EPA Region 5 Records Ctr.
267673

Sentinel Wells
Quarterly Monitoring Report
October 2006

1190505040 -- Madison County -- ILR000128249
The Hartford Area Hydrocarbon Plume Site
Hartford, Illinois

December 6, 2006
Clayton Project No. 07003-003095.15-007

LICENSED PROFESSIONAL GEOLOGIST
MONTE M. NIENKERK
#196-000322
Monte M. Nienkerk
Expires 3/31/2007
ILLINOIS

Prepared for:
The Hartford Working Group
Hartford, Illinois

CLAYTON GROUP SERVICES, INC.
A Bureau Veritas Company
3140 Finley Road
Downers Grove, Illinois 60515
630.795.3200
www.us.bureauveritas.com

CONTENTS

Section		Page
1.0	INTRODUCTION	1
2.0	WELL GAUGING	2
3.0	GROUNDWATER SAMPLE COLLECTION	3
4.0	GROUNDWATER ANALYTICAL RESULTS	4
5.0	CONCLUSIONS	5
6.0	FUTURE ACTIVITIES	5
7.0	REFERENCES	7

Figures

1 Village of Hartford, IL and Surrounding Area Map

2 Northern Hartford Site Features Map – Village of Hartford, Illinois

3 Area of LNAPL Presence in All Strata

4 Groundwater Flow Map – October 4-6, 2006 – Main Sand

5 Low Flow Sampling Monitoring Well Sampling Pump/Tubing Intake

Tables

1 Summary of 2006 Quarterly Groundwater Elevations/Apparent LNAPL Thickness – Village of Hartford, Illinois

2 Compound/Analyte List for Sentinel Well Water Samples

3 Sample Container, Preservation, and Holding Time Requirements for Sentinel Well Water Samples

4 Summary of Groundwater Analytical Results for Sentinel Wells - BETX and MTBE

5 Summary of Groundwater Analytical Results for Sentinel Wells - Metals (Total and Dissolved)

CONTENTS
(Continued)

Tables *(Continued)*

6 Summary of Groundwater Analytical Results for Sentinel Wells - General Chemistry and Natural Attenuation Parameters

Appendices

A Monitoring Well Inspection Report

B Summary of Indicator Parameter Measurements – October 2006

1.0 INTRODUCTION

This quarterly monitoring report for the five sentinel wells located within Hartford, Illinois (Figure 1) was prepared by Clayton Group Services, Inc., *a Bureau Veritas Company* (Clayton), 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). The five sentinel wells (HMW-25 through HMW-29) were installed to monitor for the possible migration of Light Non-Aqueous Phase Liquid (LNAPL) toward the Hartford Well Head Protection Area (WHPA). The LNAPL is located within northern Hartford. The WHPA is the surface area near the two active Hartford municipal water supply wells, which are located in the southwestern portion of Hartford (McGuire et al. 2001). According to McGuire, et al. (2001), the WHPA may provide recharge to the aquifer over a five-year period. Figure 2 shows the location of the sentinel wells, the Hartford municipal water supply wells and the WHPA.

The monitoring and reporting work was done in accordance with the monitoring program developed under Paragraph 47 of the Administrative Order on Consent (AOC) with the U.S. Environmental Protection Agency (USEPA) in the Matter of The Hartford Area Hydrocarbon Plume Site (Docket No. R7003-5-04-001) (USEPA undated). Paragraph 47 of the AOC required that the five sentinel wells be sampled quarterly for one year, in accordance with the *Sentinel Wells Work Plan*, approved by the USEPA on November 21, 2003 (Clayton 2003).

The sentinel wells were first sampled in December 2003. Quarterly monitoring of the sentinel wells, for the required one-year period, commenced in April 2004. Subsequent quarterly monitoring was conducted in July and October 2004, and in January and April 2005. During these events, groundwater samples were analyzed for Skinner List parameters: volatile organic compounds; 1,4-dioxane; semi-volatile organic compounds; total metals; and total cyanide. In addition, groundwater samples were also analyzed for "General Chemistry" parameters such as alkalinity, chemical oxygen demand, chloride, hardness, sulfate, total dissolved solids, total sulfide, total suspended solids, and dissolved metals.

After completion of the first year of quarterly sentinel well monitoring, Clayton (2005a), on behalf of the HWG and in accordance with the AOC, presented recommendations for a revised groundwater monitoring program. These recommendations included a reduced laboratory groundwater analysis list.

