0.84	398.02
(T 11/19/04)	(below D Clay)								
RMW-26A	N. Olive	01/09/07	432.69	NA	DRY	NA	--	0.00	--
		04/10/07	432.69	NA	DRY	NA	--	0.00	--
RMW-26B	B/C Clay	01/09/07	433.01	NA	DRY	NA	--	0.00	--
		04/10/07	433.01	NA	24.34	NA	408.67	0.00	408.67
	(Permeable Lens)								
RMW-26C	EPA	01/09/07	432.79	NA	36.72	NA	396.07	0.00	396.07
		04/10/07	432.79	NA	34.32	NA	398.47	0.00	398.47
(T 2/27/05)									
RMW-26D	Main Sand	01/09/07	432.43	NA	36.88	NA	395.55	0.00	395.55
		04/10/07	432.43	NA	34.41	NA	398.02	0.00	398.02
(T 11/19/04)	(below D Clay)								
RMW-27A	Main Silt	01/09/07	429.81	NA	25.17	NA	404.64	0.00	404.64
		04/10/07	429.81	NA	25.17	NA	404.64	0.00	404.64
RMW-27B	Main Sand	01/09/07	429.81	NA	32.57	NA	397.24	0.00	397.24
		04/10/07	429.81	NA	31.64	NA	398.17	0.00	398.17
	(Shallow)								

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Wells Located in Premcor Facility

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WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-28A	N. Olive	01/09/07	432.42	NA	27.28	NA	405.14	0.00	405.14
		04/10/07	432.42	NA	27.30	NA	405.12	0.00	405.12
RMW-28B	EPA	01/09/07	432.42	Skimmer Pump in Well					
		04/10/07	432.42	Skimmer Pump in Well					
RMW-28C	Main Sand	01/09/07	432.54	NA	37.27	NA	395.27	0.00	395.27
		04/10/07	432.54	NA	35.02	NA	397.52	0.00	397.52
(T 1/7/05)	(below D Clay)								
RMW-29A	Main Silt	01/09/07	432.65	NA	37.02	NA	395.63	0.00	395.63
		04/10/07	432.65	NA	35.34	NA	397.31	0.00	397.31
RMW-30A	Main Silt	01/09/07	428.96	NA	25.34	NA	403.62	0.00	403.62
		04/10/07	428.96	NA	25.35	NA	403.61	0.00	403.61
RMW-30B	Main Sand	01/09/07	428.89	NA	33.77	NA	395.12	0.00	395.12
		04/10/07	428.89	NA	31.55	NA	397.34	0.00	397.34
	(Shallow)								
RMW-31A	Main Silt	01/09/07	433.26	NA	DRY	NA	--	0.00	--
		04/10/07	433.26	NA	DRY	NA	--	0.00	--
RMW-31B	Main Sand	01/09/07	433.35	38.20	42.55	395.15	390.80	4.35	394.19
		04/10/07	433.35	36.60	36.73	396.75	396.62	0.13	396.72
	(Shallow)								
RMW-31C	Main Sand	01/09/07	433.05	NA	38.66	NA	394.39	0.00	394.39
		04/10/07	433.05	NA	36.30	NA	396.75	0.00	396.75
	(Intermediate)								
RMW-31D	Main Sand	01/09/07	432.96	NA	38.11	NA	394.85	0.00	394.85
		04/10/07	432.96	NA	36.17	NA	396.79	0.00	396.79
	(Deep)								
RMW-31E	Main Sand	01/09/07	432.86	NA	38.32	NA	394.54	0.00	394.54
		04/10/07	432.86	NA	36.61	NA	396.25	0.00	396.25
	(Basal)								
RMW-32A	Main Silt	01/09/07	429.52	NA	21.68	NA	407.84	0.00	407.84
		04/10/07	429.52	NA	21.68	NA	407.84	0.00	407.84
RMW-32B	Main Sand	01/09/07	429.37	34.12	37.02	395.25	392.35	2.90	394.61
		04/10/07	429.37	32.43	35.10	396.94	394.27	2.67	396.35
	(Shallow)								

Table 4
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WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-33A	N. Olive	01/09/07	434.59	NA	22.93	NA	411.66	0.00	411.66
		04/10/07	434.59	NA	21.88	NA	412.71	0.00	412.71
RMW-33B	B/C Clay	01/09/07	434.51	NA	24.33	NA	410.18	0.00	410.18
		04/10/07	434.51	NA	23.25	NA	411.26	0.00	411.26
	(Permeable Lens)								
RMW-33C	EPA	01/09/07	434.59	NA	39.01	NA	395.58	0.00	395.58
		04/10/07	434.59	NA	37.10	NA	397.49	0.00	397.49
RMW-33D	Main Sand	01/09/07	434.64	NA	39.21	NA	395.43	0.00	395.43
		04/10/07	434.64	NA	36.55	NA	398.09	0.00	398.09
(T 2/27/05)	(below D Clay)								
RMW-34A	N. Olive	01/09/07	432.24	NA	18.22	NA	414.02	0.00	414.02
		04/10/07	432.24	NA	15.56	NA	416.68	0.00	416.68
Transducer									
RMW-34B	EPA	01/09/07	431.81	NA	35.59	NA	396.22	0.00	396.22
		04/10/07	431.81	NA	33.84	NA	397.97	0.00	397.97
(T 1/7/05)									
RMW-34C	Main Sand	01/09/07	431.95	NA	36.36	NA	395.59	0.00	395.59
		04/10/07	431.95	NA	33.93	NA	398.02	0.00	398.02
(T 1/7/05)	(below D Clay)								
RMW-34D	Main Sand	01/09/07	432.24	NA	36.66	NA	395.58	0.00	395.58
		04/10/07	432.24	NA	34.20	NA	398.04	0.00	398.04
	(Intermediate)								
RMW-34E	Main Sand	01/09/07	432.13	NA	36.53	NA	395.60	0.00	395.60
		04/10/07	432.13	NA	34.09	NA	398.04	0.00	398.04
	(Deep)								
RMW-34F	Main Sand	01/09/07	432.26	NA	36.65	NA	395.61	0.00	395.61
		04/10/07	432.26	NA	34.19	NA	398.07	0.00	398.07
	(Basal)								
RMW-35A	N. Olive	01/09/07	431.99	NA	17.65	NA	414.34	0.00	414.34
		04/10/07	431.99	NA	14.82	NA	417.17	0.00	417.17
RMW-35B	EPA	01/09/07	432.32	NA	34.01	NA	398.31	0.00	398.31
		04/10/07	432.32	NA	31.02	NA	401.30	0.00	401.30
RMW-35C	Main Sand	01/09/07	432.06	NA	36.53	NA	395.53	0.00	395.53
		04/10/07	432.06	NA	34.21	NA	397.85	0.00	397.85
	(below D Clay)								

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RMW-35D	Main Sand	01/09/07	431.70	NA	36.11	NA	395.59	0.00	395.59
		04/10/07	431.70	NA	33.74	NA	397.96	0.00	397.96
	(Intermediate)								
RMW-35E	Main Sand	01/09/07	431.82	NA	36.23	NA	395.59	0.00	395.59
		04/10/07	431.82	NA	33.86	NA	397.96	0.00	397.96
	(Deep)								
RMW-35F	Main Sand	01/09/07	432.35	NA	36.72	NA	395.63	0.00	395.63
		04/10/07	432.35	NA	34.35	NA	398.00	0.00	398.00
	(Basal)								
RMW-36A	N. Olive	01/09/07	431.57	NA	20.29	NA	411.28	0.00	411.28
		04/10/07	431.57	NA	20.26	NA	411.31	0.00	411.31
RMW-36B	EPA	01/09/07	431.37	NA	34.14	NA	397.23	0.00	397.23
		04/10/07	431.37	NA	31.96	NA	399.41	0.00	399.41
RMW-36C	Main Sand	01/09/07	431.67	NA	36.12	NA	395.55	0.00	395.55
		04/10/07	431.67	NA	33.97	NA	397.70	0.00	397.70
	(below D Clay)								
RMW-36D	Main Sand	01/09/07	431.12	NA	35.54	NA	395.58	0.00	395.58
		04/10/07	431.12	NA	33.43	NA	397.69	0.00	397.69
	(Intermediate)								
RMW-36E	Main Sand	01/09/07	431.02	NA	35.41	NA	395.61	0.00	395.61
		04/10/07	431.02	NA	33.49	NA	397.53	0.00	397.53
	(Deep)								
RMW-36F	Main Sand	01/09/07	431.19	NA	35.58	NA	395.61	0.00	395.61
		04/10/07	431.19	NA	33.45	NA	397.74	0.00	397.74
	(Basal)								
RMW-37A	Main Silt	01/09/07	431.40	NA	19.23	NA	412.17	0.00	412.17
		04/10/07	431.40	NA	24.35	NA	407.05	0.00	407.05
RMW-37B	Main Sand	01/09/07	431.50	NA	35.79	NA	395.71	0.00	395.71
		04/10/07	431.50	NA	36.17	NA	395.33	0.00	395.33
	(Shallow)								
RMW-38A	Main Sand	01/09/07	433.00	**Skimmer Pump in Well**					
		04/10/07	433.00	**Skimmer Pump in Well**					
(T 12/7/04-1/6/05)	(below D Clay)								
RMW-39A	Main Silt	01/09/07	431.06	NA	17.99	NA	413.07	0.00	413.07
		04/11/07	431.06	NA	18.01	NA	413.05	0.00	413.05

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-39B	Main Silt	01/09/07	431.29	NA	28.61	NA	402.68	0.00	402.68
		04/11/07	431.29	NA	DRY	NA	--	0.00	--
RMW-39C	Main Sand	01/09/07	431.27	NA	34.98	NA	396.29	0.00	396.29
		04/11/07	431.27	NA	33.78	NA	397.49	0.00	397.49
	(Shallow)								
RMW-40	EPA	01/09/07	432.41	NA	36.45	NA	395.96	0.00	395.96
		04/10/07	432.41	NA	34.96	NA	397.45	0.00	397.45
(T 2/27/05)									
RMW-41A	Main Sand	01/09/07	434.03	NA	38.93	NA	395.10	0.00	395.10
		04/10/07	434.03	NA	35.75	NA	398.28	0.00	398.28
Transducer	(Intermediate)								
RMW-41B	Main Sand	01/09/07	433.97	NA	38.78	NA	395.19	0.00	395.19
		04/10/07	433.97	NA	35.69	NA	398.28	0.00	398.28
	(Deep)								
RMW-41C	Main Sand	01/09/07	434.05	NA	38.76	NA	395.29	0.00	395.29
		04/10/07	434.05	NA	35.74	NA	398.31	0.00	398.31
	(Basal)								
RMW-42A	N. Olive	01/09/07	431.76	NA	DRY	NA	--	0.00	--
		04/10/07	431.76	NA	DRY	NA	--	0.00	--
RMW-42B	EPA	01/09/07	432.01	NA	36.13	NA	395.88	0.00	395.88
		04/10/07	432.01	31.42	31.75	400.59	400.26	0.33	400.52
RMW-42C	Main Sand	01/09/07	431.98	NA	36.32	NA	395.66	0.00	395.66
		04/10/07	431.98	NA	34.10	NA	397.88	0.00	397.88
Transducer	(below D Clay)								
RMW-43A	Main Sand	01/10/07	433.74	NA	35.13	NA	398.61	0.00	398.61
		04/11/07	433.74	NA	32.03	NA	401.71	0.00	401.71
	(Intermediate)								
RMW-43B	Main Sand	01/10/07	433.25	NA	34.62	NA	398.63	0.00	398.63
		04/11/07	433.25	NA	31.52	NA	401.73	0.00	401.73
	(Deep)								
RMW-43C	Main Sand	01/10/07	432.67	NA	34.05	NA	398.62	0.00	398.62
		04/11/07	432.67	NA	30.95	NA	401.72	0.00	401.72
	(Basal)								
RMW-44A	Main Sand	01/09/07	431.24	NA	35.55	NA	395.69	0.00	395.69
		04/11/07	431.24	NA	34.18	NA	397.06	0.00	397.06
	(Intermediate)								

Table 4

SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL

Wells Located in Premcor Facility

1190500002 – Madison County -- ILD041889023

The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-44B	Main Sand	01/09/07	431.16	NA	35.49	NA	395.67	0.00	395.67
		04/11/07	431.16	NA	34.10	NA	397.06	0.00	397.06
	(Deep)								
RMW-44C	Main Sand	01/09/07	430.95	NA	35.23	NA	395.72	0.00	395.72
		04/11/07	430.95	NA	33.82	NA	397.13	0.00	397.13
	(Basal)								
RMW-45A	N. Olive	01/09/07	430.84	NA	16.88	NA	413.96	0.00	413.96
		04/10/07	430.84	NA	16.90	NA	413.94	0.00	413.94
RMW-45B	Main Sand	01/09/07	430.80	**Skimmer Pump in Well**					
		04/10/07	430.80	**Skimmer Pump in Well**					
	(Shallow)								
RMW-45C	Main Sand	01/09/07	430.75	NA	35.02	NA	395.73	0.00	395.73
		04/10/07	430.75	NA	32.42	NA	398.33	0.00	398.33
	(Shallow)								
RMW-46A	N. Olive	01/09/07	428.79	NA	DRY	NA	--	0.00	--
		04/10/07	428.79	NA	14.76	NA	414.03	0.00	414.03
RMW-46B	EPA	01/09/07	429.07	NA	33.06	NA	396.01	0.00	396.01
		04/10/07	429.07	NA	31.78	NA	397.29	0.00	397.29
RMW-46C	Main Sand	01/09/07	428.98	NA	33.36	NA	395.62	0.00	395.62
		04/10/07	428.98	NA	31.15	NA	397.83	0.00	397.83
	(below D Clay)								
RMW-47A	N. Olive	01/09/07	433.82	NA	22.12	NA	411.70	0.00	411.70
		04/10/07	433.82	NA	22.14	NA	411.68	0.00	411.68
RMW-47B	EPA	01/09/07	433.50	37.98	38.42	395.52	395.08	0.44	395.42
		04/10/07	433.50	NA	35.43	NA	398.07	0.00	398.07
Transducer									
RMW-47C	Main Sand	01/09/07	433.48	NA	38.01	NA	395.47	0.00	395.47
		04/10/07	433.48	NA	34.93	NA	398.55	0.00	398.55
	(below D Clay)								
RMW-48A	N. Olive	01/09/07	433.82	NA	17.56	NA	416.26	0.00	416.26
		04/10/07	433.82	NA	17.58	NA	416.24	0.00	416.24
RMW-48B	Main Sand	01/09/07 ***	435.99	**H2A Present**					
		04/10/07	434.16	**Skimmer Pump in Well**					
	(Shallow)								

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-49A	N. Olive	01/09/07	429.86	NA	16.19	NA	413.67	0.00	413.67
		04/10/07	429.86	NA	16.11	NA	413.75	0.00	413.75
RMW-49B	Main Sand	01/09/07 ***	433.58	37.49	39.19	396.09	394.39	1.70	395.72
		04/10/07	429.96	31.42	31.89	398.54	398.07	0.47	398.44
	(Shallow)								
RMW-50A	Main Sand	01/10/07	431.82	NA	34.28	NA	397.54	0.00	397.54
		04/11/07	431.82	NA	32.03	NA	399.79	0.00	399.79
	(Shallow)								
RMW-50B	Main Sand	01/10/07	431.66	NA	34.16	NA	397.50	0.00	397.50
		04/11/07	431.66	NA	31.42	NA	400.24	0.00	400.24
	(Intermediate)								
RMW-50C	Main Sand	01/10/07	431.64	NA	34.13	NA	397.51	0.00	397.51
		04/11/07	431.64	NA	31.40	NA	400.24	0.00	400.24
	(Deep)								
RMW-50D	Main Sand	01/10/07	431.60	NA	34.01	NA	397.59	0.00	397.59
		04/11/07	431.60	NA	31.27	NA	400.33	0.00	400.33
	(Basal)								
RMW-51A	Main Sand	01/10/07	428.59	NA	30.64	NA	397.95	0.00	397.95
		04/11/07	428.59	NA	28.72	NA	399.87	0.00	399.87
	(Shallow)								
RMW-51B	Main Sand	01/10/07	428.42	NA	30.33	NA	398.09	0.00	398.09
		04/11/07	428.42	NA	27.31	NA	401.11	0.00	401.11
	(Intermediate)								
RMW-51C	Main Sand	01/10/07	428.70	NA	30.61	NA	398.09	0.00	398.09
		04/11/07	428.70	NA	27.58	NA	401.12	0.00	401.12
	(Deep)								
RMW-51D	Main Sand	01/10/07	428.20	NA	30.14	NA	398.06	0.00	398.06
		04/11/07	428.20	NA	27.15	NA	401.05	0.00	401.05
	(Basal)								
RMW-52A	Main Sand	01/10/07	432.37	NA	33.30	NA	399.07	0.00	399.07
		04/11/07	432.37	NA	30.37	NA	402.00	0.00	402.00
	(Shallow)								
RMW-52B	Main Sand	01/10/07	432.30	NA	33.24	NA	399.06	0.00	399.06
		04/11/07	432.30	NA	30.08	NA	402.22	0.00	402.22
	(Intermediate)								
RMW-52C	Main Sand	01/10/07	432.26	NA	33.18	NA	399.08	0.00	399.08
		04/11/07	432.26	NA	29.99	NA	402.27	0.00	402.27
	(Deep)								

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RMW-52D	Main Sand	01/10/07	432.21	NA	33.12	NA	399.09	0.00	399.09
		04/11/07	432.21	NA	29.93	NA	402.28	0.00	402.28
	(Basal)								
RMW-53A	Main Sand	01/10/07	433.55	NA	34.08	NA	399.47	0.00	399.47
		04/11/07	433.55	NA	30.75	NA	402.80	0.00	402.80
	(Intermediate)								
RMW-53B	Main Sand	01/10/07	433.46	NA	33.96	NA	399.50	0.00	399.50
		04/11/07	433.46	NA	30.64	NA	402.82	0.00	402.82
	(Deep)								
RMW-53C	Main Sand	01/10/07	433.46	NA	33.97	NA	399.49	0.00	399.49
		04/11/07	433.46	NA	30.66	NA	402.80	0.00	402.80
	(Basal)								
RMW-54A	Main Sand	01/10/07	431.80	NA	32.28	NA	399.52	0.00	399.52
		04/11/07	431.80	NA	29.31	NA	402.49	0.00	402.49
	(Intermediate)								
RMW-54B	Main Sand	01/10/07	431.70	NA	32.17	NA	399.53	0.00	399.53
		04/11/07	431.70	NA	29.21	NA	402.49	0.00	402.49
	(Deep)								
RMW-54C	Main Sand	01/10/07	431.59	NA	32.06	NA	399.53	0.00	399.53
		04/11/07	431.59	NA	29.10	NA	402.49	0.00	402.49
	(Basal)								
RMW-55A	Main Sand	01/10/07	429.86	NA	30.36	NA	399.50	0.00	399.50
		04/11/07	429.86	NA	27.73	NA	402.13	0.00	402.13
	(Intermediate)								
RMW-55B	Main Sand	01/10/07	429.99	NA	30.48	NA	399.51	0.00	399.51
		04/11/07	429.99	NA	27.85	NA	402.14	0.00	402.14
	(Deep)								
RMW-55C	Main Sand	01/10/07	430.06	NA	30.57	NA	399.49	0.00	399.49
		04/11/07	430.06	NA	27.92	NA	402.14	0.00	402.14
	(Basal)								
RMW-56A	EPA	01/09/07	434.71	40.69	40.90	394.02	393.81	0.21	393.97
		04/11/07	434.71	36.50	36.83	398.21	397.88	0.33	398.14
Transducer									
RMW-56B	Main Sand	01/09/07	434.61	NA	40.69	NA	393.92	0.00	393.92
		04/10/07	434.61	NA	36.29	NA	398.32	0.00	398.32
Transducer	(below D Clay)								
RMW-57A	EPA	01/09/07 ***	436.03	**H2A Present**					
		04/10/07	434.23	36.04	36.39	398.19	397.84	0.35	398.11

Table 4
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Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-57B	Main Sand	01/09/07 ***	435.98	H2A Present					
		04/10/07	434.19	NA	35.78	NA	398.41	0.00	398.41
	(below D Clay)								
RMW-58A	EPA	01/09/07	430.93	33.17	35.85	397.76	395.08	2.68	397.17
		04/10/07	430.93	31.75	35.01	399.18	395.92	3.26	398.46
RMW-58B	Main Sand	01/09/07	430.98	35.17	35.54	395.81	395.44	0.37	395.73
		04/10/07	430.98	33.16	33.51	397.82	397.47	0.35	397.74
RMW-59A	EPA	01/09/07	430.83	33.10	35.79	397.73	395.04	2.69	397.14
		04/10/07	430.83	31.63	35.03	399.20	395.80	3.40	398.45
RMW-59B	Main Sand	01/09/07	430.97	NA	35.25	NA	395.72	0.00	395.72
		04/10/07	430.97	NA	33.22	NA	397.75	0.00	397.75
	(below D Clay)								
RMW-60A	N. Olive	01/09/07	430.79	NA	17.71	NA	413.08	0.00	413.08
		04/10/07	430.79	NA	17.75	NA	413.04	0.00	413.04
RMW-60B	EPA	01/09/07	430.78	33.17	35.78	397.61	395.00	2.61	397.04
		04/10/07	430.78	31.73	35.04	399.05	395.74	3.31	398.32
RMW-60C	Main Sand	01/09/07	430.78	33.85	39.67	396.93	391.11	5.82	395.65
		04/10/07	430.78	31.62	38.48	399.16	392.30	6.86	397.65
	(below D Clay)								
RMW-61A	EPA	01/09/07	429.91	32.60	34.72	397.31	395.19	2.12	396.84
		04/10/07	429.91	31.59	32.54	398.32	397.37	0.95	398.11
RMW-61B	Main Sand	01/09/07	429.71	NA	34.33	NA	395.38	0.00	395.38
		04/10/07	429.71	NA	32.24	NA	397.47	0.00	397.47
	(below D Clay)								
RMW-62A	EPA	01/09/07	429.70	32.35	34.57	397.35	395.13	2.22	396.86
		04/10/07	429.70	31.42	32.08	398.28	397.62	0.66	398.13
RMW-62B	Main Sand	01/09/07	429.52	NA	34.09	NA	395.43	0.00	395.43
		04/10/07	429.52	NA	32.03	NA	397.49	0.00	397.49
Transducer	(below D Clay)								
RMW-63A	N. Olive	01/09/07	429.75	NA	14.04	NA	415.71	0.00	415.71
		04/10/07	429.75	NA	13.02	NA	416.73	0.00	416.73

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WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-63B	EPA	01/09/07	429.63	NA	32.80	NA	396.83	0.00	396.83
		04/10/07	429.63	NA	31.48	NA	398.15	0.00	398.15
RMW-63C	Main Sand	01/09/07	429.53	NA	34.02	NA	395.51	0.00	395.51
		04/10/07	429.53	NA	32.01	NA	397.52	0.00	397.52
	(below D Clay)								
RMW-64A	A Clay		433.52	--	--	--	--	--	--
RMW-64B	EPA	01/09/07	433.52	37.85	38.59	395.67	394.93	0.74	395.51
		04/10/07	433.52	NA	35.82	NA	397.70	0.00	397.70
RMW-64C	Main Sand	01/09/07	433.61	NA	38.12	NA	395.49	0.00	395.49
		04/10/07	433.61	35.55	35.57	398.06	398.04	0.02	398.06
	(below D Clay)								
RMW-65A	Main Silt	01/09/07	433.79	NA	30.00	NA	403.79	0.00	403.79
		04/11/07	433.79	NA	29.98	NA	403.81	0.00	403.81
RMW-65B	Main Sand	01/09/07	433.90	NA	38.05	NA	395.85	0.00	395.85
		04/11/07	433.90	NA	36.63	NA	397.27	0.00	397.27
RMW-65C	Main Sand	01/09/07	433.80	NA	37.86	NA	395.94	0.00	395.94
		04/11/07	433.80	NA	36.40	NA	397.40	0.00	397.40
	(Intermediate)								
RMW-65D	Main Sand	01/09/07	433.70	NA	37.73	NA	395.97	0.00	395.97
		04/11/07	433.70	NA	36.25	NA	397.45	0.00	397.45
	(Deep)								
RMW-65E	Main Sand	01/09/07	433.78	NA	37.79	NA	395.99	0.00	395.99
		04/11/07	433.78	NA	36.31	NA	397.47	0.00	397.47
	(Basal)								
RMW-66A	Main Silt	01/09/07	430.15	NA	25.80	NA	404.35	0.00	404.35
		04/11/07	430.15	NA	25.75	NA	404.40	0.00	404.40
RMW-66B	Main Sand	01/09/07	430.09	NA	34.06	NA	396.03	0.00	396.03
		04/11/07	430.09	NA	32.96	NA	397.13	0.00	397.13
	(Shallow)								
RMW-66C	Main Sand	01/09/07	430.19	NA	34.15	NA	396.04	0.00	396.04
		04/11/07	430.19	NA	33.00	NA	397.19	0.00	397.19
	(Intermediate)								

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SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 – Madison County – ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-66D	Main Sand	01/09/07	429.89	NA	33.85	NA	396.04	0.00	396.04
		04/11/07	429.89	NA	32.69	NA	397.20	0.00	397.20
	(Deep)								
RMW-66E	Main Sand	01/09/07	429.99	NA	33.93	NA	396.06	0.00	396.06
		04/11/07	429.99	NA	32.79	NA	397.20	0.00	397.20
	(Basal)								
RMW-67A	Main Silt	01/09/07	430.99	NA	DRY	NA	--	0.00	--
		04/11/07	430.99	NA	25.93	NA	405.06	0.00	405.06
RMW-67B	Main Sand	01/09/07	431.12	NA	35.06	NA	396.06	0.00	396.06
		04/11/07	431.12	NA	34.31	NA	396.81	0.00	396.81
	(Shallow)								
RMW-67C	Main Sand	01/09/07	430.94	NA	34.87	NA	396.07	0.00	396.07
		04/11/07	430.94	NA	34.13	NA	396.81	0.00	396.81
	(Intermediate)								
RMW-68A	N. Olive	01/09/07	432.70	NA	18.62	NA	414.08	0.00	414.08
		04/11/07	432.70	NA	18.65	NA	414.05	0.00	414.05
RMW-68B	B/C Clay	01/09/07	432.92	29.59	29.62	403.33	403.30	0.03	403.32
		04/11/07	432.92	27.70	29.81	405.22	403.11	2.11	404.76
	(Permeable Lens)								
RMW-68C	EPA	01/09/07	432.76	NA	35.28	NA	397.48	0.00	397.48
		04/11/07	432.76	NA	33.47	NA	399.29	0.00	399.29
RMW-68D	Main Sand	01/09/07	432.63	NA	36.53	NA	396.10	0.00	396.10
		04/11/07	432.63	NA	34.40	NA	398.23	0.00	398.23
	(below D Clay)								
RMW-68E	Main Sand	01/09/07	432.51	NA	36.31	NA	396.20	0.00	396.20
		04/11/07	432.51	NA	34.25	NA	398.26	0.00	398.26
	(Intermediate)								
RMW-68F	Main Sand	01/09/07	432.51	NA	36.29	NA	396.22	0.00	396.22
		04/11/07	432.51	NA	34.23	NA	398.28	0.00	398.28
	(Deep)								
RMW-68G	Main Sand	01/09/07	432.46	NA	36.27	NA	396.19	0.00	396.19
		04/11/07	432.46	NA	34.18	NA	398.28	0.00	398.28
	(Basal)								
RMW-69A	N. Olive	01/09/07	432.35	NA	14.85	NA	417.50	0.00	417.50
		04/11/07	432.35	NA	13.30	NA	419.05	0.00	419.05

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-69B	EPA	01/09/07	432.41	NA	34.73	NA	397.68	0.00	397.68
		04/11/07	432.41	32.86	33.28	399.55	399.13	0.42	399.46
RMW-69C	Main Sand	01/09/07	432.43	NA	35.61	NA	396.82	0.00	396.82
		04/11/07	432.43	NA	33.94	NA	398.49	0.00	398.49
	(below D Clay)								
RMW-69D	Main Sand	01/09/07	432.43	NA	35.50	NA	396.93	0.00	396.93
		04/11/07	432.43	NA	33.88	NA	398.55	0.00	398.55
	(Intermediate)								
RMW-69E	Main Sand	01/09/07	432.56	NA	35.61	NA	396.95	0.00	396.95
		04/11/07	432.56	NA	34.00	NA	398.56	0.00	398.56
	(Deep)								
RMW-69F	Main Sand	01/09/07	432.69	NA	35.74	NA	396.95	0.00	396.95
		04/11/07	432.69	NA	34.06	NA	398.63	0.00	398.63
	(Basal)								
RMW-70A	A Clay	01/09/07	432.21	NA	20.05	NA	412.16	0.00	412.16
		04/11/07	432.21	NA	DRY	NA	--	0.00	--
	(Permeable Lens)								
RMW-70B	Main Silt	01/09/07	432.30	NA	21.84	NA	410.46	0.00	410.46
		04/11/07	432.30	NA	20.47	NA	411.83	0.00	411.83
RMW-70C	Main Sand	01/09/07	432.24	NA	35.00	NA	397.24	0.00	397.24
		04/11/07	432.24	NA	33.14	NA	399.10	0.00	399.10
	(Shallow)								
RMW-70D	Main Sand	01/09/07	432.07	NA	34.73	NA	397.34	0.00	397.34
		04/11/07	432.07	NA	33.03	NA	399.04	0.00	399.04
	(Intermediate)								
RMW-70E	Main Sand	01/09/07	428.64	NA	31.35	NA	397.29	0.00	397.29
		04/11/07	428.64	NA	29.63	NA	399.01	0.00	399.01
	(Deep)								
RMW-70F	Main Sand	01/09/07	428.83	NA	31.53	NA	397.30	0.00	397.30
		04/11/07	428.83	NA	29.85	NA	398.98	0.00	398.98
	(Basal)								
RMW-71A	Main Sand	01/09/07	428.94	NA	29.42	NA	399.52	0.00	399.52
		04/11/07	428.94	NA	28.98	NA	399.96	0.00	399.96
	(Intermediate)								
RMW-71B	Main Sand	01/09/07	428.76	NA	29.24	NA	399.52	0.00	399.52
		04/11/07	428.76	NA	28.77	NA	399.99	0.00	399.99
	(Deep)								

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-71C	Main Sand	01/09/07	428.71	NA	29.15	NA	399.56	0.00	399.56
		04/11/07	428.71	NA	28.78	NA	399.93	0.00	399.93
	(Basal)								
RMW-72A	N. Olive	01/09/07	429.26	NA	DRY	NA	--	0.00	--
		04/10/07	429.26	NA	DRY	NA	--	0.00	--
RMW-72B	EPA	01/09/07	429.30	33.00	36.31	396.30	392.99	3.31	395.57
		04/10/07	429.30	30.92	32.40	398.38	396.90	1.48	398.05
RMW-72C	Main Sand	01/09/07	429.36	NA	33.81	NA	395.55	0.00	395.55
		04/10/07	429.36	NA	31.30	NA	398.06	0.00	398.06
	(below D Clay)								
RMW-73A	N. Olive	01/09/07	430.15	NA	15.88	NA	414.27	0.00	414.27
		04/10/07	430.15	NA	15.91	NA	414.24	0.00	414.24
RMW-73B	EPA	01/09/07	430.12	34.28	34.30	395.84	395.82	0.02	395.84
		04/10/07	430.12	32.21	32.47	397.91	397.65	0.26	397.85
RMW-73C	Main Sand	01/09/07	430.16	NA	34.97	NA	395.19	0.00	395.19
		04/10/07	430.16	NA	32.87	NA	397.29	0.00	397.29
	(below D Clay)								
RMW-74	N. Olive	01/09/07	433.84	NA	19.18	NA	414.66	0.00	414.66
		04/10/07	433.84	NA	16.86	NA	416.98	0.00	416.98
RMW-75	N. Olive	01/09/07	432.57	NA	18.12	NA	414.45	0.00	414.45
		04/10/07	432.57	NA	15.28	NA	417.29	0.00	417.29
RMW-76	N. Olive	01/09/07	432.34	NA	17.64	NA	414.70	0.00	414.70
		04/10/07	432.34	NA	15.19	NA	417.15	0.00	417.15
RMW-77	N. Olive	01/09/07	429.61	NA	DRY	NA	--	0.00	--
		04/10/07	429.61	NA	16.16	NA	413.45	0.00	413.45
RMW-78	N. Olive	01/09/07	429.41	NA	16.44	NA	412.97	0.00	412.97
		04/10/07	429.41	NA	14.99	NA	414.42	0.00	414.42
RMW-79	N. Olive	01/09/07	429.60	NA	16.12	NA	413.48	0.00	413.48
		04/10/07	429.60	NA	13.77	NA	415.83	0.00	415.83

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 – Madison County – ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-93A	N. Olive	01/09/07	429.19	NA	DRY	NA	--	0.00	--
		04/10/07	429.19	NA	DRY	NA	--	0.00	--
RMW-93B	EPA	01/09/07	429.18	32.73	35.97	396.45	393.21	3.24	395.74
		04/10/07	429.18	30.90	31.92	398.28	397.26	1.02	398.06
RMW-94A	N. Olive	01/09/07	429.61	NA	19.51	NA	410.10	0.00	410.10
		04/10/07	429.61	NA	19.53	NA	410.08	0.00	410.08
RMW-94B	Main Sand	01/09/07	429.56	33.21	35.66	396.35	393.90	2.45	395.81
		04/10/07	429.56	31.06	31.81	398.50	397.75	0.75	398.34
	(Shallow)								
RMW-95	Main Sand	01/09/07 ***	432.66	36.78	38.51	395.88	394.15	1.73	395.50
		04/10/07	429.68	31.25	31.59	398.43	398.09	0.34	398.36
	(Shallow)								
RMW-96	Main Sand	01/09/07 ***	431.69	35.57	37.46	396.12	394.23	1.89	395.70
		04/10/07	429.68	31.27	31.67	398.41	398.01	0.40	398.32
	(Shallow)								
RMW-97	Main Sand	01/09/07 ***	432.94	36.89	38.99	396.05	393.95	2.10	395.59
		04/10/07	429.83	31.39	31.87	398.44	397.96	0.48	398.33
	(Shallow)								
RMW-98A	Main Silt	01/09/07	429.75	NA	DRY	NA	--	0.00	--
		04/10/07	429.75	NA	DRY	NA	--	0.00	--
RMW-98B	Main Sand	01/09/07	429.69	33.33	34.96	396.36	394.73	1.63	396.00
		04/10/07	429.69	30.71	33.76	398.98	395.93	3.05	398.31
	(Shallow)								
RPW-01	EPA / Main	01/09/07	431.44	56.26	56.31	375.18	375.13	0.05	375.17
		04/10/07	431.44	NA	33.14	NA	398.30	0.00	398.30
SVE-1S	N. Olive	01/09/07	431.11	NA	24.60	NA	406.51	0.00	406.51
		04/10/07	431.11	NA	25.23	NA	405.88	0.00	405.88
SVE-1D	EPA	01/09/07	430.66	36.18	36.60	394.48	394.06	0.42	394.39
		04/10/07	430.66	NA	33.12	NA	397.54	0.00	397.54

Table 4
SUMMARY OF 2007 GROUNDWATER ELEVATIONS THROUGH APRIL
Wells Located in Premcor Facility

1190500002 -- Madison County -- ILD041889023
The Premcor Refining Group Inc. / Hartford, Illinois

WELL	Stratum Screened	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
T-1	Main Sand	01/10/07	431.44	Skimmer Pump in Well					
		04/11/07	431.44	Skimmer Pump in Well					
	(Shallow)								
TH2-88	Main Sand	01/09/07	430.88	NA	34.08	NA	396.80	0.00	396.80
		04/11/07	430.88	NA	32.31	NA	398.57	0.00	398.57
@P7 Well	(Shallow)								
River Dock	NA	01/09/07	--	NA	0.00	NA	--	0.00	--
		04/11/07	--	NA	DRY	NA	--	0.00	--
North Staff Gauge									
River Dock	NA	01/09/07	--	NA	Gauge Removed				
		04/11/07	--	NA	Gauge Removed				
South Staff Gauge									
Fire Pond	NA	01/09/07	442.21	NA	7.40	NA	434.81	0.00	434.81
		04/10/07	442.21	NA	7.27	NA	434.94	0.00	434.94
Staff Gauge									
Guard Basin	NA	01/09/07	432.10	NA	15.46	NA	416.64	0.00	416.64
		04/12/07	432.10	NA	15.89	NA	416.21	0.00	416.21
Staff Gauge									

NOTES:

NA = Not Applicable

-- = No data

(T xx/xx/xxxx) = Date transducer installed in well, however, data may be from miniTROLL or manual gauging.

[1] Piezometric surface elevation = [(A)-(C)]+S.G.[(C)-(B)]

*** = TOC of well was temporarily altered with an extension (Extension length(ft) : RMW-57A - 1.80, RMW-57B- 1.79, RMW-48B-1.83, RMP-9C-1.73, RMP-10C- 2.55, RMP-11C-2.47, RMW-49B- 3.62, RMW-95 2.98, RMW-96-2.01, RMW-97-3.11)

SG = Specific gravity of hydrocarbon determined to be an average of 0.78 on the Premcor facility for data recorded during and after 9/03.

MP- and SVE-series installed by Clayton in 6/03. MP-series installed as vacuum monitoring probes. SVE-series installed as soil vapor extraction wells. MP- and SVE-series not appropriate for determining groundwater flow.

DS-series, RMW-series, RMP-series and RPW-series installed by Clayton.

Remaining wells installed by others. P-6N, E & S series wells immediately surround Production Well P-6.

TOC elevations surveyed to USGS datum by CMT.

Stratums qualified with a ? are currently under review.

Top of casing elevation changes present in the table indicate that the associated wells have been re-surveyed.

TABLE 5
COMPOUND/ANALYTE LIST FOR WATER SAMPLES - VOCs & Inorganics
The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR000128249
The Hartford Working Group / Hartford, Illinois

PARAMETER	PREPARATION METHOD		ANALYTICAL METHOD		COMPOUND	METHOD DETECTION LIMIT (MDL) (a)	PRACTICAL QUANTITATION LIMIT (PQL) (a)	PROJECT DETECTION LIMIT (PDL) (b)
	Source	Method No.	Source	Method No.				
VOCs						(µg/L)	(µg/L)	(µg/L)
	SW-846	5030	SW-846	8260	Benzene	0.5	2	5
	SW-846	5030	SW-846	8260	Ethylbenzene	1	5	700
	SW-846	5030	SW-846	8260	Methyl tertiary butyl ether (MTBE)	0.5	2	70
	SW-846	5030	SW-846	8260	Toluene	1	5	1,000
	SW-846	5030	SW-846	8260	Xylenes (total)	1	5	10,000
Metals						(mg/L)	(mg/L)	(mg/L)
	SW-846	3020A	SW-846	7041	Antimony	0.0017	0.005	0.006
	SW-846	3020A	SW-846	7060A	Arsenic	0.0007	0.003	0.05
	SW-846	3005A	SW-846	6010	Barium	0.0024	0.005	2.0
	SW-846	3005A	SW-846	6010	Beryllium	0.0003	0.001	0.004
	SW-846	3005A	SW-846	6010	Cadmium	0.0003	0.002	0.005
	SW-846	3005A	SW-846	6010	Chromium-Total	0.004	0.01	0.1
	SW-846	3005A	SW-846	6010	Cobalt	0.0022	0.01	1.0
	SW-846	3005A	SW-846	6010	Iron	0.007	0.02	5.0
	SW-846	3020A	SW-846	7421	Lead	0.0004	0.002	0.0075
	--	--	SW-846	7470	Mercury	0.000051	0.0002	0.002
	SW-846	3005A	SW-846	6010	Nickel	0.0033	0.01	0.1
	SW-846	3020A	SW-846	7740	Selenium	0.0035	0.006	0.05
	SW-846	3005A	SW-846	6010	Silver	0.003	0.01	0.05
	SW-846	3005A	SW-846	6010	Vanadium	0.0032	0.01	0.049
	SW-846	3005A	SW-846	6010	Zinc	0.0021	0.01	5.0

TABLE 5
COMPOUND/ANALYTE LIST FOR WATER SAMPLES - VOCs & Inorganics
The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR000128249
The Hartford Working Group / Hartford, Illinois

PARAMETER	PREPARATION METHOD		ANALYTICAL METHOD		COMPOUND	METHOD DETECTION LIMIT (MDL) (a)	PRACTICAL QUANTITATION LIMIT (PQL) (a)	PROJECT DETECTION LIMIT (PDL) (b)
	Source	Method No.	Source	Method No.				
General						(mg/L)	(mg/L)	(mg/L)
	--	--	Standard Method	M2320B	Alkalinity, Total (as, Ca, CO_3)	0	0	NA
	--	--	EPA Method	E350.1	Ammonia as N	0.04	0.1	NA
	--	--	SW-846	9251.0	Chloride	0.6	1	200
	--	--	Standard Method	M5220D	COD	7.3	20	NA
	--	--	SW-846	9010B, 9014	Cyanide Total	0.003	0.007	0.2
	--	--	SW-846	9012A	Cyanide Total	0.003	0.007	0.2
	--	--	Standard Method	M2340C	Hardness (as, Ca, CO_3)	3	5	NA
	--	--	EPA Method	E353.2	Nitrate as N	0.010	0.05	10.0
	--	--	EPA Method	E353.2	Nitrate-Nitrite	0.010	0.05	NA
	--	--	EPA Method	E353.2	Nitrite as N	0.01	0.05	NA
	--	--	EPA Method	E353.3	Nitrite as N	0.01	0.01	NA
	--	--	EPA Method	E365.2	Phosphorus as P	0.01	0.02	NA
	--	--	EPA Method	E365.4	Phosphorus as P	0.02	0.02	NA
	--	--	EPA Method	E365.2 (D)	Phosphorus, Dissolved as P	0.01	0.02	NA
	--	--	EPA Method	E365.4 (D)	Phosphorus, Dissolved as P	0.02	0.02	NA
	--	--	SW-846	9036.0	Sulfate	40	40	400
	--	--	SW-846	9038.0	Sulfate	1.0	5	400
	--	--	Standard Method	M4500SD	Sulfide	0.013	0.50	NA
	--	--	Standard Method	M2540C	Total Dissolved Solids	10	20	NA
	--	--	EPA Method	E415.1	Total Organic Carbon	0.5	1	NA
	--	--	Standard Method	M2540D	Total Suspended Solids	5	6	NA

NOTES:
µg/L = Micrograms per liter
mg/L = Milligrams per liter [except for ph (unitless)].
(a) = Method detection limit and practical quantitation limit as identified by Teklab, Inc. (Hennessy, 2007).
(b) = Project detection limit (PDL) is the IPCB TACO Tier 1 Class I Groundwater Remediation Objective (02/15/07).
NA = Not available.
-- = Not applicable

TABLE 6
SAMPLE CONTAINER, PRESERVATION, AND HOLDING TIME REQUIREMENTS FOR WATER SAMPLES
The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR000128249
The Hartford Working Group / Hartford, Illinois

PARAMETER	ANALYSIS	HOLDING TIME	CONTAINER	PRESERVATION
Organics	BETX and MTBE	14 days	3-40 ml VOC vials	HCl to pH < 2, no headspace Maintained at 4 +/- 2 degrees Celcius
Metals	Inorganic Metals	180 days	500 ml plastic jar	HNO_3 to pH<2 Maintained at 4 +/- 2 degrees Celcius
	Mercury	28 days		
General	Alkalinity	14 days	1 L plastic jar	Maintained at 4 +/- 2 degrees Celcius
	Chloride	28 days		
	Sulfate	28 days		
	Hardness	180 days		
	Nitrite	48 hours		
	Total Dissolved Solids (TDS)	7 days		
	Total Suspended Solids (TSS)	7 days		
	Total Cyanide	14 days	250 ml plastic jar	NaOH to pH>12 Maintained at 4 +/- 2 degrees Celcius
	Chemical Oxygen Demand (COD)	28 days	500 ml plastic jar	H2SO4 to pH<2 Maintained at 4 +/- 2 degrees Celcius
	Ammonia, Total	28 days		
	Phosphorus, Total	28 days		
	Nitrate +/- Nitrite	28 days		
	Phosphorus, Dissolved	28 days	250 ml plastic	H2SO4 to pH<2 Maintained at 4 +/- 2 degrees Celcius
	Total Organic Carbon (TOC)	28 days	125 ml plastic	H2SO4 to pH<2 Maintained at 4 +/- 2 degrees Celcius
	Sulfide, Total	7 days	250 ml plastic jar	NaOH and ZnAcetate to pH>9 Maintained at 4 +/- 2 degrees Celcius

Table 7
Summary of Groundwater Analytical Results
BETX and MTBE
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	RESULT TYPE	SAMPLE ID	Benzene (ug/l)	Ethylbenzene (ug/l)	Toluene (ug/l)	Xylene (total) (ug/l)	Methyl tert-butyl ether (ug/l)
COMPARISON VALUE				5	700	1000	10000	70
HMW-25	04/13/2007	Prim	HWM-25/070413	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-25	04/13/2007	Dup 1	DUP-001/070413	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-26	04/13/2007	Prim	HMW-26/070413	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-27	04/13/2007	Prim	HMW-27/070413	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-28	04/13/2007	Prim	HMW-28/070413	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	04/16/2007	Prim	HMW-29/070416	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-39B	04/13/2007	Prim	HMW-39B/07041	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-39C	04/16/2007	Prim	HMW-39C/07041	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-40C	04/13/2007	Prim	HMW-40C/07041	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-40C	04/13/2007	Dup 1	DUP-001/070413	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-49B	04/16/2007	Prim	HMW-49B/07041	**90.0**	483	<25.0	58.7	<10
HMW-49C	04/16/2007	Prim	HMW-49C/07041	**1010**	**1890**	310	527	**152**
HMW-49D	04/16/2007	Prim	HMW-49D/07041	**84.4**	1.6J	4.7J	6.7	44.4
HMW-50A	04/13/2007	Prim	HMW-50A/07041	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-50B	04/13/2007	Prim	HMW-50B/07041	0.7J	<5.0	<5.0	<5.0	<2.0
HMW-50C	04/16/2007	Prim	HMW-50C/07041	**141**	<5.0	8.2	10.9	7.3
HMW-50C	04/16/2007	Dup 1	DUP-002/070416	**153**	<5.0	9.0	12.9	7.8
HMW-52C	04/13/2007	Prim	HMW-52C/07041	<2.0	<5.0	<5.0	<5.0	<2.0
MP-81C	04/16/2007	Prim	MP-81C/070416	<2.0	<5.0	<5.0	<5.0	<2.0

See Notes at End of Table

Table 7
Summary of Groundwater Analytical Results
BETX and MTBE
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	RESULT TYPE	SAMPLE ID	Benzene (ug/l)	Ethylbenzene (ug/l)	Toluene (ug/l)	Xylene (total) (ug/l)	Methyl tert-butyl ether (ug/l)
COMPARISON VALUE				5	700	1000	10000	70
MP-89A	04/13/2007	Prim	MP-89A/070413	<2.0	<5.0	<5.0	<5.0	<2.0
MP-89C	04/16/2007	Prim	MP-89C/070416	<2.0	<5.0	<5.0	<5.0	<2.0
MP-92D	04/16/2007	Prim	MP-92D/070416	<2.0	<5.0	<5.0	<5.0	<2.0

See Notes at End of Table

NOTES

TABLES 7, 8 and 9

Comparison values are Tier 1 Class 1 Groundwater Remediation Objectives from Illinois EPA's Tiered Approach to Corrective Action Objectives (35 IAC Part 742) last amended February 15, 2007. Groundwater quality values listed in 35 IAC Part 742 used for comparison purposes only.

mg/L = Milligrams per liter.