On April 14, 2005, the USEPA and the Illinois Environmental Protection Agency (Agencies) agreed with the HWG that future sentinel well analytical parameters would consist of benzene, ethylbenzene, toluene and total xylenes (BETX), methyl tertiary butyl ether (MTBE), and Skinner List Metals (total and dissolved), starting with the July 2005 sampling event (Clayton 2005b).

This report presents the results of the October 2006 quarterly groundwater monitoring activities, which included a comprehensive well gauging event in Hartford. Discussions of the comprehensive well gauging, groundwater sample collection, groundwater analytical results, and conclusions are presented in Sections 2.0 through 5.0. Future activities and references are presented in Sections 6.0 and 7.0, respectively.

2.0 WELL GAUGING

The hydrogeology in northern Hartford consists of four hydrostratigraphic units identified in descending order as the North Olive Stratum, the Rand Stratum, and the EPA Stratum, all of which overlie the Main Sand (Clayton 2004a). 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 (Clayton 2005c). The A Clay forms the surface layer over the entirety of northern Hartford, while the B Clay separates the North Olive and Rand Strata. The C Clay separates the Rand and EPA Strata, and the D Clay separates the EPA and Main Sand Strata.

The sentinel wells are screened in the Main Sand, because the regional aquifer is within the Main Sand and the Hartford municipal water supply wells obtain water from 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 2005d) and the January 2006 *Dissolved Phase Groundwater Investigation Report* (Clayton 2006).

The fourth quarter 2006 well gauging event was performed in Hartford during the week of October 4, 2006. The sentinel wells were inspected and evaluated with respect to their continued suitability for both gauging and groundwater monitoring. The sentinel 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.

The gauging event was conducted to determine groundwater depths and apparent LNAPL thickness (if present) in order to determine groundwater flow directions and delineate the current horizontal extent of gauged LNAPL. The October 2006 groundwater and LNAPL gauging data from Hartford are summarized in Table 1. The area of LNAPL presence, in all strata, in the vicinity of the sentinel wells is shown in Figure 3.

The October 2006 groundwater elevation data for the Main Sand indicated the flow direction underlying Hartford was primarily northerly in the area of the sentinel wells (Figure 4). Hartford Municipal Well #3 was in operation at the time of the October gauging. The overall groundwater flow direction in October 2006 was consistent with historical interpretations.

The natural movement of groundwater (westerly) has been altered in the Hartford vicinity (i.e., Hartford, Roxana and Wood River) due to large-scale industrial water pumpage. The combined pumping rate in this area is greater than 10,000 gallons per minute according to Farmayan, et al. (1998). These withdrawals of water have created groundwater cones of depression in the vicinity of Hartford. In general, the effect of this drawdown is groundwater flow in the Main Sand to the north and northwest.

3.0 GROUNDWATER SAMPLE COLLECTION

Groundwater sample collection activities were conducted on October 11, 2006 for sentinel wells HMW-25 and HMW-26, and on October 12, 2006 for sentinel wells HMW-27, HMW-28, and HMW-29. Each well was purged and sampled using dedicated low-flow sampling pumps and polypropylene tubing, in accordance with Clayton's purging and sampling Standard Operating Procedure (SOP) 415a (Clayton 2005e). A flow chart illustrating the SOP 415a purging and sampling technique is presented in Figure 5. 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 Hartford, before removal by a waste disposal contractor.

Water quality 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 sample collection. The downloaded data logger indicator parameter records for the October 2006 event are included in Appendix B.

Quarterly groundwater samples were analyzed for BETX, MTBE, and Skinner List total and dissolved metals, as agreed to by the Agencies and the HWG on April 14, 2005 (Clayton 2005b). In addition, sentinel well groundwater samples were electively analyzed for General Chemistry parameters and, since October 2005, Natural Attenuation parameters. Specifically, these Natural Attenuation parameters include ammonia (as nitrogen "N"), carbon, nitrate, nitrate plus nitrite (as N), nitrite (as N), total phosphorus, and dissolved phosphorus. These parameters have been analyzed to develop a better understanding of background conditions. The practical quantitation limits and analytical methods are presented in Table 2. A list of required containers, with applicable preservation requirements (if appropriate) for each parameter, is presented in Table 3.

4.0 GROUNDWATER ANALYTICAL RESULTS

None of the sentinel well groundwater samples collected in October 2006 revealed the presence of any quantifiable concentrations of BETX or MTBE. Two groundwater samples from one of the sentinel wells (HMW-26 and its duplicate sample) contained an estimated concentration of MTBE at 0.9 micrograms per liter (µg/L). This estimated MTBE concentration is below the reporting limit (RL). The identification of an estimated concentration does not establish a definitive presence of any parameter in the sample. Only values above the RL can be considered to establish the presence of a particular parameter. Furthermore, MTBE has not been detected in northern Hartford in the vicinity of HMW-26 in previous sampling events.