µg/L = Micrograms per liter.

J = Estimated value. Compound detected below the practical quantitation limit (PQL).

NA = Constituent not analyzed by laboratory.

B = Analyte detected in the associated Method Blank.

R = RPD outside accepted recovery limits.

S = Spike Recovery outside accepted recovery limits.

Table 8
Summary of Groundwater Analytical Results
Metals (Total and Dissolved)
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HWM-25/070413 04/13/2007 Primary	HMW-25 DUP-001/070413 04/13/2007 Duplicate 1	HMW-26 HMW-26/070413 04/13/2007 Primary	HMW-27 HMW-27/070413 04/13/2007 Primary	HMW-28 HMW-28/070413 04/13/2007 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	0.0009J	0.0009J	0.0042	0.0022J	0.0007J
Arsenic (Dissolved)	(mg/l)	0.05	0.0010J	0.0010J	0.0059	0.0025J	<0.0030S
Barium	(mg/l)	2	0.256	0.253	0.204	0.167	0.104
Barium (Dissolved)	(mg/l)	2	0.246	0.247	0.193	0.156	0.0959
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	0.0007J	<0.0020	0.0004J	0.0003J	0.0006J
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	0.0005J	<0.0020	<0.0020	0.0004J
Chromium	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Cobalt	(mg/l)	1	0.0024J	0.0023J	<0.0100	0.0051J	0.0212
Cobalt (Dissolved)	(mg/l)	1	<0.0100	0.0036J	<0.0100	0.0033J	0.0104
Iron	(mg/l)	5	0.149	0.0704	**29.3**	3.78	0.0922
Iron (Dissolved)	(mg/l)	5	0.0329	0.0353	**33.1**	2.60	<0.0200
Lead	(mg/l)	0.0075	<0.0020	0.0055S	<0.0020	<0.0020	<0.0020
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	(mg/l)	0.1	0.0094J	0.0093J	<0.0100	0.0092J	0.0214

See Notes at End of Table

Table 8
Summary of Groundwater Analytical Results
Metals (Total and Dissolved)
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HWM-25/070413 04/13/2007 Primary	HMW-25 DUP-001/070413 04/13/2007 Duplicate 1	HMW-26 HMW-26/070413 04/13/2007 Primary	HMW-27 HMW-27/070413 04/13/2007 Primary	HMW-28 HMW-28/070413 04/13/2007 Primary
Nickel (Dissolved)	(mg/l)	0.1	0.0089J	0.0089J	<0.0100	0.0087J	0.0199
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zinc	(mg/l)	5	0.0056J	0.0039J	0.0044J	0.0213	0.0075J
Zinc (Dissolved)	(mg/l)	5	<0.0100	0.0022J	0.0022J	0.0048J	0.0053J

See Notes at End of Table

Table 8
Summary of Groundwater Analytical Results
Metals (Total and Dissolved)
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 HMW-29/070416 04/16/2007 Primary	HMW-39B HMW-39B/070413 04/13/2007 Primary	HMW-39C HMW-39C/070416 04/16/2007 Primary	HMW-40C HMW-40C/070413 04/13/2007 Primary	HMW-40C DUP-001/070413 04/13/2007 Duplicate 1
Antimony	(mg/l)	0.006	0.0020J	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	0.0044	0.0013J	<0.0030	**0.111**	**0.0829S**
Arsenic (Dissolved)	(mg/l)	0.05	0.0044	0.0012J	0.0013J	0.0134	0.0146
Barium	(mg/l)	2	0.136	0.268	0.314	0.512	0.513
Barium (Dissolved)	(mg/l)	2	0.148	0.281	0.275	0.442	0.446
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	0.0008J	<0.0020	0.0006J	0.0004J	0.0004J
Cadmium (Dissolved)	(mg/l)	0.005	0.0004J	0.0003J	0.0005J	0.0005J	0.0004J
Chromium	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Cobalt	(mg/l)	1	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Cobalt (Dissolved)	(mg/l)	1	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Iron	(mg/l)	5	**11.7S**	0.0437	4.47	**12.5S**	**12.7**
Iron (Dissolved)	(mg/l)	5	**7.83S**	0.170	3.25	1.66	1.86
Lead	(mg/l)	0.0075	0.0005J	<0.0020	<0.0020	0.0015J	<0.0020
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

See Notes at End of Table

Table 8
Summary of Groundwater Analytical Results
Metals (Total and Dissolved)
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 HMW-29/070416 04/16/2007 Primary	HMW-39B HMW-39B/070413 04/13/2007 Primary	HMW-39C HMW-39C/070416 04/16/2007 Primary	HMW-40C HMW-40C/070413 04/13/2007 Primary	HMW-40C DUP-001/070413 04/13/2007 Duplicate 1
Nickel	(mg/l)	0.1	0.0052J	<0.0100	<0.0100	0.0071J	0.0067J
Nickel (Dissolved)	(mg/l)	0.1	0.0044J	<0.0100	<0.0100	0.0049J	0.0048J
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	0.0351	0.0237S
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	0.0084	0.0091
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	0.0034J	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zinc	(mg/l)	5	0.0240	0.0119	0.0291	0.0796	0.0751
Zinc (Dissolved)	(mg/l)	5	0.0075J	0.0129	0.0257	0.0743	0.0661

See Notes at End of Table

Table 8
Summary of Groundwater Analytical Results
Metals (Total and Dissolved)
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-49B HMW-49B/070416 04/16/2007 Primary	HMW-49C HMW-49C/070416 04/16/2007 Primary	HMW-49D HMW-49D/070416 04/16/2007 Primary	HMW-50A HMW-50A/070413 04/13/2007 Primary	HMW-50B HMW-50B/070413 04/13/2007 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	0.0256	0.0031	0.0008J	0.0026J	0.0013J
Arsenic (Dissolved)	(mg/l)	0.05	0.0254	0.0045	0.0011J	0.0045J	0.0023J
Barium	(mg/l)	2	0.740	0.332	0.298	0.0588	0.335
Barium (Dissolved)	(mg/l)	2	0.694	0.278	0.303	0.0395	0.308
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	0.0003J	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	0.0010J	**0.0086**	0.0012J	0.0005J	<0.0020
Cadmium (Dissolved)	(mg/l)	0.005	0.0005J	0.0005J	0.0005J	<0.0020	<0.0020
Chromium	(mg/l)	0.1	<0.0100	0.0052J	0.0046J	0.0142	0.0042J
Chromium (Dissolved)	(mg/l)	0.1	0.0045J	0.0040J	<0.0100	0.0117	<0.0100
Cobalt	(mg/l)	1	0.0095J	0.0054J	0.0083J	0.0022J	<0.0100
Cobalt (Dissolved)	(mg/l)	1	0.0061J	0.0076J	0.0022J	<0.0100	<0.0100
Iron	(mg/l)	5	**29.5**	**13.0**	**31.6**	1.52	**8.11S**
Iron (Dissolved)	(mg/l)	5	**26.0**	**8.47**	**28.0**	<0.0200	**6.58**
Lead	(mg/l)	0.0075	0.0007J	0.0035	0.0008J	0.0006J	<0.0020
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	0.0009J	<0.0020	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

See Notes at End of Table

Table 8
Summary of Groundwater Analytical Results
Metals (Total and Dissolved)
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-49B HMW-49B/070416 04/16/2007 Primary	HMW-49C HMW-49C/070416 04/16/2007 Primary	HMW-49D HMW-49D/070416 04/16/2007 Primary	HMW-50A HMW-50A/070413 04/13/2007 Primary	HMW-50B HMW-50B/070413 04/13/2007 Primary
Nickel	(mg/l)	0.1	0.0082J	0.0126	0.0079J	0.0063J	<0.0100
Nickel (Dissolved)	(mg/l)	0.1	0.0046J	0.0135	<0.0100	<0.0100	<0.0100
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	0.0036J	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	<0.0100	0.0067J	0.0059J	0.0070J	0.0032J
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	0.0033J	<0.0100
Zinc	(mg/l)	5	0.0071J	0.897	0.0332	0.0123	0.0041J
Zinc (Dissolved)	(mg/l)	5	0.0026J	1.02	<0.0100	0.0023J	0.0032J

See Notes at End of Table

Table 8
Summary of Groundwater Analytical Results
Metals (Total and Dissolved)
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-50C HMW-50C/070416 04/16/2007 Primary	HMW-50C DUP-002/070416 04/16/2007 Duplicate 1	HMW-52C HMW-52C/070413 04/13/2007 Primary	MP-81C MP-81C/070416 04/16/2007 Primary	MP-89C MP-89C/070416 04/16/2007 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	<0.0030	<0.0030	0.0050	0.0021J	**0.0974**
Arsenic (Dissolved)	(mg/l)	0.05	0.0018J	0.0011J	0.0026J	<0.0030	**0.0561**
Barium	(mg/l)	2	0.262	0.268	0.462	0.0918	0.350
Barium (Dissolved)	(mg/l)	2	0.292	0.248	0.310	0.0698	0.159
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	0.0004J	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	0.0005J	0.0005J	0.0022	0.0006J	0.0015J
Cadmium (Dissolved)	(mg/l)	0.005	0.0003J	0.0018J	<0.0020	0.0003J	0.0005J
Chromium	(mg/l)	0.1	<0.0100	<0.0100	0.0197	0.0044J	0.0075J
Chromium (Dissolved)	(mg/l)	0.1	0.0044J	0.0046J	<0.0100	<0.0100	<0.0100
Cobalt	(mg/l)	1	<0.0100	<0.0100	0.0085J	0.0108	0.0074J
Cobalt (Dissolved)	(mg/l)	1	0.0022J	0.0034J	<0.0100	0.0091J	0.0033J
Iron	(mg/l)	5	**13.0**	**12.4**	**30.6**	1.35	**45.1**
Iron (Dissolved)	(mg/l)	5	**8.81**	**8.64**	**16.1**	0.0212	**27.6**
Lead	(mg/l)	0.0075	<0.0020	<0.0020	**0.0221**	0.0006J	0.0058
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

See Notes at End of Table

Table 8
Summary of Groundwater Analytical Results
Metals (Total and Dissolved)
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-50C HMW-50C/070416 04/16/2007 Primary	HMW-50C DUP-002/070416 04/16/2007 Duplicate 1	HMW-52C HMW-52C/070413 04/13/2007 Primary	MP-81C MP-81C/070416 04/16/2007 Primary	MP-89C MP-89C/070416 04/16/2007 Primary
Nickel	(mg/l)	0.1	<0.0100	<0.0100	0.0213	0.0267	0.0167
Nickel (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	0.0246	0.0072J
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	0.0099
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	<0.0100	<0.0100	0.0305	0.0053J	0.0155
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zinc	(mg/l)	5	0.0054J	<0.0100	0.387	0.0123	0.0350
Zinc (Dissolved)	(mg/l)	5	<0.0100	0.0038J	0.0025J	0.0073J	0.0173

See Notes at End of Table

Table 8
Summary of Groundwater Analytical Results
Metals (Total and Dissolved)
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	MP-92D MP-92D/070416 04/16/2007 Primary
Antimony	(mg/l)	0.006	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050
Arsenic	(mg/l)	0.05	0.0015J
Arsenic (Dissolved)	(mg/l)	0.05	0.0039
Barium	(mg/l)	2	0.206
Barium (Dissolved)	(mg/l)	2	0.173
Beryllium	(mg/l)	0.004	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010
Cadmium	(mg/l)	0.005	0.0008J
Cadmium (Dissolved)	(mg/l)	0.005	0.0005J
Chromium	(mg/l)	0.1	0.0082J
Chromium (Dissolved)	(mg/l)	0.1	0.0041J
Cobalt	(mg/l)	1	0.0055J
Cobalt (Dissolved)	(mg/l)	1	0.0033J
Iron	(mg/l)	5	**11.2S**
Iron (Dissolved)	(mg/l)	5	**6.29**
Lead	(mg/l)	0.0075	0.0037
Lead (Dissolved)	(mg/l)	0.0075	<0.0020
Mercury	(mg/l)	0.002	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020
Nickel	(mg/l)	0.1	0.0108

See Notes at End of Table

Table 8
Summary of Groundwater Analytical Results
Metals (Total and Dissolved)
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	MP-92D MP-92D/070416 04/16/2007 Primary
Nickel (Dissolved)	(mg/l)	0.1	<0.0100
Selenium	(mg/l)	0.05	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060
Silver	(mg/l)	0.05	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100
Vanadium	(mg/l)	0.049	0.0136
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100
Zinc	(mg/l)	5	0.0244
Zinc (Dissolved)	(mg/l)	5	0.0037J

See Notes at End of Table

NOTES

TABLES 7, 8 and 9

Comparison values are Tier 1 Class 1 Groundwater Remediation Objectives from Illinois EPA's Tiered Approach to Corrective Action Objectives (35 IAC Part 742) last amended February 15, 2007. Groundwater quality values listed in 35 IAC Part 742 used for comparison purposes only.

mg/L = Milligrams per liter.

µg/L = Micrograms per liter.

J = Estimated value. Compound detected below the practical quantitation limit (PQL).

NA = Constituent not analyzed by laboratory.

B = Analyte detected in the associated Method Blank.

R = RPD outside accepted recovery limits.

S = Spike Recovery outside accepted recovery limits.

Table 9
Summary of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HWM-25/070413 04/13/2007 Primary	HMW-25 DUP-001/070413 04/13/2007 Duplicate 1	HMW-26 HMW-26/070413 04/13/2007 Primary	HMW-27 HMW-27/070413 04/13/2007 Primary	HMW-28 HMW-28/070413 04/13/2007 Primary
Alkalinity (as CaCO3)	(mg/l)		432	436	598	628	520
Ammonia (as N)	(mg/l)		<0.10	<0.10	0.29	<0.10	<0.10
Chloride	(mg/l)	200	67	66	**201**	18	27S
COD	(mg/l)		<20	<20	17J	<20	12J
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.007	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		460	400	1070	720	680
Nitrate (as N)	(mg/l)	10	<0.050	0.027J	<0.050	<0.050	0.797
Nitrate Plus Nitrite (as N)	(mg/l)		<0.050	0.027J	<0.050	<0.050	0.861S
Nitrite (as N)	(mg/l)		<0.050	<0.050	0.025J	<0.050	0.064S
Phosphorus	(mg/l)		<0.018	<0.018	0.252	0.162	0.029
Phosphorus (Dissolved)	(mg/l)		<0.018	<0.018	0.247	<0.018	<0.018
Sulfate	(mg/l)	400	40	42	**550**	109	101
Sulfide	(mg/l)		0.04J	0.08	0.02J	0.04JS	0.08
Total dissolved solids (TDS)	(mg/l)		618	620	1580	800	720
Total Organic Carbon	(mg/l)		0.7J	0.9J	1.4	2.7	2.6
Total suspended solids	(mg/l)		<6	<6	37	7	<6

See Notes at End of Table

Table 9
Summary of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 HMW-29/070416 04/16/2007 Primary	HMW-39B HMW-39B/070413 04/13/2007 Primary	HMW-39C HMW-39C/070416 04/16/2007 Primary	HMW-40C HMW-40C/070413 04/13/2007 Primary	HMW-40C DUP-001/070413 04/13/2007 Duplicate 1
Alkalinity (as CaCO3)	(mg/l)		472	300	245	386	390
Ammonia (as N)	(mg/l)		0.10J	<0.10	0.33	<0.10	<0.10
Chloride	(mg/l)	200	15	**296**	133	15	14
COD	(mg/l)		<20	28	<20	17J	12J
Cyanide	(mg/l)	0.2	<0.007S	<0.007	<0.007	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		560	310	210	370	360
Nitrate (as N)	(mg/l)	10	<0.050	0.693	0.019J	0.818H	0.974
Nitrate Plus Nitrite (as N)	(mg/l)		0.014J	0.693S	0.019J	0.836H	0.991
Nitrite (as N)	(mg/l)		0.020JS	<0.050S	<0.050	0.018JH	0.017J
Phosphorus	(mg/l)		0.145	<0.018	0.404	0.045	0.035
Phosphorus (Dissolved)	(mg/l)		0.078	<0.018	0.310	<0.018	<0.018
Sulfate	(mg/l)	400	159	26	14	265	313
Sulfide	(mg/l)		<0.05SR	0.05JS	<0.05	0.02JS	0.02J
Total dissolved solids (TDS)	(mg/l)		746	724	468	454	446
Total Organic Carbon	(mg/l)		10.7SR	<1.0	2.2	1.9	2.2
Total suspended solids	(mg/l)		29	<6	23	27	28

See Notes at End of Table

Table 9
Summary of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-49B HMW-49B/070416 04/16/2007 Primary	HMW-49C HMW-49C/070416 04/16/2007 Primary	HMW-49D HMW-49D/070416 04/16/2007 Primary	HMW-50A HMW-50A/070413 04/13/2007 Primary	HMW-50B HMW-50B/070413 04/13/2007 Primary
Alkalinity (as CaCO3)	(mg/l)		846	510	564	430	290
Ammonia (as N)	(mg/l)		0.09J	0.40	0.20	<0.10	1.90
Chloride	(mg/l)	200	**409**	32	43	13	**399**
COD	(mg/l)		68	94	19J	24	52
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.007	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		1130	430	500	590	1100
Nitrate (as N)	(mg/l)	10	<0.050	0.022J	0.017J	2.92H	0.658
Nitrate Plus Nitrite (as N)	(mg/l)		0.020J	0.022J	0.040J	2.92H	0.670
Nitrite (as N)	(mg/l)		0.042J	<0.050	0.023J	<0.050H	0.012J
Phosphorus	(mg/l)		1.17S	0.340	0.612	0.233	0.565
Phosphorus (Dissolved)	(mg/l)		1.12	0.172	0.510	0.181	0.471
Sulfate	(mg/l)	400	72	8	7	327	339
Sulfide	(mg/l)		0.22	0.12	0.02J	0.08	0.01JS
Total dissolved solids (TDS)	(mg/l)		1730	564	632	858	1540
Total Organic Carbon	(mg/l)		2.8	17.5	5.0	2.5	0.5J
Total suspended solids	(mg/l)		59	199	56	25	43

See Notes at End of Table

Table 9
Summary of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-50C HMW-50C/070416 04/16/2007 Primary	HMW-50C DUP-002/070416 04/16/2007 Duplicate 1	HMW-52C HMW-52C/070413 04/13/2007 Primary	MP-81C MP-81C/070416 04/16/2007 Primary	MP-89C MP-89C/070416 04/16/2007 Primary
Alkalinity (as CaCO3)	(mg/l)		506	510	626	596	514
Ammonia (as N)	(mg/l)		0.80	0.78	0.26	0.22	0.24
Chloride	(mg/l)	200	**423**	**406S**	72	33	55
COD	(mg/l)		45	31	73	<20	52
Cyanide	(mg/l)	0.2	<0.007	<0.007	0.109	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		830	770	720	640	900
Nitrate (as N)	(mg/l)	10	0.019J	0.019J	0.022J	0.050	0.096
Nitrate Plus Nitrite (as N)	(mg/l)		0.019J	0.019J	0.050	0.050	0.141
Nitrite (as N)	(mg/l)		<0.050	<0.050S	0.028J	<0.050	0.045J
Phosphorus	(mg/l)		0.708	0.702	0.878	0.035	1.57
Phosphorus (Dissolved)	(mg/l)		0.697	0.623	0.180	0.031	0.232
Sulfate	(mg/l)	400	134	126	77	143	354
Sulfide	(mg/l)		0.44	0.90	0.41S	0.02J	0.20S
Total dissolved solids (TDS)	(mg/l)		1470	1410	922	858	1090
Total Organic Carbon	(mg/l)		2.1	2.6	1.9	3.5	4.5
Total suspended solids	(mg/l)		33	32	1100	21	326

See Notes at End of Table

Table 9
Summary of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
April 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/13/2007 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	MP-92D MP-92D/070416 04/16/2007 Primary
Alkalinity (as CaCO3)	(mg/l)		628
Ammonia (as N)	(mg/l)		<0.10
Chloride	(mg/l)	200	59
COD	(mg/l)		45
Cyanide	(mg/l)	0.2	<0.007
Hardness (as CaCO3)	(mg/l)		660
Nitrate (as N)	(mg/l)	10	0.020J
Nitrate Plus Nitrite (as N)	(mg/l)		0.020J
Nitrite (as N)	(mg/l)		<0.050
Phosphorus	(mg/l)		0.657
Phosphorus (Dissolved)	(mg/l)		0.061
Sulfate	(mg/l)	400	11.1
Sulfide	(mg/l)		0.21S
Total dissolved solids (TDS)	(mg/l)		854
Total Organic Carbon	(mg/l)		2.5
Total suspended solids	(mg/l)		281

See Notes at End of Table

NOTES

TABLES 7, 8 and 9

Comparison values are Tier 1 Class 1 Groundwater Remediation Objectives from Illinois EPA's Tiered Approach to Corrective Action Objectives (35 IAC Part 742) last amended February 15, 2007. Groundwater quality values listed in 35 IAC Part 742 used for comparison purposes only.

mg/L = Milligrams per liter.

µg/L = Micrograms per liter.

J = Estimated value. Compound detected below the practical quantitation limit (PQL).

NA = Constituent not analyzed by laboratory.

B = Analyte detected in the associated Method Blank.

R = RPD outside accepted recovery limits.

S = Spike Recovery outside accepted recovery limits.

TABLE 10
Indicator Parameters - April 2007 Quarterly Sampling
The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR 000128249
The Hartford Working Group / Hartford, Illinois

Well Number	Date	Temperature °C	pH (std. units)	Conductivity (umhos/cm)	Turbidity (ntu)	Dissolved Oxygen (mg/L)	ORP (mV)
SECOND QUARTER 2007							
HMW-25	04/13/07	15.0	6.82	905	7.77	0.17	-4.1
HMW-26	04/13/07	15.6	6.66	1872	11.93	0.09	-74.0
HMW-27	04/13/07	16.2	6.46	1121	0	0.59	1.4
HMW-28	04/13/07	15.5	6.65	965	0	0.19	35.3
HMW-29	04/16/07	15.8	6.76	895	0.82	0.10	-35.7
HMW-39B	04/13/07	13.9	7.18	1230	7.00	8.10	--
HMW-39C	04/16/07	15.7	7.14	749	0	0.14	-73.0
HMW-40C	04/13/07	15.3	6.22	666	123.25	2.04	61.5
HMW-49B	04/13/07	17.1	6.47	2930	4.00	7.20	--
HMW-49C	04/16/07	17.6	6.04	694	45.69	0.26	-6.5
HMW-49D	04/16/07	16.2	6.35	985	157.85	1.69	-102.5
HMW-50A	04/13/07	14.5	6.65	984	316.16	0.45	212.2
HMW-50B	04/13/07	14.1	6.88	2110	36.00	9.22	--
HMW-50C	04/16/07	15.5	6.61	2120	60.77	0.20	-94.0
HMW-52C	04/13/07	15.8	6.58	1260	725.07	0.36	-92.6
MP-81C	04/16/07	16.1	6.57	1073	0.25	0.31	-80.2
MP-89A	04/13/07	11.9	7.69	440	2.00	12.16	--
MP-89C	04/16/07	18.9	4.75	1419	0.11	0.87	-81.6
MP-92D	04/16/07	17.0	6.01	1172	0.02	0.22	-46.0

NOTES:
-- = No data collected.
°C = degrees Centigrade
mg/L = milligrams per liter
mV = millivolts
NM = Not Measured
ntu = nephelometric turbidity units
umhos/cm = micromhos per centimeter

APPENDIX A

MONITORING WELL INSPECTION REPORT

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG
Project No.: 07003-003095.17-001
Date(s) of Inspection: 4-11-07
Field Personnel: TJG/SW

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-76	—	—	—	1	~~Tbl~~/PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-68	—	—	—	1				—	—	—									—	—	—				
MP-69	—	—	—	1				—	—	—									—	—	—				
MP-70	—	—	—	1				—	—	—									—	—	—				
Hmw-45A	—	—	—	~~1~~ TC 2				—	—	—									—	—	—				
Hmw-45B	—	—	—	~~1~~ TC 2				—	—	—									—	—	—				
Hmw-45C	—	—	—	2				—	—	—									—	—	—				
MP-78A	—	—	—	1				—	—	—									—	—	—				
MP-78B	—	—	—	1				—	—	—									—	—	—				
MP-78C	—	—	—	2				—	—	—									—	—	—				
MP-78D	—	—	—	2				—	—	—									—	—	—				
MP-80A	—	—	—	1				—	—	—									—	—	—				
MP-80B	—	—	—	1				—	—	—									—	—	—				
MP-80C	—	—	—	2				—	—	—									—	—	—				

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG
Date(s) of Inspection: 4-10-07
Project No.: 07003-003095.17-001
Field Personnel: Troy Eppinger / Jason Cyves

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
Hmw-44A	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-44B	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-44C	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-44D	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-55A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-55B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-55C	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-20	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-56A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-56B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-56C	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-77A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-77B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-77C	—	—	—	2"	PVC	N	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	

ADDITIONAL COMMENTS: MP 77C NO BOLTS

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG
Project No.: 07003-003095.17-01
Date(s) of Inspection: 4-10-07
Field Personnel: Troy Eppinger/Jason Cyves

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-52A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-52B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-52C	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-53A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-53B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-53C	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
HB-37	—	—	—	2"	PVC	Y	Y	—	—	—	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	—	—	—	Y	Y	N	
MP-54A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-54B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-54C	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
HB-30	—	—	—	2"	PVC	Y	Y	—	—	—	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	—	—	—	Y	Y	N	
MP-51A	—	—	—	1	↓	Y	Y	—	—	—	Y	Y	Y	Y	Y	Y	N	N	—	—	—	Y	X	N	
MP-51B	—	—	—	1	↓	↓	↓	—	—	—	↓	↓	↓	↓	X	Y	N	N	—	—	—	X	Y	N	
MP-51C	—	—	—	1	↓	↓	↓	—	—	—	↓	↓	↓	↓	X	Y	N	N	—	—	—	X	X	N	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWB
Date(s) of Inspection: 4-10-07
Project No.: 02003-003085.12-001
Field Personnel: ~~[illegible]~~ Troy Eppinger / Jason Eyres

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-51A	—	—	—					—	—	—	Y								—	—	—				
MP-50A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-50B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-50C	—	—	—					—	—	—									—	—	—				
MP-44A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-44B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-44C	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-44D	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-45A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-45B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-45C	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-46A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-46B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-46C	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG
Date(s) of Inspection: 4-10-07
Project No.: 07003-003095.1700
Field Personnel: Troy Eppinger / Jason Cyrus

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
TEPA-4	—	—	—	2"	PVC?	N	N	—	—	—	N				N				—	—	—	Y	Y	N	
Hmw-01	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-02	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-09	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-10	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-34	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-25	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-108A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-108B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-108C	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-24	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-35	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-36	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	N	Y	Y	N	N	—	—	—	Y	Y	N	
MP-27	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	N	Y	Y	N	N	—	—	—	Y	Y	N	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HSU
Date(s) of Inspection: 4-10-07
Project No.: 07003-003095.17001
Field Personnel: Troy Eppinger / Jason Cyrus

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-107A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-107B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-107C	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-28	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
HMW-37	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-106A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-106B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-106C	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-105A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-105B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-105C	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-105D	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-105E	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
RW-2	—	—	—	?	METAL	Y	Y	—	—	—	N	—	—	—	N	—	—	—	—	—	—	—	—	—	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWS
Project No.: 07003-063095.17001
Date(s) of Inspection: 4-10-07
Field Personnel: Troy Eppinger / Jason Green

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
RW-5	—	—	—	4"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-42A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-42B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-42C	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-41A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-41B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-41C	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-13	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-14	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
HB-16	—	—	—	2"	PVC	N	Y	—	—	—	N	—	—	—	N	—	—	—	—	—	—	Y	Y	N	
MP-37A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-37B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-37C	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-37D	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG
Project No.: 07003-003095.17-001
Date(s) of Inspection: 4-10-07
Field Personnel: Troy Eppinger / Jason Cyrus

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
HB-33	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-21	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-22	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
HB-32	—	—	—	4"	PVC	Y	Y	—	—	—	N				Y	Y	N	N	—	—	—	Y	Y	N	
RW-3	—	—	—	4"	PVC	Y	Y	—	—	—	N				Y	Y	N	N	—	—	—	Y	Y	N	
RW-4	—	—	—	4"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
RW-4A	—	—	—					—	—	—									—	—	—				SP
MP-5S	—	—	—					—	—	—									—	—	—				N/A
MP-5D	—	—	—					—	—	—									—	—	—				N/A
MP-6S	—	—	—					—	—	—									—	—	—				N/A
MP-6D	—	—	—					—	—	—									—	—	—				N/A
MP-7S	—	—	—					—	—	—									—	—	—				N/A
MP-7D	—	—	—					—	—	—									—	—	—				N/A
MP-8S	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG
Project No.: 07003-003095.17001
Date(s) of Inspection: 4-10-07
Field Personnel: Jason Cyrus / Troy Eppinger

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-8D	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-9S	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-9D	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-30	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-31	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-32	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-33	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
Hmw-07	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	✓
Hmw-08	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-29A	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-29B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-29C	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-29D	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
								—	—	—									—	—	—				

ADDITIONAL COMMENTS: Hmw-07 - Flush Mount Lid does not seat like it should, top of well has extention in place was removed, reinstalled.

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG
Project No.: 07003-003085.25-007
Date(s) of Inspection: 4-10-07
Field Personnel: TJ Bosel / Nick Dennis

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-61A	—	—	—	1	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-61B	—	—	—	1		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-61C	—	—	—	2		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
HMW-42A	—	—	—	2		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
HMW-42B	—	—	—	2		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
HMW-27	—	—	—	2		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-67A	—	—	—	1		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-67B	—	—	—	1		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-67C	—	—	—	2		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-65A	—	—	—	1		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-65B	—	—	—	1		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-65C	—	—	—	2		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
HMW-28	—	—	—	2		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-66A	—	—	—	1		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Premcor
Project No.: 07003-003095.25-007
Date(s) of Inspection: 4-10-07
Field Personnel: TT Grisel / Nick Dennis

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-66B	–	–	–	1"	PVC	Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
MP-66C	–	–	–	2"		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW-29	–	–	–	2"		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
MP 85A	–	–	–	1"		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
MP 85B	–	–	–	1"		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
MP 85C	–	–	–	2"		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
MP 85D	–	–	–	2"		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW-03	–	–	–	2		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW-04	–	–	–	2		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW 48A	–	–	–	2		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW-48B	–	–	–	2		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW-48C	–	–	–	2		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW 48D	–	–	–	2		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW-49A	–	–	–	2		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Premcor
Project No.: 07003-003095.25-007
Date(s) of Inspection: 4-10-07
Field Personnel: TJ Grisel / Nick Dennis

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
HMW 49B	–	–	–	2	PVC	Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW 49C	–	–	–	2		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW 49D	–	–	–	2		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW 38A	–	–	–	2		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW 38B	–	–	–	2		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW 38C	–	–	–	2		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
MP 71	–	–	–	1		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
MP 72	–	–	–	1		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW 46A	–	–	–	2		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW 46B	–	–	–	2		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW 46C	–	–	–	2		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
MP 73	–	–	–	1		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
MP 74	–	–	–	1		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
MP 75	–	–	–	1		Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Pamcor
Date(s) of Inspection: 4-10-07
Project No.: 07003-003095.25-007
Field Personnel: T. Brisel / Nick Dennis

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
HMW 47A	–	–	–	2	PVC	Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW 47B	–	–	–	2	|	Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	
HMW47C	–	–	–	2	|	Y	Y	–	–	–	Y	Y	N	Y	Y	Y	N	N	–	–	–	Y	Y	N	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hwsb
Project No.: 07003-003085.17-001

Date(s) of Inspection: 4-10-07
Field Personnel: Sherri Merla / Leslie Hoosier

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-79A	—	—	—		PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-79B	—	—	—					—	—	—									—	—	—				
MP-79C	—	—	—					—	—	—									—	—	—				
MP-79D	—	—	—					—	—	—									—	—	—				
MP-30A	—	—	—					—	—	—									—	—	—				
MP-30B	—	—	—					—	—	—									—	—	—				
MP-30C	—	—	—					—	—	—									—	—	—				
MP-83A	—	—	—					—	—	—									—	—	—				
MP-83B	—	—	—					—	—	—									—	—	—				
MP-83C	—	—	—					—	—	—									—	—	—				
Hmw-39A	—	—	—					—	—	—									—	—	—				
Hmw-39B	—	—	—					—	—	—									—	—	—				
Hmw-39C	—	—	—					—	—	—									—	—	—				

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG
Date(s) of Inspection: 4-9-07
Project No.: 07003-003-095-17-001
Field Personnel: S. Marlo / Leslie Hoosier

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
Hmw-54A	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	N
Hmw-54B	—	—	—	4"		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	Y
Hmw-54C	—	—	—	2"		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	N
MP-97A	—	—	—	1"		N	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	Y
MP-97B	—	—	—	1"		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	N
MP-96C	—	—	—	1"		N	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	N
MP-96D	—	—	—	1"		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	Y
MP-98A	—	—	—	1"		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	N
MP-98B	—	—	—	1"		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	Y
MP-98C	—	—	—	1"		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	N
MP-57A	—	—	—	1"		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	N
MP-57B	—	—	—	1"		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	Y
MP-57C	—	—	—	2"		Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	N
MP-13S	—	—	—	1"	↓	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	N

ADDITIONAL COMMENTS: HMW-54B Screws stripped. MP-97A Quick Connect cap not on securely. MP-97C Quick Connect cap not on securely. MP-96A Cap not on securely & couldn't tighten. MP-96B & C Caps not tight. MP-96D Cap not on tight. Could not tighten cap on well. MP-98B Cap not on securely. MP-57B Rubber seal damaged on cap. Not tight.

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWB
Project No.: 07003-003095.P7-001
Date(s) of Inspection: 4-10-07
Field Personnel: S. Marlo / Leslie Hoosier

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-13D	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	Y
MP-14S	—	—	—	1"				—	—	—									—	—	—				Y
MP-14D	—	—	—	1"				—	—	—									—	—	—				N
MP-15S	—	—	—	1"				—	—	—									—	—	—				Y
MP-15D	—	—	—	1"				—	—	—									—	—	—				Y
MP-16S	—	—	—	1"				—	—	—									—	—	—				Y
MP-16D	—	—	—	1"				—	—	—									—	—	—				Y
MP-60A	—	—	—	1"				—	—	—				N					—	—	—				N
MP-60B	—	—	—	1"				—	—	—				N					—	—	—				N
MP-60C	—	—	—	2"				—	—	—									—	—	—				Y
MP-58A	—	—	—	1"				—	—	—									—	—	—				N
MP-58B	—	—	—	1"				—	—	—									—	—	—				N
MP-58C	—	—	—	2"				—	—	—									—	—	—				N
MP-59A	—	—	—	1"				—	—	—									—	—	—				N

ADDITIONAL COMMENTS: MP-13D Screw missing. MP-14S Screws snapped. MP-15S missing 1 screw. MP-15D missing both screws MP-16S Missing screw & the other one snapped. MP-16D- Black rubber cap on quick connect missing. MP-60C Screw snapped. MP 16S - Sucked well of water but when cap was pulled off small amt of water went into well. Replaced cap & sucked additional amt out

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG
Project No.: 07003-003085.27-001
Date(s) of Inspection: 4-10-07
Field Personnel: S. Marle / Leslie Hoosier

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-59B	—	—	—	1"	Pvc	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	N
MP-59C	—	—	—	2"				—	—	—									—	—	—				N
MP-88A	—	—	—	1"				—	—	—									—	—	—				Y
MP-88B	—	—	—	1"				—	—	—									—	—	—				Y
MP-88C	—	—	—	2"				—	—	—									—	—	—				N
MP-95A	—	—	—	1"				—	—	—									—	—	—				N
MP-95B	—	—	—	1"				—	—	—									—	—	—				N
HMW-53A	—	—	—	2"				—	—	—									—	—	—				N
HMW-53B	—	—	—	4"				—	—	—									—	—	—				Y
HMW-53C	—	—	—	2"				—	—	—									—	—	—				N
HMW-43A	—	—	—	2"				—	—	—									—	—	—				N
HMW-43B	—	—	—	2"				—	—	—									—	—	—				N
HMW-43C	—	—	—	2"				—	—	—									—	—	—				N
HMW-52A	—	—	—	2"	↓	↓	↓	—	—	—	↓	↓	↓	↓	↓	↓	↓	↓	—	—	—	↓	↓	↓	Y

ADDITIONAL COMMENTS: MP-88 A & B Screws stripped. HMW 53B- Screws stripped. HMW-52A Screws stripped

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG
Project No.: 07003-003085.17-00

Date(s) of Inspection: 4-10-07
Field Personnel: S. Marlo / Leslie Hoosier

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
HMW-52B	—	—	—	2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	Y
HMW-52C	—	—	—	2"				—	—	—									—	—	—				Y
MP-93A	—	—	—	1"				—	—	—									—	—	—				N
MP-93B	—	—	—	1"				—	—	—									—	—	—				N
MP-63A	—	—	—	1"				—	—	—									—	—	—				N
MP-63B	—	—	—	1"				—	—	—									—	—	—				N
MP-63C	—	—	—	2"				—	—	—									—	—	—				Y
~~MP-63B~~ SM	—	—	—	—				—	—	—									—	—	—				N
~~MP-63C~~ SM	—	—	—	—				—	—	—									—	—	—				N
HB-38	—	—	—	2"				—	—	—									—	—	—				N
MP-62A	—	—	—	1"				—	—	—									—	—	—				N
MP-62B	—	—	—	1"				—	—	—									—	—	—				N
MP-62C	—	—	—	2"				—	—	—				N					—	—	—				N
MP-89A	—	—	—	1"				—	—	—				Y					—	—	—				N

ADDITIONAL COMMENTS: HMW-52B Screws stripped. HMW-52C Screws stripped MP-63C Screw missing.

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG
Project No.: 07003-003095, 17-001
Date(s) of Inspection: 4-10-07
Field Personnel: S MacLa / Leslie Hoesier

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-89B	—	—	—	1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	N
MP-89C	—	—	—	2"				—	—	—									—	—	—				
MP-61A	—	—	—	1"				—	—	—									—	—	—				
MP-61B	—	—	—	1"				—	—	—									—	—	—				
MP-61C	—	—	—	2"				—	—	—									—	—	—				
HMW-42A	—	—	—	2				—	—	—									—	—	—				
HMW-42B	—	—	—	2				—	—	—									—	—	—				
MP-65A ~~HMW-42C~~	—	—	—	1				—	—	—									—	—	—				
MP-65B	—	—	—	1				—	—	—									—	—	—				
MP-65C	—	—	—	2				—	—	—									—	—	—				
MP-67A	—	—	—	1				—	—	—									—	—	—				
MP-67B	—	—	—	1				—	—	—									—	—	—				
MP-67C	—	—	—	2				—	—	—									—	—	—				
MP-66A	—	—	—	1	↓	↓	↓	—	—	—	↓	↓	↓	↓	↓	↓	↓	↓	—	—	—	↓	↓	↓	↓

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG
Project No.: 07003-003095.17-00

Date(s) of Inspection: 4-10-07
Field Personnel: S. Macia / Leslie

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-66B	—	—	—	1	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	
MP-66C	—	—	—	2	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	Y	Y	N	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG - Qtly Groundwater Gauging
Project No.: -17001
Date(s) of Inspection: 4-10-07
Field Personnel: M. Brannett (BU) N. McNurlin, B. Higgins (URS)

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Fresent	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
HP-01A				2	PVC	Y	Y	~~N/A~~ N	~~N/A~~ N	N/A	Y	Y	N	Y	Y	Y	N	N	N/A	N/A	N/A	Y	Y	N	N
HP-01B																									
HP-01C																									
HP-02A																									
HP-03A																									
HP-03B																									
HP-03C						Y	N																		Y
HP-04A							Y																		
HP-04B																									
HP-04C																									
HP-05A																									
HP-05B																									
HP-05C																									
HP-06A																									

ADDITIONAL COMMENTS: HP-3C cap replaced at time of gauging/inspection with new j-plug.

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG - Qthy GW Survey
Project No.: -17.001
Date(s) of Inspection: 4-10-07
Field Personnel: M. Bennett, N. McNerlin, B. Higgins

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
HP-07A				2	PVC	Y	Y	N/A	N/A	N/A	Y	Y	N	Y	Y	Y	N	N	N/A	N/A	N/A	Y	Y	N	
HP-08A				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
HP-09A				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-102A				1	PVC	Y	Y	N/A	N/A	N/A	Y	Y	N	Y	Y	Y	N	N	N/A	N/A	N/A	Y	N	N	
MP-102B				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-103A				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-103B				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-103C				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-104A				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-104B				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-104C				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-86A				1	PVC	Y	Y	N/A	N/A	N/A	Y	Y	N	Y	Y	Y	N	N	↓	↓	↓	↓	↓	↓	
MP-86B				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-86C				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG - Qtly GW Gaging
Project No.: 17-001
Date(s) of Inspection: 4-10-07
Field Personnel: M. Bennett, N. McNurlen, B. Higgins

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
HMW 41A				2	PVC	Y	Y	N/A	N/A	N/A	Y	Y	N	N	Y	Y	N	N	N/A	N/A	N/A	Y	Y	N	
HMW-41B				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
HMW-41C				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
HMP 91B				1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-91C				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-91D				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-90B				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-90C				2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-84A				1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-84B				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-84C				2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-87A				1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-87B				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-87C				2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG - Qtly GW Gauging
Project No.: -17001
Date(s) of Inspection: 4-10-07
Field Personnel: M. Bennett, N. McNorlin, B. Higgins

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
RW-1				30"	Steel	Y	Y	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Y	Y	N	
MP-101A				1"	PVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Y
MP-101B				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
MP-101C				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
MP-99A				1	PVC	Y	Y	N/A	N/A	N/A	Y	Y	N	Y	Y	Y	N	N	N/A	N/A	N/A	Y	Y	N	
MP-99B				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-99C				~~2~~	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-100A				1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-100B				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-100C				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-100D				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-82A				1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-82B				1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-82C				2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

ADDITIONAL COMMENTS: Could not locate MP-101 well nest. Buried under gravel.

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG - 8th GW Baseline
Project No.: -17.001
Date(s) of Inspection: 4-10-07
Field Personnel: M. Bennett, N. McNurlen, B. Higgins

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
HMW-40A				2	PVC	Y	Y	N/A	N/A	N/A	Y	Y	N	N	Y	Y	N	N	N/A	N/A	N/A	Y	Y	N	
HMW-40B																									
HMW-40C																									
MP-43A				1																					
MP-43B																									
MP-43C				2																					
MP-10S				1																					
MP-10D																									
MP-11S																									
MP-11S																									
MP-12S																									
MP-12D																									
MP-40A																									
MP-40B																									

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG
Project No.: 17-04
Date(s) of Inspection: 4-10-07
Field Personnel: M. Bennett, N. McNulty, B. Higgins

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-40C				2	PVC	Y	Y	N/A	N/A	N/A	Y	Y	N	Y	Y	Y	N	N	N/A	N/A	N/A	Y	Y	N	
MP-49A				1																					
MP-49B				↓																					
MP-49C				2																					
MP-48A				1																					
MP-48B				↓																					
MP-48C				2																					
HMW-51A				2																					
HMW-19				2																					
HMW-51B				2																					
HMW-51C				2																					
MP-92C				1																					
MP-92D				2																					
MP-31A				1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG - QTLY GW GUAGING
Date(s) of Inspection: 4-10-07
Project No.: .17-001
Field Personnel: M. BENNETT, N. McNAMARA, B. HIGGENS

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-32B				1	PVC	Y	Y	N/A	N/A	N/A	Y	Y	N	Y	Y	Y	N	N	N/A	N/A	N/A	Y	Y	N	
MP-32C				2																					
MP-33A				1																					
MP-33B				↓																					
MP-33C				1 ~~2~~																					
MP-33D				2																					
MP-34A				1																					
MP-34B				1																					
MP-34C				2																					
MP-35A				1																					
MP-35B				1																					
MP-35C				2																					
MP-36A				1																					
MP-36B				2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HWG QTRLY GW SAMPLING
Date(s) of Inspection: 4-10-07
Project No.: -17-001
Field Personnel: M. Bennett, N. McPherson, B. Higgins

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-36C				2	PVC	Y	Y	N/A	N/A	N/A	Y	Y	N	Y	Y	Y	N	N	N/A	N/A	N/A	Y	Y	N	
HMW-18				2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-39A				1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-39B				1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-39C				2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-38A				1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-38B				1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MP-38C				2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

ADDITIONAL COMMENTS:

APPENDIX B

D_O DISCUSSION AND CALCULATION

B-1 LNAPL Specific Thickness (D_O) – April 10-11, 2007 – North Olive Stratum
B-2 LNAPL Specific Thickness (D_O) – April 10-11, 2007 – Rand Stratum
B-3 LNAPL Specific Thickness (D_O) – April 10-11, 2007 – Combined EPA and Shallow Main Sand Strata
B-4 LNAPL Specific Thickness (D_O) – April 10-11, 2007 – Main Sand Below the D Clay

Appendix B: D_o Discussion and Calculation

The following information was provided on behalf of Mr. Andrew Kirkman, of The RETEC Group, Inc., on November 7, 2005.

The fluid characteristics that influence LNAPL distribution and recoverability from the subsurface include the following:

- LNAPL Density
- LNAPL Viscosity
- LNAPL and Water Interfacial tensions

In addition, the soil type can have a large influence on LNAPL distribution and recoverability from the subsurface. Soil characteristics that effect the distribution and presence of LNAPL in the subsurface include:

- Porosity
- Intrinsic permeability
- Pore size distribution
- Soil grain shape

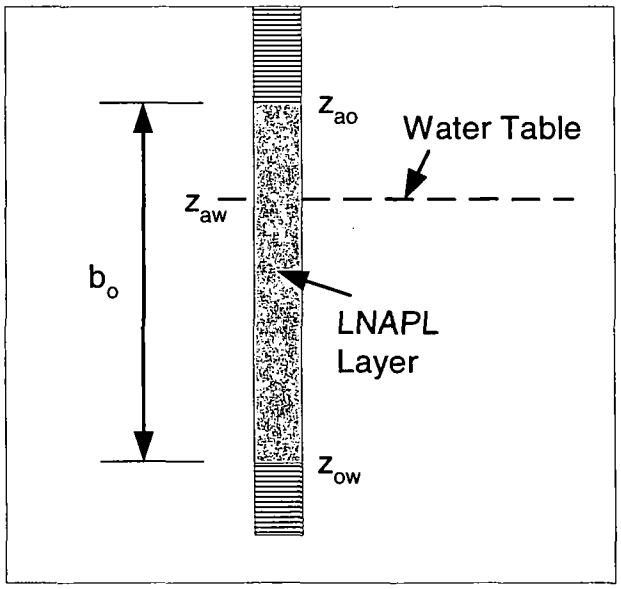
Accounting for these parameters is necessary in order to accurately assess the distribution of LNAPL in the formation and estimate the true amount of LNAPL in the subsurface. Mapping of apparent LNAPL thicknesses measured in monitoring wells at a site with varying soil and LNAPL type is not an accurate depiction of LNAPL extent or magnitude. In order to provide an estimate of the actual LNAPL in the subsurface, the term "LNAPL specific thickness" is proposed to estimate the true amount of LNAPL in the formation.

Because of the variance in soil and LNAPL physical characteristics, the same LNAPL thickness measured at two locations does not always represent the same distribution of LNAPL in the formation or the recoverability of LNAPL. For instance, one foot of LNAPL measured in a well installed in clay will have a much smaller specific thickness than if it were installed in sand. The same is true in terms of saturation. The pore spaces in sand are more interconnected and generally larger in the sand. The clay,

however, has smaller and less interconnected pores and a higher pressure is required to saturate those to the same saturation.

The following schematic (Charbeneau et al., 1999) shows a monitoring well with an LNAPL layer located between the air-NAPL interface z_{ao} and the NAPL-water interface z_{ow}. The total monitoring well LNAPL thickness is b_o. The elevation of the water table, z_{aw}, provides the datum for fluid levels. While the water table is not measured in a monitoring well because of the LNAPL layer, its elevation is easily determined from the elevations z_{ao} and z_{ow}, and the LNAPL specific gravity.

Figure 1



D_o is defined as the specific thickness of LNAPL, which is representative of the amount of LNAPL in a formation. For example, if you had a core of soil separated into its respective media (i.e., air, water, LNAPL, and soil), D_o is a normalized volume of LNAPL (feet^3/feet^2) per unit surface area, but is expressed as a thickness (in units of feet). At equilibrium, due to capillary forces in soil, the measured LNAPL thickness in a monitoring well, b_o, is always greater than D_o.

The relationship between measured monitoring well LNAPL thickness, b_o, and the specific LNAPL volume, D_o (the volume of LNAPL per unit surface area) may be calculated from the following equation:

$$D_o(b_o) = \int_{Z_{ow}}^{Z_{max}} n S_o(z)\, dz$$

Where:

Z_{max} = height of oil

Z_{ow} = height of the oil/water interface

S_o = saturation of oil

n = soil porosity

The function $D_o(b_o)$ may be approximated piecewise by a linear function of the form:

$$D_o = \beta (b_o - \chi)$$

The most accurate method to estimate LNAPL specific thickness is to collect soil core data, analyze Dean Stark LNAPL saturations and integrate LNAPL saturation over discrete depth intervals to calculate D_o (Adamski, et al, 2003). If LNAPL saturation and soil core data are available, D_o is calculated as follows:

$$D_o = \text{LNAPL \%} * \text{ porosity} * \text{soil core interval (ft.)}$$

Where:

LNAPL % = oil saturation (in % of pore volume)

porosity = site-specific total porosity (in %)

soil core interval = interval of LNAPL impacted core (in feet)

Collection of soil cores from varying soil types across a site and discrete sampling and analyses of LNAPL saturations accurately depicts the true amount of LNAPL in each formation and eliminates the need for correction factors based on buoyancy or LNAPL density. Correction factors based on soil type and LNAPL type will provide accurate estimations of LNAPL specific thickness across a site.

References

Adamski, M., V. Kremesec, R. Kolhatkar, C. Pearson, and B. Rowan, 2001. "LNAPL Saturation, Distribution, and Recovery in Fine Grained Soils," Proceedings of the Petroleum Hydrocarbons and Organic Chemicals in Ground Water Conference and Exposition, pp.178–192. November 14–16, 2001.

Charbeneau, R.J., R.T. Johns, L.W. Lake, and M.J. McAdams, 1999. "Free-Product Recovery of Petroleum Hydrocarbon Liquid." American Petroleum Institute, Publication No. 4682. Ground Water Monitoring & Remediation, 20(3), Summer, pp. 147-158, 2000. June 1999.

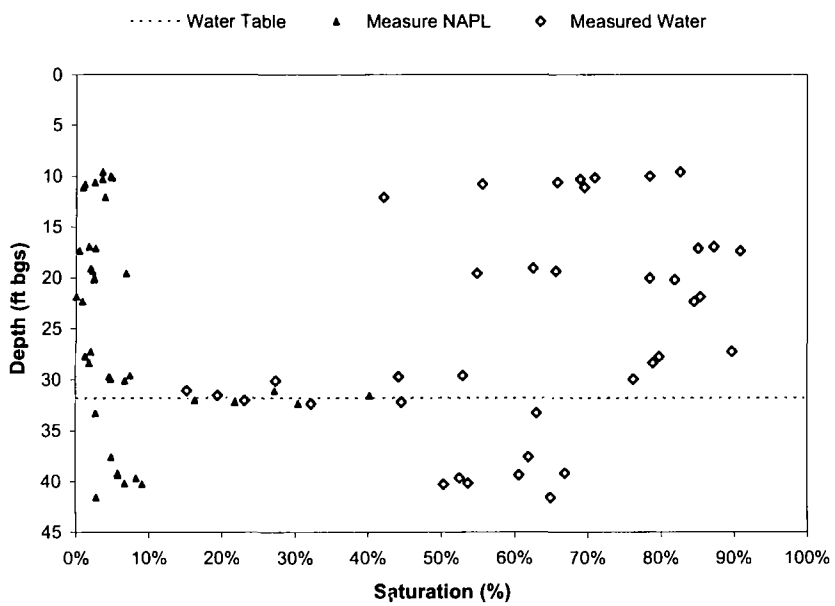
Attachment 2
Specific LNAPL Thicknesses

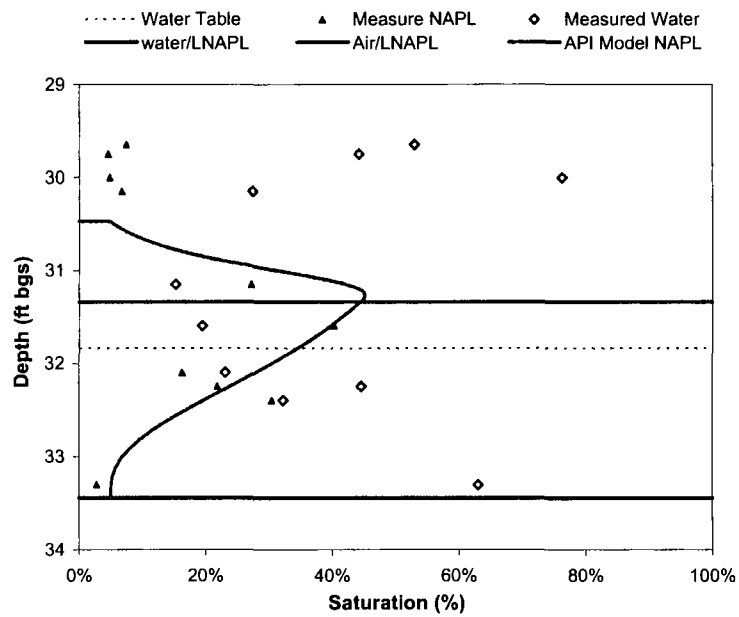
Boring	Corre-sponding Monitoring Well	Date of Measured LNAPL Thickness and Baildown Test	Measured LNAPL Thickness (ft)	D_o (ft)		
				Total for Estimated Mobile Interval[1]	Calculated for Mobile Interval[2]	Total for Smear Zone[1]
HCSB-1	HMW-44C	9/23/2005	2.1	0.30	0.32	0.60
HCSB-2	RW-5	9/23/2005	0.32	0.01	0.02	0.15
HCSB-3	MP-50C	ROST Log 2-19-2004	0.4	0.01	0.02	0.21
HCSB-4	MP-39C	10/5/2005	1.62	0.38	0.22	0.38
HCSB-5	MP-29D	9/20/2005	0.48	0.04	0.02	0.47
HCSB-5	MP-29C	9/20/2005	0.63	0.04	0.03	0.47

Notes:

1 Estimates are based on measured LNAPL saturation data from Dean-Stark core analyses.

2 Represents estimates based on API model that was calibrated to capillary pressure vs. saturation core analysis data.





Measured Saturation Data (Dean-Stark Method)

Depth	S_n	S_w	ϕ	Do	Do Mobile
9.6	0.036	0.826	0.47	0.0079	0.0000
10	0.047	0.784	0.49	0.0036	0.0000
10.15	0.048	0.709	0.51	0.0031	0.0000
10.3	0.035	0.689	0.49	0.0045	0.0000
10.6	0.025	0.658	0.51	0.0019	0.0000
10.8	0.011	0.556	0.52	0.0016	0.0000
11.1	0.009	0.695	0.50	0.0127	0.0000
12.1	0.039	0.421	0.53		
17	0.017	0.872	0.52	0.0018	0.0000
17.15	0.026	0.850	0.58	0.0022	0.0000
17.4	0.004	0.908	0.58	0.0110	0.0000
19.1	0.020	0.625	0.51	0.0032	0.0000
19.4	0.022	0.656	0.49	0.0046	0.0000
19.6	0.069	0.549	0.51	0.0105	0.0000
20.05	0.025	0.784	0.48	0.0018	0.0000
20.2	0.024	0.818	0.49	0.0100	0.0000

Do Sum (ft)
Smear Zone
0.60
Total Do over the Mobile Interval Where
0.30
Mobile Fraction of Do over the Mobile Interval
0.18

API Model Sn

Depth	Sn
30.47	0
30.47	0.048218
30.499	0.054075
30.528	0.060538
30.557	0.067669
30.586	0.075537
30.615	0.084217
30.644	0.093788
30.673	0.104338
30.702	0.115956
30.731	0.128733
30.76	0.142759
30.789	0.158117
30.818	0.174875
30.847	0.193079
30.876	0.212733

Gauging Data - Well HMW-44C

Ground Surface Elevation
429.78

Measuring Point Elevation
NA

Water Table Elevation
397.94

Estimated Water Table Depth

0	31.84
1	31.84

Sor
0.049

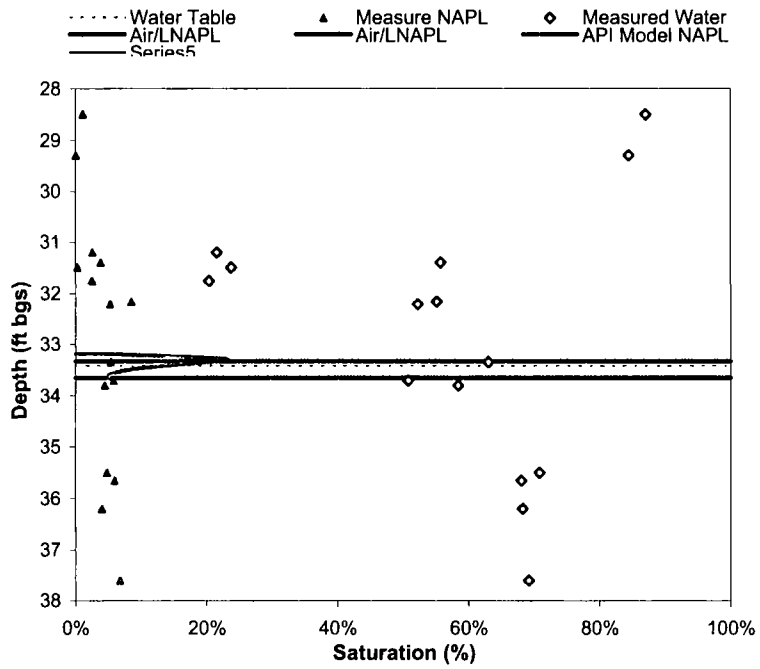
9/23/2005

DTP **Corrected LNAPL Depth**

21.9	0.000	0.853	0.53	0.0012	0.0000
22.4	0.009	0.845	0.54		
27.3	0.020	0.897	0.51	0.0041	0.0000
27.8	0.013	0.798	0.47	0.0041	0.0000
28.4	0.018	0.789	0.41	0.0254	0.0000
29.65	0.074	0.529	0.45	0.0026	0.0005
29.75	0.046	0.442	0.43	0.0048	0.0000
30	0.048	0.762	0.39	0.0035	0.0005
30.15	0.067	0.274	0.43	0.0771	0.0554
31.15	0.272	0.152	0.46	0.0673	0.0574
31.6	0.402	0.194	0.43	0.0625	0.0514
32.1	0.163	0.231	0.47	0.0129	0.0096
32.25	0.218	0.446	0.44	0.0172	0.0140
32.4	0.304	0.322	0.44	0.0661	0.0464
33.3	0.027	0.630	0.45	0.0737	0.0000
37.6	0.049	0.619	0.45	0.0338	0.0024
39.2	0.058	0.668	0.35	0.0040	0.0006
39.4	0.058	0.606	0.34	0.0071	0.0022
39.7	0.083	0.525	0.33	0.0124	0.0043
40.2	0.067	0.536	0.33	0.0030	0.0012
40.3	0.091	0.503	0.42	0.0324	0.0060
41.6	0.028	0.649	0.40		

30.905	0.233789
30.934	0.25612
30.963	0.279506
30.992	0.303602
31.021	0.327936
31.05	0.351898
31.079	0.374766
31.108	0.395757
31.137	0.414095
31.166	0.429113
31.195	0.440347
31.224	0.447611
31.253	0.451038
31.282	0.451072
31.311	0.44844
31.34	0.444146
31.445	0.426434
31.55	0.407166
31.655	0.386258
31.76	0.363654
31.865	0.33935
31.97	0.313411
32.075	0.285999
32.18	0.257408
32.285	0.228081
32.39	0.198633
32.495	0.169837
32.6	0.142586
32.705	0.117808
32.81	0.096357
32.915	0.078878
33.02	0.065696
33.125	0.056752
33.23	0.051589
33.335	0.049392
33.44	0.049

31	31.34
DTW	**Corrected water Depth**
33.1	33.44
GS-MP	
0.34	



API Model Sn

Depth	Sn
33.18323	0
33.18323	0.044088
33.18823	0.052866
33.19323	0.062034
33.19823	0.071574
33.20323	0.081459
33.20823	0.091653
33.21323	0.102109
33.21823	0.11277

Gauging Data - Well MP-42C

Ground Surface Elevation
430.90

Measuring Point Elevation
NA

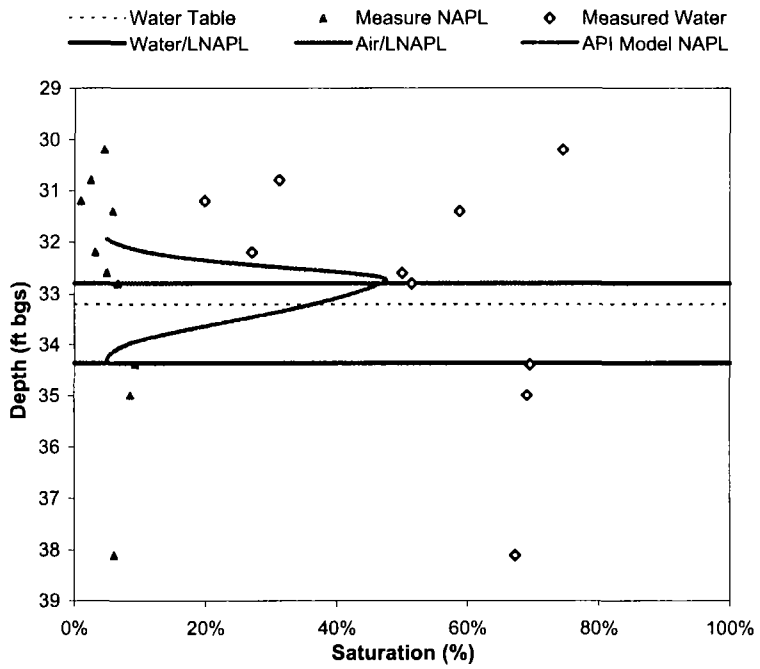
Water Table Elevation
397.49

Estimated Water Table Depth

0	33.41
1	33.41

33.22323	0.123568
33.22823	0.134421
33.23323	0.145236
33.23823	0.155911
33.24323	0.16633
33.24823	0.176373
33.25323	0.185914
33.25823	0.194826
33.26323	0.202985
33.26823	0.210275
33.27323	0.216593
33.27823	0.221854
33.28323	0.225994
33.28823	0.228975
33.29323	0.230786
33.29823	0.231443
33.30323	0.230993
33.30823	0.229509
33.31323	0.227091
33.31823	0.22386
33.32323	0.219964
33.32823	0.215571
33.33323	0.210887
33.34923	0.195603
33.36523	0.180518
33.38123	0.165757
33.39723	0.151451
33.41323	0.137733
33.42923	0.124735
33.44523	0.112578
33.46123	0.101374
33.47723	0.091215
33.49323	0.082174
33.50923	0.074295
33.52523	0.067594
33.54123	0.062061
33.55723	0.057651
33.57323	0.054295
33.58923	0.051893
33.60523	0.050323
33.62123	0.049438
33.63723	0.049066
33.65323	0.049

Sor	
0.049	
9/23/2005	
DTP	**Corrected LNAPL Depth**
32.65	33.33
DTW	**Corrected water Depth**
32.97	33.65
GS-MP	
0.68	



API Model Sn

Depth	Sn
31.94	0.0486
31.96867	0.052926
31.99733	0.057756
32.026	0.063151
32.05467	0.069179
32.08333	0.07592
32.112	0.083461
32.14067	0.091901
32.16933	0.101349

Gauging Data - Well MP-50C

Ground Surface Elevation
430.57

Measuring Point Elevation
NA

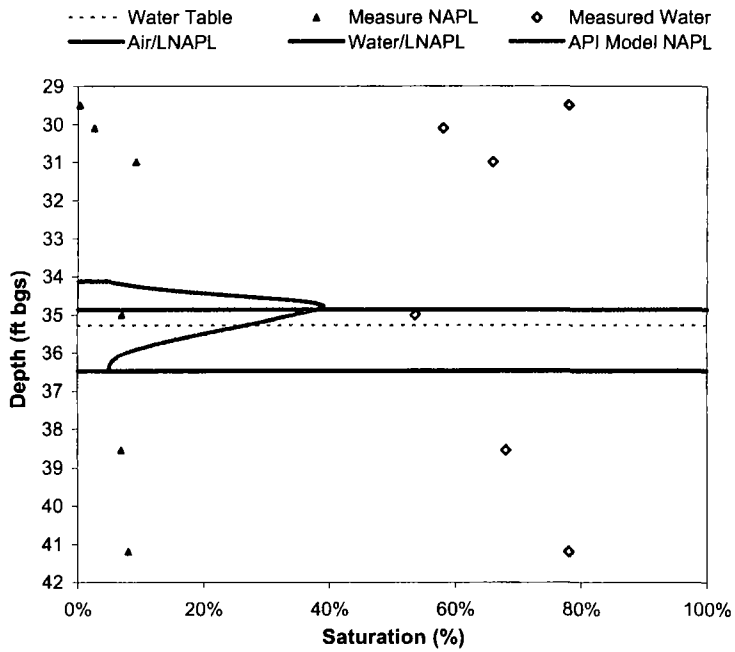
Water Table Elevation
397.36

Estimated Water Table Depth

0	33.21
1	33.21

32.198	0.111927
32.22667	0.123767
32.25533	0.137009
32.284	0.151802
32.31267	0.16829
32.34133	0.186607
32.37	0.206859
32.39867	0.229102
32.42733	0.253302
32.456	0.279305
32.48467	0.306776
32.51333	0.335163
32.542	0.363656
32.57067	0.391203
32.59933	0.416568
32.628	0.438481
32.65667	0.455829
32.68533	0.467877
32.714	0.474432
32.74267	0.475902
32.77133	0.473269
32.8	0.46804
32.8785	0.451248
32.957	0.432828
33.0355	0.412649
33.114	0.390598
33.1925	0.366598
33.271	0.34063
33.3495	0.312767
33.428	0.283211
33.5065	0.252337
33.585	0.220724
33.6635	0.18918
33.742	0.158715
33.8205	0.130465
33.899	0.10556
33.9775	0.084944
34.056	0.069199
34.1345	0.058414
34.213	0.052151
34.2915	0.049478
34.37	0.049

Sor	
0.049	
9/27/2005	
DTP	**Corrected LNAPL Depth**
32.46	32.8
DTW	**Corrected water Depth**
34.03	34.37
GS-MP	
0.34	



API Model Sn

Depth	Sn
34.12	0
34.12	0.047165
34.14467	0.053939
34.16933	0.061355
34.194	0.069467
34.21867	0.078329
34.24333	0.088001
34.268	0.098538
34.29267	0.109996

Gauging Data - Well MP-39C

Ground Surface Elevation
432.34

Measuring Point Elevation
NA

Water Table Elevation
397.07

Estimated Water Table Depth

0	35.27
1	35.27

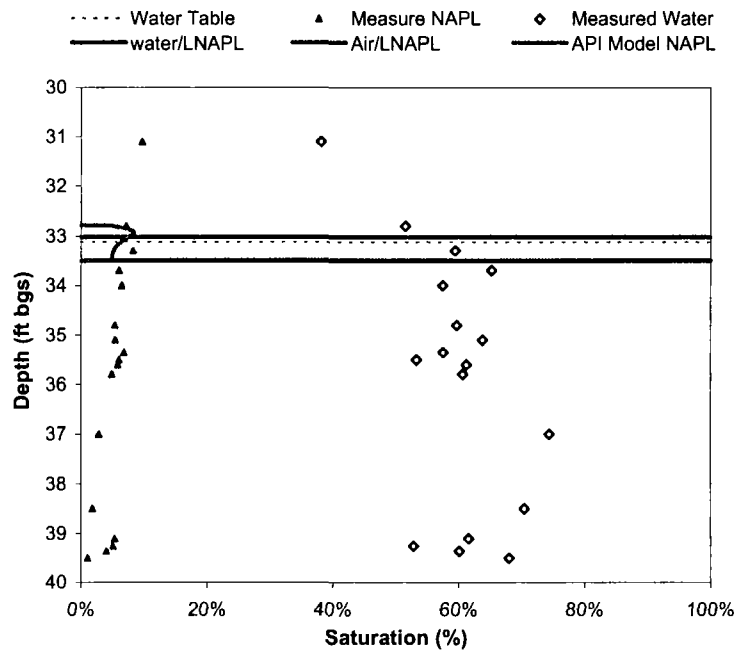
34.31733	0.122424
34.342	0.135863
34.36667	0.15034
34.39133	0.165861
34.416	0.182406
34.44067	0.199913
34.46533	0.218278
34.49	0.237334
34.51467	0.25685
34.53933	0.276519
34.564	0.295965
34.58867	0.314744
34.61333	0.332367
34.638	0.348332
34.66267	0.362163
34.68733	0.373456
34.712	0.381926
34.73667	0.387439
34.76133	0.390034
34.786	0.389922
34.81067	0.387478
34.83533	0.383222
34.86	0.377831
34.941	0.358627
35.022	0.338253
35.103	0.316752
35.184	0.294213
35.265	0.270788
35.346	0.246695
35.427	0.222234
35.508	0.197784
35.589	0.173798
35.67	0.150789
35.751	0.129291
35.832	0.109824
35.913	0.092835
35.994	0.078655
36.075	0.06745
36.156	0.059203
36.237	0.053704
36.318	0.050565
36.399	0.049236
36.48	0.049
36.48	0

Sor
0.049

10/5/2005

DTP	**Corrected LNAPL Depth**
34.59	34.86
DTW	**Corrected water Depth**
36.21	36.48

GS-MP
0.27



API Model Sn

Depth	Sn
32.78952	0
32.78952	0.044941
32.79719	0.048878
32.80485	0.05264
32.81252	0.056216
32.82019	0.059596
32.82785	0.062773
32.83552	0.065739
32.84319	0.068486

Gauging Data - Well MP-29C

Ground Surface Elevation
429.74

Measuring Point Elevation
NA

Water Table Elevation
396.62

Estimated Water Table Depth

0	33.12
1	33.12

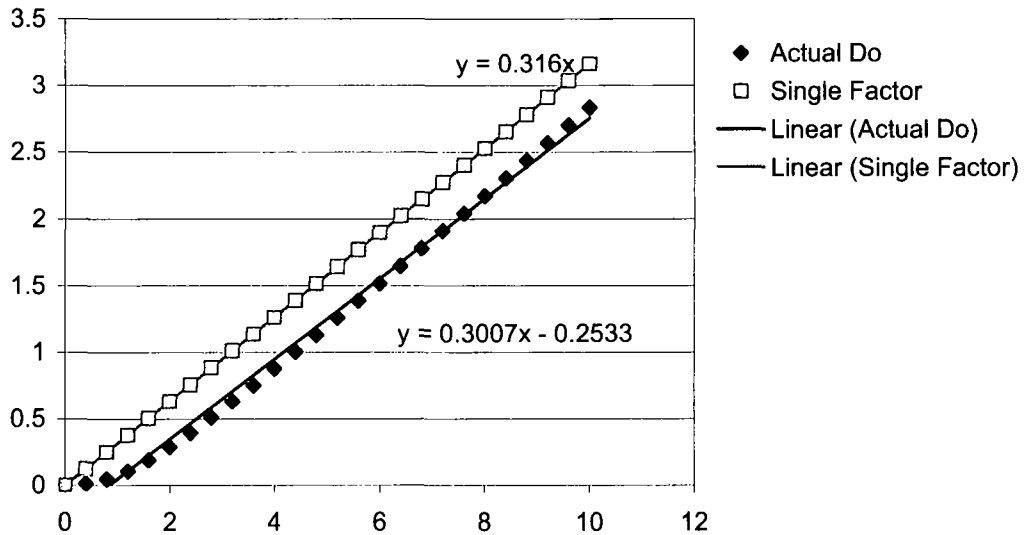
32.85085	0.07101		
32.85852	0.073306	Sor	
32.86619	0.075372	0.049	
32.87385	0.077206		
32.88152	0.078808	10/5/2005	
32.88919	0.08018	DTP	Corrected LNAPL Depth
32.89685	0.081323	32.75	33.02
32.90452	0.082243	DTW	Corrected water Depth
32.91219	0.082944	33.23	33.5
32.91985	0.083432		
32.92752	0.083717	GS-MP	
32.93519	0.083807	0.27	
32.94285	0.083713		
32.95052	0.083445		
32.95819	0.083018	9/20/05.	
32.96585	0.082445	DTP	Corrected LNAPL Depth
32.97352	0.08174	24.05	24.32
32.98119	0.08092	DTW	Corrected water Depth
32.98885	0.080001	24.68	24.98
32.99652	0.079002		
33.00419	0.077944	GS-MP	
33.01185	0.076847	0.3	
33.01952	0.075738		
33.04352	0.072405		
33.06752	0.069322		
33.09152	0.066487		
33.11552	0.063899		
33.13952	0.061552		
33.16352	0.059441		
33.18752	0.057561		
33.21152	0.055904		
33.23552	0.05446		
33.25952	0.053219		
33.28352	0.052171		
33.30752	0.051303		
33.33152	0.050602		
33.35552	0.050053		
33.37952	0.049641		
33.40352	0.049349		
33.42752	0.049159		
33.45152	0.049053		
33.47552	0.049008		
33.49952	0.049		
33.49952	0		

Specific LNAPL Thickness Correction Factors

Model	Applicable Range			
	0-1 foot		>1 foot	
	β	χ	β	χ
HCSB-1	0.06	0.00	0.29	0.95
HCSB-2	0.07	0.00	0.31	0.92
HCSB-3	0.10	0.00	0.33	0.83
HCSB-4	0.07	0.00	0.30	0.93
HCSB-5	0.07	0.00	0.30	0.93

$$D_o = \beta \left(b_n - \chi \right)$$

	Do HCSB-1	
bn	API Model	Single Factor
0	0	0
0.4	0.015061459	0.1264
0.8	0.046794121	0.2528
1.2	0.106782	0.3792
1.6	0.190064385	0.5056
2	0.288706431	0.632
2.4	0.397092964	0.7584
2.8	0.511856799	0.8848
3.2	0.630974444	1.0112
3.6	0.752951226	1.1376
4	0.87743555	1.264
4.4	1.003403703	1.3904
4.8	1.130706734	1.5168
5.2	1.258829007	1.6432
5.6	1.388042171	1.7696
6	1.517714439	1.896
6.4	1.647966213	2.0224
6.8	1.778704557	2.1488
7.2	1.90985501	2.2752
7.6	2.041115339	2.4016
8	2.172677251	2.528
8.4	2.304504684	2.6544
8.8	2.436333996	2.7808
9.2	2.568614435	2.9072
9.6	2.700844032	3.0336
10	2.833220096	3.16



D_O CALCULATIONS TABLE DEVELOPED BY CLAYTON

TABLE
D_o CALCULATIONS DEVELOPED BY CLAYTON

1190505040 – Madison County – ILR000128249
The Hartford Working Group / Hartford, Illinois

Apparent Product Thickness	Do		
	yellow HCSB-1	blue-average HCSB-1 to 4	green HCSB-5
0.1	0.01	0.01	0.01
0.2	0.01	0.02	0.01
0.3	0.02	0.02	0.02
0.4	0.02	0.03	0.03
0.5	0.03	0.04	0.03
0.6	0.04	0.05	0.04
0.7	0.04	0.06	0.05
0.8	0.05	0.06	0.05
0.9	0.05	0.07	0.06
1	0.06	0.08	0.07
1.1	0.04	0.07	0.05
1.2	0.07	0.10	0.08
1.3	0.10	0.13	0.11
1.4	0.13	0.16	0.14
1.5	0.17	0.19	0.17
1.6	0.19	0.22	0.20
1.7	0.22	0.25	0.23
1.8	0.25	0.28	0.26
1.9	0.28	0.32	0.29
2	0.31	0.35	0.33
2.1	0.34	0.38	0.36
2.2	0.37	0.41	0.39
2.3	0.40	0.44	0.42
2.4	0.43	0.47	0.45
2.5	0.46	0.50	0.48
2.6	0.48	0.53	0.51
2.7	0.51	0.57	0.54
2.8	0.54	0.60	0.57
2.9	0.57	0.63	0.60
3	0.60	0.66	0.63
3.1	0.63	0.69	0.66
3.2	0.66	0.72	0.69
3.3	0.69	0.75	0.72
3.4	0.72	0.78	0.75
3.5	0.75	0.82	0.78
3.6	0.78	0.85	0.81
3.7	0.81	0.88	0.84
3.8	0.84	0.91	0.87
4	0.90	0.97	0.93
4.1	0.93	1.00	0.96
4.2	0.95	1.04	0.99
4.3	0.98	1.07	1.02
4.4	1.01	1.10	1.05
4.5	1.04	1.13	1.08
4.6	1.07	1.16	1.11
4.7	1.10	1.19	1.14
4.8	1.13	1.22	1.17
4.9	1.16	1.25	1.20
5	1.19	1.29	1.24
5.1	1.22	1.32	1.27
5.2	1.25	1.35	1.30
5.3	1.28	1.38	1.33
5.4	1.31	1.41	1.36
5.5	1.34	1.44	1.39
5.6	1.37	1.47	1.42
5.7	1.40	1.50	1.45
5.8	1.42	1.54	1.48
5.9	1.45	1.57	1.51
6	1.48	1.60	1.54

Main Sand					
Yellow	Blue	Blue	Green	Clean	Wells Removed
MP-47C	MP-79C/D	MP-99C	HMW-38C	HMW-39C	HB-32
MP-55C	MP-80C	MP-100D	HMW-46C	HMW-51C	RW-4
HMW-44C	HB-31	MP-101C	HMW-47C	MP-81C	
HMW-54B	MP-30C	MP-102C	HMW-45C	HMW-41C	
HMW-49D	MP-83C	MP-103C	MP-78D	HMW-25	
	MP-31C	MP-104C	MP-29D	HMW-26	
	MP-38C		RW-4A	HMW-27	
	MP-32B/C		RW-3	HMW-28	
	MP-34C		MP-85D	HMW-29	
	MP-33D		HMW-48D	MP-61C	
	MP-39C		SP-42	MP-89C	
	HMW-18			MP-62C	
	MP-43C			MP-63C	
	MP-48B/C			HMW-43C	
	MP-49C			HMW-52C	
	HMW-19			HB-38	
	MP-84C			MP-65C	
	MP-86C			MP-66C	
	MP-87C			MP-67C	
	RW-1			HP-1A	
	MP-82C			HP-1B	
	HMW-40C			HP-1C	
	HMW-08			HP-2A	
	HMW-22			HP-3A	
	MP-36C			HP-3B	
	MP-35D			HP-3C	
	HMW-14			HP-4A	
	MP-40C			HP-4B	
	MP-41C			HP-4C	
	MP-44D			HP-5A	
	MP-50C			HP-5B	
	MP-52C			HP-5C	
	MP-37D			HP-6A	
	RW-5			HP-7A	
	MP-42C			HP-8A	
	HMW-10			HP-9A	
	HMW-02			HMW-50C	
	RW-2			SP-41	
	MP-45C			SP-36	
	MP-46C			P-77	
	HB-30			P-78	
	MP-51D			P-79	
	MP-53C			P-106	
	HB-37			MP-92D	
	MP-54C				
	MP-77C				
	MP-56C				
	HMW-20				
	MP-57C				
	MP-60C				
	HMW-53B				
	MP-64C				
	MP-59C				
	MP-58C				
	MP-88C				
	HMW-42B				
	MP-90C				
	MP-91D				
	MP-96D				
	MP-97D				

Notes: Updated to incorporate new wells on October 11, 2006.

In April 2007, the approximate extent of LNAPL, the apparent product thickness, and the LNAPL specific thickness (D_o) (Clayton 2005) were determined, where present, for wells installed in each of the four hydrostratigraphic units (a discussion of D_o and how it is calculated is provided above):

- The North Olive Stratum well gauging data did not indicate the presence of measurable LNAPL (reference Figure B-1). Historically, measurable LNAPL has not been detected in wells gauged in the North Olive Stratum.

- The Rand Stratum well gauging data indicated the presence of LNAPL at one well (reference Figure B-2): HMW-4 (located between East Birch Street and East Rand Avenue, along North Olive Street) with an apparent product thickness of 0.06 feet and a LNAPL specific thickness of 0.01 feet.

- The combined EPA and Main Sand Strata well gauging data (reference Figure B-3) indicated LNAPL was detected at 47 wells, with an apparent product thickness ranging from 0.01 (MP-56C) to 6.41 feet (MP-79C) and a LNAPL specific thickness ranging from 0.01 feet (HB-31, HMW-46C, MP-34C, MP-41C, MP-46C, MP-48B, MP-56C, MP-60C, MP-84C, and RW-1) to 1.60 feet (MP-79C).

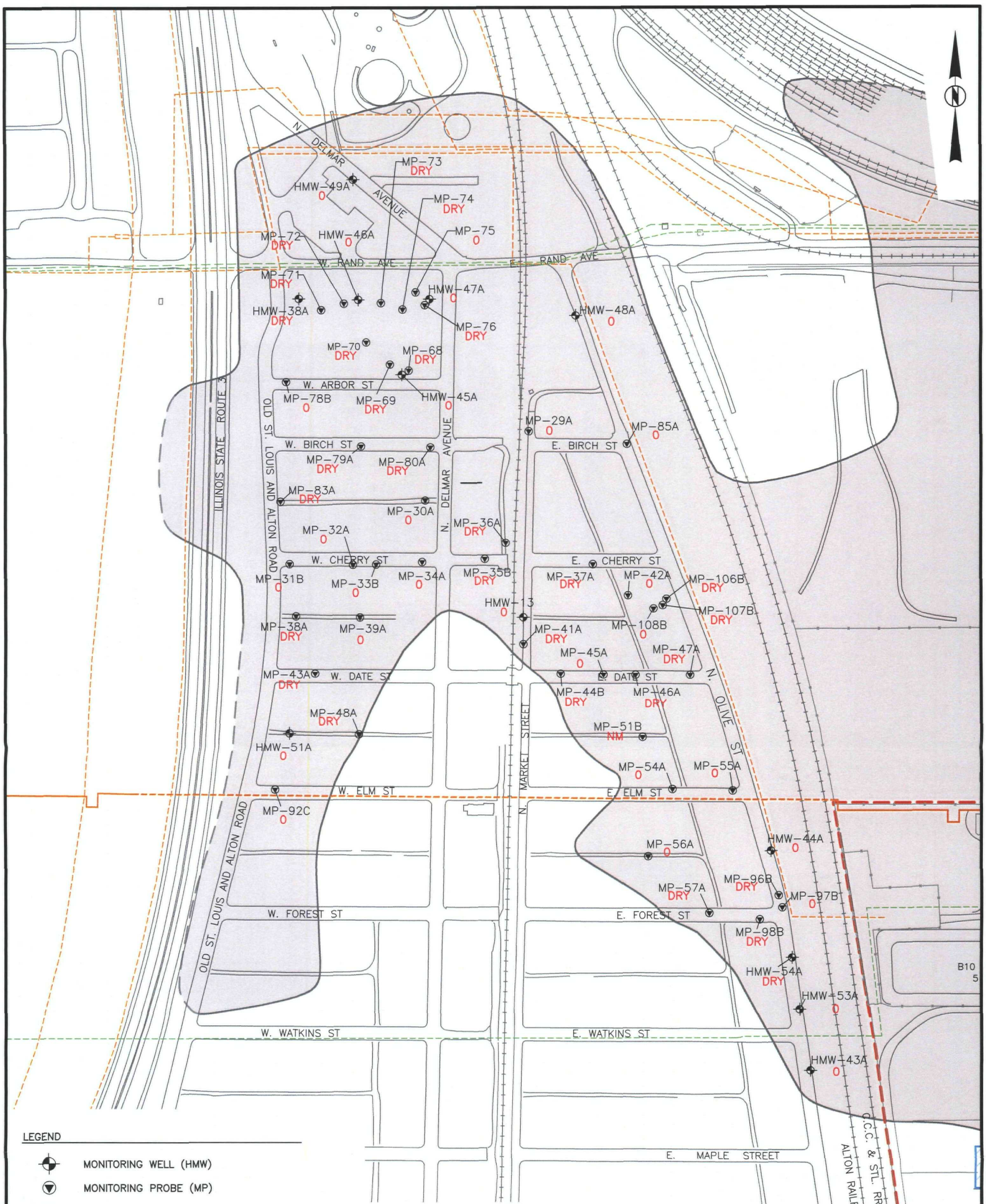
  In April 2007, the approximate extent of LNAPL in the combined EPA and Main Sand Strata was limited in Hartford to south of Rand Avenue, east of Illinois State Route 3, and north of East Maple Street.

- The Main Sand below the D Clay well data did not indicate the presence of measurable LNAPL (reference Figure B-4). Historically, measurable LNAPL has not been detected in wells gauged in the Main Sand below the D Clay.

BUREAU VERITAS

APPENDIX B-1

LNAPL SPECIFIC THICKNESS (D_O) – APRIL 10-11, 2007 – NORTH OLIVE STRATUM



LEGEND

- MONITORING WELL (HMW)
- MONITORING PROBE (MP)
- 0 APPARENT PRODUCT THICKNESS (FEET)/Do (FEET)
- NM NOT MEASURED
- INTERPRETED EXTENT OF STRATUM (DASHED WHERE EXTRAPOLATED)
- PETROLEUM PIPELINE CORRIDORS (UNDERGROUND)
- INDUSTRIAL SEWER CORRIDOR (UNDERGROUND)

NOTES:

1. TOP OF CASING (TOC) ELEVATIONS USED IN THIS MAP FOR VILLAGE WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2003–2006.
2. BASE MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.
3. Do IS A NORMALIZED VOLUME OF LNAPL (FT^3/FT^2) PER UNIT SURFACE AREA, BUT IS EXPRESSED AS A THICKNESS (IN UNITS OF FEET).
4. A "0" AT A MONITORING LOCATION INDICATES THERE WAS NO LNAPL GAUGED AT THE LOCATION AND, THEREFORE, Do ALSO EQUALS "0".