The analytical results indicated eleven metals (antimony, arsenic, barium, cadmium, chromium, cobalt, iron, lead, nickel, vanadium, and zinc) were detected. With the exception of one constituent, the detected concentrations were below 35 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). Iron was detected at HMW-26 [22.1 milligrams per liter (mg/L) (total) and 21.8 mg/L (dissolved)] and HMW-29 [8.57 mg/L (total) and 7.01 (dissolved)] at concentrations exceeding the TACO GRO of 5.0 mg/L for this constituent.

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

Historical summaries of laboratory analytical results for BETX and MTBE, and Skinner List Metals, are presented in Tables 4 and 5, respectively. A historical summary of analytical results for the General Chemistry and Natural Attenuation parameters is presented in Table 6. The groundwater analytical results for the October 2006 quarterly sampling of the sentinel wells were consistent with historical observations. The laboratory analytical reports are maintained in Clayton's files at their Downers Grove, Illinois office. Copies of the analytical reports were uploaded to the site portal on November 3, 2006.

5.0 CONCLUSIONS

Based on a review of the groundwater analytical results, the sentinel wells have not been impacted by the LNAPL underlying northern Hartford. This conclusion is based on the fact that no BETX or MTBE constituents were detected at quantifiable concentrations, and the fact that none of the identified inorganic constituents were detected above applicable TACO Tier 1 GROs for Class I groundwater (with the exception of iron). The conclusion is also based on the groundwater flow mapping of the Main Sand, which shows flow in the area of the LNAPL plume in northern Hartford is to the north, away from the Hartford WHPA and the Hartford municipal water supply wells.

6.0 RECOMMENDATIONS AND FUTURE ACTIVITIES

The five sentinel wells have been monitored between December 2003 and October 2006 (12 quarters) for BETX, MTBE, and "Skinner List" total metals with "Skinner List" dissolved metals monitored from January 2005 to October 2006 (see Tables 4 and 5) (other parameters were also analyzed from December 2003 to April 2005, at which time a reduced laboratory groundwater analysis list was approved by the Agencies). The HWG has also electively sampled the five sentinel wells for general chemistry

parameters from October 2004 through October 2006, and natural attenuation parameters from October 2005 through October 2006 (see Table 6).

None of the Skinner List metals parameters, required by the AOC, have been detected in the sentinel wells at concentrations above comparison values (TACO Tier 1 GROs for Class I Groundwater) with the exception of total lead. A similar evaluation of these parameters, conducted as part of the site wide quarterly groundwater monitoring program for the site, indicates only arsenic and lead have exhibited concentrations above comparison values on a consistent, non-sporadic basis.

Based on the historical hydrocarbon and metals data, the HWG proposes for 2007 groundwater monitoring to reduce the metals analytes to only lead (total and dissolved) and arsenic (total and dissolved), and the frequency of sampling for general chemistry and natural attenuation parameters within the elective program from quarterly to annually (4th quarter only).

These modifications are based on the consistency of groundwater concentration data over the course of two years of quarterly groundwater monitoring and the relative insignificance of the general chemistry and natural attenuation indicator parameter data given the lack of quantifiable BTEX or MTBE concentrations in the sentinel wells and observed groundwater flow gradients. Sampling of general chemistry and natural attenuation indicator parameters in the sentinel wells may be re-evaluated based on documented changes in groundwater concentration trends or the general conceptual site model.

The new sentinel well parameter list is proposed for implementation during the next quarterly sampling event (First Quarter 2007). This event will be conducted in accordance with the approved Sentinel Wells Work Plan as required by Paragraph 47 of the AOC, as well as the initial reduced parameters agreement (Clayton 2005b) between HWG and the Agencies. A comprehensive 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., October 16, 2003. *Conceptual Site Model, Village of Hartford Work Plan,* Hartford, Illinois (aka *Sentinel Wells Work Plan).*

Clayton Group Services, Inc., April 8, 2004a. *FPH CPT/ROST™ Subsurface Investigation Report and FPH Monitoring Well and Soil Sampling Plan for the Village of Hartford, Illinois.*

Clayton Group Services, Inc., January 7, 2004b. *Investigation Plan to Define the Extent of Free Phase and Dissolved Phase Hydrocarbons in the Village of Hartford, Illinois.*

Clayton Group Services, Inc., April 8, 2005a. *Sentinel Wells Quarterly Monitoring Report January 2005, The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois.*

Clayton Group Services, Inc., June 22, 2005b. *Modification of Analytical Parameter List for Quarterly Sentinel Well Monitoring, The Hartford Area Hydrocarbon Plume Site, Village of Hartford, Illinois.*

Clayton Group Services, Inc., April 4, 2005c. *Work Plan Site Wide Free Product Investigation,* The Premcor Refining Group Inc. – Hartford Facility, Hartford, Illinois.