SCALE IN FEET

0 125 250 500

CHECK BY	HLM/KDC
DRAWN BY	BCP
DATE	6–1–07
SCALE	AS SHOWN
CAD NO.	0309514007d105a
PRJ NO.	003095.17

LNPAL SPECIFIC THICKNESS (Do)
APRIL 10–11, 2007
NORTH OLIVE STRATUM
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

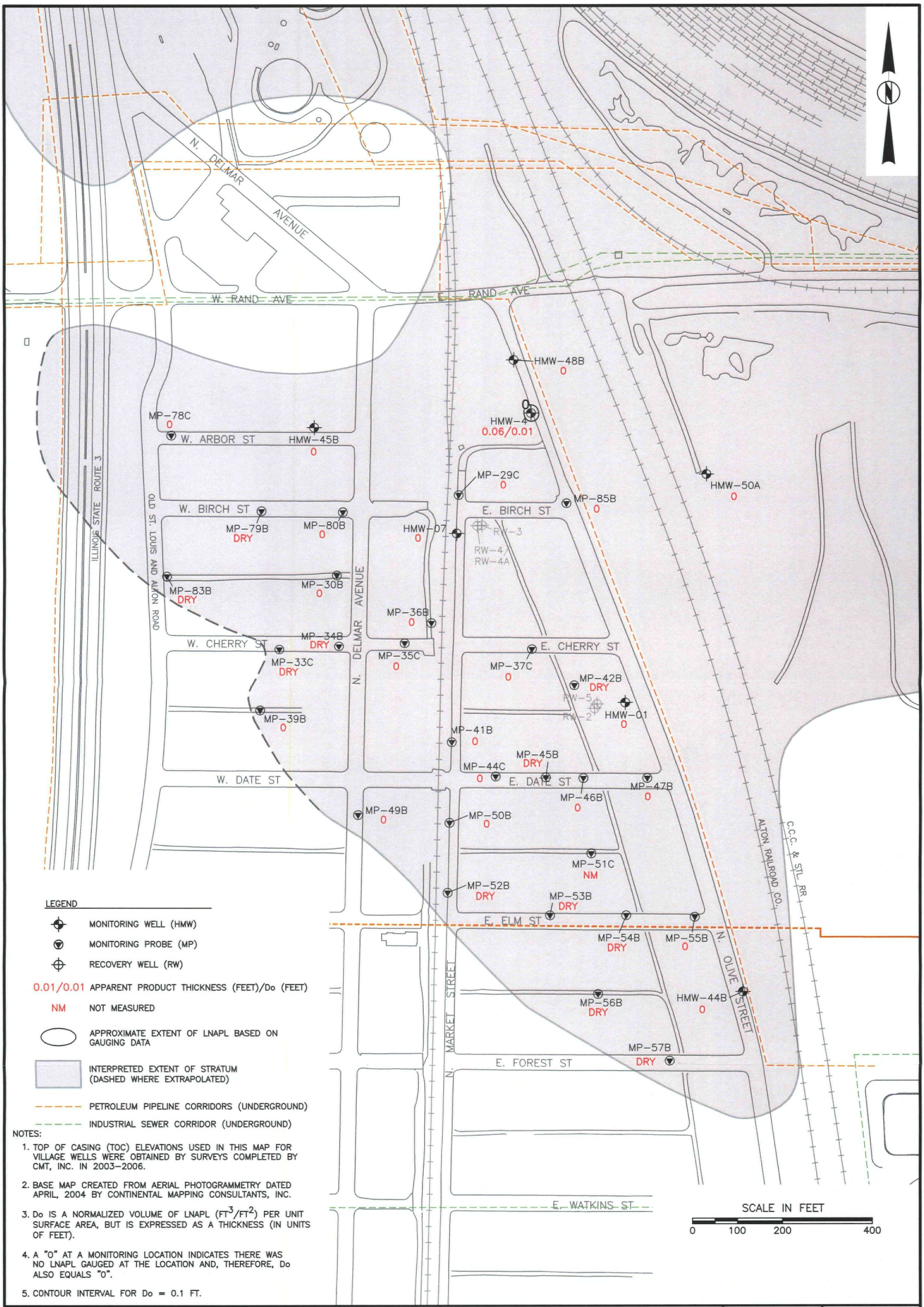
BUREAU VERITAS

FIGURE

B–1

APPENDIX B-2

LNAPL SPECIFIC THICKNESS (D_O) – APRIL 10-11, 2007 – RAND STRATUM



LEGEND

- MONITORING WELL (HMW)
- MONITORING PROBE (MP)
- RECOVERY WELL (RW)
- 0.01/0.01 APPARENT PRODUCT THICKNESS (FEET)/Do (FEET)
- NM NOT MEASURED
- APPROXIMATE EXTENT OF LNAPL BASED ON GAUGING DATA
- INTERPRETED EXTENT OF STRATUM (DASHED WHERE EXTRAPOLATED)
- PETROLEUM PIPELINE CORRIDORS (UNDERGROUND)
- INDUSTRIAL SEWER CORRIDOR (UNDERGROUND)

NOTES:

1. TOP OF CASING (TOC) ELEVATIONS USED IN THIS MAP FOR VILLAGE WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2003–2006.
2. BASE MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.
3. Do IS A NORMALIZED VOLUME OF LNAPL (FT^3/FT^2) PER UNIT SURFACE AREA, BUT IS EXPRESSED AS A THICKNESS (IN UNITS OF FEET).
4. A "0" AT A MONITORING LOCATION INDICATES THERE WAS NO LNAPL GAUGED AT THE LOCATION AND, THEREFORE, Do ALSO EQUALS "0".
5. CONTOUR INTERVAL FOR Do = 0.1 FT.

CHECK BY	HLM/KDC
DRAWN BY	BCP
DATE	6–1–07
SCALE	AS SHOWN
CAD NO.	0309514007d106a
PRJ NO.	003095.17

LNAPL SPECIFIC THICKNESS (Do)
APRIL 10–11. 2007
RAND STRATUM
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

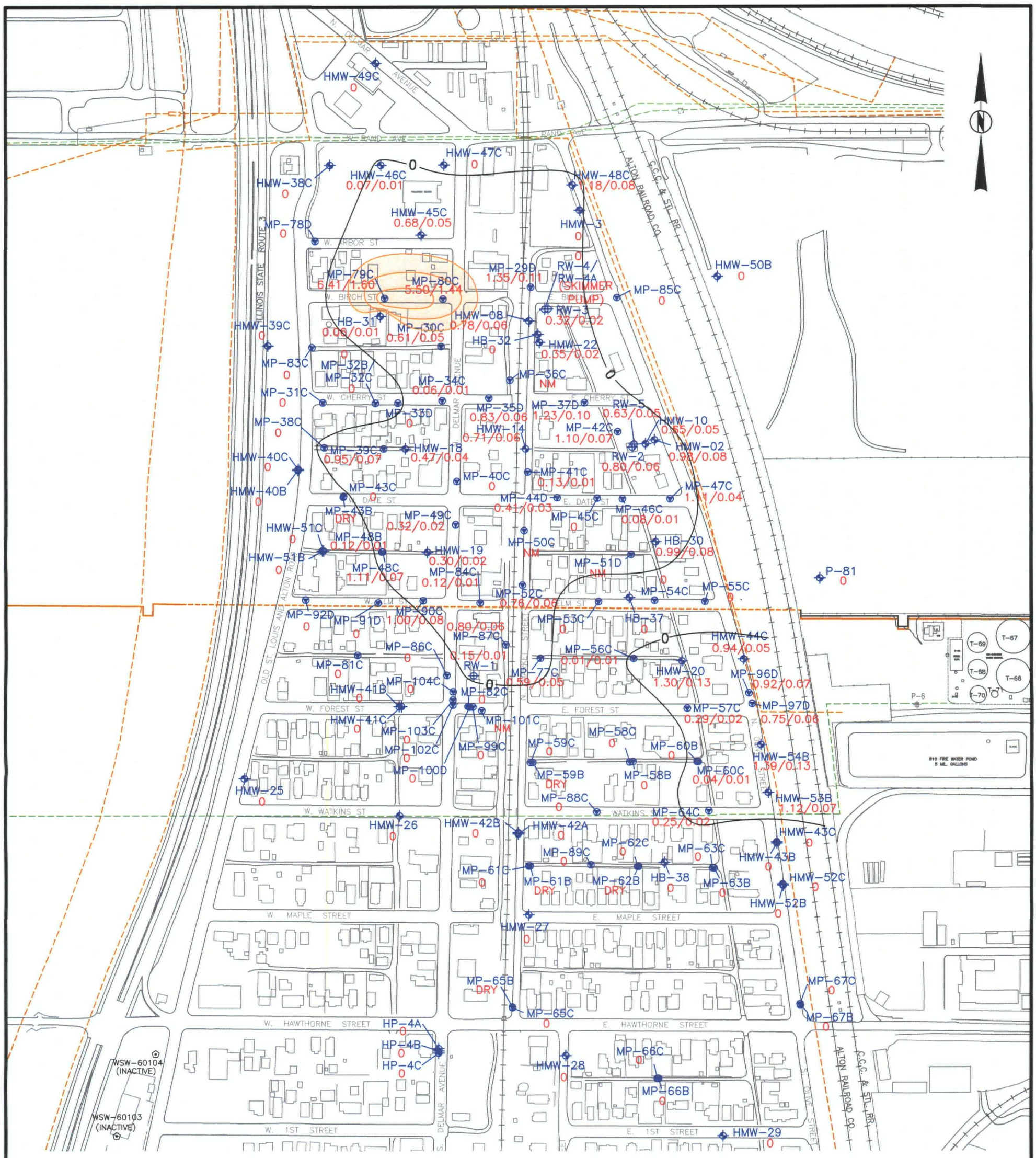
BUREAU VERITAS

FIGURE

B–2

APPENDIX B-3

LNAPL SPECIFIC THICKNESS (D_O) – APRIL 10-11, 2007 – COMBINED EPA AND SHALLOW MAIN SAND STRATA



LEGEND

- MONITORING WELL (HMW, HB)
- MONITORING PROBE (MP)
- RECOVERY WELL (RW)
- 1.66/0.25 APPARENT PRODUCT THICKNESS (FEET)/Do (FEET)
- NM NOT MEASURED
- PETROLEUM PIPELINE CORRIDORS (UNDERGROUND)
- INDUSTRIAL SEWER CORRIDOR (UNDERGROUND)
- APPROXIMATE EXTENT OF LNAPL BASED ON GAUGING DATA
- LNAPL SPECIFIC THICKNESS BETWEEN 0.5 AND 1.6 FOOT

NOTES:

1. TOP OF CASING (TOC) ELEVATIONS USED IN THIS MAP FOR VILLAGE WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2003–2006.
2. BASE MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.
3. Do IS A NORMALIZED VOLUME OF LNAPL (FT^3/FT^2) PER UNIT SURFACE AREA, BUT IS EXPRESSED AS A THICKNESS (IN UNITS OF FEET).
4. A "0" AT A MONITORING LOCATION INDICATES THERE WAS NO LNAPL GAUGED AT THE LOCATION AND, THEREFORE, Do ALSO EQUALS "0".
5. CONTOUR INTERVAL FOR Do = 0.5 FT.
6. WELLS EXCLUDED: RW–4, HB–32, HMW–3

SCALE IN FEET

0 150 300 600

CHECK BY	HLM/KDC
DRAWN BY	BCP
DATE	6–8–07
SCALE	AS SHOWN
CAD NO.	0309514007d108a
PRJ NO.	003095.17

LNAPL SPECIFIC THICKNESS (Do)
APRIL 10–11, 2007
COMBINED EPA STRATUM AND SHALLOW MAIN SAND
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

BUREAU VERITAS

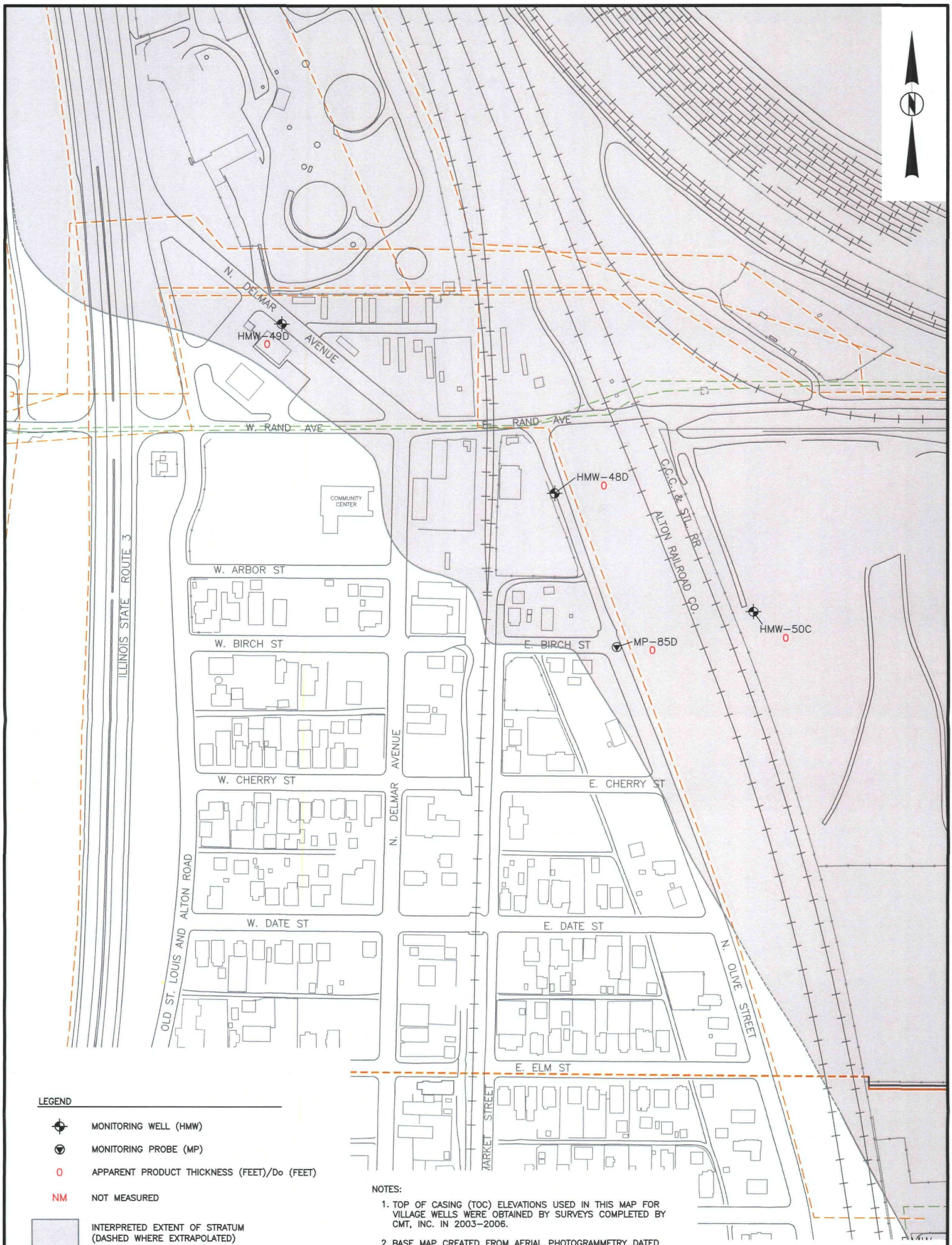
FIGURE

B–3

BUREAU VERITAS

APPENDIX B-4

LNAPL SPECIFIC THICKNESS (D_O) – APRIL 10-11, 2007 – MAIN SAND BELOW THE D CLAY



NOTES:

1. TOP OF CASING (TOC) ELEVATIONS USED IN THIS MAP FOR VILLAGE WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2003–2006.
2. BASE MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.
3. Do IS A NORMALIZED VOLUME OF LNAPL (FT^3/FT^2) PER UNIT SURFACE AREA, BUT IS EXPRESSED AS A THICKNESS (IN UNITS OF FEET).
4. A "0" AT A MONITORING LOCATION INDICATES THERE WAS NO LNAPL GAUGED AT THE LOCATION AND, THEREFORE, Do ALSO EQUALS "0".

CHECK BY	HLM/KDC
DRAWN BY	BCP
DATE	6–1–07
SCALE	AS SHOWN
CAD NO.	0309514007d107a
PRJ NO.	003095.17

LNAPL SPECIFIC THICKNESS (Do)
APRIL 10–11, 2007
MAIN SAND BELOW THE D CLAY
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

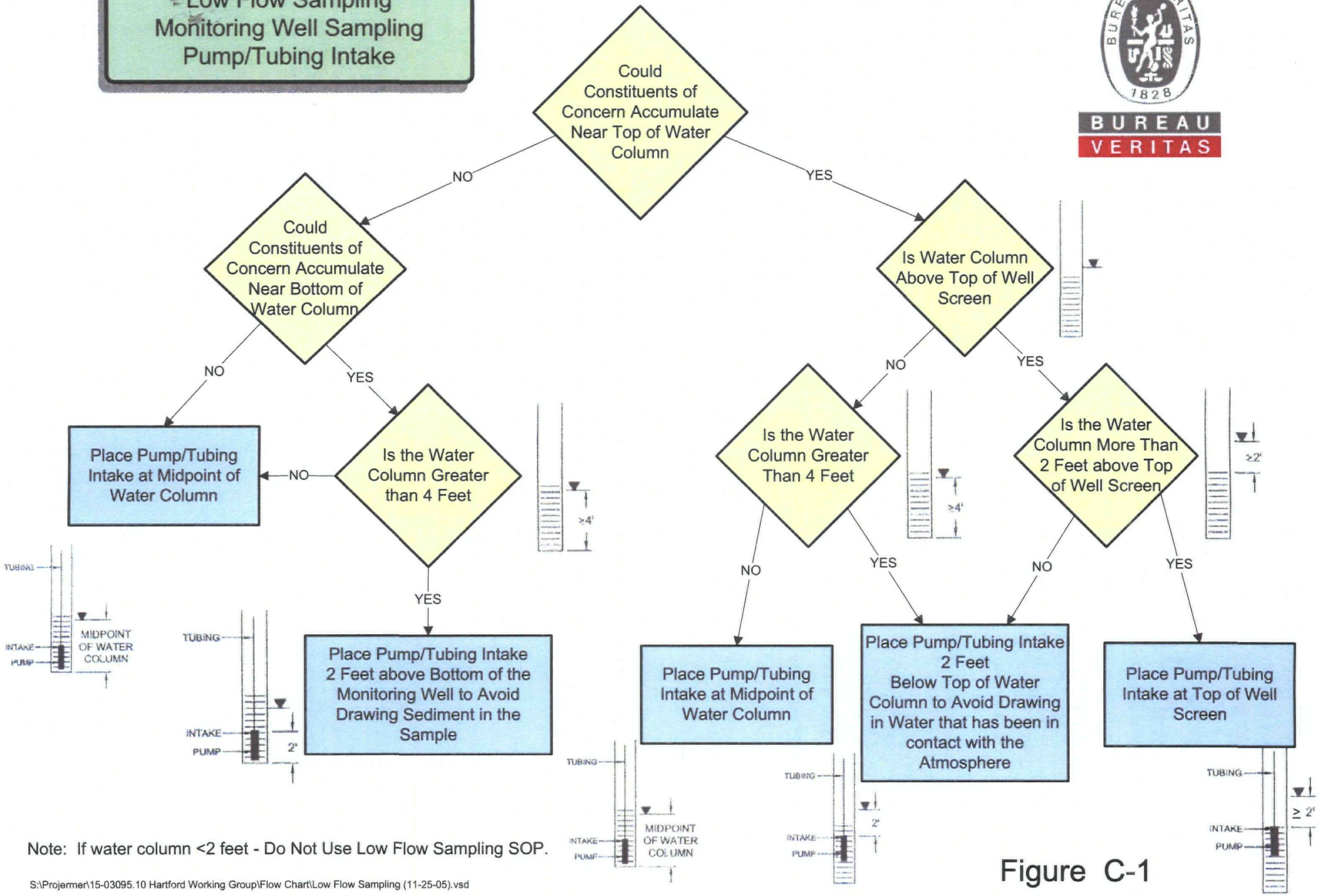
BUREAU VERITAS

FIGURE
B–4

APPENDIX C

LOW FLOW SAMPLING MONITORING WELL SAMPLING PUMP/TUBING INTAKE

Low Flow Sampling Monitoring Well Sampling Pump/Tubing Intake



Note: If water column <2 feet - Do Not Use Low Flow Sampling SOP.

S:\Projermer\15-03095.10 Hartford Working Group\Flow Chart\Low Flow Sampling (11-25-05).vsd

Figure C-1

APPENDIX D

SUMMARY OF INDICATOR PARAMETER MEASUREMENTS – APRIL 2007

TABLE
Well Sampling Indicator Parameters - April 2007 Quarterly Sampling
The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR 000128249
The Hartford Working Group / Hartford, Illinois

Well Number	Date	Time	Total Volume of Water Removed (gals)	Temperature °C	pH (std. units)	Conductivity (umhos/cm)	TDS (ppm)	Turbidity (ntu)	Dissolved Oxygen (mg/L)	Visual Clarity	Comments
HMW-39B	04/13/07	1035	1.39	12.9	7.05	1110	NM	8.0	9.82	Clear	Well Sampled by Peristaltic Pump
		1049	2.78	13.4	7.09	1250	NM	14.0	9.59	Clear	
		1058	4.17	13.7	7.15	1260	NM	16.0	8.62	Clear	
		1112	5.56	13.9	7.16	1250	NM	10.0	7.86	Clear	
		1123	6.95	13.9	7.18	1230	NM	7.0	8.10	Clear	
HMW-49B	04/13/07	0845	0.28	17.3	6.38	3000	NM	8.0	7.48	Clear	Well Purged Dry Sampled after Recharge
		0848	0.56	17.1	6.42	2910	NM	1.0	7.32	Clear	Well Sampled by Peristaltic Pump
		0851	0.84	17.1	6.47	2930	NM	4.0	7.20	Clear	
HMW-50B	04/13/07	0829	1.75	13.6	5.81	1160	NM	23.0	8.67	Clear	Well Sampled by Bailer
		0839	3.50	13.2	6.26	1430	NM	55.0	8.3	Clear	
		0848	5.25	13.7	6.65	1690	NM	62.0	8.37	Clear	
		0855	7.00	13.6	6.80	1790	NM	97.0	8.81	Clear	
		0904	8.75	14.0	6.82	2000	NM	37.0	8.6	Clear	
		0909	10.50	14.1	6.84	2140	NM	29.0	8.98	Clear	
		0917	12.25	14.1	6.88	2110	NM	36.0	9.22	Clear	
MP-89A	04/13/07	1318	0.60	12.3	6.00	525	NM	3.0	12.18	Clear	Well Purged Dry Sampled after Recharge
		1321	0.90	12.0	5.99	424	NM	1.0	12.27	Clear	Well Sampled by Peristaltic Pump
		1323	1.20	12.0	6.72	415	NM	176.0	12.21	Clear	
		1325	1.50	11.9	7.21	414	NM	178.0	12.47	Clear	
		1327	1.80	11.9	7.03	417	NM	3.0	12.42	Clear	
		1328	2.10	11.9	7.05	422	NM	0.0	11.68	Clear	
		1331	2.40	11.9	7.69	440	NM	2.0	12.16	Clear	

NOTES:
°C = degrees Centigrade
gals = gallons
mg/L = milligrams per liter
NM = Not measured
ntu = nephelometric turbidity units
ppm = parts per millions
umhos/cm = micromhos per centimeter

INSTRUCTIONS: This is the raw data export format from the Win-Situ® Low Flow Cell data file:HARTFORD SENTINEL WELL SAMPLING-07003-003095.15-007-HARTFORD WORKING GROUP-HMW-25-4-13-2007.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ® Installation. You may copy this template from the templates subfolder in the f

Operator Name:	T_GRISEL
Company Name:	BVNA
Project Name:	HARTFORD SENTINEL WELL SAMPLING-07003-003095.15-007
Site Name:	HARTFORD WORKING GROUP
Well ID:	HMW-25

pH Sensor:	Installed	Target Value	0.1 [pH]	Target Pecent	0	[%]
ORP Sensor:	Installed	Target Value	10 [mV]	Target Pecent	0	[%]
DO Sensor:	Installed	Target Value	0.3 [mg/L]	Target Pecent	0	[%]
Cond Sensor:	Installed	Target Value	0.1 [µS/cm]	Target Pecent	3	[%]
Turb Sensor:	Installed	Target Value	1 [NTU]	Target Pecent	10	[%]

Pump Model/Type:	DEDICATED
Tubing Type:	POLYETHYLENE
Tubing Diam:	0.17 [in]
Tubing Length:	33 [ft]
Well Depth:	35.14 [ft]
Well Diam:	2 [in]
Screen Len:	176.4 [in]
Screen Depth:	23.67 [ft]
Pump Inlet Depth:	0 [in]
Depth to Water:	25.2 [ft]
Pump Level (TOC):	27.5 [ft]

Final Pumping Rate:	270 [mL/min]
Stable Draw Down:	0 [ft]
Total Volume Formula:	Volume = cup (200 mL) + tubing (147.3 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)
Calculated Total Volume:	264.29 [mL]
Actual Total Volume:	264.29 [mL]
Calculated Measurement Interval:	59 [sec]
Actual Measurement Interval:	59 [sec]

Start date/time:	4/13/2007	8:59:17
End date/time:	4/13/2007	9:11:13
Total Time:	0:11:56	

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [mg/L]	Variance	RDO []	Variance	Cond [µS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	6.82	0	20.04	-7.61	0.13	-0.02			915.95	1.27	7.33	0.08	14.92	-0.04	9:06:23
3	6.82	0	12.6	-7.44	0.14	0.01			914.69	-1.26	9.22	1.9	14.95	0.03	9:07:24
2	6.82	0	6.49	-6.11	0.14	0			916.51	1.81	7.52	-1.71	14.98	0.03	9:08:25
1	6.82	0	0.93	-5.56	0.16	0.02			913.45	-3.06	7.13	-0.39	15.02	0.04	9:09:25
0	6.82	0	-4.11	-5.04	0.17	0.01			905.08	-8.37	7.77	0.64	14.99	-0.02	9:10:25

pH Min:	6.82
pH Max:	6.82
ORP Min:	-4.11
ORP Max:	20.04
DO Min:	0.13
DO Max:	0.17
RDO Min:	
RDO Max:	
Cond Min:	905.08
Cond Max:	916.51
Turb Min:	7.13
Turb Max:	9.22
Temp Min:	14.92
Temp Max:	15.02

Notes: TURBIDITY<10NTU

Device Record:

In-Situ Inc. Troll 9000 Pro XP

Report generated: 4/18/2007 14:24:58
Report from file: ...\HARTFORD SENTINEL WELL SAMPLING-07003-003095.15-007-HARTFORD WORKING GROUP-HMW-25-4-13-2007.flo.bin
Win-Situ® Version 4.57.0.0

Serial number: 45406
Firmware Version 2
Unit name: MP Troll 9000

Test name: LowFlow

Test defined on: 4/13/2007 8:59:17
Test started on: 4/13/2007 8:59:17
Test stopped on: N/A N/A

Data gathered using Event testing
Time between data points: 0.0 Seconds.
Time between default storages: 0.0 Seconds.
Monitoring data on channel [1]
Data stored if delta value exceeds: 0 Celsius
Number of data samples: 12

TOTAL DATA SAMPLES 12

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [3]
Measurement type: Barometric Pressure
Channel name:

Channel number [4]
Measurement type: Turbidity
Channel name:

Channel number [5]
Measurement type: Battery Voltage
Channel name:

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen %Saturation
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temperature Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO milligrams/L	Chan[25] Clark DO Sat %Saturation	Chan[45] Conductivity microSiemens/cm Actual Conductivity
4/13/2007	8:59:17	0	14.89	29.828	8.6	2.968	81	6.82	0.55	5.4664	917.16
4/13/2007	9:00:17	60	14.91	29.829	8.7	2.968	69	6.82	0.36	3.5717	914.09
4/13/2007	9:01:19	122	14.96	29.829	8.6	2.915	59	6.82	0.27	2.6442	914.82
4/13/2007	9:02:20	183	14.96	29.829	8.9	2.915	49	6.82	0.22	2.185	914.83
4/13/2007	9:03:20	243	14.96	29.829	7.4	2.968	40	6.82	0.19	1.8515	913.04
4/13/2007	9:04:21	304	14.99	29.829	8.7	2.915	35	6.82	0.16	1.558	914.67
4/13/2007	9:05:21	364	14.96	29.829	7.2	2.968	28	6.82	0.15	1.4779	914.68
4/13/2007	9:06:23	426	14.92	29.828	7.3	2.915	20	6.82	0.13	1.3136	915.95
4/13/2007	9:07:24	487	14.95	29.827	9.2	2.968	13	6.82	0.14	1.398	914.69
4/13/2007	9:08:25	548	14.98	29.826	7.5	2.968	6	6.82	0.14	1.3982	916.51
4/13/2007	9:09:25	608	15.02	29.824	7.1	2.994	1	6.82	0.16	1.5657	913.45
4/13/2007	9:10:25	668	14.99	29.824	7.8	2.994	-4	6.82	0.17	1.6519	905.08

INSTRUCTIONS: This Is the raw data export format from the Win-Situ® Low Flow Cell data file:HARTFORD SENTINEL WELL SAMPLING-07003-003095.15-007-HARTFORD WORKING GROUP-HMW-26-4-13-2007.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ® Installation. You may copy this template from the templates subfolder in the f

Operator Name:	T_GRISEL
Company Name:	BVNA
Project Name:	HARTFORD SENTINEL WELL SAMPLING-07003-003095.15-007
Site Name:	HARTFORD WORKING GROUP
Well ID:	HMW-26

pH Sensor:	Installed	Target Value	0.1 [pH]	Target Pecent	0	[%]
ORP Sensor:	Installed	Target Value	10 [mV]	Target Pecent	0	[%]
DO Sensor:	Installed	Target Value	0.3 [mg/L]	Target Pecent	0	[%]
Cond Sensor:	Installed	Target Value	0.1 [µS/cm]	Target Pecent	3	[%]
Turb Sensor:	Installed	Target Value	1 [NTU]	Target Pecent	10	[%]

Pump Model/Type:	DEDICATED
Tubing Type:	POLYETHYLENE
Tubing Diam:	0.17 [in]
Tubing Length:	34 [ft]
Well Depth:	35.59 [ft]
Well Diam:	2 [in]
Screen Len:	176.4 [in]
Screen Depth:	24.61 [ft]
Pump Inlet Depth:	0 [in]
Depth to Water:	24.39 [ft]
Pump Level (TOC):	26.5 [ft]

Final Pumping Rate:	330 [mL/min]
Stable Draw Down:	0 [ft]
Total Volume Formula:	Volume = cup (200 mL) + tubing (151.8 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)
Calculated Total Volume:	268.76 [mL]
Actual Total Volume:	268.76 [mL]
Calculated Measurement Interval:	49 [sec]
Actual Measurement Interval:	49 [sec]

Start date/time:	4/13/2007	10:22:18
End date/time:	4/13/2007	10:38:40
Total Time:	0:16:22	

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [mg/L]	Variance	RDO []	Variance	Cond [µS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	6.67	0	-66.66	-0.56	0.09	0			1887.87	0.82	9.84	-2.7	15.68	0.01	10:34:56
3	6.67	-0.01	-67.22	-0.56	0.09	0			1878.76	-9.12	13.02	3.18	15.73	0.05	10:35:46
2	6.66	0	-70.68	-3.46	0.09	0			1884.13	5.37	11.69	-1.33	15.52	-0.21	10:36:38
1	6.67	0	-72.3	-1.62	0.09	0			1880.34	-3.78	11.32	-0.37	15.63	0.11	10:37:27
0	6.66	0	-74.02	-1.71	0.09	0			1872.03	-8.31	11.93	0.6	15.6	-0.03	10:38:18

pH Min:	6.66
pH Max:	6.67
ORP Min:	-74.02
ORP Max:	-66.66
DO Min:	0.09
DO Max:	0.09
RDO Min:	
RDO Max:	
Cond Min:	1872.03
Cond Max:	1887.87
Turb Min:	9.84
Turb Max:	13.02
Temp Min:	15.52
Temp Max:	15.73

Notes:

Device Record:

In-Situ Inc.	Troll 9000 Pro XP
Report generated:	4/18/2007 14:26:37
Report from file:	...\HARTFORD SENTINEL WELL SAMPLING-07003-003095.15-007-HARTFORD WORKING GROUP-HMW-26-4-13-2007.flo.bin
Win-Situ® Version	4.57.0.0
Serial number:	45406
Firmware Version	2
Unit name:	MP Troll 9000
Test name:	LowFlow
Test defined on:	4/13/2007 10:22:18
Test started on:	4/13/2007 10:22:18
Test stopped on:	N/A N/A

Data gathered using Event testing

Time between data points:	0.0	Seconds.
Time between default storages:	0.0	Seconds.
Monitoring data on channel [1]		
Data stored if delta value exceeds:	0	Celsius
Number of data samples:	*20*	

TOTAL DATA SAMPLES 20

Channel number [1]	
Measurement type:	Temperature
Channel name:	
Channel number [3]	
Measurement type:	Barometric Pressure
Channel name:	
Channel number [4]	
Measurement type:	Turbidity
Channel name:	
Channel number [5]	
Measurement type:	Battery Voltage
Channel name:	
Channel number [11]	
Measurement type:	ORP
Channel name:	
Channel number [12]	
Measurement type:	pH
Channel name:	
Channel number [25]	
Measurement type:	Dissolved Oxygen
Channel name:	

Channel number [25]
Measurement type: Dissolved Oxygen %Saturation
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temperature Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO milligrams/L	Chan[25] Clark DO Sat %Saturation	Chan[45] Conductivity microSiemens/cm Actual Conductivity
4/13/2007	10:22:18	0	15.53	29.811	6	2.968	-11	6.67	0.69	7.0125	1818.67
4/13/2007	10:23:09	51	15.63	29.81	3	2.968	-23	6.69	0.4	4.0251	1808.83
4/13/2007	10:23:58	100	15.57	29.809	1.3	2.994	-32	6.69	0.26	2.5928	1833.91
4/13/2007	10:24:49	151	15.63	29.808	6.9	2.968	-37	6.69	0.19	1.9746	1829.65
4/13/2007	10:25:39	201	15.66	29.808	85.2	2.968	-41	6.69	0.16	1.6482	1816.85
4/13/2007	10:26:30	252	15.68	29.808	61.5	2.915	-45	6.68	0.14	1.4465	1843.61
4/13/2007	10:27:21	303	15.72	29.808	53.8	2.968	-48	6.69	0.13	1.3269	1850.31
4/13/2007	10:28:11	353	15.74	29.807	49.3	2.968	-51	6.69	0.12	1.209	1829.27
4/13/2007	10:29:01	403	15.64	29.805	34.7	2.915	-55	6.68	0.12	1.2194	1860.14
4/13/2007	10:29:52	454	15.68	29.803	27.9	2.941	-58	6.69	0.11	1.142	1869.22
4/13/2007	10:30:42	504	15.63	29.801	27.8	2.968	-60	6.68	0.1	1.0671	1859.59
4/13/2007	10:31:34	556	15.69	29.801	16.8	2.994	-62	6.67	0.1	1.0286	1884.56
4/13/2007	10:32:25	607	15.72	29.8	14.3	2.968	-64	6.68	0.1	1.0318	1888.46
4/13/2007	10:33:14	656	15.71	29.8	15.5	2.994	-66	6.67	0.1	0.9948	1874.8
4/13/2007	10:34:05	707	15.67	29.799	12.5	2.968	-66	6.67	0.09	0.9587	1887.05
4/13/2007	10:34:56	758	15.68	29.798	9.8	2.941	-67	6.67	0.09	0.9618	1887.87
4/13/2007	10:35:46	808	15.73	29.797	13	2.968	-67	6.67	0.09	0.963	1878.76
4/13/2007	10:36:38	860	15.52	29.796	11.7	2.941	-71	6.66	0.09	0.9306	1884.13
4/13/2007	10:37:27	909	15.63	29.794	11.3	2.994	-72	6.67	0.09	0.9291	1880.34
4/13/2007	10:38:18	960	15.6	29.794	11.9	2.941	-74	6.66	0.09	0.9317	1872.03

INSTRUCTIONS: This is the raw data export format from the Win-Situ® Low Flow Cell data file:HARTFORD SENTINEL WELL SAMPLING-07003-003095.15-007-HARTFORD WORKING GROUP-HMW-27-4-13-2007.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ® Installation. You may copy this template from the templates subfolder in the f

Operator Name:	T_GRISEL
Company Name:	BVNA
Project Name:	HARTFORD SENTINEL WELL SAMPLING-07003-003095.15-007
Site Name:	HARTFORD WORKING GROUP
Well ID:	HMW-27

pH Sensor:	Installed	Target Value	0.1 [pH]	Target Pecent	0	[%]
ORP Sensor:	Installed	Target Value	10 [mV]	Target Pecent	0	[%]
DO Sensor:	Installed	Target Value	0.3 [mg/L]	Target Pecent	0	[%]
Cond Sensor:	Installed	Target Value	0.1 [µS/cm]	Target Pecent	3	[%]
Turb Sensor:	Installed	Target Value	1 [NTU]	Target Pecent	10	[%]

Pump Model/Type:	DEDICATED
Tubing Type:	POLYETHYLENE
Tubing Diam:	0.17 [in]
Tubing Length:	34 [ft]
Well Depth:	35.03 [ft]
Well Diam:	2 [in]
Screen Len:	176.4 [in]
Screen Depth:	24.62 [ft]
Pump Inlet Depth:	0 [in]
Depth to Water:	30.07 [ft]
Pump Level (TOC):	32 [ft]

Final Pumping Rate:	250 [mL/min]
Stable Draw Down:	0 [ft]
Total Volume Formula:	Volume = cup (200 mL) + tubing (151.8 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)
Calculated Total Volume:	268.76 [mL]
Actual Total Volume:	268.76 [mL]
Calculated Measurement Interval:	65 [sec]
Actual Measurement Interval:	65 [sec]

Start date/time:	4/13/2007	11:20:27
End date/time:	4/13/2007	11:24:16
Total Time:	0:03:49	

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [mg/L]	Variance	RDO []	Variance	Cond [µS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	0	0	0	0	0	0			0	0	0	0	0	0	0
3	6.38	6.38	13.84	13.84	0.42	0.42			1130.25	1130.25	-0.14	-0.14	16.23	16.23	11:20:27
2	6.42	0.04	8.2	-5.64	0.43	0.01			1118.8	-11.44	0.09	0.23	16.22	-0.02	11:21:34
1	6.44	0.02	4.6	-3.59	0.6	0.17			1114.22	-4.58	-0.08	-0.18	16.16	-0.06	11:22:41
0	6.46	0.02	1.4	-3.21	0.59	-0.01			1121.2	6.97	-0.07	0.01	16.24	0.08	11:23:48

pH Min:	0
pH Max:	6.46
ORP Min:	0
ORP Max:	13.84
DO Min:	0
DO Max:	0.6
RDO Min:	
RDO Max:	
Cond Min:	0
Cond Max:	1130.25
Turb Min:	-0.14
Turb Max:	0.09
Temp Min:	0
Temp Max:	16.24

Notes: TURBIDITY<10NTU

Device Record:

In-Situ Inc. Troll 9000 Pro XP

Report generated: 4/18/2007 14:28:10
Report from file: ...\HARTFORD SENTINEL WELL SAMPLING-07003-003095.15-007-HARTFORD WORKING GROUP-HMW-27-4-13-2007.flo.bin
Win-Situ® Version 4.57.0.0

Serial number: 45406
Firmware Version 2
Unit name: MP Troll 9000

Test name: LowFlow

Test defined on: 4/13/2007 11:20:27
Test started on: 4/13/2007 11:20:27
Test stopped on: N/A N/A

Data gathered using Event testing
Time between data points: 0.0 Seconds.
Time between default storages: 0.0 Seconds.
Monitoring data on channel [1]
Data stored if delta value exceeds: 0 Celsius
Number of data samples: 4

TOTAL DATA SAMPLES 4

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [3]
Measurement type: Barometric Pressure
Channel name:

Channel number [4]
Measurement type: Turbidity
Channel name:

Channel number [5]
Measurement type: Battery Voltage
Channel name:

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen %Saturation
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temperature Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO milligrams/L	Chan[25] Clark DO Sat %Saturation	Chan[45] Conductivity microSiemens/cm	Actual Conductivity
4/13/2007	11:20:27	0	16.23	29.779	-0.1	2.941	14	6.38	0.42	4.2916	1130.25	
4/13/2007	11:21:34	67	16.22	29.777	0.1	2.941	8	6.42	0.43	4.4141	1118.8	
4/13/2007	11:22:41	134	16.16	29.772	-0.1	2.889	5	6.44	0.6	6.1996	1114.22	
4/13/2007	11:23:48	201	16.24	29.77	-0.1	2.941	1	6.46	0.59	6.0991	1121.2	

INSTRUCTIONS: This is the raw data export format from the Win-Situ® Low Flow Cell data file:HARTFORD SENTINEL WELL SAMPLING-07003-003095.15-007-HARTFORD WORKING GROUP-HMW-28-4-13-2007.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ® Installation. You may copy this template from the templates subfolder in the f

Operator Name:	T_GRISEL
Company Name:	BVNA
Project Name:	HARTFORD SENTINEL WELL SAMPLING-07003-003095.15-007
Site Name:	HARTFORD WORKING GROUP
Well ID:	HMW-28

pH Sensor:	Installed	Target Value	0.1 [pH]	Target Pecent	0 [%]
ORP Sensor:	Installed	Target Value	10 [mV]	Target Pecent	0 [%]
DO Sensor:	Installed	Target Value	0.3 [mg/L]	Target Pecent	0 [%]
Cond Sensor:	Installed	Target Value	0.1 [µS/cm]	Target Pecent	3 [%]
Turb Sensor:	Installed	Target Value	1 [NTU]	Target Pecent	10 [%]

Pump Model/Type:	DEDICATED
Tubing Type:	POLYETHYLENE
Tubing Diam:	0.17 [in]
Tubing Length:	34 [ft]
Well Depth:	35 [ft]
Well Diam:	2 [in]
Screen Len:	176.4 [in]
Screen Depth:	24 [ft]
Pump Inlet Depth:	0 [in]
Depth to Water:	29.65 [ft]
Pump Level (TOC):	31.65 [ft]

Final Pumping Rate:	250 [mL/min]
Stable Draw Down:	0.3 [ft]
Total Volume Formula:	Volume = cup (200 mL) + tubing (151.8 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)
Calculated Total Volume:	268.76 [mL]
Actual Total Volume:	268.76 [mL]
Calculated Measurement Interval:	65 [sec]
Actual Measurement Interval:	65 [sec]

Start date/time:	4/13/2007	13:13:25
End date/time:	4/13/2007	13:18:34
Total Time:	0:05:09	

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [mg/L]	Variance	RDO []	Variance	Cond [µS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	6.61	6.61	59.12	59.12	1.5	1.5			950.26	950.26	-0.13	-0.13	15.5	15.5	13:13:25
3	6.63	0.02	47.45	-11.67	0.7	-0.8			959.49	9.23	-0.11	0.02	15.47	-0.03	13:14:32
2	6.64	0.01	39.88	-7.57	0.38	-0.32			963.08	3.59	-0.18	-0.06	15.54	0.07	13:15:39
1	6.64	0	33.68	-6.2	0.24	-0.14			959.71	-3.37	-0.18	-0.01	15.34	-0.2	13:16:46
0	6.65	0	35.31	1.62	0.19	-0.06			965.3	5.59	-0.25	-0.07	15.49	0.15	13:17:53

pH Min:	6.61
pH Max:	6.65
ORP Min:	33.68
ORP Max:	59.12
DO Min:	0.19
DO Max:	1.5
RDO Min:	
RDO Max:	
Cond Min:	950.26
Cond Max:	965.3
Turb Min:	-0.25
Turb Max:	-0.11
Temp Min:	15.34
Temp Max:	15.54

Notes: TURBIDITY<10NTU

Device Record:

In-Situ Inc. Troll 9000 Pro XP

Report generated: 4/18/2007 14:29:50
Report from file: ...\HARTFORD SENTINEL WELL SAMPLING-07003-003095.15-007-HARTFORD WORKING GROUP-HMW-28-4-13-2007.flo.bin
Win-Situ® Version 4.57.0.0