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

Clayton Group Services, Inc., May 24, 2005e. *Work Plan Dissolved Phase Groundwater Investigation, The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois.*

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

Clayton Group Services, Inc., in-progress. *Quarterly Groundwater Monitoring Report October 2006, The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois.*

Farmayan, W., C. Neaville, M. Petkovsky and L. Drzewiecki. March 1998. *Groundwater Flow Model for the Shell Wood River Refining Company.*

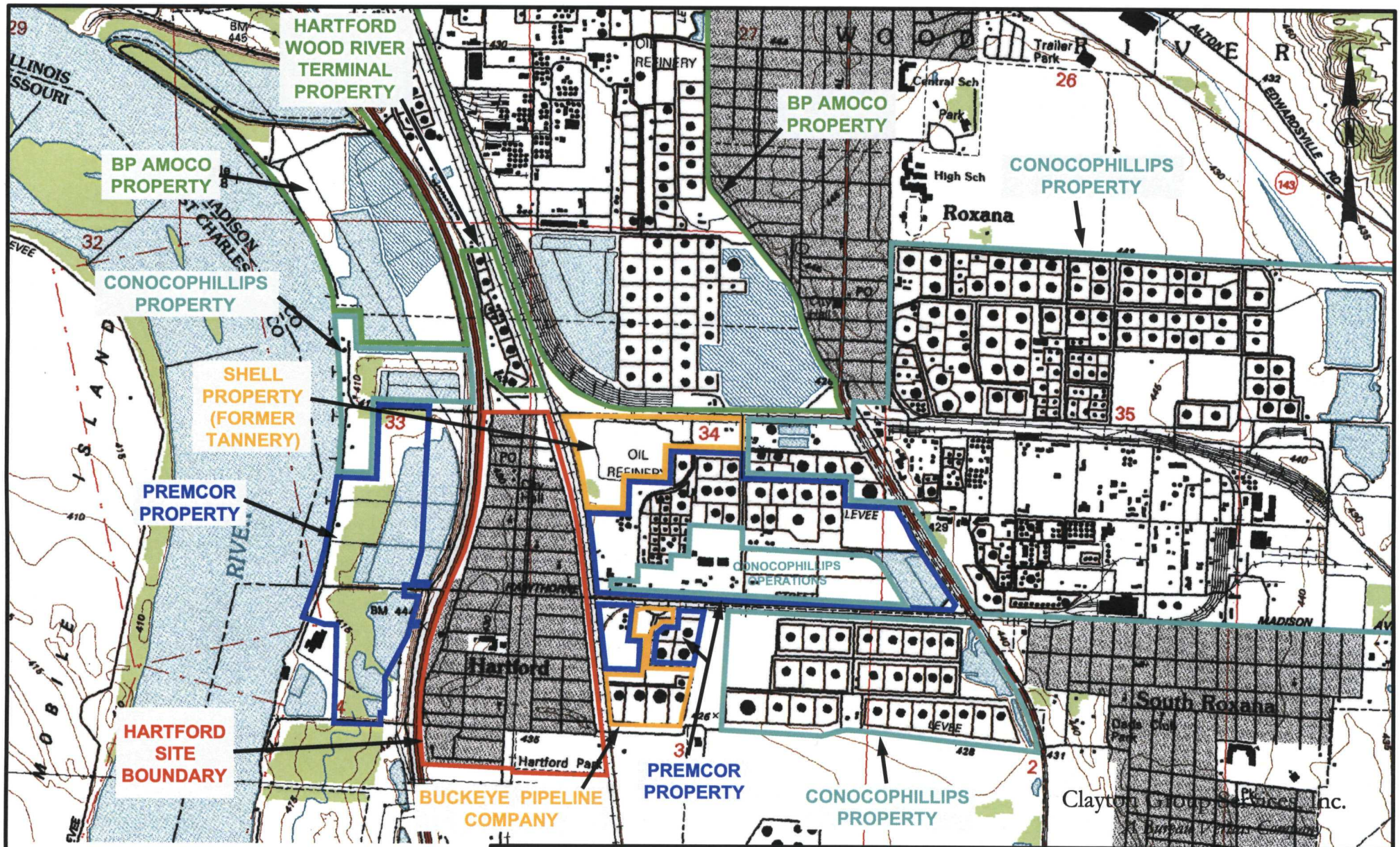
Illinois Pollution Control Board, 1997. *Tiered Approach to Corrective Action Objectives: 35 IAC Part 742.* Adopted rule, Final Order June 5, 1997. Last amended February 2002.

McGuire, M., J. Keller, K. Miller, and S. Esling, 2001. *Delineation of a Well Head Protection Area Hartford, Illinois*

US Army Corps of Engineers, 2005. Mississippi River at Melvin Price Lock and Dam (Alton, IL). (http://www2.mvr.usace.army.mil/WaterControl/stationinfo2.cfm?sid=MPRICE&fid=ALNI2&dt=S)

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

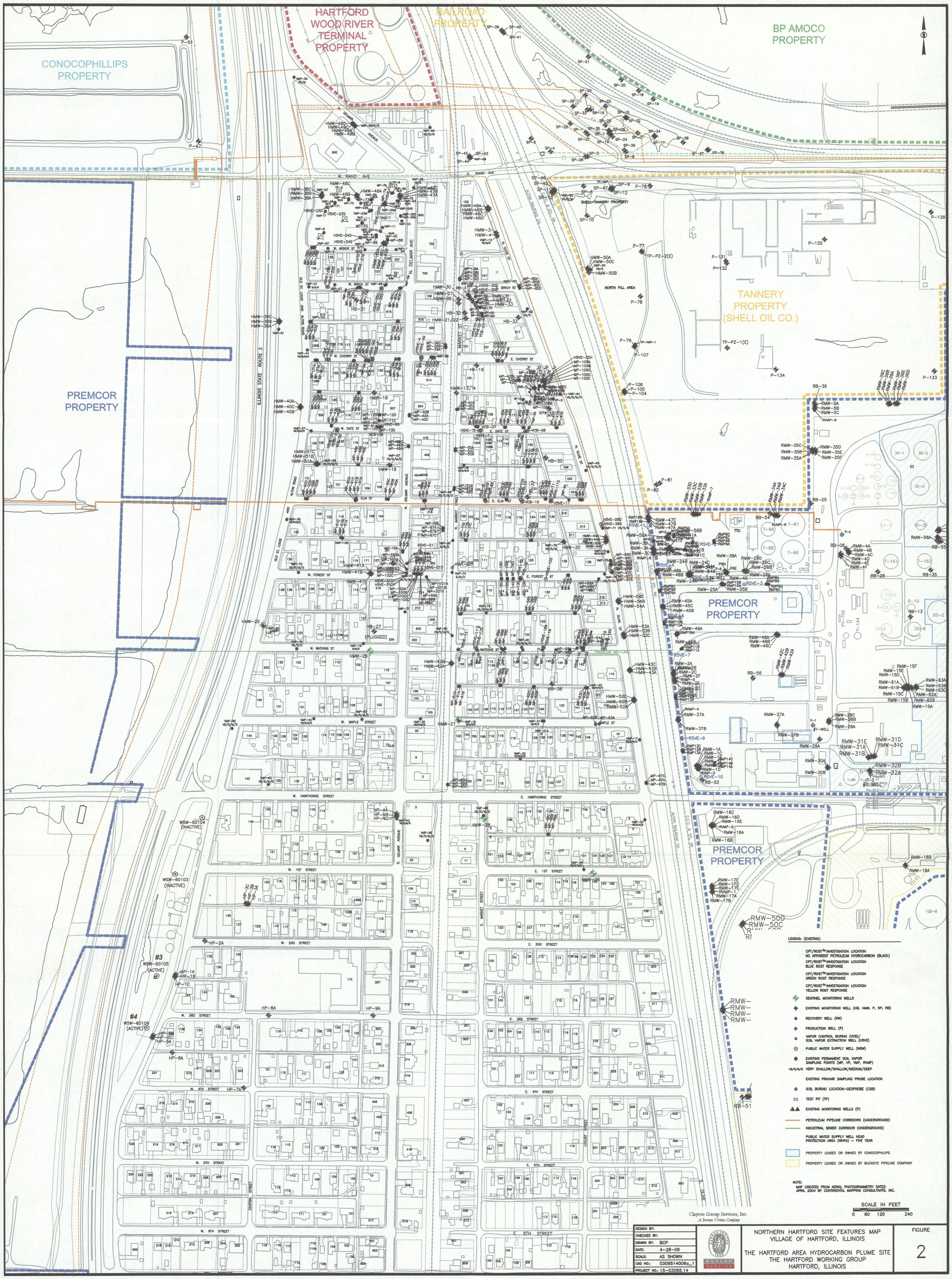
VILLAGE OF HARTFORD, IL
AND SURROUNDING AREA MAP