Serial number: 45406
Firmware Version 2
Unit name: MP Troll 9000

Test name: LowFlow

Test defined on: 4/13/2007 13:13:25
Test started on: 4/13/2007 13:13:25
Test stopped on: N/A N/A

Data gathered using Event testing
Time between data points: 0.0 Seconds.
Time between default storages: 0.0 Seconds.
Monitoring data on channel [1]
Data stored if delta value exceeds: 0 Celsius
Number of data samples: 5

TOTAL DATA SAMPLES 5

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [3]
Measurement type: Barometric Pressure
Channel name:

Channel number [4]
Measurement type: Turbidity
Channel name:

Channel number [5]
Measurement type: Battery Voltage
Channel name:

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen %Saturation
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temperature Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO milligrams/L	Chan[25] Clark DO Sat %Saturation	Chan[45] Conductivity microSiemens/cm Actual Conductivity
4/13/2007	13:13:25	0	15.5	29.76	-0.1	2.968	59	6.61	1.5	15.1761	950.26
4/13/2007	13:14:32	67	15.47	29.761	-0.1	2.941	47	6.63	0.7	7.0829	959.49
4/13/2007	13:15:39	134	15.54	29.76	-0.2	2.968	40	6.64	0.38	3.8902	963.08
4/13/2007	13:16:46	201	15.34	29.757	-0.2	2.915	34	6.64	0.24	2.4231	959.71
4/13/2007	13:17:53	268	15.49	29.757	-0.3	2.968	35	6.65	0.19	1.8746	965.3

INSTRUCTIONS: This is the raw data export format from the Win-Situ® Low Flow Cell data file:HARTFORD SENTINEL WELL SAMPLING-07003-003095.15-007-HARTFORD WORKING GROUP-HMW-29-4-16-2007.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ® Installation. You may copy this template from the templates subfolder in the f

Operator Name:	T_GRISEL
Company Name:	BVNA
Project Name:	HARTFORD SENTINEL WELL SAMPLING-07003-003095.15-007
Site Name:	HARTFORD WORKING GROUP
Well ID:	HMW-29

pH Sensor:	Installed	Target Value	0.1 [pH]	Target Pecent	0 [%]
ORP Sensor:	Installed	Target Value	10 [mV]	Target Pecent	0 [%]
DO Sensor:	Installed	Target Value	0.3 [mg/L]	Target Pecent	0 [%]
Cond Sensor:	Installed	Target Value	0.1 [µS/cm]	Target Pecent	3 [%]
Turb Sensor:	Installed	Target Value	1 [NTU]	Target Pecent	10 [%]

Pump Model/Type:	DEDICATED
Tubing Type:	POLYETHYLENE
Tubing Diam:	0.17 [in]
Tubing Length:	32 [ft]
Well Depth:	34.55 [ft]
Well Diam:	2 [in]
Screen Len:	176.4 [in]
Screen Depth:	24.86 [ft]
Pump Inlet Depth:	0 [in]
Depth to Water:	29.06 [ft]
Pump Level (TOC):	31.06 [ft]
Final Pumping Rate:	264 [mL/min]
Stable Draw Down:	0.3 [ft]
Total Volume Formula:	Volume = cup (200 mL) + tubing (142.8 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)
Calculated Total Volume:	259.83 [mL]
Actual Total Volume:	259.83 [mL]
Calculated Measurement Interval:	60 [sec]
Actual Measurement Interval:	60 [sec]
Start date/time:	4/16/2007 9:55:32
End date/time:	4/16/2007 9:59:17
Total Time:	0:03:45

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [mg/L]	Variance	RDO []	Variance	Cond [µS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	0	0	0	0	0	0			0	0	0	0	0	0	0
3	6.7	6.7	-23.16	-23.16	0.14	0.14			914.79	914.79	0.99	0.99	15.87	15.87	9:55:32
2	6.73	0.02	-28.81	-5.64	0.09	-0.05			906.79	-8	0.93	-0.06	15.83	-0.04	9:56:34
1	6.75	0.02	-32.65	-3.85	0.09	0			897.3	-9.49	0.83	-0.1	15.85	0.02	9:57:36
0	6.76	0.01	-35.65	-2.99	0.1	0.01			895.12	-2.18	0.82	-0.01	15.82	-0.03	9:58:37

pH Min:	0
pH Max:	6.76
ORP Min:	-35.65
ORP Max:	0
DO Min:	0
DO Max:	0.14
RDO Min:	
RDO Max:	
Cond Min:	0
Cond Max:	914.79
Turb Min:	0
Turb Max:	0.99
Temp Min:	0
Temp Max:	15.87

Notes: TURBIDITY<10NTU

Device Record:

In-Situ Inc. Troll 9000 Pro XP

Report generated: 4/18/2007 14:31:23
Report from file: ...\HARTFORD SENTINEL WELL SAMPLING-07003-003095.15-007-HARTFORD WORKING GROUP-HMW-29-4-16-2007.flo.bin
Win-Situ® Version 4.57.0.0

Serial number: 45406
Firmware Version 2
Unit name: MP Troll 9000

Test name: LowFlow

Test defined on: 4/16/2007 9:55:32
Test started on: 4/16/2007 9:55:32
Test stopped on: N/A N/A

Data gathered using Event testing
Time between data points: 0.0 Seconds.
Time between default storages: 0.0 Seconds.
Monitoring data on channel [1]
Data stored if delta value exceeds: 0 Celsius
Number of data samples: 4

TOTAL DATA SAMPLES 4

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [3]
Measurement type: Barometric Pressure
Channel name:

Channel number [4]
Measurement type: Turbidity
Channel name:

Channel number [5]
Measurement type: Battery Voltage
Channel name:

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen %Saturation
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temperature Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO milligrams/L	Chan[25] Clark DO Sat %Saturation	Chan[45] Conductivity microSiemens/cm	Actual Conductivity
4/16/2007	9:55:32	0	15.87	29.667	1	2.889	-23	6.7	0.14	1.4366	914.79	
4/16/2007	9:56:34	62	15.83	29.665	0.9	2.889	-29	6.73	0.09	0.9005	906.79	
4/16/2007	9:57:36	124	15.85	29.663	0.8	2.915	-33	6.75	0.09	0.895	897.3	
4/16/2007	9:58:37	185	15.82	29.661	0.8	2.889	-36	6.76	0.1	0.9735	895.12	

INSTRUCTIONS: This is the raw data export format from the Win-Situ® Low Flow Cell data file:HARTFORD QUARTERLY GROUNDWATER SAMPLING-07003-003095.17-001-HARTFORD WORKING GROUP-HMW-39C-4-16-2007.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ® Installation. You may copy this template from the *templates subfolde*

Operator Name:	T_GRISEL
Company Name:	BVNA
Project Name:	HARTFORD QUARTERLY GROUNDWATER SAMPLING-07003-003095.17-001
Site Name:	HARTFORD WORKING GROUP
Well ID:	HMW-39C

pH Sensor:	Installed	Target Value	0.1 [pH]	Target Pecent	0 [%]
ORP Sensor:	Installed	Target Value	10 [mV]	Target Pecent	0 [%]
DO Sensor:	Installed	Target Value	0.3 [mg/L]	Target Pecent	0 [%]
Cond Sensor:	Installed	Target Value	0.1 [µS/cm]	Target Pecent	3 [%]
Turb Sensor:	Installed	Target Value	1 [NTU]	Target Pecent	10 [%]

Pump Model/Type:	DEDICATED
Tubing Type:	POLYETHYLENE
Tubing Diam:	0.17 [in]
Tubing Length:	40 [ft]
Well Depth:	42 [ft]
Well Diam:	2 [in]
Screen Len:	116.4 [in]
Screen Depth:	31.73 [ft]
Pump Inlet Depth:	0 [in]
Depth to Water:	24.49 [ft]
Pump Level (TOC):	32 [ft]

Final Pumping Rate:	400 [mL/min]
Stable Draw Down:	0.3 [ft]
Total Volume Formula:	Volume = cup (200 mL) + tubing (178.5 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)
Calculated Total Volume:	295.54 [mL]
Actual Total Volume:	295.54 [mL]
Calculated Measurement Interval:	45 [sec]
Actual Measurement Interval:	45 [sec]

Start date/time:	4/16/2007	10:43:05
End date/time:	4/16/2007	10:52:09
Total Time:	0:09:04	

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [mg/L]	Variance	RDO []	Variance	Cond [µS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	7.13	0.01	-48.9	-10.99	0.17	-0.02			768.99	-14.97	0.34	0.16	15.63	0.04	10:48:30
3	7.13	0.01	-57.15	-8.25	0.16	-0.01			765.83	-3.16	0.29	-0.05	15.63	0	10:49:15
2	7.14	0	-63.44	-6.29	0.16	0			765.58	-0.25	0.13	-0.16	15.7	0.07	10:50:02
1	7.14	0	-68.36	-4.92	0.15	-0.01			758.83	-6.75	0.17	0.04	15.72	0.01	10:50:48
0	7.14	0	-72.97	-4.62	0.14	-0.01			749.29	-9.54	-0.02	-0.18	15.71	-0.01	10:51:35

pH Min:	7.13
pH Max:	7.14
ORP Min:	-72.97
ORP Max:	-48.9
DO Min:	0.14
DO Max:	0.17
RDO Min:	
RDO Max:	
Cond Min:	749.29
Cond Max:	768.99
Turb Min:	-0.02
Turb Max:	0.34
Temp Min:	15.63
Temp Max:	15.72

Notes: TURBIDITY<10NTU

Device Record:

In-Situ Inc. Troll 9000 Pro XP

Report generated: 4/18/2007 14:02:17
Report from file: ...\HARTFORD QUARTERLY GROUNDWATER SAMPLING-07003-003095.17-001-HARTFORD WORKING GROUP-HMW-39C-4-16-2007.flo.bin
Win-Situ® Version 4.57.0.0

Serial number: 45406
Firmware Version 2
Unit name: MP Troll 9000

Test name: LowFlow

Test defined on: 4/16/2007 10:43:05
Test started on: 4/16/2007 10:43:05
Test stopped on: N/A N/A

Data gathered using Event testing
Time between data points: 0.0 Seconds.
Time between default storages: 0.0 Seconds.
Monitoring data on channel [1]
Data stored if delta value exceeds: 0 Celsius
Number of data samples: 12

TOTAL DATA SAMPLES 12

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [3]
Measurement type: Barometric Pressure
Channel name:

Channel number [4]
Measurement type: Turbidity
Channel name:

Channel number [5]
Measurement type: Battery Voltage
Channel name:

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen %Saturation
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temperature Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO milligrams/L	Chan[25] Clark DO Sat %Saturation	Chan[45] Conductivity microSiemens/cm Actual Conductivity
4/16/2007	10:43:05	0	15.35	29.68	0.3	2.889	57	6.97	1	10.0786	257.84
4/16/2007	10:43:51	46	15.32	29.679	0.4	2.889	51	6.97	0.57	5.7269	322.11
4/16/2007	10:44:37	92	15.32	29.678	0.3	2.863	38	7.01	0.38	3.8608	448.46
4/16/2007	10:45:24	139	15.38	29.678	0.1	2.889	22	7.03	0.28	2.8626	694.57
4/16/2007	10:46:10	185	15.5	29.676	0.3	2.889	-3	7.07	0.24	2.4007	778.74
4/16/2007	10:46:56	231	15.53	29.675	0.2	2.889	-24	7.1	0.21	2.1118	788.51
4/16/2007	10:47:42	277	15.59	29.673	0.2	2.889	-38	7.12	0.18	1.8632	783.96
4/16/2007	10:48:30	325	15.63	29.673	0.3	2.889	-49	7.13	0.17	1.6983	768.99
4/16/2007	10:49:15	370	15.63	29.671	0.3	2.889	-57	7.13	0.16	1.6185	765.83
4/16/2007	10:50:02	417	15.7	29.671	0.1	2.837	-63	7.14	0.16	1.6173	765.58
4/16/2007	10:50:48	463	15.72	29.67	0.2	2.889	-68	7.14	0.15	1.5367	758.83
4/16/2007	10:51:35	510	15.71	29.668	0	2.889	-73	7.14	0.14	1.4157	749.29

INSTRUCTIONS: This is the raw data export format from the Win-Situ® Low Flow Cell data file:Harttford Quarterly Groundwater Sampling - 07003-003095.17-001 -Hartford Working Group-HMW-40C-4-13-2007.flo To Generate a report Insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ® Installation. You may copy this template from the templates subfol

Operator Name:	N_Dennis					
Company Name:	BVNA					
Project Name:	Harttford Quaterly Groundwater Sampling - 07003-003095.17-001					
Site Name:	Hartford Working Group					
Well ID:	HMW-40C					
pH Sensor:	Installed	Target Value	0.1 [pH]	Target Pecent	0 [%]	
ORP Sensor:	Installed	Target Value	10 [mV]	Target Pecent	0 [%]	
DO Sensor:	Installed	Target Value	0.3 [mg/L]	Target Pecent	0 [%]	
Cond Sensor:	Installed	Target Value	0.1 [µS/cm]	Target Pecent	3 [%]	
Turb Sensor:	Installed	Target Value	1 [NTU]	Target Pecent	10 [%]	
Pump Model/Type:	10960					
Tubing Type:	Polyethylene					
Tubing Diam:	0.17 [in]					
Tubing Length:	39 [ft]					
Well Depth:	39 [ft]					
Well Diam:	2 [in]					
Screen Len:	176.4 [in]					
Screen Depth:	23.49 [ft]					
Pump Inlet Depth:	0 [in]					
Depth to Water:	24.68 [ft]					
Pump Level (TOC):	26.49 [ft]					
Final Pumping Rate:	440 [mL/min]					
Stable Draw Down:	0.08 [ft]					
Total Volume Formula:	Volume = cup (200 mL) + tubing (174.1 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)					
Calculated Total Volume:	291.07 [mL]					
Actual Total Volume:	291.07 [mL]					
Calculated Measurement Interval:	40 [sec]					
Actual Measurement Interval:	40 [sec]					
Start date/time:	4/13/2007	9:36:27				
End date/time:	4/13/2007	9:46:40				
Total Time:	0:10:13					

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [mg/L]	Variance	RDO []	Variance	Cond [µS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	6.21	-0.01	60.94	0.34	2.45	0.04			664.18	0.49	105.15	-57.3	15.19	0.03	9:43:18
3	6.24	0.02	58.46	-2.48	2.34	-0.11			664.96	0.78	98.93	-6.22	15.21	0.02	9:43:59
2	6.23	0	59.61	1.15	2.08	-0.26			662.05	-2.91	116.24	17.3	15.11	-0.1	9:44:40
1	6.21	-0.03	62.18	2.56	2.02	-0.06			663.7	1.65	118.96	2.72	15.18	0.07	9:45:22
0	6.22	0.01	61.45	-0.73	2.04	0.02			665.55	1.85	123.25	4.29	15.26	0.08	9:46:04

pH Min:	6.21
pH Max:	6.24
ORP Min:	58.46
ORP Max:	62.18
DO Min:	2.02
DO Max:	2.45
RDO Min:	
RDO Max:	
Cond Min:	662.05
Cond Max:	665.55
Turb Min:	98.93
Turb Max:	123.25
Temp Min:	15.11
Temp Max:	15.26

Notes:

Device Record:

In-Situ Inc.	Troll 9000 Pro XP
Report generated:	4/18/2007 14:32:59
Report from file:	...\Hartford Quaterly Groundwater Sampling - 07003-003095.17-001 -Hartford Working Group-HMW-40C-4-13-2007.flo.bin
Win-Situ® Version	4.57.0.0
Serial number:	45327
Firmware Version	2
Unit name:	MP Troll 9000
Test name:	LowFlow
Test defined on:	4/13/2007 9:36:27
Test started on:	4/13/2007 9:36:27
Test stopped on:	N/A N/A

Data gathered using Event testing

Time between data points:	0.0	Seconds.
Time between default storages:	0.0	Seconds.
Monitoring data on channel [1]		
Data stored if delta value exceeds:		0 Celsius
Number of data samples:		15

TOTAL DATA SAMPLES 15

Channel number [1]	
Measurement type:	Temperature
Channel name:	
Channel number [3]	
Measurement type:	Barometric Pressure
Channel name:	
Channel number [4]	
Measurement type:	Turbidity
Channel name:	
Channel number [5]	
Measurement type:	Battery Voltage
Channel name:	
Channel number [11]	
Measurement type:	ORP
Channel name:	
Channel number [12]	
Measurement type:	pH
Channel name:	
Channel number [25]	
Measurement type:	Dissolved Oxygen
Channel name:	

Channel number [25]
Measurement type: Dissolved Oxygen %Saturation
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temperature Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO milligrams/L	Chan[25] Clark DO Sat %Saturation	Chan[45] Conductivity microSiemens/cm Actual Conductivity
4/13/2007	9:36:27	0	14.98	29.821	318.5	2.863	54	6.31	4.02	40.0506	664.06
4/13/2007	9:37:07	40	12.73	29.82	282.6	2.863	60	6.3	2.87	27.2179	645.51
4/13/2007	9:37:48	81	14.73	29.818	326.2	2.889	67	6.2	1.65	16.3893	661.45
4/13/2007	9:38:31	124	15.02	29.818	307.6	2.889	60	6.28	1.54	15.3327	667
4/13/2007	9:39:11	164	15.1	29.817	328.5	2.889	58	6.29	1.58	15.8295	666.61
4/13/2007	9:39:53	206	15.11	29.817	327.6	2.837	57	6.28	1.66	16.5625	667.99
4/13/2007	9:40:33	246	15.05	29.816	385.2	2.889	59	6.25	1.76	17.5359	664.86
4/13/2007	9:41:16	289	15.14	29.816	150.1	2.889	60	6.24	1.76	17.647	662.14
4/13/2007	9:41:56	329	15.25	29.817	149.4	2.889	61	6.24	2.07	20.721	667.01
4/13/2007	9:42:37	370	15.16	29.817	162.5	2.889	61	6.22	2.41	24.1708	663.69
4/13/2007	9:43:18	411	15.19	29.817	105.2	2.889	61	6.21	2.45	24.5523	664.18
4/13/2007	9:43:59	452	15.21	29.816	98.9	2.889	58	6.24	2.34	23.4388	664.96
4/13/2007	9:44:40	493	15.11	29.815	116.2	2.889	60	6.23	2.08	20.8202	662.05
4/13/2007	9:45:22	535	15.18	29.815	119	2.889	62	6.21	2.02	20.2408	663.7
4/13/2007	9:46:04	577	15.26	29.815	123.3	2.863	61	6.22	2.04	20.4344	665.55

INSTRUCTIONS: This is the raw data export format from the Win-Situ® Low Flow Cell data file:Harttford Quarterly Groundwater Sampling - 07003-003095.17-001 -Hartford Working Group-HMW-49C-4-16-2007.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ® Installation. You may copy this template from the templates subfol

Operator Name:	N_Dennis
Company Name:	BVNA
Project Name:	Harttford Quaterly Groundwater Sampling - 07003-003095.17-001
Site Name:	Hartford Working Group
Well ID:	HMW-49C

pH Sensor:	Installed	Target Value	0.1 [pH]	Target Pecent	0	[%]
ORP Sensor:	Installed	Target Value	10 [mV]	Target Pecent	0	[%]
DO Sensor:	Installed	Target Value	0.3 [mg/L]	Target Pecent	0	[%]
Cond Sensor:	Installed	Target Value	0.1 [µS/cm]	Target Pecent	3	[%]
Turb Sensor:	Installed	Target Value	1 [NTU]	Target Pecent	10	[%]

Pump Model/Type:	10965
Tubing Type:	Polyethylene
Tubing Diam:	0.17 [in]
Tubing Length:	40 [ft]
Well Depth:	39.5 [ft]
Well Diam:	2 [in]
Screen Len:	111.6 [in]
Screen Depth:	29.59 [ft]
Pump Inlet Depth:	0 [in]
Depth to Water:	28.91 [ft]
Pump Level (TOC):	30.91 [ft]

Final Pumping Rate:	428 [mL/min]
Stable Draw Down:	0 [ft]
Total Volume Formula:	Volume = cup (200 mL) + tubing (178.5 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)
Calculated Total Volume:	295.54 [mL]
Actual Total Volume:	295.54 [mL]
Calculated Measurement Interval:	42 [sec]
Actual Measurement Interval:	42 [sec]

Start date/time:	4/16/2007	11:48:37
End date/time:	4/16/2007	11:51:16
Total Time:	0:02:39	

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [mg/L]	Variance	RDO []	Variance	Cond [µS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	0	0	0	0	0	0			0	0	0	0	0	0	0
3	6.1	6.1	-16.42	-16.42	0.31	0.31			709.83	709.83	57.29	57.29	17.7	17.7	11:48:37
2	6.07	-0.03	-10.82	5.6	0.23	-0.08			694.29	-15.54	48.39	-8.91	17.68	-0.02	11:49:21
1	6.05	-0.02	-7.31	3.51	0.22	-0.01			687.84	-6.45	48.68	0.29	17.65	-0.03	11:50:04
0	6.04	-0.01	-6.53	0.77	0.26	0.04			694.26	6.42	45.69	-2.99	17.56	-0.09	11:50:46

pH Min:	0
pH Max:	6.1
ORP Min:	-16.42
ORP Max:	0
DO Min:	0
DO Max:	0.31
RDO Min:	
RDO Max:	
Cond Min:	0
Cond Max:	709.83
Turb Min:	0
Turb Max:	57.29
Temp Min:	0
Temp Max:	17.7

Notes:

Device Record:

In-Situ Inc.	Troll 9000 Pro XP
Report generated:	4/18/2007 14:35:13
Report from file:	...\Harttford Quaterly Groundwater Sampling - 07003-003095.17-001 -Hartford Working Group-HMW-49C-4-16-2007.flo.bin
Win-Situ® Version	4.57.0.0
Serial number:	45327
Firmware Version	2
Unit name:	MP Troll 9000
Test name:	LowFlow
Test defined on:	4/16/2007 11:48:37
Test started on:	4/16/2007 11:48:37
Test stopped on:	N/A N/A

Data gathered using Event testing

Time between data points:	0.0	Seconds.
Time between default storages:	0.0	Seconds.
Monitoring data on channel [1]		
Data stored if delta value exceeds:	0	Celsius
Number of data samples:	4	

TOTAL DATA SAMPLES 4

Channel number [1]	
Measurement type:	Temperature
Channel name:	
Channel number [3]	
Measurement type:	Barometric Pressure
Channel name:	
Channel number [4]	
Measurement type:	Turbidity
Channel name:	
Channel number [5]	
Measurement type:	Battery Voltage
Channel name:	
Channel number [11]	
Measurement type:	ORP
Channel name:	
Channel number [12]	
Measurement type:	pH
Channel name:	
Channel number [25]	
Measurement type:	Dissolved Oxygen
Channel name:	

Channel number [25]
Measurement type: Dissolved Oxygen %Saturation
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temperature Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO milligrams/L	Chan[25] Clark DO Sat %Saturation	Chan[45] Conductivity microSiemens/cm Actual Conductivity
4/16/2007	11:48:37	0	17.7	29.676	57.3	2.811	-16	6.1	0.31	3.2824	709.83
4/16/2007	11:49:21	44	17.68	29.674	48.4	2.811	-11	6.07	0.23	2.4379	694.29
4/16/2007	11:50:04	87	17.65	29.672	48.7	2.837	-7	6.05	0.22	2.3561	687.84
4/16/2007	11:50:46	129	17.56	29.669	45.7	2.837	-7	6.04	0.26	2.7377	694.26

INSTRUCTIONS: This is the raw data export format from the Win-Situ® Low Flow Cell data file:Harttford Quarterly Groundwater Sampling - 07003-003095.17-001 -Hartford Working Group-HMW-49D-4-16-2007.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ® Installation. You may copy this template from the templates subfol

Operator Name:	N_Dennis
Company Name:	BVNA
Project Name:	Harttford Quaterly Groundwater Sampling - 07003-003095.17-001
Site Name:	Hartford Working Group
Well ID:	HMW-49D

pH Sensor:	Installed	Target Value	0.1 [pH]	Target Pecent	0	[%]
ORP Sensor:	Installed	Target Value	10 [mV]	Target Pecent	0	[%]
DO Sensor:	Installed	Target Value	0.3 [mg/L]	Target Pecent	0	[%]
Cond Sensor:	Installed	Target Value	0.1 [µS/cm]	Target Pecent	3	[%]
Turb Sensor:	Installed	Target Value	1 [NTU]	Target Pecent	10	[%]

Pump Model/Type:	10965
Tubing Type:	Polyethylene
Tubing Diam:	0.17 [in]
Tubing Length:	51 [ft]
Well Depth:	51 [ft]
Well Diam:	2 [in]
Screen Len:	115.2 [in]
Screen Depth:	40.72 [ft]
Pump Inlet Depth:	0 [in]
Depth to Water:	30.5 [ft]
Pump Level (TOC):	40.72 [ft]

Final Pumping Rate:	384 [mL/min]
Stable Draw Down:	0 [ft]
Total Volume Formula:	Volume = cup (200 mL) + tubing (227.6 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)
Calculated Total Volume:	344.64 [mL]
Actual Total Volume:	344.64 [mL]
Calculated Measurement Interval:	54 [sec]
Actual Measurement Interval:	54 [sec]

Start date/time:	4/16/2007	8:41:23
End date/time:	4/16/2007	8:50:10
Total Time:	0:08:47	

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [mg/L]	Variance	RDO []	Variance	Cond [µS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	6.36	0	-102.24	-0.09	1.05	0.22			983.35	-2.09	146.2	56.11	16.35	0.11	8:46:01
3	6.36	-0.01	-102.12	0.13	1.28	0.23			985.9	2.55	155.03	8.83	16.22	-0.13	8:46:56
2	6.36	0	-102.59	-0.47	1.41	0.14			985.49	-0.41	161.51	6.48	16.23	0.02	8:47:53
1	6.36	0	-102.59	0	1.61	0.19			987.62	2.13	157.66	-3.85	16.22	-0.01	8:48:49
0	6.35	0	-102.46	0.13	1.69	0.08			984.68	-2.94	157.85	0.19	16.16	-0.06	8:49:44

pH Min:	6.35
pH Max:	6.36
ORP Min:	-102.59
ORP Max:	-102.12
DO Min:	1.05
DO Max:	1.69
RDO Min:	
RDO Max:	
Cond Min:	983.35
Cond Max:	987.62
Turb Min:	146.2
Turb Max:	161.51
Temp Min:	16.16
Temp Max:	16.35

Notes:

Device Record:

In-Situ Inc.	Troll 9000 Pro XP
Report generated:	4/18/2007 14:36:44
Report from file:	...\Harttford Quaterly Groundwater Sampling - 07003-003095.17-001 -Hartford Working Group-HMW-49D-4-16-2007.flo.bin
Win-Situ® Version	4.57.0.0
Serial number:	45327
Firmware Version	2
Unit name:	MP Troll 9000
Test name:	LowFlow
Test defined on:	4/16/2007 8:41:23
Test started on:	4/16/2007 8:41:23
Test stopped on:	N/A N/A

Data gathered using Event testing

Time between data points:	0.0	Seconds.
Time between default storages:	0.0	Seconds.
Monitoring data on channel [1]		
Data stored if delta value exceeds:	0	Celsius
Number of data samples:	10	

TOTAL DATA SAMPLES 10

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [3]
Measurement type: Barometric Pressure
Channel name:

Channel number [4]
Measurement type: Turbidity
Channel name:

Channel number [5]
Measurement type: Battery Voltage
Channel name:

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen %Saturation
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temperature Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO milligrams/L	Chan[25] Clark DO Sat %Saturation	Chan[45] Conductivity microSiemens/cm Actual Conductivity
4/16/2007	8:41:23	0	16.49	29.663	64.5	2.837	-104	6.42	1.38	14.3001	893.86
4/16/2007	8:42:18	55	16.34	29.662	104.8	2.811	-104	6.39	0.89	9.1516	939.31
4/16/2007	8:43:14	111	16.35	29.662	87.9	2.837	-103	6.38	0.53	5.443	960.91
4/16/2007	8:44:10	167	16.34	29.661	61.8	2.837	-103	6.37	0.62	6.4133	974.77
4/16/2007	8:45:05	222	16.24	29.662	90.1	2.811	-102	6.37	0.84	8.61	985.44
4/16/2007	8:46:01	278	16.35	29.661	146.2	2.837	-102	6.36	1.05	10.8647	983.35
4/16/2007	8:46:56	333	16.22	29.659	155	2.837	-102	6.36	1.28	13.1672	985.9
4/16/2007	8:47:53	390	16.23	29.659	161.5	2.811	-103	6.36	1.41	14.5697	985.49
4/16/2007	8:48:49	446	16.22	29.659	157.7	2.837	-103	6.36	1.61	16.5495	987.62
4/16/2007	8:49:44	501	16.16	29.658	157.8	2.811	-102	6.35	1.69	17.3531	984.68

INSTRUCTIONS: This is the raw data export format from the Win-Situ® Low Flow Cell data file:Harttford Quarterly Groundwater Sampling - 07003-003095.17-001 -Hartford Working Group-HMW-50A-4-13-2007.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ® Installation. You may copy this template from the templates subfol

Operator Name:	N_Dennis					
Company Name:	BVNA					
Project Name:	Harttford Quaterly Groundwater Sampling - 07003-003095.17-001					
Site Name:	Hartford Working Group					
Well ID:	HMW-50A					
pH Sensor:	Installed	Target Value	0.1 [pH]	Target Pecent	0 [%]	
ORP Sensor:	Installed	Target Value	10 [mV]	Target Pecent	0 [%]	
DO Sensor:	Installed	Target Value	0.3 [mg/L]	Target Pecent	0 [%]	
Cond Sensor:	Installed	Target Value	0.1 [µS/cm]	Target Pecent	3 [%]	
Turb Sensor:	Installed	Target Value	1 [NTU]	Target Pecent	10 [%]	
Pump Model/Type:	10960					
Tubing Type:	Polyethylene					
Tubing Diam:	0.17 [in]					
Tubing Length:	30 [ft]					
Well Depth:	29.88 [ft]					
Well Diam:	2 [in]					
Screen Len:	111.6 [in]					
Screen Depth:	20.14 [ft]					
Pump Inlet Depth:	0 [in]					
Depth to Water:	13.34 [ft]					
Pump Level (TOC):	20.14 [ft]					
Final Pumping Rate:	468 [mL/min]					
Stable Draw Down:	0 [ft]					
Total Volume Formula:	Volume = cup (200 mL) + tubing (133.9 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)					
Calculated Total Volume:	250.9 [mL]					
Actual Total Volume:	250.9 [mL]					
Calculated Measurement Interval:	33 [sec]					
Actual Measurement Interval:	33 [sec]					
Start date/time:	4/13/2007	11:47:56				
End date/time:	4/13/2007	11:54:10				
Total Time:	0:06:14					

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [mg/L]	Variance	RDO []	Variance	Cond [µS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	6.67	0	211.44	-0.13	0.55	-0.04			955.6	-26.08	300.5	-53.33	14.49	0.08	11:51:53
3	6.66	-0.01	212.12	0.68	0.54	-0.01			976.62	21.02	352.01	51.52	14.37	-0.12	11:52:27
2	6.66	0	212.03	-0.09	0.5	-0.04			978.94	2.33	341.77	-10.24	14.36	-0.01	11:53:01
1	6.66	0	212.12	0.08	0.48	-0.02			980.43	1.49	334.07	-7.7	14.42	0.06	11:53:35
0	6.65	0	212.2	0.08	0.45	-0.02			984.05	3.62	316.16	-17.91	14.45	0.03	11:54:09

pH Min:	6.65
pH Max:	6.67
ORP Min:	211.44
ORP Max:	212.2
DO Min:	0.45
DO Max:	0.55
RDO Min:	
RDO Max:	
Cond Min:	955.6
Cond Max:	984.05
Turb Min:	300.5
Turb Max:	352.01
Temp Min:	14.36
Temp Max:	14.49

Notes:

Device Record:

In-Situ Inc.	Troll 9000 Pro XP
Report generated:	4/18/2007 14:38:26
Report from file:	...\Harttford Quaterly Groundwater Sampling - 07003-003095.17-001 -Hartford Working Group-HMW-50A-4-13-2007.flo.bin
Win-Situ® Version	4.57.0.0
Serial number:	45327
Firmware Version	2
Unit name:	MP Troll 9000
Test name:	LowFlow
Test defined on:	4/13/2007 11:47:56
Test started on:	4/13/2007 11:47:56
Test stopped on:	N/A N/A

Data gathered using Event testing

Time between data points:	0.0	Seconds.
Time between default storages:	0.0	Seconds.
Monitoring data on channel [1]		
Data stored if delta value exceeds:		0 Celsius
Number of data samples:		12

TOTAL DATA SAMPLES 12

Channel number [1]	
Measurement type:	Temperature
Channel name:	
Channel number [3]	
Measurement type:	Barometric Pressure
Channel name:	
Channel number [4]	
Measurement type:	Turbidity
Channel name:	
Channel number [5]	
Measurement type:	Battery Voltage
Channel name:	
Channel number [11]	
Measurement type:	ORP
Channel name:	
Channel number [12]	
Measurement type:	pH
Channel name:	
Channel number [25]	
Measurement type:	Dissolved Oxygen
Channel name:	

Channel number [25]
Measurement type: Dissolved Oxygen %Saturation
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temperature Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO milligrams/L	Chan[25] Clark DO Sat %Saturation	Chan[45] Conductivity microSiemens/cm Actual Conductivity
4/13/2007	11:47:56	0	14.21	29.772	386.5	2.863	213	6.68	1.26	12.3641	984.84
4/13/2007	11:48:30	34	14.29	29.772	380.2	2.889	212	6.68	1.01	9.9329	986.57
4/13/2007	11:49:04	68	14.33	29.771	337.8	2.863	211	6.68	0.9	8.8282	958.2
4/13/2007	11:49:38	102	14.26	29.77	407.6	2.863	212	6.67	0.8	7.8393	980.39
4/13/2007	11:50:12	136	14.32	29.77	385.5	2.863	212	6.67	0.72	7.1095	980.4
4/13/2007	11:50:46	170	14.34	29.769	389.4	2.889	212	6.66	0.64	6.3512	978.71
4/13/2007	11:51:20	204	14.41	29.769	353.8	2.889	212	6.66	0.59	5.8357	981.68
4/13/2007	11:51:53	237	14.49	29.769	300.5	2.889	211	6.67	0.55	5.4032	955.6
4/13/2007	11:52:27	271	14.37	29.767	352	2.863	212	6.66	0.54	5.3012	976.62
4/13/2007	11:53:01	305	14.36	29.767	341.8	2.889	212	6.66	0.5	4.9264	978.94
4/13/2007	11:53:35	339	14.42	29.765	334.1	2.889	212	6.66	0.48	4.709	980.43
4/13/2007	11:54:09	373	14.45	29.765	316.2	2.889	212	6.65	0.45	4.4969	984.05

INSTRUCTIONS: This is the raw data export format from the Win-Situ® Low Flow Cell data file:Harttford Quarterly Groundwater Sampling - 07003-003095.17-001 -Hartford Working Group-HMW-50C-4-16-2007.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ® Installation. You may copy this template from the templates subfol

Operator Name:	N_Dennis
Company Name:	BVNA
Project Name:	Harttford Quaterly Groundwater Sampling - 07003-003095.17-001
Site Name:	Hartford Working Group
Well ID:	HMW-50C

pH Sensor:	Installed	Target Value	0.1 [pH]	Target Pecent	0 [%]
ORP Sensor:	Installed	Target Value	10 [mV]	Target Pecent	0 [%]
DO Sensor:	Installed	Target Value	0.3 [mg/L]	Target Pecent	0 [%]
Cond Sensor:	Installed	Target Value	0.1 [µS/cm]	Target Pecent	3 [%]
Turb Sensor:	Installed	Target Value	1 [NTU]	Target Pecent	10 [%]

Pump Model/Type:	10965
Tubing Type:	Polyethylene
Tubing Diam:	0.17 [in]
Tubing Length:	63 [ft]
Well Depth:	59.5 [ft]
Well Diam:	2 [in]
Screen Len:	115.2 [in]
Screen Depth:	47.88 [ft]
Pump Inlet Depth:	0 [in]
Depth to Water:	35.56 [ft]
Pump Level (TOC):	47.88 [ft]

Final Pumping Rate:	444 [mL/min]
Stable Draw Down:	0 [ft]
Total Volume Formula:	Volume = cup (200 mL) + tubing (281.2 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)
Calculated Total Volume:	398.2 [mL]
Actual Total Volume:	398.2 [mL]
Calculated Measurement Interval:	54 [sec]
Actual Measurement Interval:	54 [sec]

Start date/time:	4/16/2007	10:09:17
End date/time:	4/16/2007	10:17:10
Total Time:	0:07:53	

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [mg/L]	Variance	RDO []	Variance	Cond [µS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	6.64	-0.02	-94.59	1.28	0.33	-0.09			2083.21	41.56	50.44	16.56	15.39	-0.12	10:12:59
3	6.63	-0.01	-94.59	0	0.26	-0.07			2110.89	27.69	56.66	6.22	15.43	0.04	10:13:56
2	6.62	-0.01	-94.42	0.17	0.24	-0.02			2108.95	-1.94	58.8	2.13	15.42	-0.01	10:14:50
1	6.61	-0.01	-93.69	0.73	0.22	-0.02			2117.67	8.72	64.79	6	15.39	-0.03	10:15:47
0	6.61	0	-94.03	-0.34	0.2	-0.01			2119.61	1.94	60.77	-4.02	15.5	0.11	10:16:43

pH Min:	6.61
pH Max:	6.64
ORP Min:	-94.59
ORP Max:	-93.69
DO Min:	0.2
DO Max:	0.33
RDO Min:	
RDO Max:	
Cond Min:	2083.21
Cond Max:	2119.61
Turb Min:	50.44
Turb Max:	64.79
Temp Min:	15.39
Temp Max:	15.5

Notes:

Device Record:

In-Situ Inc.	Troll 9000 Pro XP
Report generated:	4/18/2007 14:40:22
Report from file:	...\Harttford Quaterly Groundwater Sampling - 07003-003095.17-001 -Hartford Working Group-HMW-50C-4-16-2007.flo.bin
Win-Situ® Version	4.57.0.0
Serial number:	45327
Firmware Version	2
Unit name:	MP Troll 9000
Test name:	LowFlow
Test defined on:	4/16/2007 10:09:17
Test started on:	4/16/2007 10:09:17
Test stopped on:	N/A N/A

Data gathered using Event testing

Time between data points:	0.0	Seconds.
Time between default storages:	0.0	Seconds.
Monitoring data on channel [1]		
Data stored if delta value exceeds:		0 Celsius
Number of data samples:		9

TOTAL DATA SAMPLES 9

Channel number [1]	
Measurement type:	Temperature
Channel name:	
Channel number [3]	
Measurement type:	Barometric Pressure
Channel name:	
Channel number [4]	
Measurement type:	Turbidity
Channel name:	
Channel number [5]	
Measurement type:	Battery Voltage
Channel name:	
Channel number [11]	
Measurement type:	ORP
Channel name:	
Channel number [12]	
Measurement type:	pH
Channel name:	
Channel number [25]	
Measurement type:	Dissolved Oxygen
Channel name:	

Channel number [25]
Measurement type: Dissolved Oxygen %Saturation
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temperature Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO milligrams/L	Chan[25] Clark DO Sat %Saturation	Chan[45] Conductivity microSiemens/cm Actual Conductivity
4/16/2007	10:09:17	0	16.01	29.677	13	2.837	-94	6.72	1.56	16.0621	1900.08
4/16/2007	10:10:13	56	15.63	29.679	15.1	2.837	-95	6.67	0.84	8.5911	2021.03
4/16/2007	10:11:09	112	15.56	29.678	20.2	2.837	-97	6.68	0.54	5.5241	2030.85
4/16/2007	10:12:04	167	15.51	29.677	33.9	2.837	-96	6.66	0.42	4.2539	2041.65
4/16/2007	10:12:59	222	15.39	29.675	50.4	2.837	-95	6.64	0.33	3.359	2083.21
4/16/2007	10:13:56	279	15.43	29.674	56.7	2.811	-95	6.63	0.26	2.6918	2110.89
4/16/2007	10:14:50	333	15.42	29.673	58.8	2.811	-94	6.62	0.24	2.4437	2108.95
4/16/2007	10:15:47	390	15.39	29.672	64.8	2.837	-94	6.61	0.22	2.1966	2117.67
4/16/2007	10:16:43	446	15.5	29.672	60.8	2.837	-94	6.61	0.2	2.0638	2119.61

INSTRUCTIONS: This is the raw data export format from the Win-Situ® Low Flow Cell data file:Harttford Quarterly Groundwater Sampling - 07003-003095.17-001 -Hartford Working Group-HMW-52C-4-13-2007.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ® Installation. You may copy this template from the templates subfol

Operator Name:	J_Cyvas
Company Name:	BVNA
Project Name:	Harttford Quaterly Groundwater Sampling - 07003-003095.17-001
Site Name:	Hartford Working Group
Well ID:	HMW-52C

pH Sensor:	Installed	Target Value	0.1 [pH]	Target Pecent	0 [%]
ORP Sensor:	Installed	Target Value	10 [mV]	Target Pecent	0 [%]
DO Sensor:	Installed	Target Value	0.3 [mg/L]	Target Pecent	0 [%]
Cond Sensor:	Installed	Target Value	0.1 [µS/cm]	Target Pecent	3 [%]
Turb Sensor:	Installed	Target Value	1 [NTU]	Target Pecent	10 [%]

Pump Model/Type:	10960
Tubing Type:	Polyethylene
Tubing Diam:	0.17 [in]
Tubing Length:	41 [ft]
Well Depth:	40 [ft]
Well Diam:	2 [in]
Screen Len:	175.2 [in]
Screen Depth:	24.62 [ft]
Pump Inlet Depth:	0 [in]
Depth to Water:	28.65 [ft]
Pump Level (TOC):	30.65 [ft]

Final Pumping Rate:	384 [mL/min]
Stable Draw Down:	0 [ft]
Total Volume Formula:	Volume = cup (200 mL) + tubing (183.0 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)
Calculated Total Volume:	300 [mL]
Actual Total Volume:	300 [mL]
Calculated Measurement Interval:	47 [sec]
Actual Measurement Interval:	47 [sec]

Start date/time:	4/13/2007	12:45:55
End date/time:	4/13/2007	12:52:54
Total Time:	0:06:59	

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [mg/L]	Variance	RDO []	Variance	Cond [µS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	6.58	0	-84.86	-3.03	0.18	-0.01			1289.44	1.08	992.57	78.82	15.77	0.02	12:49:09
3	6.58	0	-86.96	-2.09	0.21	0.03			1288.69	-0.75	865.69	-126.88	15.76	-0.01	12:49:57
2	6.58	0	-88.96	-2.01	0.25	0.04			1288.31	-0.38	756.77	-108.91	15.78	0.02	12:50:46
1	6.58	0	-90.8	-1.84	0.31	0.06			1288.66	0.35	762.29	5.52	15.8	0.02	12:51:34
0	6.58	0	-92.6	-1.79	0.36	0.04			1259.99	-28.68	725.07	-37.23	15.76	-0.03	12:52:22

pH Min:	6.58
pH Max:	6.58
ORP Min:	-92.6
ORP Max:	-84.86
DO Min:	0.18
DO Max:	0.36
RDO Min:	
RDO Max:	
Cond Min:	1259.99
Cond Max:	1289.44
Turb Min:	725.07
Turb Max:	992.57
Temp Min:	15.76
Temp Max:	15.8

Notes:

Device Record:

In-Situ Inc.	Troll 9000 Pro XP
Report generated:	4/18/2007 14:42:17
Report from file:	...\Harttford Quaterly Groundwater Sampling - 07003-003095.17-001 -Hartford Working Group-HMW-52C-4-13-2007.flo.bin
Win-Situ® Version	4.57.0.0
Serial number:	45327
Firmware Version	2
Unit name:	MP Troll 9000
Test name:	LowFlow
Test defined on:	4/13/2007 12:45:55
Test started on:	4/13/2007 12:45:55
Test stopped on:	N/A N/A

Data gathered using Event testing

Time between data points:	0.0	Seconds.
Time between default storages:	0.0	Seconds.
Monitoring data on channel [1]		
Data stored if delta value exceeds:		0 Celsius
Number of data samples:		9

TOTAL DATA SAMPLES 9

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [3]
Measurement type: Barometric Pressure
Channel name:

Channel number [4]
Measurement type: Turbidity
Channel name:

Channel number [5]
Measurement type: Battery Voltage
Channel name:

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen %Saturation
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temperature Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO milligrams/L	Chan[25] Clark DO Sat %Saturation	Chan[45] Conductivity microSiemens/cm Actual Conductivity
4/13/2007	12:45:55	0	15.87	29.79	415.9	2.837	-72	6.57	0.28	2.8213	1292.82
4/13/2007	12:46:44	49	15.85	29.789	559.5	2.863	-76	6.58	0.25	2.499	1259.04
4/13/2007	12:47:31	96	15.74	29.786	691.2	2.837	-79	6.58	0.22	2.2645	1288.74
4/13/2007	12:48:20	145	15.76	29.785	913.7	2.863	-82	6.58	0.19	1.9783	1288.36
4/13/2007	12:49:09	194	15.77	29.783	992.6	2.863	-85	6.58	0.18	1.8531	1289.44
4/13/2007	12:49:57	242	15.76	29.78	865.7	2.889	-87	6.58	0.21	2.1718	1288.69
4/13/2007	12:50:46	291	15.78	29.779	756.8	2.863	-89	6.58	0.25	2.5685	1288.31
4/13/2007	12:51:34	339	15.8	29.777	762.3	2.863	-91	6.58	0.31	3.2061	1288.66
4/13/2007	12:52:22	387	15.76	29.776	725.1	2.889	-93	6.58	0.36	3.6488	1259.99

INSTRUCTIONS: This is the raw data export format from the Win-Situ® Low Flow Cell data file:HARTFORD QUARTERLY GROUNDWATER SAMPLING-07003-003095.17-001-HARTFORD WORKING GROUP-HMW-81C-4-16-2007.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ® Installation. You may copy this template from the templates subfolde

Operator Name:	T_GRISEL					
Company Name:	BVNA					
Project Name:	HARTFORD QUARTERLY GROUNDWATER SAMPLING-07003-003095.17-001					
Site Name:	HARTFORD WORKING GROUP					
Well ID:	MP-81C					
pH Sensor:	Installed	Target Value	0.1 [pH]	Target Pecent	0 [%]	
ORP Sensor:	Installed	Target Value	10 [mV]	Target Pecent	0 [%]	
DO Sensor:	Installed	Target Value	0.3 [mg/L]	Target Pecent	0 [%]	
Cond Sensor:	Installed	Target Value	0.1 [µS/cm]	Target Pecent	3 [%]	
Turb Sensor:	Installed	Target Value	1 [NTU]	Target Pecent	10 [%]	
Pump Model/Type:	10960					
Tubing Type:	POLYETHYLENE					
Tubing Diam:	0.17 [in]					
Tubing Length:	31.8 [ft]					
Well Depth:	32 [ft]					
Well Diam:	2 [in]					
Screen Len:	177.6 [in]					
Screen Depth:	17.15 [ft]					
Pump Inlet Depth:	0 [in]					
Depth to Water:	24.35 [ft]					
Pump Level (TOC):	26.35 [ft]					
Final Pumping Rate:	360 [mL/min]					
Stable Draw Down:	0.3 [ft]					
Total Volume Formula:	Volume = cup (200 mL) + tubing (141.9 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)					
Calculated Total Volume:	258.94 [mL]					
Actual Total Volume:	258.94 [mL]					
Calculated Measurement Interval:	44 [sec]					
Actual Measurement Interval:	44 [sec]					
Start date/time:	4/16/2007	12:58:11				
End date/time:	4/16/2007	13:12:21				
Total Time:	0:14:10					

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [mg/L]	Variance	RDO []	Variance	Cond [µS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	6.55	0	-83.9	0.68	4.61	-1.43			1081.83	-4.48	0.4	0.17	16.21	0.05	13:08:45
3	6.56	0.01	-83.6	0.3	1.13	-3.47			1077.9	-3.93	0.31	-0.09	16.15	-0.06	13:09:31
2	6.56	0	-83.04	0.56	0.57	-0.56			1075.81	-2.09	0.19	-0.12	16.08	-0.07	13:10:17
1	6.57	0.01	-80.69	2.35	0.4	-0.18			1073.21	-2.6	0.26	0.08	16.11	0.02	13:11:02
0	6.57	0.01	-80.18	0.51	0.31	-0.08			1072.68	-0.53	0.25	-0.01	16.11	0.01	13:11:47

pH Min:	6.55
pH Max:	6.57
ORP Min:	-83.9
ORP Max:	-80.18
DO Min:	0.31
DO Max:	4.61
RDO Min:	
RDO Max:	
Cond Min:	1072.68
Cond Max:	1081.83
Turb Min:	0.19
Turb Max:	0.4
Temp Min:	16.08
Temp Max:	16.21

Notes:	TURBIDITY<10NTU
Device Record:	
In-Situ Inc.	Troll 9000 Pro XP
Report generated:	4/18/2007 14:17:27
Report from file:	...\HARTFORD QUARTERLY GROUNDWATER SAMPLING-07003-003095.17-001-HARTFORD WORKING GROUP-HMW-81C-4-16-2007.flo.bin
Win-Situ® Version	4.57.0.0
Serial number:	45406
Firmware Version	2
Unit name:	MP Troll 9000
Test name:	LowFlow
Test defined on:	4/16/2007 12:58:11
Test started on:	4/16/2007 12:58:11
Test stopped on:	N/A N/A
Data gathered using Event testing	
Time between data points: 0.0	Seconds.
Time between default storages: 0.0	Seconds.
Monitoring data on channel [1]	
Data stored if delta value exceeds:	0 Celsius
Number of data samples:	19
TOTAL DATA SAMPLES	19
Channel number [1]	
Measurement type:	Temperature
Channel name:	
Channel number [3]	
Measurement type:	Barometric Pressure
Channel name:	
Channel number [4]	
Measurement type:	Turbidity
Channel name:	
Channel number [5]	
Measurement type:	Battery Voltage
Channel name:	
Channel number [11]	
Measurement type:	ORP
Channel name:	
Channel number [12]	
Measurement type:	pH
Channel name:	
Channel number [25]	
Measurement type:	Dissolved Oxygen
Channel name:	

Channel number [25]
Measurement type: Dissolved Oxygen %Saturation
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temperature Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO milligrams/L	Chan[25] Clark DO Sat %Saturation	Chan[45] Conductivity microSiemens/cm Actual Conductivity
4/16/2007	12:58:11	0	16.56	29.647	0.3	2.915	-14	6.29	8.52	88.4606	1097
4/16/2007	12:58:56	45	16.44	29.643	0.4	2.837	-18	6.33	8.83	91.5226	1092.42
4/16/2007	12:59:41	90	16.34	29.641	1.4	2.915	-26	6.36	7.94	82.0788	1090
4/16/2007	13:00:26	135	16.36	29.64	0.7	2.863	-37	6.4	8.9	92.1354	1093.71
4/16/2007	13:01:12	181	16.29	29.638	0.3	2.889	-52	6.43	8.2	84.7646	1091.82
4/16/2007	13:01:57	226	16.28	29.636	0.4	2.889	-67	6.45	5.13	53.0564	1093.67
4/16/2007	13:02:42	271	16.23	29.634	0.5	2.889	-75	6.47	5.45	56.2769	1092.04
4/16/2007	13:03:29	318	16.24	29.631	0.4	2.863	-79	6.49	6.34	65.5039	1092.29
4/16/2007	13:04:14	363	16.23	29.628	0.3	2.915	-81	6.5	5.25	54.248	1090.4
4/16/2007	13:04:59	408	16.16	29.627	0.6	2.915	-82	6.51	5.28	54.4849	1089.05
4/16/2007	13:05:44	453	16.17	29.626	0.5	2.837	-84	6.53	2.15	22.1421	1088.23
4/16/2007	13:06:30	499	16.12	29.624	0.5	2.915	-85	6.54	4.94	50.8582	1085.56
4/16/2007	13:07:15	544	16.15	29.624	0.5	2.915	-85	6.54	7.17	73.8864	1085.28
4/16/2007	13:08:00	589	16.17	29.622	0.2	2.915	-85	6.55	6.04	62.2844	1086.32
4/16/2007	13:08:45	634	16.21	29.62	0.4	2.915	-84	6.55	4.61	47.5666	1081.83
4/16/2007	13:09:31	680	16.15	29.617	0.3	2.915	-84	6.56	1.13	11.689	1077.9
4/16/2007	13:10:17	726	16.08	29.616	0.2	2.889	-83	6.56	0.57	5.8805	1075.81
4/16/2007	13:11:02	771	16.11	29.617	0.3	2.889	-81	6.57	0.4	4.0797	1073.21
4/16/2007	13:11:47	816	16.11	29.616	0.3	2.915	-80	6.57	0.31	3.2208	1072.68

INSTRUCTIONS: This is the raw data export format from the Win-Situ® Low Flow Cell data file:HARTFORD QUARTERLY GROUNDWATER SAMPLING-07003-003095.17-001-HARTFORD WORKING GROUP-MP-89C-4-16-2007.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ® Installation. You may copy this template from the templates subfolder

Operator Name:	T_GRISEL
Company Name:	BVNA
Project Name:	HARTFORD QUARTERLY GROUNDWATER SAMPLING-07003-003095.17-001
Site Name:	HARTFORD WORKING GROUP
Well ID:	MP-89C

pH Sensor:	Installed	Target Value	0.1 [pH]	Target Pecent	0	[%]
ORP Sensor:	Installed	Target Value	10 [mV]	Target Pecent	0	[%]
DO Sensor:	Installed	Target Value	0.3 [mg/L]	Target Pecent	0	[%]
Cond Sensor:	Installed	Target Value	0.1 [µS/cm]	Target Pecent	3	[%]
Turb Sensor:	Installed	Target Value	1 [NTU]	Target Pecent	10	[%]

Pump Model/Type:	10960
Tubing Type:	POLYETHYLENE
Tubing Diam:	0.17 [in]
Tubing Length:	39 [ft]
Well Depth:	38 [ft]
Well Diam:	2 [in]
Screen Len:	180 [in]
Screen Depth:	23 [ft]
Pump Inlet Depth:	0 [in]
Depth to Water:	28.92 [ft]
Pump Level (TOC):	31 [ft]
Final Pumping Rate:	368 [mL/min]
Stable Draw Down:	0.3 [ft]
Total Volume Formula:	Volume = cup (200 mL) + tubing (174.1 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)
Calculated Total Volume:	291.07 [mL]
Actual Total Volume:	291.07 [mL]
Calculated Measurement Interval:	48 [sec]
Actual Measurement Interval:	48 [sec]
Start date/time:	4/16/2007 14:37:07
End date/time:	4/16/2007 14:41:53
Total Time:	0:04:46

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [mg/L]	Variance	RDO []	Variance	Cond [µS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	4.52	0.67	-82.49	5.64	2	-1.63			1434.93	15.46	0.01	-22.22	19.55	0.8	14:37:57
3	4.66	0.14	-81.64	0.86	1.41	-0.6			1427.54	-7.39	-0.03	-0.05	19.39	-0.16	14:38:45
2	4.69	0.03	-81.51	0.13	1.13	-0.28			1418.87	-8.67	0.06	0.09	19.09	-0.3	14:39:35
1	4.73	0.04	-82.02	-0.51	1.07	-0.06			1421.52	2.65	0.11	0.05	19.02	-0.07	14:40:25
0	4.75	0.01	-81.59	0.43	0.87	-0.2			1419.2	-2.32	0.11	0.01	18.85	-0.17	14:41:14

pH Min:	4.52
pH Max:	4.75
ORP Min:	-82.49
ORP Max:	-81.51
DO Min:	0.87
DO Max:	2
RDO Min:	
RDO Max:	
Cond Min:	1418.87
Cond Max:	1434.93
Turb Min:	-0.03
Turb Max:	0.11
Temp Min:	18.85
Temp Max:	19.55

Notes: TURBIDITY<10NTU

Device Record:

In-Situ Inc. Troll 9000 Pro XP

Report generated: 4/18/2007 14:21:41
Report from file: ...\HARTFORD QUARTERLY GROUNDWATER SAMPLING-07003-003095.17-001-HARTFORD WORKING GROUP-MP-89C-4-16-2007.flo.bin
Win-Situ® Version 4.57.0.0

Serial number: 45406
Firmware Version 2
Unit name: MP Troll 9000

Test name: LowFlow

Test defined on: 4/16/2007 14:37:07
Test started on: 4/16/2007 14:37:07
Test stopped on: N/A N/A

Data gathered using Event testing
Time between data points: 0.0 Seconds.
Time between default storages: 0.0 Seconds.
Monitoring data on channel [1]
Data stored if delta value exceeds: 0 Celsius
Number of data samples: 6

TOTAL DATA SAMPLES 6

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [3]
Measurement type: Barometric Pressure
Channel name:

Channel number [4]
Measurement type: Turbidity
Channel name:

Channel number [5]
Measurement type: Battery Voltage
Channel name:

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen %Saturation
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temperature Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO milligrams/L	Chan[25] Clark DO Sat %Saturation	Chan[45] Conductivity microSiemens/cm Actual Conductivity
4/16/2007	14:37:07	0	18.75	29.606	22.2	2.863	-88	3.85	3.64	39.6431	1419.46
4/16/2007	14:37:57	50	19.55	29.607	0	2.811	-82	4.52	2	22.1953	1434.93
4/16/2007	14:38:45	98	19.39	29.606	0	2.811	-82	4.66	1.41	15.5259	1427.54
4/16/2007	14:39:35	148	19.09	29.605	0.1	2.889	-82	4.69	1.13	12.3689	1418.87
4/16/2007	14:40:25	198	19.02	29.604	0.1	2.889	-82	4.73	1.07	11.6908	1421.52
4/16/2007	14:41:14	247	18.85	29.603	0.1	2.863	-82	4.75	0.87	9.4893	1419.2

INSTRUCTIONS: This is the raw data export format from the Win-Situ® Low Flow Cell data file:HARTFORD QUARTERLY GROUNDWATER SAMPLING-07003-003095.17-001-HARTFORD WORKING GROUP-MP-92D-4-16-2007.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ® Installation. You may copy this template from the templates subfolder

Operator Name:	T_GRISEL
Company Name:	BVNA
Project Name:	HARTFORD QUARTERLY GROUNDWATER SAMPLING-07003-003095.17-001
Site Name:	HARTFORD WORKING GROUP
Well ID:	MP-92D

pH Sensor:	Installed	Target Value	0.1 [pH]	Target Pecent	0 [%]
ORP Sensor:	Installed	Target Value	10 [mV]	Target Pecent	0 [%]
DO Sensor:	Installed	Target Value	0.3 [mg/L]	Target Pecent	0 [%]
Cond Sensor:	Installed	Target Value	0.1 [µS/cm]	Target Pecent	3 [%]
Turb Sensor:	Installed	Target Value	1 [NTU]	Target Pecent	10 [%]

Pump Model/Type:	10960
Tubing Type:	POLYETHYLENE
Tubing Diam:	0.17 [in]
Tubing Length:	35.8 [ft]
Well Depth:	37.8 [ft]
Well Diam:	2 [in]
Screen Len:	174 [in]
Screen Depth:	22.7 [ft]
Pump Inlet Depth:	0 [in]
Depth to Water:	26.69 [ft]
Pump Level (TOC):	28.69 [ft]

Final Pumping Rate:	368 [mL/min]
Stable Draw Down:	0.3 [ft]
Total Volume Formula:	Volume = cup (200 mL) + tubing (159.8 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)
Calculated Total Volume:	276.79 [mL]
Actual Total Volume:	276.79 [mL]
Calculated Measurement Interval:	46 [sec]
Actual Measurement Interval:	46 [sec]

Start date/time:	4/16/2007	13:54:40
End date/time:	4/16/2007	13:59:11
Total Time:	0:04:31	

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [mg/L]	Variance	RDO []	Variance	Cond [µS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	5.73	0.2	-45.8	-1.37	0.46	-0.26			1183.74	-5.68	-0.01	0.17	17.36	-0.13	13:55:27
3	5.85	0.12	-45.97	-0.17	0.33	-0.13			1170.39	-13.34	-0.2	-0.2	17.32	-0.04	13:56:14
2	5.93	0.08	-46.95	-0.98	0.26	-0.07			1175.61	5.21	-0.18	0.02	17.2	-0.12	13:57:02
1	5.97	0.04	-46.52	0.43	0.23	-0.03			1174.97	-0.64	-0.09	0.09	17.1	-0.1	13:57:49
0	6.01	0.04	-45.96	0.56	0.22	-0.02			1171.86	-3.1	0.02	0.11	16.96	-0.14	13:58:36

pH Min:	5.73
pH Max:	6.01
ORP Min:	-46.95
ORP Max:	-45.8
DO Min:	0.22
DO Max:	0.46
RDO Min:	
RDO Max:	
Cond Min:	1170.39
Cond Max:	1183.74
Turb Min:	-0.2
Turb Max:	0.02
Temp Min:	16.96
Temp Max:	17.36

Notes: TURBIDITY<10NTU

Device Record:

In-Situ Inc. Troll 9000 Pro XP

Report generated: 4/18/2007 14:23:17
Report from file: ...\HARTFORD QUARTERLY GROUNDWATER SAMPLING-07003-003095.17-001-HARTFORD WORKING GROUP-MP-92D-4-16-2007.flo.bin
Win-Situ® Version 4.57.0.0

Serial number: 45406
Firmware Version 2
Unit name: MP Troll 9000

Test name: LowFlow

Test defined on: 4/16/2007 13:54:40
Test started on: 4/16/2007 13:54:40
Test stopped on: N/A N/A

Data gathered using Event testing
Time between data points: 0.0 Seconds.
Time between default storages: 0.0 Seconds.
Monitoring data on channel [1]
Data stored if delta value exceeds: 0 Celsius
Number of data samples: 6

TOTAL DATA SAMPLES 6

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [3]
Measurement type: Barometric Pressure
Channel name:

Channel number [4]
Measurement type: Turbidity
Channel name:

Channel number [5]
Measurement type: Battery Voltage
Channel name:

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen %Saturation
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temperature Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO milligrams/L	Chan[25] Clark DO Sat %Saturation	Chan[45] Conductivity microSiemens/cm Actual Conductivity
4/16/2007	13:54:40	0	17.49	29.613	-0.2	2.863	-44	5.53	0.72	7.619	1189.42
4/16/2007	13:55:27	47	17.36	29.614	0	2.863	-46	5.73	0.46	4.8777	1183.74
4/16/2007	13:56:14	94	17.32	29.611	-0.2	2.889	-46	5.85	0.33	3.4741	1170.39
4/16/2007	13:57:02	142	17.2	29.609	-0.2	2.811	-47	5.93	0.26	2.7783	1175.61
4/16/2007	13:57:49	189	17.1	29.607	-0.1	2.837	-47	5.97	0.23	2.4697	1174.97
4/16/2007	13:58:36	236	16.96	29.605	0	2.889	-46	6.01	0.22	2.2809	1171.86

APPENDIX E

FOUR QUARTERS OF GROUNDWATER ANALYTICAL RESULTS

E-1 BETX AND MTBE
E-2 Metals (Total and Dissolved)
E-3 General Chemistry and Natural Attenuation Parameters

APPENDIX E-1

BETX AND MTBE

Appendix E-1
Four Quarters of Groundwater Analytical Results
BETX and MTBE
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	RESULT TYPE	SAMPLE ID	Benzene (ug/l)	Ethylbenzene (ug/l)	Toluene (ug/l)	Xylene (total) (ug/l)	Methyl tert-butyl ether (ug/l)
COMPARISON VALUE				5	700	1000	10000	70
HMW-25	04/07/2006	Prim	HMW-25/060407	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-25	07/10/2006	Prim	HMW-25/060710	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-25	10/11/2006	Prim	HMW-25/061011	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-25	01/15/2007	Prim	HMW-25/070115	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-25	01/15/2007	Dup 1	DUP-001/070115	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-25	04/13/2007	Prim	HWM-25/070413	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-25	04/13/2007	Dup 1	DUP-001/070413	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-26	04/07/2006	Prim	HMW-26/060407	<2.0	<5.0	<5.0	<5.0	0.6J
HMW-26	07/10/2006	Prim	HMW-26/060710	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-26	10/11/2006	Prim	HMW-26/061011	<2.0	<5.0	<5.0	<5.0	0.9J
HMW-26	10/11/2006	Dup 1	DUP-001/061011	<2.0	<5.0	<5.0	<5.0	0.9J
HMW-26	01/15/2007	Prim	HMW-26/070115	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-26	04/13/2007	Prim	HMW-26/070413	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-27	04/06/2006	Prim	HMW-27/060406	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-27	07/10/2006	Prim	HMW-27/060710	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-27	10/12/2006	Prim	HMW-27/061012	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-27	01/15/2007	Prim	HMW-27/070115	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-27	04/13/2007	Prim	HMW-27/070413	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-28	04/06/2006	Prim	HMW-28/060406	<2.0	<5.0	<5.0	<5.0	<2.0

See Notes at End of Table

Appendix E-1
Four Quarters of Groundwater Analytical Results
BETX and MTBE
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	RESULT TYPE	SAMPLE ID	Benzene (ug/l)	Ethylbenzene (ug/l)	Toluene (ug/l)	Xylene (total) (ug/l)	Methyl tert-butyl ether (ug/l)
COMPARISON VALUE				5	700	1000	10000	70
HMW-28	07/10/2006	Prim	HMW-28/060710	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-28	07/10/2006	Dup 1	Dup-001/060710	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-28	10/12/2006	Prim	HMW-28/061012	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-28	01/15/2007	Prim	HMW-28/070115	<2.0R	<5.0R	<5.0	<5.0R	<2.0
HMW-28	04/13/2007	Prim	HMW-28/070413	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	04/06/2006	Prim	HMW-29/060406	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	04/06/2006	Dup 1	DUP-001/060406	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	07/10/2006	Prim	HMW-29/060710	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	10/12/2006	Prim	HMW-29/061012	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	01/16/2007	Prim	HMW-29/070116	<2.0	<5.0R	<5.0	<5.0	<2.0
HMW-29	04/16/2007	Prim	HMW-29/070416	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-39B	04/06/2006	Prim	HMW-39B/06040	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-39B	07/10/2006	Prim	HMW-39B/06071	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-39B	10/10/2006	Prim	HMW-39B/06101	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-39B	01/15/2007	Prim	HMW-39B/07011	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-39B	04/13/2007	Prim	HMW-39B/07041	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-39C	04/06/2006	Prim	HMW-39C/06040	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-39C	07/11/2006	Prim	HMW-39C/06071	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-39C	10/11/2006	Prim	HMW-39C/06101	<2.0	<5.0	<5.0	<5.0	<2.0

See Notes at End of Table

Appendix E-1
Four Quarters of Groundwater Analytical Results
BETX and MTBE
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	RESULT TYPE	SAMPLE ID	Benzene (ug/l)	Ethylbenzene (ug/l)	Toluene (ug/l)	Xylene (total) (ug/l)	Methyl tert-butyl ether (ug/l)
COMPARISON VALUE				5	700	1000	10000	70
HMW-39C	01/15/2007	Prim	HMW-39C/07011	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-39C	01/15/2007	Dup 1	DUP-001/070115	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-39C	04/16/2007	Prim	HMW-39C/07041	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-40C	04/06/2006	Prim	HMW-40C/06040	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-40C	07/11/2006	Prim	HMW-40C/06071	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-40C	10/10/2006	Prim	HMW-40C/06101	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-40C	10/10/2006	Dup 1	DUP-002/061010	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-40C	01/16/2007	Prim	HMW-40C/07011	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-40C	04/13/2007	Prim	HMW-40C/07041	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-40C	04/13/2007	Dup 1	DUP-001/070413	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-49B	04/06/2006	Prim	HMW-49B/06040	**88.7**	**832**	<50.0	70.1	<20.0
HMW-49B	01/15/2007	Prim	HMW-49B/07011	**73.1**	391	<25.0	51.8	<10
HMW-49B	04/16/2007	Prim	HMW-49B/07041	**90.0**	483	<25.0	58.7	<10
HMW-49C	04/06/2006	Prim	HMW-49C/06040	**232**	**2980**	**2840**	8920	**359**
HMW-49C	07/10/2006	Prim	HMW-49C/06071	**592**	**2180**	**2500**	5230	**<100**
HMW-49C	10/11/2006	Prim	HMW-49C/06101	**267**	**3740**	**6350**	9640	**818**
HMW-49C	01/16/2007	Prim	HMW-49C/07011	**304**	**2220**	**1600**	5940	**404**
HMW-49C	04/16/2007	Prim	HMW-49C/07041	**1010**	**1890**	310	5270	**152**
HMW-49D	04/06/2006	Prim	HMW-49D/06040	**198**	2.3J	8.5	13.5	43.5

See Notes at End of Table

Appendix E-1
Four Quarters of Groundwater Analytical Results
BETX and MTBE
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	RESULT TYPE	SAMPLE ID	Benzene (ug/l)	Ethylbenzene (ug/l)	Toluene (ug/l)	Xylene (total) (ug/l)	Methyl tert-butyl ether (ug/l)
COMPARISON VALUE				5	700	1000	10000	70
HMW-49D	04/06/2006	Dup 1	DUP-001/060406	**199**	2.3J	8.4	13.4	42.9
HMW-49D	07/10/2006	Prim	HMW-49D/06071	**339**	4.1J	12.0	15.2	49.2
HMW-49D	07/10/2006	Dup 1	Dup-001/060710	**318**	4.2J	12.2	15.3	47.0
HMW-49D	10/10/2006	Prim	HMW-49D/06101	**108**	2.6J	6.9	10.5	46.6
HMW-49D	10/10/2006	Dup 1	DUP-003/061010	**109**	2.4J	7.6	10.9	37.0
HMW-49D	01/16/2007	Prim	HMW-49D/07011	**116**	1.8J	6.7	10.3	37.2
HMW-49D	04/16/2007	Prim	HMW-49D/07041	**84.4**	1.6J	4.7J	6.7	44.4
HMW-50A	04/07/2006	Prim	HMW-50A/06040	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-50A	07/11/2006	Prim	HMW-50A/06071	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-50A	10/10/2006	Prim	HMW-50A/06101	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-50A	01/16/2007	Prim	HMW-50A/07011	<2.0R	<5.0	<5.0	<5.0R	<2.0
HMW-50A	04/13/2007	Prim	HMW-50A/07041	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-50B	04/06/2006	Prim	HMW-50B/06040	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-50B	07/11/2006	Prim	HMW-50B/06071	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-50B	10/10/2006	Prim	HMW-50B/06101	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-50B	01/15/2007	Prim	HMW-50B/07011	<2.0	<5.0R	<5.0	<5.0	<2.0
HMW-50B	01/15/2007	Dup 1	DUP-002/070111	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-50B	04/13/2007	Prim	HMW-50B/07041	0.7J	<5.0	<5.0	<5.0	<2.0
HMW-50C	04/07/2006	Prim	HMW-50C/06040	**42.2**	<5.0	3.6J	10	1.4J

See Notes at End of Table

Appendix E-1
Four Quarters of Groundwater Analytical Results
BETX and MTBE
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	RESULT TYPE	SAMPLE ID	Benzene (ug/l)	Ethylbenzene (ug/l)	Toluene (ug/l)	Xylene (total) (ug/l)	Methyl tert-butyl ether (ug/l)
COMPARISON VALUE				5	700	1000	10000	70
HMW-50C	07/10/2006	Prim	HMW-50C/06071	**99.1**	<5.0	6.2	11.8	<2.0
HMW-50C	10/09/2006	Prim	HMW-50C/06100	**77.8**	<5.0	4.7J	6.7	3.8
HMW-50C	01/16/2007	Prim	HMW-50C/07011	**127**	<5.0	8.5	9.1	6.3
HMW-50C	04/16/2007	Prim	HMW-50C/07041	**141**	<5.0	8.2	10.9	7.3
HMW-50C	04/16/2007	Dup 1	DUP-002/070416	**153**	<5.0	9.0	12.9	7.8
HMW-52C	04/07/2006	Prim	HMW-52C/06040	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-52C	07/10/2006	Prim	HMW-52C/06071	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-52C	10/10/2006	Prim	HMW-52C/06101	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-52C	01/17/2007	Prim	HMW-52C/07011	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-52C	04/13/2007	Prim	HMW-52C/07041	<2.0	<5.0	<5.0	<5.0	<2.0
MP-81C	04/06/2006	Prim	MP-81C/060406	<2.0	<5.0	<5.0	<5.0	<2.0
MP-81C	04/06/2006	Dup 1	DUP-002/060406	<2.0	<5.0	<5.0	<5.0	<2.0
MP-81C	07/11/2006	Prim	HMW-81C/06071	<2.0	<5.0	<5.0	<5.0	<2.0
MP-81C	10/11/2006	Prim	MP-81C/061011	<2.0	<5.0	<5.0	<5.0	<2.0
MP-81C	01/16/2007	Prim	MP-81C/070116	<2.0	<5.0	<5.0	<5.0	<2.0
MP-81C	04/16/2007	Prim	MP-81C/070416	<2.0	<5.0	<5.0	<5.0	<2.0
MP-89A	04/13/2007	Prim	MP-89A/070413	<2.0	<5.0	<5.0	<5.0	<2.0
MP-89C	04/06/2006	Prim	MP-89C/060406	<2.0	<5.0	<5.0	<5.0	<2.0
MP-89C	07/11/2006	Prim	MP-89C/060711	<2.0	<5.0	<5.0	<5.0	<2.0

See Notes at End of Table

Appendix E-1
Four Quarters of Groundwater Analytical Results
BETX and MTBE
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	RESULT TYPE	SAMPLE ID	Benzene (ug/l)	Ethylbenzene (ug/l)	Toluene (ug/l)	Xylene (total) (ug/l)	Methyl tert-butyl ether (ug/l)
COMPARISON VALUE				5	700	1000	10000	70
MP-89C	10/11/2006	Prim	MP-89C/061011	<2.0	<5.0	<5.0	<5.0	<2.0
MP-89C	01/16/2007	Prim	MP-89C/070116	<2.0	<5.0	<5.0	<5.0	<2.0
MP-89C	04/16/2007	Prim	MP-89C/070416	<2.0	<5.0	<5.0	<5.0	<2.0
MP-92D	04/07/2006	Prim	MP-92D/060407	<2.0	<5.0	<5.0	<5.0	<2.0
MP-92D	07/11/2006	Prim	MP-92D/060711	<2.0	<5.0	<5.0	<5.0	<2.0
MP-92D	07/11/2006	Dup 1	DUP-002/060711	<2.0	<5.0	<5.0	<5.0	<2.0
MP-92D	10/11/2006	Prim	MP-92D/061011	<2.0	<5.0	<5.0	<5.0	<2.0
MP-92D	01/16/2007	Prim	MP-92D/070116	<2.0	<5.0	<5.0	<5.0	<2.0
MP-92D	04/16/2007	Prim	MP-92D/070416	<2.0	<5.0	<5.0	<5.0	<2.0

See Notes at End of Table

NOTES

TABLES E-1, E-2 and E-3

Data prior to 2nd Quarter 2006 is provided in the Quarterly Groundwater Monitoring Report April 2006 dated August 8, 2006.

Comparison values are Tier 1 Class 1 Groundwater Remediation Objectives from Illinois EPA's Tiered Approach to Corrective Action Objectives (35 IAC Part 742) last amended February 15, 2007. Groundwater quality values listed in 35 IAC Part 742 used for comparison purposes only.

mg/L = Milligrams per liter.

µg/L = Micrograms per liter.

J = Estimated value. Compound detected below the practical quantitation limit (PQL).

NA = Constituent not analyzed by laboratory.

B = Analyte detected in the associated Method Blank.

R = RPD outside accepted recovery limits.

S = Spike Recovery outside accepted recovery limits.

APPENDIX E-2

METALS (TOTAL AND DISSOLVED)

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HMW-25/060407 04/07/2006 Primary	HMW-25 HMW-25/060710 07/10/2006 Primary	HMW-25 HMW-25/061011 10/11/2006 Primary	HMW-25 HMW-25/070115 01/15/2007 Primary	HMW-25 DUP-001/070115 01/15/2007 Duplicate 1
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	0.0020J
Arsenic	(mg/l)	0.05	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Arsenic (Dissolved)	(mg/l)	0.05	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Barium	(mg/l)	2	0.248	0.292	0.268	0.280	0.285
Barium (Dissolved)	(mg/l)	2	0.229	0.271	0.248	0.274	0.277
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	<0.0020	0.0019J	0.0003J	<0.0020	<0.0020
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	0.0013J	<0.0020	<0.0020	<0.0020
Chromium	(mg/l)	0.1	0.0041J	0.0048J	<0.0100	<0.0100	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	0.0049J	<0.0100	<0.0100
Cobalt	(mg/l)	1	<0.0100	0.0058J	<0.0100	<0.0100	<0.0100
Cobalt (Dissolved)	(mg/l)	1	<0.0100	0.0044J	0.0023J	<0.0100	<0.0100
Iron	(mg/l)	5	0.528	0.0211	0.0398	<0.0200	<0.0200
Iron (Dissolved)	(mg/l)	5	0.0291	<0.0200	<0.0200	<0.0200	<0.0200
Lead	(mg/l)	0.0075	<0.0020	0.0004J	<0.0020	<0.0020	<0.0020
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	(mg/l)	0.1	0.0121	0.0172	0.0056J	0.0095J	0.0095J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HMW-25/060407 04/07/2006 Primary	HMW-25 HMW-25/060710 07/10/2006 Primary	HMW-25 HMW-25/061011 10/11/2006 Primary	HMW-25 HMW-25/070115 01/15/2007 Primary	HMW-25 DUP-001/070115 01/15/2007 Duplicate 1
Nickel (Dissolved)	(mg/l)	0.1	0.0117	0.0158	0.0079J	0.0091J	0.0093J
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	<0.0100	<0.0100	0.0082J	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zinc	(mg/l)	5	0.0060J	0.0038J	<0.0100	<0.0100	0.0025J
Zinc (Dissolved)	(mg/l)	5	0.0055J	<0.0100	<0.0100	0.0045J	0.0028J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HWM-25/070413 04/13/2007 Primary	HMW-25 DUP-001/070413 04/13/2007 Duplicate 1	HMW-26 HMW-26/060407 04/07/2006 Primary	HMW-26 HMW-26/060710 07/10/2006 Primary	HMW-26 HMW-26/060711 07/11/2006 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	NA	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	NA
Arsenic	(mg/l)	0.05	0.0009J	0.0009J	0.0052	NA	0.0022J
Arsenic (Dissolved)	(mg/l)	0.05	0.0010J	0.0010J	0.0037	0.0036	NA
Barium	(mg/l)	2	0.256	0.253	0.186	NA	0.191
Barium (Dissolved)	(mg/l)	2	0.246	0.247	0.169	0.173	NA
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	0.0003J	NA	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	0.0003J	<0.0010	NA
Cadmium	(mg/l)	0.005	0.0007J	<0.0020	0.0012J	NA	0.0017J
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	0.0005J	0.0012J	0.0010J	NA
Chromium	(mg/l)	0.1	<0.0100	<0.0100	0.0055J	NA	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	0.0042J	0.0054J	NA
Cobalt	(mg/l)	1	0.0024J	0.0023J	<0.0100	NA	<0.0100
Cobalt (Dissolved)	(mg/l)	1	<0.0100	0.0036J	<0.0100	0.0066J	NA
Iron	(mg/l)	5	0.149	0.0704	**21.2S**	NA	**23.3S**
Iron (Dissolved)	(mg/l)	5	0.0329	0.0353	**18.8S**	**20.8**	NA
Lead	(mg/l)	0.0075	<0.0020	0.0055S	0.0016J	NA	0.0006J
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020	NA
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	NA	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	NA
Nickel	(mg/l)	0.1	0.0094J	0.0093J	0.0049J	NA	0.0064J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HWM-25/070413 04/13/2007 Primary	HMW-25 DUP-001/070413 04/13/2007 Duplicate 1	HMW-26 HMW-26/060407 04/07/2006 Primary	HMW-26 HMW-26/060710 07/10/2006 Primary	HMW-26 HMW-26/060711 07/11/2006 Primary
Nickel (Dissolved)	(mg/l)	0.1	0.0089J	0.0089J	0.0052J	0.0134	NA
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	NA	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	NA
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	NA	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	NA
Vanadium	(mg/l)	0.049	<0.0100	<0.0100	0.0047J	NA	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	0.0033J	<0.0100	NA
Zinc	(mg/l)	5	0.0056J	0.0039J	0.0065J	NA	0.0098J
Zinc (Dissolved)	(mg/l)	5	<0.0100	0.0022J	0.0021J	0.0025J	NA

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-26 HMW-26/061011 10/11/2006 Primary	HMW-26 DUP-001/061011 10/11/2006 Duplicate 1	HMW-26 HMW-26/070115 01/15/2007 Primary	HMW-26 HMW-26/070413 04/13/2007 Primary	HMW-27 HMW-27/060406 04/06/2006 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	0.0037	0.0048	0.0044	0.0042	<0.0030
Arsenic (Dissolved)	(mg/l)	0.05	0.0039	0.0046	0.0025J	0.0059	0.0015J
Barium	(mg/l)	2	0.167	0.168	0.171	0.204	0.161
Barium (Dissolved)	(mg/l)	2	0.155	0.152	0.163	0.193	0.155
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	0.0003J
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	<0.0020	<0.0020	0.0005J	0.0004J	<0.0020
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Chromium	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	<0.0100	0.0041J
Chromium (Dissolved)	(mg/l)	0.1	0.0061J	0.0059J	<0.0100	<0.0100	<0.0100
Cobalt	(mg/l)	1	<0.0100	<0.0100	<0.0100	<0.0100	0.0087J
Cobalt (Dissolved)	(mg/l)	1	<0.0100	<0.0100	0.0025J	<0.0100	0.0062J
Iron	(mg/l)	5	**22.1**	**21.3S**	**25.3**	**29.3**	2.71
Iron (Dissolved)	(mg/l)	5	**21.8**	**21.5**	**24.4**	**33.1**	2.53
Lead	(mg/l)	0.0075	0.0007J	<0.0020	<0.0020	<0.0020	<0.0020
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	0.0008J	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	<0.0100	0.0163

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-26 HMW-26/061011 10/11/2006 Primary	HMW-26 DUP-001/061011 10/11/2006 Duplicate 1	HMW-26 HMW-26/070115 01/15/2007 Primary	HMW-26 HMW-26/070413 04/13/2007 Primary	HMW-27 HMW-27/060406 04/06/2006 Primary
Nickel (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	<0.0100	0.0158
Selenium	(mg/l)	0.05	<0.0060	<0.0060S	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060S	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	0.0092J	<0.0100	0.0032J	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	0.0046J	0.0117	<0.0100	<0.0100	<0.0100
Zinc	(mg/l)	5	<0.0100	<0.0100	0.0033J	0.0044J	0.0058J
Zinc (Dissolved)	(mg/l)	5	<0.0100	<0.0100	0.0023J	0.0022J	0.0054J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-27 HMW-27/060710 07/10/2006 Primary	HMW-27 HMW-27/061012 10/12/2006 Primary	HMW-27 HMW-27/070115 01/15/2007 Primary	HMW-27 HMW-27/070413 04/13/2007 Primary	HMW-28 HMW-28/060406 04/06/2006 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	<0.0030	<0.0030	<0.0030	0.0022J	<0.0030
Arsenic (Dissolved)	(mg/l)	0.05	<0.0030	<0.0030	<0.0030	0.0025J	<0.0030
Barium	(mg/l)	2	0.108	0.101	0.166	0.167	0.0912
Barium (Dissolved)	(mg/l)	2	0.0945	0.102	0.158	0.156	0.0877
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	0.0018J	0.0005J	<0.0020	0.0003J	<0.0020
Cadmium (Dissolved)	(mg/l)	0.005	0.0010J	0.0007J	<0.0020	<0.0020	0.0004J
Chromium	(mg/l)	0.1	0.0049J	<0.0100	<0.0100	<0.0100	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	0.0052J	<0.0100	<0.0100	<0.0100	<0.0100
Cobalt	(mg/l)	1	0.0145	0.0090J	0.0050J	0.0051J	0.0113
Cobalt (Dissolved)	(mg/l)	1	0.0116	0.0054J	0.0072J	0.0033J	0.0087J
Iron	(mg/l)	5	1.11	0.617	3.07	3.78	0.0562
Iron (Dissolved)	(mg/l)	5	0.181	0.167	2.58	2.60	<0.0200
Lead	(mg/l)	0.0075	0.0017J	<0.0020	<0.0020	<0.0020	<0.0020
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	(mg/l)	0.1	0.0247	0.0125	0.0096J	0.0092J	0.0222

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-27 HMW-27/060710 07/10/2006 Primary	HMW-27 HMW-27/061012 10/12/2006 Primary	HMW-27 HMW-27/070115 01/15/2007 Primary	HMW-27 HMW-27/070413 04/13/2007 Primary	HMW-28 HMW-28/060406 04/06/2006 Primary
Nickel (Dissolved)	(mg/l)	0.1	0.0209	0.0119	0.0105	0.0087J	0.0211
Selenium	(mg/l)	0.05	0.0083	<0.0060S	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	0.0080	<0.0060S	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	0.0051J	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	0.0049J	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	0.0059J	<0.0100	<0.0100	<0.0100
Zinc	(mg/l)	5	0.0297	0.0132	0.0055J	0.0213	0.0063J
Zinc (Dissolved)	(mg/l)	5	0.0050J	<0.0100	0.0058J	0.0048J	0.0046J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-28 HMW-28/060710 07/10/2006 Primary	HMW-28 Dup-001/060710 07/10/2006 Duplicate 1	HMW-28 HMW-28/061012 10/12/2006 Primary	HMW-28 HMW-28/070115 01/15/2007 Primary	HMW-28 HMW-28/070413 04/13/2007 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	0.0023J	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	<0.0030	<0.0030	<0.0030	<0.0030	0.0007J
Arsenic (Dissolved)	(mg/l)	0.05	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030S
Barium	(mg/l)	2	0.0924	0.0922	0.0891	0.0961	0.104
Barium (Dissolved)	(mg/l)	2	0.0837	0.0828	0.0915	0.0941	0.0959
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	0.0012J	0.0013J	0.0006J	0.0004J	0.0006J
Cadmium (Dissolved)	(mg/l)	0.005	0.0007J	0.0013J	<0.0020	<0.0020	0.0004J
Chromium	(mg/l)	0.1	0.0043J	0.0047J	<0.0100	<0.0100	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	0.0040J	0.0041J	<0.0100	<0.0100	<0.0100
Cobalt	(mg/l)	1	0.0151	0.0133	0.0056J	0.0111	0.0212
Cobalt (Dissolved)	(mg/l)	1	0.0149	0.0126	0.0098J	0.0115	0.0104
Iron	(mg/l)	5	0.019J	0.016J	<0.0200	0.0496	0.0922
Iron (Dissolved)	(mg/l)	5	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
Lead	(mg/l)	0.0075	<0.0020	0.0005J	0.0005J	<0.0020	<0.0020
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	(mg/l)	0.1	0.0247	0.0243	0.0153	0.0204	0.0214