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

BUREAU VERITAS

FIGURE

1


HARTFORD WOOD RIVER TERMINAL PROPERTY
RAILROAD PROPERTY
BP AMOCO PROPERTY
CONOCOPHILLIPS PROPERTY
PREMCOR PROPERTY
TANNERY PROPERTY (SHELL OIL CO.)
SHELL-TANNERY PROPERTY
NORTH FILL AREA
ILLINOIS STATE ROUTE 3
W. RAND AVE
E. RAND AVE
N. DELMAR AVE
N. MARKET ST
N. OLIVE ST
W. ARBOR ST
W. BIRCH ST
W. CHERRY ST
E. CHERRY ST
W. DATE ST
E. DATE ST
W. ELM ST
E. ELM ST
W. FOREST ST
E. FOREST ST
W. WATKINS ST
E. WATKINS ST
W. MAPLE STREET
E. MAPLE ST
W. HAWTHORNE STREET
E. HAWTHORNE STREET
W. 1ST STREET
E. 1ST STREET
W. 2ND STREET
E. 2ND STREET
W. 3RD STREET
E. 3RD STREET
W. 4TH STREET
E. 4TH STREET
W. 5TH STREET
E. 5TH STREET
W. 6TH STREET
E. 6TH STREET
S. DELMAR AVENUE
S. MARKET STREET
S. OLIVE ST
LOCUST STREET
CENTRAL STREET
OLD ST. LOUIS AND ALTON ROAD
ALTON RAILROAD CO.
C.C.C. & STL. RR
PREMCOR BIO-CINE
WSW-60104 (INACTIVE)
WSW-60103 (INACTIVE)
#3 WSW-60105 (ACTIVE)
#4 WSW-60106 (ACTIVE)
LEGEND: (EXISTING)
CPT/ROST™ INVESTIGATION LOCATION NO APPARENT PETROLEUM HYDROCARBON (BLACK)
CPT/ROST™ INVESTIGATION LOCATION BLUE ROST RESPONSE
CPT/ROST™ INVESTIGATION LOCATION GREEN ROST RESPONSE
CPT/ROST™ INVESTIGATION LOCATION YELLOW ROST RESPONSE
SENTINEL MONITORING WELLS
EXISTING MONITORING WELL (HB, HMW, P, SP, RB)
RECOVERY WELL (RW)
PRODUCTION WELL (P)
VAPOR CONTROL BORING (VCB)/ SOIL VAPOR EXTRACTION WELL (HSVE)
PUBLIC WATER SUPPLY WELL (WSW)
EXISTING PERMANENT SOIL VAPOR SAMPLING POINTS (MP, VP, VMP, RVMP)
VS/S/M/D VERY SHALLOW/SHALLOW/MEDIUM/DEEP
EXISTING PRAXAIR SAMPLING PROBE LOCATION
SOIL BORING LOCATION-GEOPROBE (CSB)
TEST PIT (TP)
EXISTING MONITORING WELLS (P)
PETROLEUM PIPELINE CORRIDORS (UNDERGROUND)
INDUSTRIAL SEWER CORRIDOR (UNDERGROUND)
PUBLIC WATER SUPPLY WELL HEAD PROTECTION AREA (WHPA) - FIVE YEAR
PROPERTY LEASED OR OWNED BY CONOCOPHILIPS
PROPERTY LEASED OR OWNED BY BUCKEYE PIPELINE COMPANY
NOTE: MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.
SCALE IN FEET
0 60 120 240
Clayton Group Services, Inc.
A Bureau Veritas Company
DESIGN BY:
CHECKED BY:
DRAWN BY: BCP
DATE: 4-28-06
SCALE: AS SHOWN
CAD NO.: 0309514006a_1
PROJECT NO.: 15-03095.14
BUREAU VERITAS
NORTHERN HARTFORD SITE FEATURES MAP
VILLAGE OF HARTFORD, ILLINOIS
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS
FIGURE
2

SCALE IN FEET

0 125 250 500

LEGEND

- SENTINEL MONITORING WELL
- PETROLEUM PIPELINE CORRIDORS (UNDERGROUND)
- INDUSTRIAL SEWER CORRIDOR (UNDERGROUND)
- 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.
- INTERPRETED EXTENT OF FREE PRODUCT (ALL STRATA) OBSERVED IN MONITORING WELLS BASED UPON MEASUREMENTS FROM FIRST QUARTER 2004 THROUGH FOURTH QUARTER 2006

NOTES:

1. BASE MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.
2. THE INTERPRETED EXTENT OF FREE PRODUCT DOES NOT INDICATE A DETECTION IN EVERY MEASUREMENT LOCATION WITHIN THE ILLUSTRATED BOUNDARY.

SCALE IN FEET

0 125 250 500

Clayton Group Services, Inc.
A Bureau Veritas Company

CHK BY	KDC
DWN BY	BCP
DATE	11-21-06
SCALE	AS SHOWN
CAD NO.	0309514007d49g2
PRJ NO.	07003-003095.15

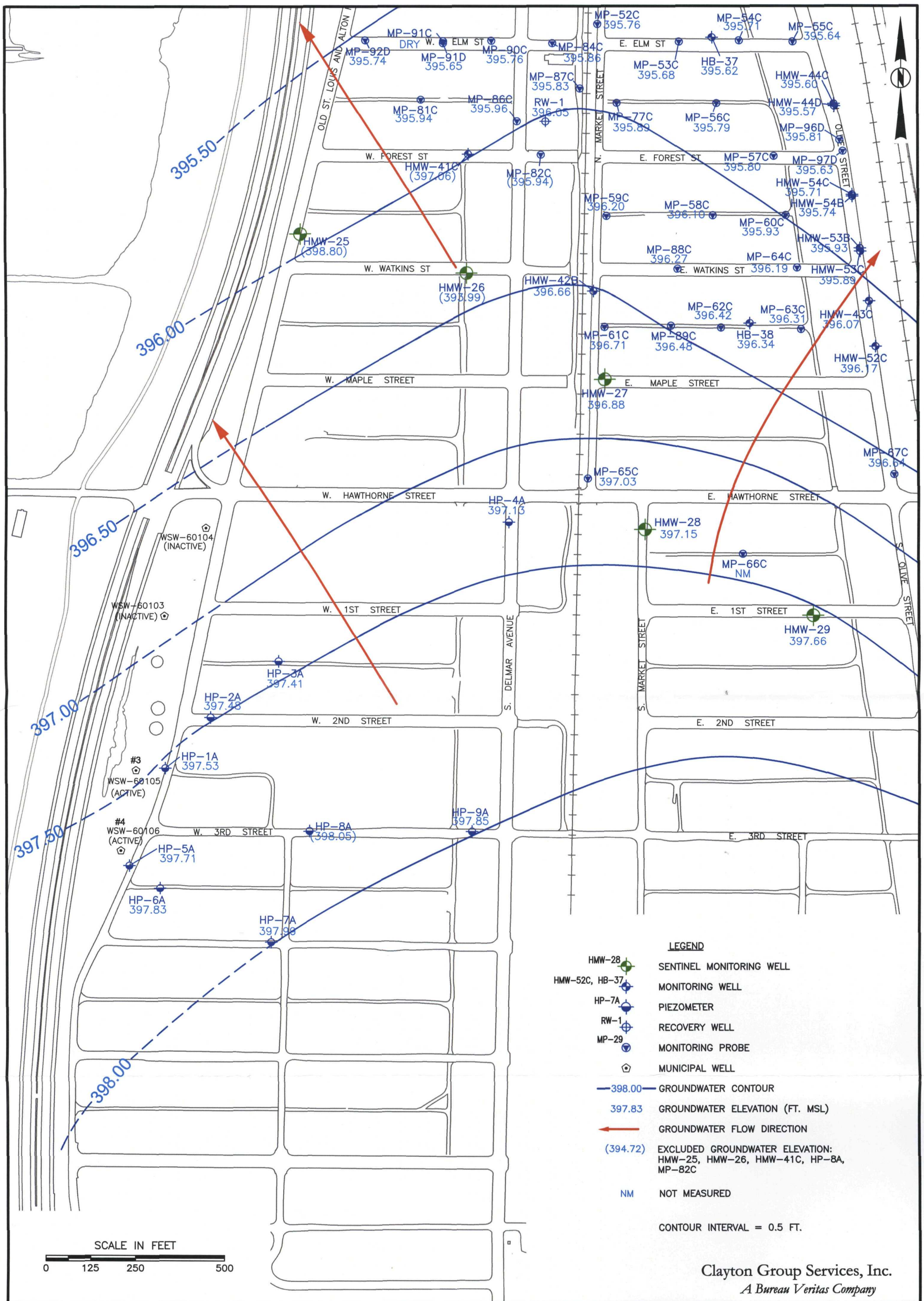
AREA OF LNAPL PRESENCE IN ALL STRATA

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

BUREAU VERITAS

FIGURE

3