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-28 HMW-28/060710 07/10/2006 Primary	HMW-28 Dup-001/060710 07/10/2006 Duplicate 1	HMW-28 HMW-28/061012 10/12/2006 Primary	HMW-28 HMW-28/070115 01/15/2007 Primary	HMW-28 HMW-28/070413 04/13/2007 Primary
Nickel (Dissolved)	(mg/l)	0.1	0.0234	0.0222	0.0145	0.0210	0.0199
Selenium	(mg/l)	0.05	0.0270	0.0251	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	0.0171	0.0210	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	0.0035J	0.0048J	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	0.0088J	<0.0100	<0.0100
Zinc	(mg/l)	5	0.0063J	0.0062J	0.0086J	0.0077J	0.0075J
Zinc (Dissolved)	(mg/l)	5	0.0063J	0.0072J	<0.0100	0.0068J	0.0053J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 HMW-29/060406 04/06/2006 Primary	HMW-29 DUP-001/060406 04/06/2006 Duplicate 1	HMW-29 HMW-29/060710 07/10/2006 Primary	HMW-29 HMW-29/061012 10/12/2006 Primary	HMW-29 HMW-29/070116 01/16/2007 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050S	0.0030J	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	0.0020J	0.0019J	0.0026J	0.0018J	0.0018J
Arsenic (Dissolved)	(mg/l)	0.05	0.0019J	0.0028J	0.0015J	0.0017J	0.0010J
Barium	(mg/l)	2	0.133	0.128	0.147	0.132	0.126
Barium (Dissolved)	(mg/l)	2	0.120	0.119	0.122	0.132	0.126
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	0.0016J	0.0006J	0.0013J	<0.0020	0.0006J
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	0.0003J	0.0013J	<0.0020	<0.0020
Chromium	(mg/l)	0.1	0.0071J	0.0059J	0.0057J	<0.0100	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	0.0054J	<0.0100	0.0048J
Cobalt	(mg/l)	1	<0.0100	<0.0100	0.0060J	<0.0100	<0.0100
Cobalt (Dissolved)	(mg/l)	1	0.0044J	<0.0100	0.0073J	0.0043J	<0.0100
Iron	(mg/l)	5	**10.2**	**9.43**	**9.62**	**8.57**	**6.48S**
Iron (Dissolved)	(mg/l)	5	**8.48**	**8.56**	**6.03**	**7.01**	**6.74**
Lead	(mg/l)	0.0075	0.0025	0.0006J	0.0013J	<0.0020	<0.0020
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	(mg/l)	0.1	0.0067J	<0.0100	0.0115	<0.0100	0.0039J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 HMW-29/060406 04/06/2006 Primary	HMW-29 DUP-001/060406 04/06/2006 Duplicate 1	HMW-29 HMW-29/060710 07/10/2006 Primary	HMW-29 HMW-29/061012 10/12/2006 Primary	HMW-29 HMW-29/070116 01/16/2007 Primary
Nickel (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	0.0079J	<0.0100	0.0041J
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	0.0043J	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	0.0040J	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	0.0085J	0.0074J
Zinc	(mg/l)	5	0.0064J	0.0027J	0.0118	<0.0100	0.0093J
Zinc (Dissolved)	(mg/l)	5	0.0034J	<0.0100	0.0047J	0.0021J	0.0063J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 HMW-29/070416 04/16/2007 Primary	HMW-39B HMW-39B/060406 04/06/2006 Primary	HMW-39B HMW-39B/060710 07/10/2006 Primary	HMW-39B HMW-39B/061010 10/10/2006 Primary	HMW-39B HMW-39B/070115 01/15/2007 Primary
Antimony	(mg/l)	0.006	0.0020J	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	0.0044	<0.0030	0.0095	0.0008J	<0.0030
Arsenic (Dissolved)	(mg/l)	0.05	0.0044	<0.0030	<0.0030	<0.0030	<0.0030
Barium	(mg/l)	2	0.136	0.300	0.506	0.313	0.229
Barium (Dissolved)	(mg/l)	2	0.148	0.266	0.225	0.181	0.233
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	0.0007J	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	0.0008J	<0.0020	0.0009J	<0.0020	<0.0020
Cadmium (Dissolved)	(mg/l)	0.005	0.0004J	<0.0020	0.0004J	<0.0020	<0.0020
Chromium	(mg/l)	0.1	<0.0100	<0.0100	0.0298	0.0078J	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	0.0040J	0.0049J	<0.0100
Cobalt	(mg/l)	1	<0.0100	<0.0100	0.0125	0.0025J	<0.0100
Cobalt (Dissolved)	(mg/l)	1	<0.0100	<0.0100	0.0046J	<0.0100	<0.0100
Iron	(mg/l)	5	**11.7S**	0.0419	**29.3**	**6.49**	0.0722
Iron (Dissolved)	(mg/l)	5	**7.83S**	<0.0200	<0.0200	0.0099J	<0.0200
Lead	(mg/l)	0.0075	0.0005J	0.0005J	**0.0183**	0.0048	<0.0020
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	0.0008J	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 HMW-29/070416 04/16/2007 Primary	HMW-39B HMW-39B/060406 04/06/2006 Primary	HMW-39B HMW-39B/060710 07/10/2006 Primary	HMW-39B HMW-39B/061010 10/10/2006 Primary	HMW-39B HMW-39B/070115 01/15/2007 Primary
Nickel	(mg/l)	0.1	0.0052J	<0.0100	0.0399	0.0052J	<0.0100
Nickel (Dissolved)	(mg/l)	0.1	0.0044J	<0.0100	0.0052J	<0.0100	<0.0100
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	0.0032J	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	0.0034J	<0.0100	0.0479	0.0094J	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	0.0155	<0.0100
Zinc	(mg/l)	5	0.0240	0.0242	0.176	0.0694	0.0208
Zinc (Dissolved)	(mg/l)	5	0.0075J	0.0211	0.0106	0.0170	0.0234

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-39B HMW-39B/070413 04/13/2007 Primary	HMW-39C HMW-39C/060406 04/06/2006 Primary	HMW-39C HMW-39C/060711 07/11/2006 Primary	HMW-39C HMW-39C/061011 10/11/2006 Primary	HMW-39C HMW-39C/070115 01/15/2007 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	0.0021J
Arsenic	(mg/l)	0.05	0.0013J	<0.0030	<0.0030	<0.0030	<0.0030
Arsenic (Dissolved)	(mg/l)	0.05	0.0012J	0.0010J	<0.0030	<0.0030	<0.0030
Barium	(mg/l)	2	0.268	0.343	0.348	0.330	0.327
Barium (Dissolved)	(mg/l)	2	0.281	0.299	0.318	0.328	0.336
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	<0.0020	<0.0020	0.0003J	<0.0020	<0.0020
Cadmium (Dissolved)	(mg/l)	0.005	0.0003J	<0.0020	0.0004J	<0.0020	<0.0020
Chromium	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Cobalt	(mg/l)	1	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Cobalt (Dissolved)	(mg/l)	1	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Iron	(mg/l)	5	0.0437	4.73	3.97	4.26	3.82
Iron (Dissolved)	(mg/l)	5	0.170	3.36	3.50	3.96	3.26
Lead	(mg/l)	0.0075	<0.0020	0.0009J	0.0005J	<0.0020	<0.0020
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-39B HMW-39B/070413 04/13/2007 Primary	HMW-39C HMW-39C/060406 04/06/2006 Primary	HMW-39C HMW-39C/060711 07/11/2006 Primary	HMW-39C HMW-39C/061011 10/11/2006 Primary	HMW-39C HMW-39C/070115 01/15/2007 Primary
Nickel (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	0.0060J	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zinc	(mg/l)	5	0.0119	0.0655	0.0116	<0.0100	0.0393
Zinc (Dissolved)	(mg/l)	5	0.0129	0.0663	0.0037J	<0.0100	0.0196

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-39C DUP-001/070115 01/15/2007 Duplicate 1	HMW-39C HMW-39C/070416 04/16/2007 Primary	HMW-40C HMW-40C/060406 04/06/2006 Primary	HMW-40C HMW-40C/060711 07/11/2006 Primary	HMW-40C HMW-40C/061010 10/10/2006 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	<0.0030	<0.0030	**0.116**	**0.0917**	**0.362**
Arsenic (Dissolved)	(mg/l)	0.05	<0.0030	0.0013J	0.0145	0.0235	0.0253
Barium	(mg/l)	2	0.341	0.314	0.904	0.646	1.05
Barium (Dissolved)	(mg/l)	2	0.334	0.275	0.763	0.541	0.706
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	<0.0020	0.0006J	0.0005J	0.0018J	<0.0020
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	0.0005J	<0.0020	0.0004J	<0.0020
Chromium	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	<0.0100	0.0071J
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	<0.0100	0.0058J
Cobalt	(mg/l)	1	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Cobalt (Dissolved)	(mg/l)	1	0.0023J	<0.0100	<0.0100	0.0040J	<0.0100
Iron	(mg/l)	5	3.90	4.47	**32.2**	**17.0**	**80.3**
Iron (Dissolved)	(mg/l)	5	3.26	3.25	**6.64**	3.52	**7.34**
Lead	(mg/l)	0.0075	<0.0020	<0.0020	0.0012J	0.0004J	0.0020
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	0.0015J	<0.0020	0.0013J
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-39C DUP-001/070115 01/15/2007 Duplicate 1	HMW-39C HMW-39C/070416 04/16/2007 Primary	HMW-40C HMW-40C/060406 04/06/2006 Primary	HMW-40C HMW-40C/060711 07/11/2006 Primary	HMW-40C HMW-40C/061010 10/10/2006 Primary
Nickel	(mg/l)	0.1	<0.0100	<0.0100	0.0069J	0.0107	0.0042J
Nickel (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	0.0051J	0.0061J	<0.0100
Selenium	(mg/l)	0.05	<0.0060	<0.0060	0.0169	0.0287	0.0421
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	0.0184	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	<0.0100	<0.0100	0.0057J	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zinc	(mg/l)	5	0.0379	0.0291	0.0272	0.0191	0.0335
Zinc (Dissolved)	(mg/l)	5	0.0193	0.0257	0.0081J	0.0072J	<0.0100

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-40C DUP-002/061010 10/10/2006 Duplicate 1	HMW-40C HMW-40C/070116 01/16/2007 Primary	HMW-40C HMW-40C/070413 04/13/2007 Primary	HMW-40C DUP-001/070413 04/13/2007 Duplicate 1	HMW-49B HMW-49B/060406 04/06/2006 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	0.0020J
Arsenic	(mg/l)	0.05	**0.130**	**0.440**	**0.111**	**0.0829S**	0.0251
Arsenic (Dissolved)	(mg/l)	0.05	0.0236	0.0200	0.0134	0.0146	0.0251
Barium	(mg/l)	2	0.784	0.843	0.512	0.513	0.748
Barium (Dissolved)	(mg/l)	2	0.675	0.679	0.442	0.446	0.602
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	0.0003J
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	<0.0020	0.0003J	0.0004J	0.0004J	**0.0093**
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	0.0004J	0.0005J	0.0004J	0.0009J
Chromium	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	<0.0100	0.0076J
Chromium (Dissolved)	(mg/l)	0.1	0.0054J	<0.0100	<0.0100	<0.0100	0.0070J
Cobalt	(mg/l)	1	<0.0100	0.0026J	<0.0100	<0.0100	0.0091J
Cobalt (Dissolved)	(mg/l)	1	<0.0100	0.0022J	<0.0100	<0.0100	0.0067J
Iron	(mg/l)	5	**35.6**	**60.1S**	**12.5S**	**12.7**	**27.9**
Iron (Dissolved)	(mg/l)	5	**7.26**	4.65	1.66	1.86	**16.8**
Lead	(mg/l)	0.0075	0.0006J	0.0011J	0.0015J	<0.0020	0.0064
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020	0.0034
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-40C DUP-002/061010 10/10/2006 Duplicate 1	HMW-40C HMW-40C/070116 01/16/2007 Primary	HMW-40C HMW-40C/070413 04/13/2007 Primary	HMW-40C DUP-001/070413 04/13/2007 Duplicate 1	HMW-49B HMW-49B/060406 04/06/2006 Primary
Nickel	(mg/l)	0.1	<0.0100	0.0085J	0.0071J	0.0067J	0.0080J
Nickel (Dissolved)	(mg/l)	0.1	<0.0100	0.0054J	0.0049J	0.0048J	0.0035J
Selenium	(mg/l)	0.05	0.0166	**0.116**	0.0351	0.0237S	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	0.0038J	0.0394	0.0084	0.0091	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	0.0094J	<0.0100	<0.0100	<0.0100	0.0077J
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	0.0079J	<0.0100	<0.0100	0.0061J
Zinc	(mg/l)	5	0.0124	0.0521	0.0796	0.0751	0.162
Zinc (Dissolved)	(mg/l)	5	<0.0100	0.0151	0.0743	0.0661	0.0139

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-49B HMW-49B/070115 01/15/2007 Primary	HMW-49B HMW-49B/070416 04/16/2007 Primary	HMW-49C HMW-49C/060406 04/06/2006 Primary	HMW-49C HMW-49C/060710 07/10/2006 Primary	HMW-49C HMW-49C/061011 10/11/2006 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	0.0187	0.0256	0.0047	0.0077	0.0067
Arsenic (Dissolved)	(mg/l)	0.05	0.0189	0.0254	<0.0030	0.0047	0.0050
Barium	(mg/l)	2	0.640	0.740	0.377	0.371	0.342
Barium (Dissolved)	(mg/l)	2	0.630	0.694	0.322	0.318	0.317
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	0.0003J	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	<0.0020	0.0010J	0.0007J	0.0014J	<0.0020
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	0.0005J	0.0017J	0.0005J	<0.0020
Chromium	(mg/l)	0.1	<0.0100	<0.0100	0.0090J	0.0133	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	0.0045J	0.0085J	0.0057J	0.0058J
Cobalt	(mg/l)	1	0.0072J	0.0095J	0.0022J	0.0118	<0.0100
Cobalt (Dissolved)	(mg/l)	1	0.0077J	0.0061J	<0.0100	0.0056J	<0.0100
Iron	(mg/l)	5	**30.3**	**29.5**	**17.7**	**28.8**	**19.4**
Iron (Dissolved)	(mg/l)	5	**28.7**	**26.0**	**14.6**	**18.6**	**17.3**
Lead	(mg/l)	0.0075	0.0027	0.0007J	**0.0132**	**0.0154**	**0.0197**
Lead (Dissolved)	(mg/l)	0.0075	0.0016J	<0.0020	**0.0117**	**0.0129**	**0.0162**
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-49B HMW-49B/070115 01/15/2007 Primary	HMW-49B HMW-49B/070416 04/16/2007 Primary	HMW-49C HMW-49C/060406 04/06/2006 Primary	HMW-49C HMW-49C/060710 07/10/2006 Primary	HMW-49C HMW-49C/061011 10/11/2006 Primary
Nickel	(mg/l)	0.1	0.0057J	0.0082J	0.0087J	0.0227	<0.0100
Nickel (Dissolved)	(mg/l)	0.1	0.0062J	0.0046J	0.0071J	0.0144	<0.0100
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	0.0034J	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	0.0053J	<0.0100	0.0081J	0.0054J	0.0035J
Vanadium (Dissolved)	(mg/l)	0.049	0.0048J	<0.0100	<0.0100	<0.0100	<0.0100
Zinc	(mg/l)	5	0.0097J	0.0071J	0.0904	0.152	0.0347
Zinc (Dissolved)	(mg/l)	5	0.0034J	0.0026J	0.0290	0.0060J	0.0029J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-49C HMW-49C/070116 01/16/2007 Primary	HMW-49C HMW-49C/070416 04/16/2007 Primary	HMW-49D HMW-49D/060406 04/06/2006 Primary	HMW-49D DUP-001/060406 04/06/2006 Duplicate 1	HMW-49D HMW-49D/060710 07/10/2006 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	0.0055	0.0031	0.0009J	0.0012J	0.0013J
Arsenic (Dissolved)	(mg/l)	0.05	0.0027J	0.0045	<0.0030	0.0008J	<0.0030
Barium	(mg/l)	2	0.380	0.332	0.356	0.355	0.372
Barium (Dissolved)	(mg/l)	2	0.315	0.278	0.326	0.343	0.291
Beryllium	(mg/l)	0.004	0.0003J	<0.0010	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	0.0003J	<0.0010
Cadmium	(mg/l)	0.005	0.0014J	**0.0086**	0.0009J	0.0004J	0.0014J
Cadmium (Dissolved)	(mg/l)	0.005	0.0003J	0.0005J	0.0012J	0.0011J	0.0005J
Chromium	(mg/l)	0.1	0.0237	0.0052J	0.0080J	0.0073J	0.0055J
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	0.0040J	0.0046J	0.0052J	<0.0100
Cobalt	(mg/l)	1	0.0110	0.0054J	<0.0100	<0.0100	0.0055J
Cobalt (Dissolved)	(mg/l)	1	0.0034J	0.0076J	<0.0100	<0.0100	0.0044J
Iron	(mg/l)	5	**31.4**	**13.0**	**31.8**	**32.4**	**30.7**
Iron (Dissolved)	(mg/l)	5	**17.4**	**8.47**	**20.0**	**28.3**	**27.1**
Lead	(mg/l)	0.0075	**0.0226**	0.0035	0.0045	0.0046	0.0062
Lead (Dissolved)	(mg/l)	0.0075	**0.0129**	0.0009J	0.0006J	0.0038	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-49C HMW-49C/070116 01/16/2007 Primary	HMW-49C HMW-49C/070416 04/16/2007 Primary	HMW-49D HMW-49D/060406 04/06/2006 Primary	HMW-49D DUP-001/060406 04/06/2006 Duplicate 1	HMW-49D HMW-49D/060710 07/10/2006 Primary
Nickel	(mg/l)	0.1	0.0233	0.0126	0.0068J	0.0070J	0.0174
Nickel (Dissolved)	(mg/l)	0.1	0.0046J	0.0135	0.0049J	0.0059J	0.0129
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	0.0038J
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	0.0032J
Vanadium	(mg/l)	0.049	0.0312	0.0067J	0.0062J	0.0040J	0.0047J
Vanadium (Dissolved)	(mg/l)	0.049	0.0087J	<0.0100	<0.0100	0.0048J	<0.0100
Zinc	(mg/l)	5	0.496	0.897	0.0321	0.0319	0.0759
Zinc (Dissolved)	(mg/l)	5	0.0806	1.02	0.0065J	0.0288	0.0026J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-49D Dup-001/060710 07/10/2006 Duplicate 1	HMW-49D HMW-49D/061010 10/10/2006 Primary	HMW-49D DUP-003/061010 10/10/2006 Duplicate 1	HMW-49D HMW-49D/070116 01/16/2007 Primary	HMW-49D HMW-49D/070416 04/16/2007 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	0.0029J	<0.0030	<0.0030	0.0011J	0.0008J
Arsenic (Dissolved)	(mg/l)	0.05	<0.0030	<0.0030	<0.0030	<0.0030	0.0011J
Barium	(mg/l)	2	0.368	0.351	0.323	0.325	0.298
Barium (Dissolved)	(mg/l)	2	0.290	0.298	0.304	0.282	0.303
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	0.0003J
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	0.0016J	<0.0020	<0.0020	0.0008J	0.0012J
Cadmium (Dissolved)	(mg/l)	0.005	0.0012J	<0.0020	<0.0020	0.0004J	0.0005J
Chromium	(mg/l)	0.1	0.0075J	0.0040J	<0.0100	<0.0100	0.0046J
Chromium (Dissolved)	(mg/l)	0.1	0.0052J	0.0067J	0.0066J	<0.0100	<0.0100
Cobalt	(mg/l)	1	0.0074J	<0.0100	<0.0100	0.0034J	0.0083J
Cobalt (Dissolved)	(mg/l)	1	0.0053J	<0.0100	<0.0100	<0.0100	0.0022J
Iron	(mg/l)	5	**31.2**	**30.4**	**29.2**	**32.4**	**31.6**
Iron (Dissolved)	(mg/l)	5	**26.8**	**27.8**	**27.7**	**28.1**	**28.0**
Lead	(mg/l)	0.0075	0.0058	0.0045	0.0018J	0.0044	0.0008J
Lead (Dissolved)	(mg/l)	0.0075	0.0005J	0.0009J	<0.0020	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	(mg/l)	0.1	0.0174	<0.0100	<0.0100	0.0050J	0.0079J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-49D Dup-001/060710 07/10/2006 *Duplicate 1*	HMW-49D HMW-49D/061010 10/10/2006 *Primary*	HMW-49D DUP-003/061010 10/10/2006 *Duplicate 1*	HMW-49D HMW-49D/070116 01/16/2007 *Primary*	HMW-49D HMW-49D/070416 04/16/2007 *Primary*
Nickel (Dissolved)	(mg/l)	0.1	0.0147	<0.0100	<0.0100	<0.0100	<0.0100
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	0.0033J	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	0.0057J	0.0077J	0.0077J	0.0037J	0.0059J
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	0.0059J	<0.0100
Zinc	(mg/l)	5	0.0719	0.0521	0.0294	0.0587	0.0332
Zinc (Dissolved)	(mg/l)	5	0.0022J	<0.0100	<0.0100	0.0032J	<0.0100

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-50A HMW-50A/060407 04/07/2006 Primary	HMW-50A HMW-50A/060711 07/11/2006 Primary	HMW-50A HMW-50A/061010 10/10/2006 Primary	HMW-50A HMW-50A/070116 01/16/2007 Primary	HMW-50A HMW-50A/070413 04/13/2007 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	0.0011J	<0.0030	<0.0030	0.0009J	0.0026J
Arsenic (Dissolved)	(mg/l)	0.05	0.0011J	0.0010J	<0.0030	<0.0030	0.0045J
Barium	(mg/l)	2	0.0541	0.0579	0.0580	0.0484	0.0588
Barium (Dissolved)	(mg/l)	2	0.0458	0.0436	0.0504	0.0409	0.0395
Beryllium	(mg/l)	0.004	0.0003J	<0.0010	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	0.0003J	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	<0.0020	0.0007J	<0.0020	0.0013J	0.0005J
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	0.0005J	<0.0020	0.0006J	<0.0020
Chromium	(mg/l)	0.1	0.0059J	0.0040J	<0.0100	0.0288	0.0142
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	0.0047J	0.0309	0.0117
Cobalt	(mg/l)	1	<0.0100	0.0022J	<0.0100	<0.0100	0.0022J
Cobalt (Dissolved)	(mg/l)	1	<0.0100	0.0050J	<0.0100	<0.0100	<0.0100
Iron	(mg/l)	5	0.744	1.33	0.731	0.852	1.52
Iron (Dissolved)	(mg/l)	5	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
Lead	(mg/l)	0.0075	<0.0020	0.0005J	<0.0020	<0.0020	0.0006J
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	0.0012J	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	(mg/l)	0.1	0.0058J	0.0080J	0.0048J	0.0038J	0.0063J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-50A HMW-50A/060407 04/07/2006 Primary	HMW-50A HMW-50A/060711 07/11/2006 Primary	HMW-50A HMW-50A/061010 10/10/2006 Primary	HMW-50A HMW-50A/070116 01/16/2007 Primary	HMW-50A HMW-50A/070413 04/13/2007 Primary
Nickel (Dissolved)	(mg/l)	0.1	0.0054J	0.0036J	<0.0100	<0.0100	<0.0100
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	0.0054J	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	0.0056J	0.0036J
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	0.0045J	0.0061J	<0.0100	0.0056J	0.0070J
Vanadium (Dissolved)	(mg/l)	0.049	0.0042J	<0.0100	<0.0100	0.0068J	0.0033J
Zinc	(mg/l)	5	0.0134	0.0277	<0.0100	0.0059J	0.0123
Zinc (Dissolved)	(mg/l)	5	0.0041J	0.0075J	<0.0100	0.0039J	0.0023J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-50B HMW-50B/060406 04/06/2006 Primary	HMW-50B HMW-50B/060711 07/11/2006 Primary	HMW-50B HMW-50B/061010 10/10/2006 Primary	HMW-50B HMW-50B/070115 01/15/2007 Primary	HMW-50B DUP-002/0701115 01/15/2007 Duplicate 1
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	0.0028J
Arsenic	(mg/l)	0.05	<0.0030	<0.0030	<0.0030	<0.0030	0.0010J
Arsenic (Dissolved)	(mg/l)	0.05	<0.0030	0.0008J	<0.0030	<0.0030	<0.0030
Barium	(mg/l)	2	0.332	0.289	0.215	0.351	0.352
Barium (Dissolved)	(mg/l)	2	0.274	0.273	0.193	0.312	0.311
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	0.0003J	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	<0.0020	0.0013J	<0.0020	0.0003J	0.0006J
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Chromium	(mg/l)	0.1	0.0059J	0.0042J	<0.0100	0.0042J	0.0071J
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	0.0050J	<0.0100	<0.0100
Cobalt	(mg/l)	1	<0.0100	0.0036J	<0.0100	<0.0100	<0.0100
Cobalt (Dissolved)	(mg/l)	1	<0.0100	0.0037J	<0.0100	<0.0100	<0.0100
Iron	(mg/l)	5	**7.38**	**5.67**	4.74	**9.26**	**9.40S**
Iron (Dissolved)	(mg/l)	5	4.65	**5.22**	3.02	4.00	4.02
Lead	(mg/l)	0.0075	0.0012J	0.0006J	<0.0020	0.0017J	0.0042
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	0.0011J	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	(mg/l)	0.1	<0.0100	0.0038J	<0.0100	0.0045J	0.0045J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-50B HMW-50B/060406 04/06/2006 Primary	HMW-50B HMW-50B/060711 07/11/2006 Primary	HMW-50B HMW-50B/061010 10/10/2006 Primary	HMW-50B HMW-50B/070115 01/15/2007 Primary	HMW-50B DUP-002/0701115 01/15/2007 Duplicate 1
Nickel (Dissolved)	(mg/l)	0.1	<0.0100	0.0033J	<0.0100	<0.0100	<0.0100
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060S	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	0.0041J	<0.0100	<0.0100	0.0080J	0.0075J
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	0.0086J	<0.0100	0.0039J
Zinc	(mg/l)	5	0.0098J	0.0071J	<0.0100	0.0180	0.0364
Zinc (Dissolved)	(mg/l)	5	0.0041J	0.0058J	<0.0100	0.0063J	0.0040J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-50B HMW-50B/070413 04/13/2007 Primary	HMW-50C HMW-50C/060407 04/07/2006 Primary	HMW-50C HMW-50C/060710 07/10/2006 Primary	HMW-50C HMW-50C/061009 10/09/2006 Primary	HMW-50C HMW-50C/070116 01/16/2007 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	0.0013J	<0.0030	<0.0030	<0.0030	<0.0030
Arsenic (Dissolved)	(mg/l)	0.05	0.0023J	0.0010J	<0.0030	<0.0030	<0.0030
Barium	(mg/l)	2	0.335	0.381	0.290	0.256	0.255
Barium (Dissolved)	(mg/l)	2	0.308	0.340	0.257	0.247	0.246
Beryllium	(mg/l)	0.004	<0.0010	0.0003J	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	0.0003J	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	<0.0020	0.0011J	0.0015J	<0.0020	0.0005J
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	0.0013J	0.0011J	<0.0020	0.0004J
Chromium	(mg/l)	0.1	0.0042J	0.0042J	0.0074J	<0.0100	0.0042J
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	0.0064J	0.0067J	0.0057J	<0.0100
Cobalt	(mg/l)	1	<0.0100	<0.0100	0.0056J	<0.0100	0.0026J
Cobalt (Dissolved)	(mg/l)	1	<0.0100	0.0026J	0.0064J	<0.0100	<0.0100
Iron	(mg/l)	5	**8.11S**	**18.4S**	**14.4**	2.63	4.14
Iron (Dissolved)	(mg/l)	5	**6.58**	**13.2**	0.756	0.184	1.18
Lead	(mg/l)	0.0075	<0.0020	<0.0020	0.0009J	0.0006J	<0.0020
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	(mg/l)	0.1	<0.0100	0.0080J	0.0081J	<0.0100	<0.0100

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-50B HMW-50B/070413 04/13/2007 Primary	HMW-50C HMW-50C/060407 04/07/2006 Primary	HMW-50C HMW-50C/060710 07/10/2006 Primary	HMW-50C HMW-50C/061009 10/09/2006 Primary	HMW-50C HMW-50C/070116 01/16/2007 Primary
Nickel (Dissolved)	(mg/l)	0.1	<0.0100	0.0048J	0.0061J	<0.0100	<0.0100
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060S	<0.0060	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	0.0059J	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	0.0032J	0.0032J	<0.0100	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	0.0078J
Zinc	(mg/l)	5	0.0041J	0.0131	0.0090J	0.0093J	0.0042J
Zinc (Dissolved)	(mg/l)	5	0.0032J	<0.0100	0.0030J	<0.0100	0.0027J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-50C HMW-50C/070416 04/16/2007 Primary	HMW-50C DUP-002/070416 04/16/2007 Duplicate 1	HMW-52C HMW-52C/060407 04/07/2006 Primary	HMW-52C HMW-52C/060710 07/10/2006 Primary	HMW-52C HMW-52C/061010 10/10/2006 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	<0.0030	<0.0030	0.0089	0.0080	0.0021J
Arsenic (Dissolved)	(mg/l)	0.05	0.0018J	0.0011J	0.0022J	0.0026J	0.0015J
Barium	(mg/l)	2	0.262	0.268	0.504	0.495	0.384
Barium (Dissolved)	(mg/l)	2	0.292	0.248	0.368	0.358	0.358
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	0.0005J	0.0004J	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	0.0005J	0.0005J	0.0036	0.0016J	<0.0020
Cadmium (Dissolved)	(mg/l)	0.005	0.0003J	0.0018J	0.0013J	0.0010J	<0.0020
Chromium	(mg/l)	0.1	<0.0100	<0.0100	0.0150	0.0187	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	0.0044J	0.0046J	0.0055J	0.0052J	0.0063J
Cobalt	(mg/l)	1	<0.0100	<0.0100	0.0037J	0.0083J	0.0023J
Cobalt (Dissolved)	(mg/l)	1	0.0022J	0.0034J	<0.0100	0.0039J	<0.0100
Iron	(mg/l)	5	**13.0**	**12.4**	**32.2**	**29.6**	**16.1**
Iron (Dissolved)	(mg/l)	5	**8.81**	**8.64**	**13.6**	**14.4**	**14.3**
Lead	(mg/l)	0.0075	<0.0020	<0.0020	**0.0330**	**0.0143**	0.0068
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020	0.0029
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-50C HMW-50C/070416 04/16/2007 Primary	HMW-50C DUP-002/070416 04/16/2007 Duplicate 1	HMW-52C HMW-52C/060407 04/07/2006 Primary	HMW-52C HMW-52C/060710 07/10/2006 Primary	HMW-52C HMW-52C/061010 10/10/2006 Primary
Nickel	(mg/l)	0.1	<0.0100	<0.0100	0.0162	0.0425	<0.0100
Nickel (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	0.0066J	0.0197	<0.0100
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	0.0057J	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	0.0038J	<0.0100
Vanadium	(mg/l)	0.049	<0.0100	<0.0100	0.0083J	0.0242	0.0062J
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zinc	(mg/l)	5	0.0054J	<0.0100	0.524	0.464	0.0661
Zinc (Dissolved)	(mg/l)	5	<0.0100	0.0038J	0.0069J	0.0099J	0.0303

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-52C HMW-52C/070117 01/17/2007 Primary	HMW-52C HMW-52C/070413 04/13/2007 Primary	MP-81C MP-81C/060406 04/06/2006 Primary	MP-81C DUP-002/060406 04/06/2006 Duplicate 1	MP-81C HMW-81C/060711 07/11/2006 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	0.0067	0.0050	0.0017J	<0.0030	<0.0030
Arsenic (Dissolved)	(mg/l)	0.05	0.0022J	0.0026J	<0.0030	<0.0030	<0.0030
Barium	(mg/l)	2	0.507	0.462	0.0953	0.0799	0.0729
Barium (Dissolved)	(mg/l)	2	0.397	0.310	0.0725	0.0716	0.0680
Beryllium	(mg/l)	0.004	0.0003J	0.0004J	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	0.0003J	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	0.0020	0.0022	0.0005J	<0.0020	0.0007J
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Chromium	(mg/l)	0.1	0.0159	0.0197	0.0050J	<0.0100	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	0.0059J	<0.0100	<0.0100
Cobalt	(mg/l)	1	0.0073J	0.0085J	0.0061J	0.0058J	0.0089J
Cobalt (Dissolved)	(mg/l)	1	<0.0100	<0.0100	0.0053J	0.0045J	0.0080J
Iron	(mg/l)	5	**34.0S**	**30.6**	1.96	0.542	0.0498
Iron (Dissolved)	(mg/l)	5	**17.8S**	**16.1**	0.0949	0.105	<0.0200
Lead	(mg/l)	0.0075	**0.0268**	**0.0221**	0.0023	<0.0020	0.0006J
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-52C HMW-52C/070117 01/17/2007 Primary	HMW-52C HMW-52C/070413 04/13/2007 Primary	MP-81C MP-81C/060406 04/06/2006 Primary	MP-81C DUP-002/060406 04/06/2006 Duplicate 1	MP-81C HMW-81C/060711 07/11/2006 Primary
Nickel	(mg/l)	0.1	0.0177	0.0213	0.0283	0.0241	0.0242
Nickel (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	0.0214	0.0221	0.0243
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	0.0293	0.0305	0.0060J	0.0036J	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	0.0034J	<0.0100	<0.0100
Zinc	(mg/l)	5	0.374	0.387	0.0207	0.0080J	0.0095J
Zinc (Dissolved)	(mg/l)	5	0.0040J	0.0025J	0.0115	0.0085J	0.0095J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	MP-81C MP-81C/061011 10/11/2006 Primary	MP-81C MP-81C/070116 01/16/2007 Primary	MP-81C MP-81C/070416 04/16/2007 Primary	MP-89C MP-89C/060406 04/06/2006 Primary	MP-89C MP-89C/060711 07/11/2006 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	0.0013J	<0.0030	0.0021J	0.0140	0.0009J
Arsenic (Dissolved)	(mg/l)	0.05	<0.0030	<0.0030	<0.0030	0.0039	0.0014J
Barium	(mg/l)	2	0.0697	0.0663	0.0918	1.19	0.313
Barium (Dissolved)	(mg/l)	2	0.0649	0.0646	0.0698	0.537	0.252
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	0.0016	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	0.0003J	<0.0010
Cadmium	(mg/l)	0.005	0.0004J	0.0006J	0.0006J	0.0039	0.0021
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	0.0005J	0.0003J	0.0016J	0.0007J
Chromium	(mg/l)	0.1	<0.0100	<0.0100	0.0044J	0.0672	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	0.0054J	<0.0100	<0.0100	0.0056J	<0.0100
Cobalt	(mg/l)	1	0.0075J	0.0088J	0.0108	0.0303	0.0144
Cobalt (Dissolved)	(mg/l)	1	0.0087J	0.0092J	0.0091J	<0.0100	0.0147
Iron	(mg/l)	5	0.0313	0.205	1.35	**105**	**29.0**
Iron (Dissolved)	(mg/l)	5	0.805	0.012J	0.0212	**29.2**	**20.8**
Lead	(mg/l)	0.0075	<0.0020	<0.0020	0.0006J	**0.0623**	0.0015J
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020	0.0009J
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	0.00012J	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	MP-81C MP-81C/061011 10/11/2006 Primary	MP-81C MP-81C/070116 01/16/2007 Primary	MP-81C MP-81C/070416 04/16/2007 Primary	MP-89C MP-89C/060406 04/06/2006 Primary	MP-89C MP-89C/060711 07/11/2006 Primary
Nickel	(mg/l)	0.1	0.0199	0.0232	0.0267	0.0736	0.0339
Nickel (Dissolved)	(mg/l)	0.1	0.0213	0.0222	0.0246	0.0042J	0.0340
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	0.0038J	**0.0870**
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	**0.0803**
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	0.0089J	<0.0100	0.0053J	**0.114**	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	0.0035J	<0.0100
Zinc	(mg/l)	5	0.0036J	0.0081J	0.0123	0.273	0.0129
Zinc (Dissolved)	(mg/l)	5	0.0044J	0.0068J	0.0073J	0.0048J	0.0086J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	MP-89C MP-89C/061011 10/11/2006 Primary	MP-89C MP-89C/070116 01/16/2007 Primary	MP-89C MP-89C/070416 04/16/2007 Primary	MP-92D MP-92D/060407 04/07/2006 Primary	MP-92D MP-92D/060711 07/11/2006 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	0.0150	0.0053	**0.0974**	0.0036	0.0048
Arsenic (Dissolved)	(mg/l)	0.05	0.0141	0.0026J	**0.0561**	0.0028J	0.0048
Barium	(mg/l)	2	0.198	0.290	0.350	0.204	0.171
Barium (Dissolved)	(mg/l)	2	0.159	0.148	0.159	0.166	0.144
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	0.0003J	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	<0.0020	0.0005J	0.0015J	0.0004J	0.0011J
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	0.0003J	0.0005J	<0.0020	0.0006J
Chromium	(mg/l)	0.1	<0.0100	0.0044J	0.0075J	0.0066J	0.0044J
Chromium (Dissolved)	(mg/l)	0.1	0.0065J	<0.0100	<0.0100	<0.0100	<0.0100
Cobalt	(mg/l)	1	<0.0100	0.0049J	0.0074J	<0.0100	0.0043J
Cobalt (Dissolved)	(mg/l)	1	<0.0100	0.0033J	0.0033J	<0.0100	0.0052J
Iron	(mg/l)	5	**30.3**	**41.9**	**45.1**	**8.65**	**6.68**
Iron (Dissolved)	(mg/l)	5	**28.8**	**28.4**	**27.6**	**6.70**	**5.53**
Lead	(mg/l)	0.0075	0.0007J	0.0039	0.0058	0.0024	0.0008J
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	MP-89C MP-89C/061011 10/11/2006 Primary	MP-89C MP-89C/070116 01/16/2007 Primary	MP-89C MP-89C/070416 04/16/2007 Primary	MP-92D MP-92D/060407 04/07/2006 Primary	MP-92D MP-92D/060711 07/11/2006 Primary
Nickel	(mg/l)	0.1	<0.0100	0.0116	0.0167	0.0077J	0.0096J
Nickel (Dissolved)	(mg/l)	0.1	<0.0100	0.0060J	0.0072J	0.0034J	0.0061J
Selenium	(mg/l)	0.05	<0.0060	0.0132	0.0099	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	0.0080J	0.0097J	0.0155	0.0055J	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zinc	(mg/l)	5	0.0193	0.0182	0.0350	0.0779	0.0155
Zinc (Dissolved)	(mg/l)	5	<0.0100	0.0034J	0.0173	0.0033J	0.0028J

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	MP-92D DUP-002/060711 07/11/2006 *Duplicate 1*	MP-92D MP-92D/061011 10/11/2006 *Primary*	MP-92D MP-92D/070116 01/16/2007 *Primary*	MP-92D MP-92D/070416 04/16/2007 *Primary*
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	0.0021J	<0.0050
Arsenic	(mg/l)	0.05	0.0028J	0.0050	0.0026J	0.0015J
Arsenic (Dissolved)	(mg/l)	0.05	0.0030	0.0031	0.0023J	0.0039
Barium	(mg/l)	2	0.164	0.173	0.184	0.206
Barium (Dissolved)	(mg/l)	2	0.145	0.126	0.165	0.173
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	0.0006J	<0.0020	0.0005J	0.0008J
Cadmium (Dissolved)	(mg/l)	0.005	0.0003J	<0.0020	0.0004J	0.0005J
Chromium	(mg/l)	0.1	<0.0100	<0.0100	0.0051J	0.0082J
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	0.0040J	0.0041J
Cobalt	(mg/l)	1	0.0054J	<0.0100	0.0036J	0.0055J
Cobalt (Dissolved)	(mg/l)	1	0.0068J	<0.0100	0.0029J	0.0033J
Iron	(mg/l)	5	**6.35**	**9.78**	**8.20**	**11.2S**
Iron (Dissolved)	(mg/l)	5	**5.55S**	**6.80**	**7.05S**	**6.29**
Lead	(mg/l)	0.0075	0.0009J	0.0031	0.0012J	0.0037
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	(mg/l)	0.1	0.0081J	0.0033J	0.0057J	0.0108

See Notes at End of Table

Appendix E-2
Four Quarters of Groundwater Analytical Results
Metals (Total and Dissolved)
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	MP-92D DUP-002/060711 07/11/2006 Duplicate 1	MP-92D MP-92D/061011 10/11/2006 Primary	MP-92D MP-92D/070116 01/16/2007 Primary	MP-92D MP-92D/070416 04/16/2007 Primary
Nickel (Dissolved)	(mg/l)	0.1	0.0062J	<0.0100	0.0038J	<0.0100
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	0.0136
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100
Zinc	(mg/l)	5	0.0079J	0.0084J	0.0138	0.0244
Zinc (Dissolved)	(mg/l)	5	0.0038J	<0.0100	0.0033J	0.0037J

See Notes at End of Table

NOTES

TABLES E-1, E-2 and E-3

Data prior to 2nd Quarter 2006 is provided in the Quarterly Groundwater Monitoring Report April 2006 dated August 8, 2006.

Comparison values are Tier 1 Class 1 Groundwater Remediation Objectives from Illinois EPA's Tiered Approach to Corrective Action Objectives (35 IAC Part 742) last amended February 15, 2007. Groundwater quality values listed in 35 IAC Part 742 used for comparison purposes only.

mg/L = Milligrams per liter.

µg/L = Micrograms per liter.

J = Estimated value. Compound detected below the practical quantitation limit (PQL).

NA = Constituent not analyzed by laboratory.

B = Analyte detected in the associated Method Blank.

R = RPD outside accepted recovery limits.

S = Spike Recovery outside accepted recovery limits.

APPENDIX E-3

GENERAL CHEMISTRY AND NATURAL ATTENUATION PARAMETERS

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HMW-25/060407 04/07/2006 Primary	HMW-25 HMW-25/060710 07/10/2006 Primary	HMW-25 HMW-25/061011 10/11/2006 Primary	HMW-25 HMW-25/070115 01/15/2007 Primary	HMW-25 DUP-001/070115 01/15/2007 Duplicate 1
Alkalinity (as CaCO3)	(mg/l)		460	472	452	476	472
Ammonia (as N)	(mg/l)		<0.10	<0.10S	<0.10	<0.10	<0.10
Chloride	(mg/l)	200	62	98	85	78	77
COD	(mg/l)		<20	9J	<20	12J	10J
Cyanide	(mg/l)	0.2	<0.050	<0.007	<0.007	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		420	530	500	510	500
Nitrate (as N)	(mg/l)	10	0.010J	0.118	0.298	0.171	0.138
Nitrate Plus Nitrite (as N)	(mg/l)		0.010J	0.118	0.303	0.176	0.143
Nitrite (as N)	(mg/l)		<0.010	<0.010	<0.010	<0.010	<0.010
Phosphorus	(mg/l)		0.023S	<0.020	0.019J	<0.020	0.022
Phosphorus (Dissolved)	(mg/l)		<0.020	<0.020	<0.020	<0.020	0.013J
Sulfate	(mg/l)	400	<40	50	50	66	62
Sulfide	(mg/l)		<0.05	<0.05	<0.05	<0.05	<0.05
Total dissolved solids (TDS)	(mg/l)		658	684	608	680	690
Total Organic Carbon	(mg/l)		1.5	1.9	1.9	0.7J	0.7J
Total suspended solids	(mg/l)		9	<6	<6	<6	<6

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HWM-25/070413 04/13/2007 Primary	HMW-25 DUP-001/070413 04/13/2007 Duplicate 1	HMW-26 HMW-26/060407 04/07/2006 Primary	HMW-26 HMW-26/060710 07/10/2006 Primary	HMW-26 HMW-26/060711 07/11/2006 Primary
Alkalinity (as CaCO3)	(mg/l)		432	436	604	586	NA
Ammonia (as N)	(mg/l)		<0.10	<0.10	0.29	NA	0.21
Chloride	(mg/l)	200	67	66	109S	84	NA
COD	(mg/l)		<20	<20	<20	NA	24
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.050	<0.007	NA
Hardness (as CaCO3)	(mg/l)		460	400	840	740	NA
Nitrate (as N)	(mg/l)	10	<0.050	0.027J	0.073	NA	0.012J
Nitrate Plus Nitrite (as N)	(mg/l)		<0.050	0.027J	0.073	NA	0.012J
Nitrite (as N)	(mg/l)		<0.050	<0.050	<0.010	<0.010	NA
Phosphorus	(mg/l)		<0.018	<0.018	0.342	NA	0.367
Phosphorus (Dissolved)	(mg/l)		<0.018	<0.018	0.325	0.345	NA
Sulfate	(mg/l)	400	40	42	135	148	NA
Sulfide	(mg/l)		0.04J	0.08	0.02J	<0.05	NA
Total dissolved solids (TDS)	(mg/l)		618	620	1030	954	NA
Total Organic Carbon	(mg/l)		0.7J	0.9J	2.5	2.8	NA
Total suspended solids	(mg/l)		<6	<6	79	38	NA

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-26 HMW-26/061011 10/11/2006 Primary	HMW-26 DUP-001/061011 10/11/2006 Duplicate 1	HMW-26 HMW-26/070115 01/15/2007 Primary	HMW-26 HMW-26/070413 04/13/2007 Primary	HMW-27 HMW-27/060406 04/06/2006 Primary
Alkalinity (as CaCO3)	(mg/l)		598	600	602	598	640
Ammonia (as N)	(mg/l)		0.28	0.27S	0.15	0.29	<0.10
Chloride	(mg/l)	200	120	125	108S	**201**	20S
COD	(mg/l)		<20	<20	30	17J	<20
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.007	<0.007	<0.050
Hardness (as CaCO3)	(mg/l)		780	760	790	1070	760
Nitrate (as N)	(mg/l)	10	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate Plus Nitrite (as N)	(mg/l)		<0.050	<0.050	<0.050	<0.050	<0.050
Nitrite (as N)	(mg/l)		<0.010	<0.010	<0.010	0.025J	<0.010
Phosphorus	(mg/l)		0.384	0.392	0.383	0.252	0.033
Phosphorus (Dissolved)	(mg/l)		0.347	0.381	0.356	0.247	0.013J
Sulfate	(mg/l)	400	207	205	182	**550**	178S
Sulfide	(mg/l)		0.05J	0.02J	<0.05	0.02J	<0.05
Total dissolved solids (TDS)	(mg/l)		1030	1060	1090	1580	912
Total Organic Carbon	(mg/l)		3.1	3.0	1.6	1.4	2.8
Total suspended solids	(mg/l)		46	36	39	37	<6

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-27 HMW-27/060710 07/10/2006 Primary	HMW-27 HMW-27/061012 10/12/2006 Primary	HMW-27 HMW-27/070115 01/15/2007 Primary	HMW-27 HMW-27/070413 04/13/2007 Primary	HMW-28 HMW-28/060406 04/06/2006 Primary
Alkalinity (as CaCO3)	(mg/l)		614	592	614	628	544
Ammonia (as N)	(mg/l)		<0.10	<0.10	<0.10	<0.10	<0.10
Chloride	(mg/l)	200	48	44	24	18	33
COD	(mg/l)		48	<20	30	<20	<20
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.007	<0.007	<0.050
Hardness (as CaCO3)	(mg/l)		870	870	840	720	570
Nitrate (as N)	(mg/l)	10	0.069	0.012J	0.052	<0.050	0.306
Nitrate Plus Nitrite (as N)	(mg/l)		0.069	0.019J	0.055	<0.050	0.324
Nitrite (as N)	(mg/l)		<0.010	<0.010	<0.010	<0.050	0.018
Phosphorus	(mg/l)		0.036	<0.020B	0.042	0.162	0.015J
Phosphorus (Dissolved)	(mg/l)		<0.020	<0.020	0.025	<0.018	0.013J
Sulfate	(mg/l)	400	282	239	139	109	63
Sulfide	(mg/l)		<0.05	<0.05	<0.05	0.04JS	<0.05
Total dissolved solids (TDS)	(mg/l)		1070	1090	856	800	714
Total Organic Carbon	(mg/l)		4.4	3.8	2.7	2.7	3.6
Total suspended solids	(mg/l)		<6	<6	<6	7	<6

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-28 HMW-28/060710 07/10/2006 Primary	HMW-28 Dup-001/060710 07/10/2006 Duplicate 1	HMW-28 HMW-28/061012 10/12/2006 Primary	HMW-28 HMW-28/070115 01/15/2007 Primary	HMW-28 HMW-28/070413 04/13/2007 Primary
Alkalinity (as CaCO3)	(mg/l)		558	544	550	534	520
Ammonia (as N)	(mg/l)		<0.10	<0.10	0.13	<0.10S	<0.10
Chloride	(mg/l)	200	24	24	29	30	27S
COD	(mg/l)		14J	19J	<20	21	12J
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.007	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		660	600	630	610	680
Nitrate (as N)	(mg/l)	10	1.24	1.32	1.43	2.18	0.797
Nitrate Plus Nitrite (as N)	(mg/l)		1.32	1.42	1.52	2.25	0.861S
Nitrite (as N)	(mg/l)		0.083	0.101	0.093	0.089	0.064S
Phosphorus	(mg/l)		<0.020	<0.020	<0.020	0.035	0.029
Phosphorus (Dissolved)	(mg/l)		0.013J	<0.020	<0.022	0.012J	<0.018
Sulfate	(mg/l)	400	69	64	71	79	101
Sulfide	(mg/l)		<0.05	<0.05	<0.05	<0.05	0.08
Total dissolved solids (TDS)	(mg/l)		696	706	718	698	720
Total Organic Carbon	(mg/l)		4.1	4.1	4.0	3.3	2.6
Total suspended solids	(mg/l)		<6	<6	<6	<6	<6

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 HMW-29/060406 04/06/2006 Primary	HMW-29 DUP-001/060406 04/06/2006 Duplicate 1	HMW-29 HMW-29/060710 07/10/2006 Primary	HMW-29 HMW-29/061012 10/12/2006 Primary	HMW-29 HMW-29/070116 01/16/2007 Primary
Alkalinity (as CaCO3)	(mg/l)		492	478	500	460	478
Ammonia (as N)	(mg/l)		0.07J	0.08J	0.09J	0.08J	<0.10
Chloride	(mg/l)	200	17	17	5	17	13
COD	(mg/l)		<20	<20	12J	<20	<20
Cyanide	(mg/l)	0.2	<0.050	<0.050	<0.007	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		540	510	460	620	530
Nitrate (as N)	(mg/l)	10	<0.050	<0.050	<0.050	0.051S	<0.050
Nitrate Plus Nitrite (as N)	(mg/l)		<0.050	<0.050	<0.050	0.056S	<0.050
Nitrite (as N)	(mg/l)		<0.010	<0.010	<0.010	<0.010	<0.010
Phosphorus	(mg/l)		0.110	0.103	0.173	0.116	0.074
Phosphorus (Dissolved)	(mg/l)		0.084	0.079	0.061	0.089	0.072
Sulfate	(mg/l)	400	72	74	47	65	84
Sulfide	(mg/l)		0.03J	<0.05	<0.05	<0.05	<0.05
Total dissolved solids (TDS)	(mg/l)		636	648	588	616	608
Total Organic Carbon	(mg/l)		0.9J	1.2	1.6	1.6	1.1
Total suspended solids	(mg/l)		20	16	48	20	14

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 HMW-29/070416 04/16/2007 Primary	HMW-39B HMW-39B/060406 04/06/2006 Primary	HMW-39B HMW-39B/060710 07/10/2006 Primary	HMW-39B HMW-39B/061010 10/10/2006 Primary	HMW-39B HMW-39B/070115 01/15/2007 Primary
Alkalinity (as CaCO3)	(mg/l)		472	307	263	255	362
Ammonia (as N)	(mg/l)		0.10J	<0.10	0.16	<0.10	<0.10
Chloride	(mg/l)	200	15	**207**	**249**	**201**	153
COD	(mg/l)		<20	<20	74	10J	16J
Cyanide	(mg/l)	0.2	<0.007S	<0.050	<0.007	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		560	280	310	230	330
Nitrate (as N)	(mg/l)	10	<0.050	0.448	0.101	0.055	0.732
Nitrate Plus Nitrite (as N)	(mg/l)		0.014J	0.448	0.101	0.055	0.732
Nitrite (as N)	(mg/l)		0.020JS	<0.010	<0.010	<0.010	<0.010
Phosphorus	(mg/l)		0.145	<0.020	1.78	0.134	0.050
Phosphorus (Dissolved)	(mg/l)		0.078	<0.020	0.011J	0.019J	<0.020
Sulfate	(mg/l)	400	159	<40	<40	<40	54
Sulfide	(mg/l)		<0.05SR	<0.05	0.47S	0.09S	<0.05
Total dissolved solids (TDS)	(mg/l)		746	700	628	574	632
Total Organic Carbon	(mg/l)		10.7SR	1.5	2.1	2.2	0.9J
Total suspended solids	(mg/l)		29	<6	3280	301	<6

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-39B HMW-39B/070413 04/13/2007 Primary	HMW-39C HMW-39C/060406 04/06/2006 Primary	HMW-39C HMW-39C/060711 07/11/2006 Primary	HMW-39C HMW-39C/061011 10/11/2006 Primary	HMW-39C HMW-39C/070115 01/15/2007 Primary
Alkalinity (as CaCO3)	(mg/l)		300	248	258	258	255
Ammonia (as N)	(mg/l)		<0.10	0.32	0.27	0.28	<0.12
Chloride	(mg/l)	200	**296**	185	173	**205**	**220**
COD	(mg/l)		28	8J	19J	<20	23
Cyanide	(mg/l)	0.2	<0.007	<0.050	<0.007	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		310	240	290	280	330
Nitrate (as N)	(mg/l)	10	0.693	<0.050	0.036J	<0.050	0.013J
Nitrate Plus Nitrite (as N)	(mg/l)		0.693S	<0.050	0.036J	<0.050	0.016J
Nitrite (as N)	(mg/l)		<0.050S	<0.010	<0.010	<0.010	<0.010
Phosphorus	(mg/l)		<0.018	0.353	0.332	0.352	0.337
Phosphorus (Dissolved)	(mg/l)		<0.018	0.243	0.286	0.312	0.235
Sulfate	(mg/l)	400	26	<40	<40	<40	48
Sulfide	(mg/l)		0.05JS	0.02J	<0.05	0.02J	<0.05
Total dissolved solids (TDS)	(mg/l)		724	614	590	614	606
Total Organic Carbon	(mg/l)		<1.0	1.7	1.9	1.7	0.6J
Total suspended solids	(mg/l)		<6	24	6	18	9

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-39C DUP-001/070115 01/15/2007 Duplicate 1	HMW-39C HMW-39C/070416 04/16/2007 Primary	HMW-40C HMW-40C/060406 04/06/2006 Primary	HMW-40C HMW-40C/060711 07/11/2006 Primary	HMW-40C HMW-40C/061010 10/10/2006 Primary
Alkalinity (as CaCO3)	(mg/l)		252	245	446	400	408
Ammonia (as N)	(mg/l)		0.14	0.33	0.11	<0.10	0.17
Chloride	(mg/l)	200	**219**	133	27	18	25
COD	(mg/l)		23	<20	<20	9J	10J
Cyanide	(mg/l)	0.2	<0.007	<0.007	0.004J	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		290	210	480	430	430
Nitrate (as N)	(mg/l)	10	<0.050	0.019J	<0.050	0.156	0.022J
Nitrate Plus Nitrite (as N)	(mg/l)		0.011J	0.019J	<0.050	0.195	0.027J
Nitrite (as N)	(mg/l)		<0.010	<0.050	<0.010	0.039	<0.010
Phosphorus	(mg/l)		0.317	0.404	0.133	0.085	0.522
Phosphorus (Dissolved)	(mg/l)		0.235	0.310	0.023	<0.020	0.011J
Sulfate	(mg/l)	400	46	14	<40	<40	<40
Sulfide	(mg/l)		<0.05	<0.05	0.07	<0.05	0.05J
Total dissolved solids (TDS)	(mg/l)		612	468	572	454	510
Total Organic Carbon	(mg/l)		0.5J	2.2	2.7	2.7	4.6
Total suspended solids	(mg/l)		8	23	82	39	199

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-40C DUP-002/061010 10/10/2006 Duplicate 1	HMW-40C HMW-40C/070116 01/16/2007 Primary	HMW-40C HMW-40C/070413 04/13/2007 Primary	HMW-40C DUP-001/070413 04/13/2007 Duplicate 1	HMW-49B HMW-49B/060406 04/06/2006 Primary
Alkalinity (as CaCO3)	(mg/l)		424	424	386	390	772
Ammonia (as N)	(mg/l)		0.09J	<0.10	<0.10	<0.10	0.13
Chloride	(mg/l)	200	24	18	15	14	**350**
COD	(mg/l)		8J	16J	17J	12J	65
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.007	<0.007	<0.050
Hardness (as CaCO3)	(mg/l)		460	480	370	360	1180
Nitrate (as N)	(mg/l)	10	0.015J	0.098	0.818H	0.974	<0.050
Nitrate Plus Nitrite (as N)	(mg/l)		0.020J	0.129	0.836H	0.991	<0.050
Nitrite (as N)	(mg/l)		<0.010	0.040	0.018JH	0.017J	<0.010
Phosphorus	(mg/l)		0.180	0.446	0.045	0.035	0.596
Phosphorus (Dissolved)	(mg/l)		0.015J	<0.020	<0.018	<0.018	0.424
Sulfate	(mg/l)	400	<40	50	265	313	<40
Sulfide	(mg/l)		<0.05	0.46S	0.02JS	0.02J	0.06S
Total dissolved solids (TDS)	(mg/l)		504	490	454	446	1650
Total Organic Carbon	(mg/l)		3.1	3.5	1.9	2.2	4.4
Total suspended solids	(mg/l)		82	156	27	28	116

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-49B HMW-49B/070115 01/15/2007 Primary	HMW-49B HMW-49B/070416 04/16/2007 Primary	HMW-49C HMW-49C/060406 04/06/2006 Primary	HMW-49C HMW-49C/060710 07/10/2006 Primary	HMW-49C HMW-49C/061011 10/11/2006 Primary
Alkalinity (as CaCO3)	(mg/l)		746	846	502	482	506
Ammonia (as N)	(mg/l)		<0.10	0.09J	0.19	0.06JS	<0.10
Chloride	(mg/l)	200	**457S**	**409**	7	14	8
COD	(mg/l)		64	68	93	55	72
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.050	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		1080	1130	440	470	470
Nitrate (as N)	(mg/l)	10	<0.050	<0.050	0.010JS	<0.050	0.010J
Nitrate Plus Nitrite (as N)	(mg/l)		<0.050	0.020J	0.010JS	<0.050	0.010J
Nitrite (as N)	(mg/l)		<0.010	0.042J	<0.010	<0.010	<0.010
Phosphorus	(mg/l)		0.659	1.17S	0.483	0.918	0.552
Phosphorus (Dissolved)	(mg/l)		0.624	1.12	0.451	0.837	0.366
Sulfate	(mg/l)	400	47S	72	<40	<40	<40
Sulfide	(mg/l)		0.40	0.22	0.16S	0.04JS	0.11S
Total dissolved solids (TDS)	(mg/l)		1500	1730	542	524	526
Total Organic Carbon	(mg/l)		1.3	2.8	6.6	7.6S	9.4
Total suspended solids	(mg/l)		24	59	429	55	77

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-49C HMW-49C/070116 01/16/2007 Primary	HMW-49C HMW-49C/070416 04/16/2007 Primary	HMW-49D HMW-49D/060406 04/06/2006 Primary	HMW-49D DUP-001/060406 04/06/2006 Duplicate 1	HMW-49D HMW-49D/060710 07/10/2006 Primary
Alkalinity (as CaCO3)	(mg/l)		504	510	510	526	528
Ammonia (as N)	(mg/l)		0.07J	0.40	0.22	0.20S	0.18
Chloride	(mg/l)	200	8	32	40	40	37
COD	(mg/l)		145	94	28	41	41
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.050	<0.050	<0.007
Hardness (as CaCO3)	(mg/l)		440	430	460	490	500
Nitrate (as N)	(mg/l)	10	0.028J	0.022J	0.017J	<0.050	0.027J
Nitrate Plus Nitrite (as N)	(mg/l)		0.032J	0.022J	0.017J	0.015J	0.060
Nitrite (as N)	(mg/l)		<0.010	<0.050	<0.010	0.010	0.033
Phosphorus	(mg/l)		0.443	0.340	0.606	0.617	0.672
Phosphorus (Dissolved)	(mg/l)		0.258	0.172	0.449	0.480	0.663
Sulfate	(mg/l)	400	<40	8	<40	<40	<40
Sulfide	(mg/l)		0.87S	0.12	0.03J	0.03J	0.04JS
Total dissolved solids (TDS)	(mg/l)		528	564	616	622	594
Total Organic Carbon	(mg/l)		8.9	17.5	6.0	5.9	5.0
Total suspended solids	(mg/l)		180	199	69	65	103

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-49D Dup-001/060710 07/10/2006 Duplicate 1	HMW-49D HMW-49D/061010 10/10/2006 Primary	HMW-49D DUP-003/061010 10/10/2006 Duplicate 1	HMW-49D HMW-49D/070116 01/16/2007 Primary	HMW-49D HMW-49D/070416 04/16/2007 Primary
Alkalinity (as CaCO3)	(mg/l)		520	530	412	534	564
Ammonia (as N)	(mg/l)		0.19	0.20	0.21	0.15	0.20
Chloride	(mg/l)	200	37	47	50	45	43
COD	(mg/l)		45	18J	20	26	19J
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.007	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		540	500	520	560	500
Nitrate (as N)	(mg/l)	10	0.323	0.079	0.336	<0.050	0.017J
Nitrate Plus Nitrite (as N)	(mg/l)		0.363	0.079	0.336	<0.050	0.040J
Nitrite (as N)	(mg/l)		0.040	<0.010	<0.010	<0.010	0.023J
Phosphorus	(mg/l)		0.685	0.551	0.726	0.502	0.612
Phosphorus (Dissolved)	(mg/l)		0.628	0.432	0.381	0.620	0.510
Sulfate	(mg/l)	400	<40	<40	<40	55	7
Sulfide	(mg/l)		0.03JS	0.05	0.05J	0.08	0.02J
Total dissolved solids (TDS)	(mg/l)		600	624	628	610	632
Total Organic Carbon	(mg/l)		5.0	4.4	4.4	4.2	5.0
Total suspended solids	(mg/l)		116	64	57	114	56

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-50A HMW-50A/060407 04/07/2006 Primary	HMW-50A HMW-50A/060711 07/11/2006 Primary	HMW-50A HMW-50A/061010 10/10/2006 Primary	HMW-50A HMW-50A/070116 01/16/2007 Primary	HMW-50A HMW-50A/070413 04/13/2007 Primary
Alkalinity (as CaCO3)	(mg/l)		478	500	498	408	430
Ammonia (as N)	(mg/l)		<0.10	<0.10	<0.10	<0.10	<0.10
Chloride	(mg/l)	200	20S	23	26	15	13
COD	(mg/l)		<20	9J	<20	<20	24
Cyanide	(mg/l)	0.2	<0.050	<0.007	<0.007	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		830	940	920	630	590
Nitrate (as N)	(mg/l)	10	1.23	0.871	0.750	3.53	2.92H
Nitrate Plus Nitrite (as N)	(mg/l)		1.23	0.871	0.773	3.54	2.92H
Nitrite (as N)	(mg/l)		<0.010	<0.010	0.023	<0.010	<0.050H
Phosphorus	(mg/l)		0.183	0.277	0.233	0.205	0.233
Phosphorus (Dissolved)	(mg/l)		0.149	0.219	0.118	0.169	0.181
Sulfate	(mg/l)	400	306	**475**	**513**	279	327
Sulfide	(mg/l)		0.03JS	<0.05	0.03JS	0.04JS	0.08
Total dissolved solids (TDS)	(mg/l)		1150	1240	1260	862	858
Total Organic Carbon	(mg/l)		2.7	2.5	2.6	2.6	2.5
Total suspended solids	(mg/l)		9	57	13	23	25

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-50B HMW-50B/060406 04/06/2006 Primary	HMW-50B HMW-50B/060711 07/11/2006 Primary	HMW-50B HMW-50B/061010 10/10/2006 Primary	HMW-50B HMW-50B/070115 01/15/2007 Primary	HMW-50B DUP-002/0701115 01/15/2007 Duplicate 1
Alkalinity (as CaCO3)	(mg/l)		241	271	220	293	285
Ammonia (as N)	(mg/l)		2.01	1.83	1.92	1.53	1.57
Chloride	(mg/l)	200	**286**	**432**	**287**	**408**	**385**
COD	(mg/l)		23	26	35	55	97
Cyanide	(mg/l)	0.2	<0.050	<0.007	<0.007	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		770	920	710	1010	840
Nitrate (as N)	(mg/l)	10	<0.050	0.013J	0.010J	0.922	0.238
Nitrate Plus Nitrite (as N)	(mg/l)		<0.050	0.013J	0.010J	0.922	0.241
Nitrite (as N)	(mg/l)		<0.010	<0.010	<0.010	<0.010	<0.010
Phosphorus	(mg/l)		0.505	0.483	0.529	0.305	0.388
Phosphorus (Dissolved)	(mg/l)		0.330	0.285	0.347	0.077	0.081
Sulfate	(mg/l)	400	395	398	360	392	375
Sulfide	(mg/l)		0.03J	<0.05	0.08	0.03J	0.12S
Total dissolved solids (TDS)	(mg/l)		1300	1650	1280	1550	1500
Total Organic Carbon	(mg/l)		1.7	1.8	1.9	<1.0	<1.0S
Total suspended solids	(mg/l)		28	65	35	88	104

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-50B HMW-50B/070413 04/13/2007 Primary	HMW-50C HMW-50C/060407 04/07/2006 Primary	HMW-50C HMW-50C/060710 07/10/2006 Primary	HMW-50C HMW-50C/061009 10/09/2006 Primary	HMW-50C HMW-50C/070116 01/16/2007 Primary
Alkalinity (as CaCO3)	(mg/l)		290	422	560	592	568
Ammonia (as N)	(mg/l)		1.90	0.73	0.42	0.41	0.48
Chloride	(mg/l)	200	**399**	**806**	**480**	**639S**	**439**
COD	(mg/l)		52	60	55	62	51
Cyanide	(mg/l)	0.2	<0.007	<0.050	<0.007	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		1100	1110	910	1090	770
Nitrate (as N)	(mg/l)	10	0.658	<0.050	0.013J	0.012J	<0.050
Nitrate Plus Nitrite (as N)	(mg/l)		0.670	<0.050	0.013J	0.012J	<0.050
Nitrite (as N)	(mg/l)		0.012J	<0.010	<0.010	<0.010	<0.010
Phosphorus	(mg/l)		0.565	0.443	0.804	0.845	0.438
Phosphorus (Dissolved)	(mg/l)		0.471	0.441	0.762	0.868	0.748
Sulfate	(mg/l)	400	339	268	66	64	89
Sulfide	(mg/l)		0.01JS	1.9	8.2	20	4.9
Total dissolved solids (TDS)	(mg/l)		1540	2700	1700	1840	1290
Total Organic Carbon	(mg/l)		0.5J	1.6	2.3	2.0S	1.0J
Total suspended solids	(mg/l)		43	48	29	10	13

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-50C HMW-50C/070416 04/16/2007 Primary	HMW-50C DUP-002/070416 04/16/2007 Duplicate 1	HMW-52C HMW-52C/060407 04/07/2006 Primary	HMW-52C HMW-52C/060710 07/10/2006 Primary	HMW-52C HMW-52C/061010 10/10/2006 Primary
Alkalinity (as CaCO3)	(mg/l)		506	510	574	586	464
Ammonia (as N)	(mg/l)		0.80	0.78	0.18	0.18	0.19
Chloride	(mg/l)	200	**423**	**406S**	29	34	36
COD	(mg/l)		45	31	37	50	<20
Cyanide	(mg/l)	0.2	<0.007	<0.007	**0.242**	**0.404**	**0.389**
Hardness (as CaCO3)	(mg/l)		830	770	710	740	680
Nitrate (as N)	(mg/l)	10	0.019J	0.019J	<0.050	0.062	0.013J
Nitrate Plus Nitrite (as N)	(mg/l)		0.019J	0.019J	<0.050	0.062	0.013J
Nitrite (as N)	(mg/l)		<0.050	<0.050S	<0.010	<0.010	<0.010
Phosphorus	(mg/l)		0.708	0.702	0.455	0.614	0.326
Phosphorus (Dissolved)	(mg/l)		0.697	0.623	0.227	0.195	0.174
Sulfate	(mg/l)	400	134	126	118	136	144
Sulfide	(mg/l)		0.44	0.90	0.20S	0.25S	0.08S
Total dissolved solids (TDS)	(mg/l)		1470	1410	876	850	874
Total Organic Carbon	(mg/l)		2.1	2.6	3.3	2.7	2.3
Total suspended solids	(mg/l)		33	32	767	626	152

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-52C HMW-52C/070117 01/17/2007 Primary	HMW-52C HMW-52C/070413 04/13/2007 Primary	MP-81C MP-81C/060406 04/06/2006 Primary	MP-81C DUP-002/060406 04/06/2006 Duplicate 1	MP-81C HMW-81C/060711 07/11/2006 Primary
Alkalinity (as CaCO3)	(mg/l)		610	626	590	590	584
Ammonia (as N)	(mg/l)		0.13	0.26	0.19	0.15	0.08J
Chloride	(mg/l)	200	40S	72	45	45	55
COD	(mg/l)		23	73	21	8J	<20
Cyanide	(mg/l)	0.2	**0.375**	0.109	<0.050	<0.050	<0.007
Hardness (as CaCO3)	(mg/l)		830	720	690	690	770
Nitrate (as N)	(mg/l)	10	0.010J	0.022J	1.58	0.989	0.358
Nitrate Plus Nitrite (as N)	(mg/l)		0.010J	0.050	1.58	0.989	0.358
Nitrite (as N)	(mg/l)		<0.010	0.028J	<0.010	<0.010	<0.010
Phosphorus	(mg/l)		0.429	0.878	0.049	0.031	0.011J
Phosphorus (Dissolved)	(mg/l)		0.148	0.180	<0.020	0.010J	<0.020
Sulfate	(mg/l)	400	127	77	139	127	163
Sulfide	(mg/l)		0.51S	0.41S	0.04J	0.02J	<0.05
Total dissolved solids (TDS)	(mg/l)		866	922	888	894	918
Total Organic Carbon	(mg/l)		1.8	1.9	2.0	1.6	1.7
Total suspended solids	(mg/l)		632	1100	21	7	<6

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	MP-81C MP-81C/061011 10/11/2006 Primary	MP-81C MP-81C/070116 01/16/2007 Primary	MP-81C MP-81C/070416 04/16/2007 Primary	MP-89C MP-89C/060406 04/06/2006 Primary	MP-89C MP-89C/060711 07/11/2006 Primary
Alkalinity (as CaCO3)	(mg/l)		600	584	596	310	319
Ammonia (as N)	(mg/l)		0.18	0.16	0.22	0.33	0.18
Chloride	(mg/l)	200	34	30	33	13	24
COD	(mg/l)		<20	<20	<20	161	29
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.007	<0.050	<0.007
Hardness (as CaCO3)	(mg/l)		750	700	640	820	820
Nitrate (as N)	(mg/l)	10	0.012J	<0.050	0.050	0.176	0.199
Nitrate Plus Nitrite (as N)	(mg/l)		0.017J	<0.050	0.050	0.176	0.312
Nitrite (as N)	(mg/l)		<0.010	<0.010	<0.050	<0.010	0.113
Phosphorus	(mg/l)		0.021	<0.020	0.035	2.89S	0.809
Phosphorus (Dissolved)	(mg/l)		<0.020	<0.020	0.031	1.04S	0.298
Sulfate	(mg/l)	400	188S	142	143	**496**	**553**
Sulfide	(mg/l)		<0.05	<0.05	0.02J	1.7S	0.08S
Total dissolved solids (TDS)	(mg/l)		838	854	858	1020	1120
Total Organic Carbon	(mg/l)		1.8	1.7	3.5	7.6	3.4
Total suspended solids	(mg/l)		<6	<6	21	1010	93

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	MP-89C MP-89C/061011 10/11/2006 Primary	MP-89C MP-89C/070116 01/16/2007 Primary	MP-89C MP-89C/070416 04/16/2007 Primary	MP-92D MP-92D/060407 04/07/2006 Primary	MP-92D MP-92D/060711 07/11/2006 Primary
Alkalinity (as CaCO3)	(mg/l)		376	368	514	646	630
Ammonia (as N)	(mg/l)		0.22	0.17	0.24	0.08JS	0.06J
Chloride	(mg/l)	200	31	27	55	61	70
COD	(mg/l)		<20	48	52	18J	21
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.007	<0.050	<0.007
Hardness (as CaCO3)	(mg/l)		740	810	900	810	860
Nitrate (as N)	(mg/l)	10	0.036J	<0.050	0.096	<0.050	<0.050
Nitrate Plus Nitrite (as N)	(mg/l)		0.036J	<0.050	0.141	<0.050	<0.050
Nitrite (as N)	(mg/l)		<0.010	<0.010	0.045J	<0.010	<0.010
Phosphorus	(mg/l)		0.509	0.715	1.57	0.067SR	0.061
Phosphorus (Dissolved)	(mg/l)		0.331	0.267	0.232	0.016JSR	0.019J
Sulfate	(mg/l)	400	**449**	**591**	354	252	246
Sulfide	(mg/l)		0.04J	0.26S	0.20S	0.04JS	0.03JS
Total dissolved solids (TDS)	(mg/l)		1030	1160	1090	1130	1070
Total Organic Carbon	(mg/l)		2.9	8.2	4.5	3.1	3.1
Total suspended solids	(mg/l)		75	208	326	110	46

See Notes at End of Table

Appendix E-3
Four Quarters of Groundwater Analytical Results
General Chemistry and Natural Attenuation Parameters
2nd Quarter 2006 through 2nd Quarter 2007
The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PERIOD: From 04/06/2006 thru 04/16/2007 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	MP-92D DUP-002/060711 07/11/2006 Duplicate 1	MP-92D MP-92D/061011 10/11/2006 Primary	MP-92D MP-92D/070116 01/16/2007 Primary	MP-92D MP-92D/070416 04/16/2007 Primary
Alkalinity (as CaCO3)	(mg/l)		628	622	604	628
Ammonia (as N)	(mg/l)		0.04J	0.06J	<0.10	<0.10
Chloride	(mg/l)	200	69	66	70	59
COD	(mg/l)		17J	8J	10J	45
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		860	790	720	660
Nitrate (as N)	(mg/l)	10	<0.050	0.010J	<0.050	0.020J
Nitrate Plus Nitrite (as N)	(mg/l)		<0.050	0.015J	<0.050	0.020J
Nitrite (as N)	(mg/l)		<0.010	<0.010	0.010	<0.050
Phosphorus	(mg/l)		0.069	0.061	0.091	0.657
Phosphorus (Dissolved)	(mg/l)		0.019J	0.016J	0.028	0.061
Sulfate	(mg/l)	400	240	228	120	111
Sulfide	(mg/l)		<0.05	0.05S	0.10S	0.21S
Total dissolved solids (TDS)	(mg/l)		1070	1040	898	854
Total Organic Carbon	(mg/l)		2.9	2.4	1.1	2.5
Total suspended solids	(mg/l)		27	<6	44	281

See Notes at End of Table

NOTES

TABLES E-1, E-2 and E-3

Data prior to 2nd Quarter 2006 is provided in the Quarterly Groundwater Monitoring Report April 2006 dated August 8, 2006.

Comparison values are Tier 1 Class 1 Groundwater Remediation Objectives from Illinois EPA's Tiered Approach to Corrective Action Objectives (35 IAC Part 742) last amended February 15, 2007. Groundwater quality values listed in 35 IAC Part 742 used for comparison purposes only.

mg/L = Milligrams per liter.

µg/L = Micrograms per liter.

J = Estimated value. Compound detected below the practical quantitation limit (PQL).

NA = Constituent not analyzed by laboratory.

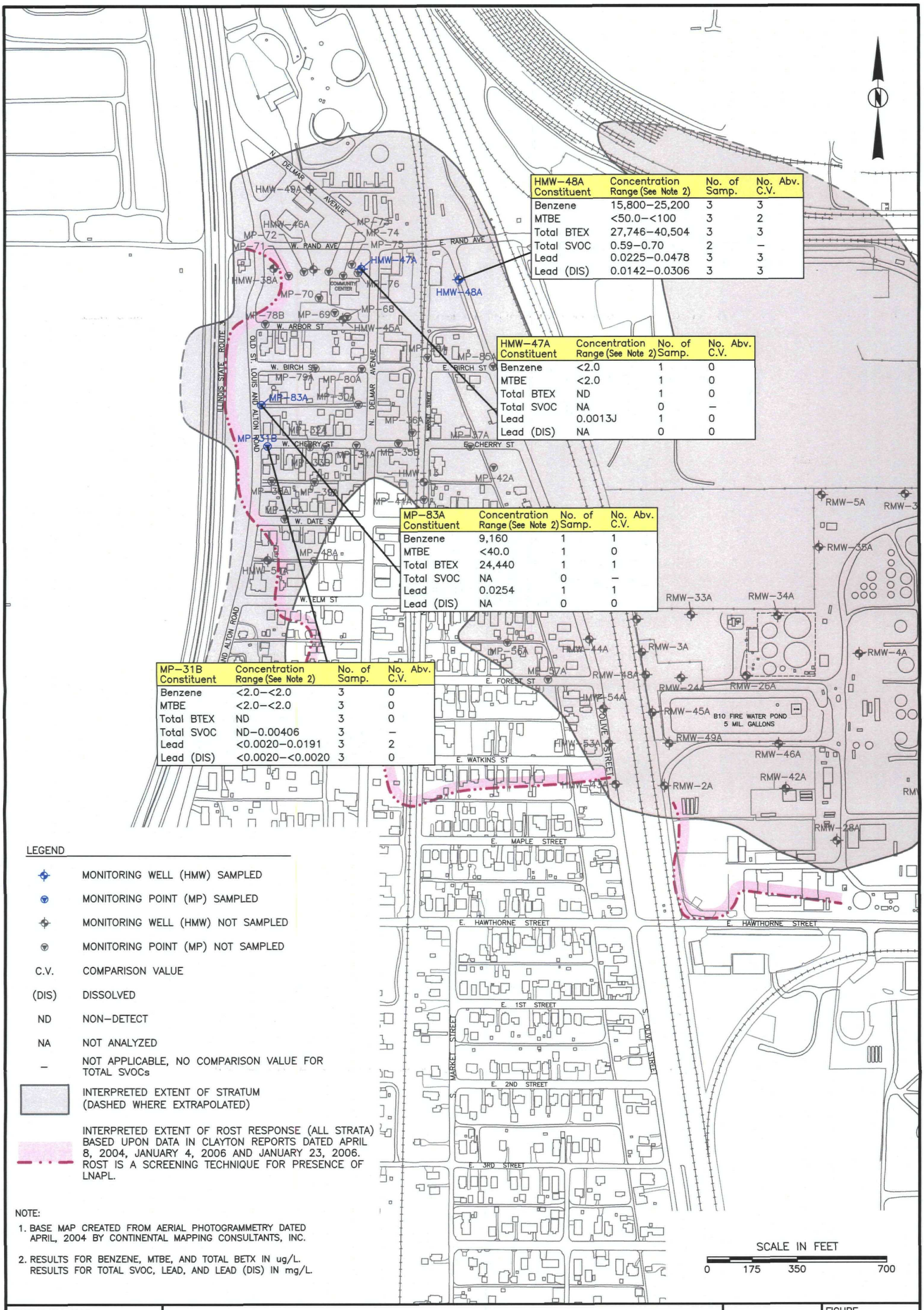
B = Analyte detected in the associated Method Blank.

R = RPD outside accepted recovery limits.

S = Spike Recovery outside accepted recovery limits.

APPENDIX F

HISTORIC SUMMARY FIGURES OF GROUNDWATER ANALYTICAL RESULTS, DECEMBER 2003 THROUGH APRIL 2007



HMW-48A Constituent	Concentration Range (See Note 2)	No. of Samp.	No. Abv. C.V.
Benzene	15,800–25,200	3	3
MTBE	<50.0–<100	3	2
Total BTEX	27,746–40,504	3	3
Total SVOC	0.59–0.70	2	–
Lead	0.0225–0.0478	3	3
Lead (DIS)	0.0142–0.0306	3	3

HMW-47A Constituent	Concentration Range (See Note 2)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0	1	0
MTBE	<2.0	1	0
Total BTEX	ND	1	0
Total SVOC	NA	0	–
Lead	0.0013J	1	0
Lead (DIS)	NA	0	0

MP-83A Constituent	Concentration Range (See Note 2)	No. of Samp.	No. Abv. C.V.
Benzene	9,160	1	1
MTBE	<40.0	1	0
Total BTEX	24,440	1	1
Total SVOC	NA	0	–
Lead	0.0254	1	1
Lead (DIS)	NA	0	0

MP-31B Constituent	Concentration Range (See Note 2)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–<2.0	3	0
MTBE	<2.0–<2.0	3	0
Total BTEX	ND	3	0
Total SVOC	ND–0.00406	3	–
Lead	<0.0020–0.0191	3	2
Lead (DIS)	<0.0020–<0.0020	3	0

LEGEND

- MONITORING WELL (HMW) SAMPLED
- MONITORING POINT (MP) SAMPLED
- MONITORING WELL (HMW) NOT SAMPLED
- MONITORING POINT (MP) NOT SAMPLED
- C.V. COMPARISON VALUE
- (DIS) DISSOLVED
- ND NON–DETECT
- NA NOT ANALYZED
- – NOT APPLICABLE, NO COMPARISON VALUE FOR TOTAL SVOCs
- INTERPRETED EXTENT OF STRATUM (DASHED WHERE EXTRAPOLATED)
- INTERPRETED EXTENT OF ROST RESPONSE (ALL STRATA) BASED UPON DATA IN CLAYTON REPORTS DATED APRIL 8, 2004, JANUARY 4, 2006 AND JANUARY 23, 2006. ROST IS A SCREENING TECHNIQUE FOR PRESENCE OF LNAPL.

NOTE:

1. BASE MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.
2. RESULTS FOR BENZENE, MTBE, AND TOTAL BETX IN ug/L. RESULTS FOR TOTAL SVOC, LEAD, AND LEAD (DIS) IN mg/L.

CHECK BY	KDC
DRAWN BY	OS/BCP
DATE	6–5–07
SCALE	AS SHOWN
CAD NO.	0309514011w2
PRJ NO.	003095.17

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DECEMBER 2003 – APRIL 2007
NORTH OLIVE STRATUM
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

BUREAU VERITAS

FIGURE

F–1

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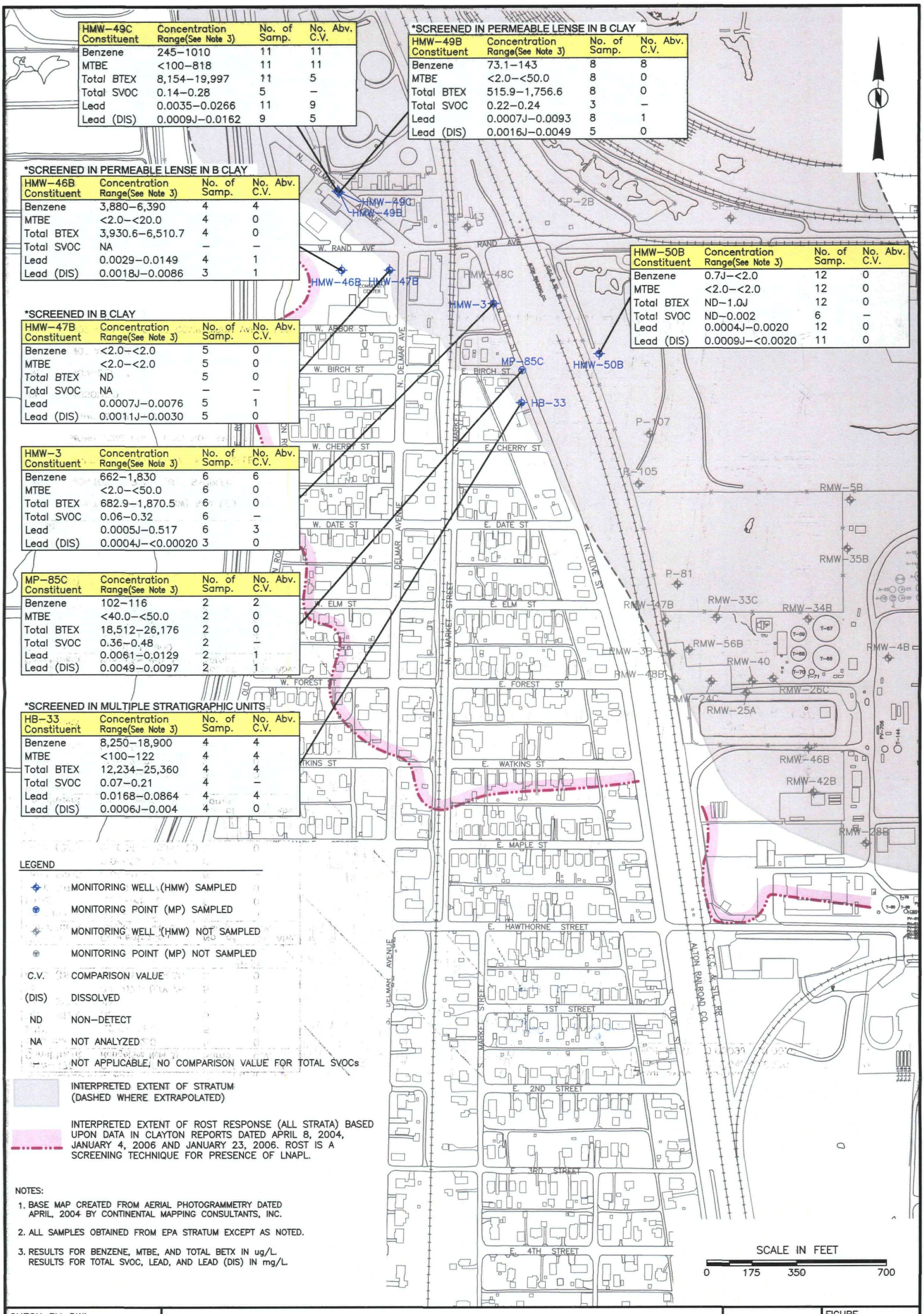

HMW-49C Constituent	Concentration Range(See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	245–1010	11	11
MTBE	<100–818	11	11
Total BTEX	8,154–19,997	11	5
Total SVOC	0.14–0.28	5	–
Lead	0.0035–0.0266	11	9
Lead (DIS)	0.0009J–0.0162	9	5

*SCREENED IN PERMEABLE LENSE IN B CLAY

HMW-49B Constituent	Concentration Range(See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	73.1–143	8	8
MTBE	<2.0–<50.0	8	0
Total BTEX	515.9–1,756.6	8	0
Total SVOC	0.22–0.24	3	–
Lead	0.0007J–0.0093	8	1
Lead (DIS)	0.0016J–0.0049	5	0

*SCREENED IN PERMEABLE LENSE IN B CLAY

HMW-46B Constituent	Concentration Range(See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	3,880–6,390	4	4
MTBE	<2.0–<20.0	4	0
Total BTEX	3,930.6–6,510.7	4	0
Total SVOC	NA	–	–
Lead	0.0029–0.0149	4	1
Lead (DIS)	0.0018J–0.0086	3	1

HMW-50B Constituent	Concentration Range(See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	0.7J–<2.0	12	0
MTBE	<2.0–<2.0	12	0
Total BTEX	ND–1.0J	12	0
Total SVOC	ND–0.002	6	–
Lead	0.0004J–0.0020	12	0
Lead (DIS)	0.0009J–<0.0020	11	0

*SCREENED IN B CLAY

HMW-47B Constituent	Concentration Range(See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	<2.0–<2.0	5	0
MTBE	<2.0–<2.0	5	0
Total BTEX	ND	5	0
Total SVOC	NA	–	–
Lead	0.0007J–0.0076	5	1
Lead (DIS)	0.0011J–0.0030	5	0

HMW-3 Constituent	Concentration Range(See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	662–1,830	6	6
MTBE	<2.0–<50.0	6	0
Total BTEX	682.9–1,870.5	6	0
Total SVOC	0.06–0.32	6	–
Lead	0.0005J–0.517	6	3
Lead (DIS)	0.0004J–<0.00020	3	0

MP-85C Constituent	Concentration Range(See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	102–116	2	2
MTBE	<40.0–<50.0	2	0
Total BTEX	18,512–26,176	2	0
Total SVOC	0.36–0.48	2	–
Lead	0.0061–0.0129	2	1
Lead (DIS)	0.0049–0.0097	2	1

*SCREENED IN MULTIPLE STRATIGRAPHIC UNITS

HB-33 Constituent	Concentration Range(See Note 3)	No. of Samp.	No. Abv. C.V.
Benzene	8,250–18,900	4	4
MTBE	<100–122	4	4
Total BTEX	12,234–25,360	4	4
Total SVOC	0.07–0.21	4	–
Lead	0.0168–0.0864	4	4
Lead (DIS)	0.0006J–0.004	4	0

LEGEND

- MONITORING WELL (HMW) SAMPLED
- MONITORING POINT (MP) SAMPLED
- MONITORING WELL (HMW) NOT SAMPLED
- MONITORING POINT (MP) NOT SAMPLED
- C.V. COMPARISON VALUE
- (DIS) DISSOLVED
- ND NON–DETECT
- NA NOT ANALYZED
- – NOT APPLICABLE, NO COMPARISON VALUE FOR TOTAL SVOCs
- INTERPRETED EXTENT OF STRATUM (DASHED WHERE EXTRAPOLATED)
- INTERPRETED EXTENT OF ROST RESPONSE (ALL STRATA) BASED UPON DATA IN CLAYTON REPORTS DATED APRIL 8, 2004, JANUARY 4, 2006 AND JANUARY 23, 2006. ROST IS A SCREENING TECHNIQUE FOR PRESENCE OF LNAPL.

NOTES:

1. BASE MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.
2. ALL SAMPLES OBTAINED FROM EPA STRATUM EXCEPT AS NOTED.
3. RESULTS FOR BENZENE, MTBE, AND TOTAL BETX IN ug/L. RESULTS FOR TOTAL SVOC, LEAD, AND LEAD (DIS) IN mg/L.

CHECK BY	DWL
DRAWN BY	OS/BCP
DATE	6–5–07
SCALE	AS SHOWN
CAD NO.	0309514011v2
PRJ NO.	003095.17

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DECEMBER 2003 – APRIL 2007
EPA STRATUM
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

BUREAU VERITAS

FIGURE

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