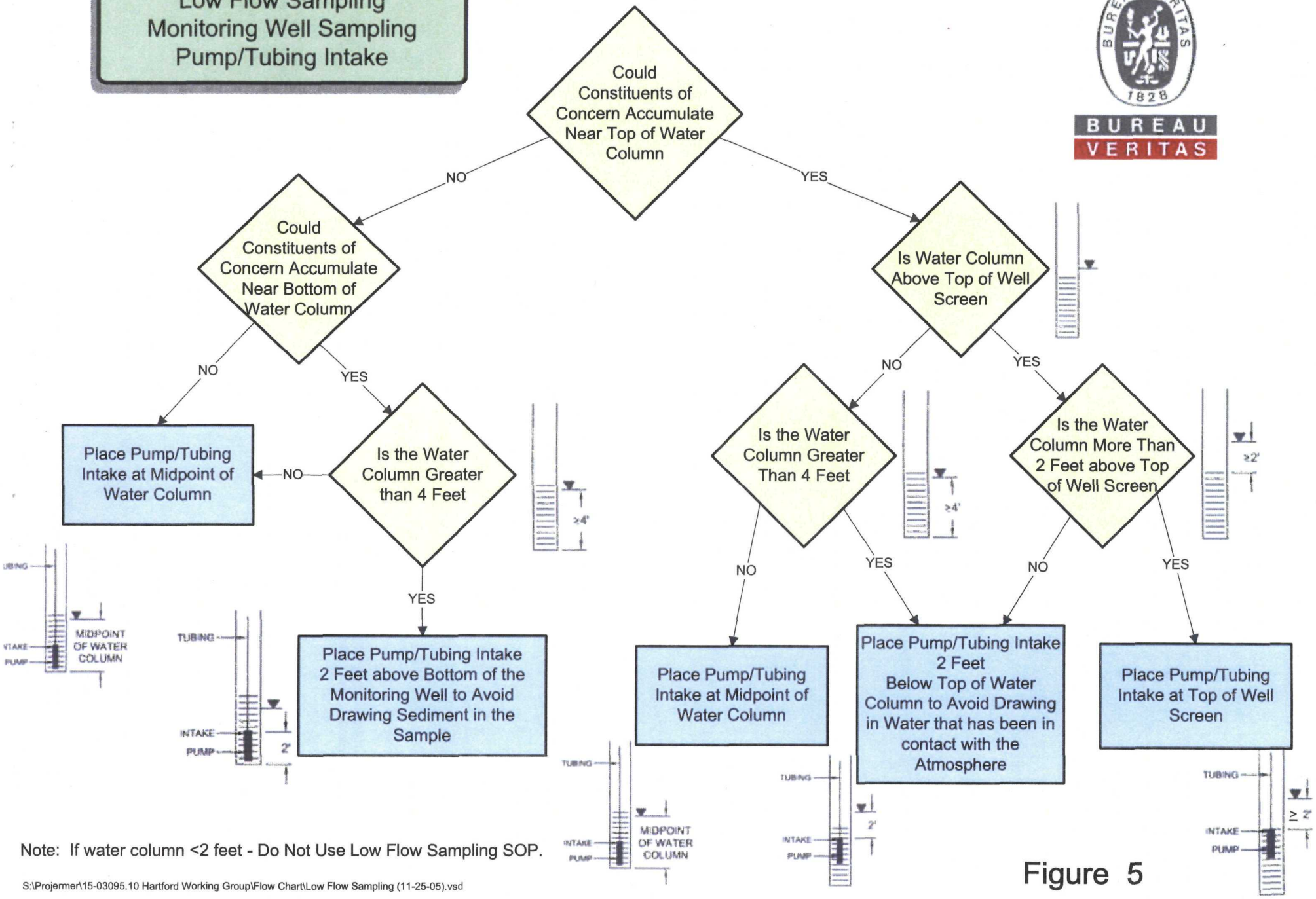
CHECK BY	JTD
DRAWN BY	BCP
DATE	11-21-08
SCALE	AS SHOWN
CAD NO.	0309507E118a
PRJ NO.	003095.15

GROUNDWATER FLOW MAP
OCTOBER 4-6, 2006
MAIN SAND
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

BUREAU VERITAS

FIGURE 4

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 5

TABLES

TABLE 1
SUMMARY OF 2006 QUARTERLY GROUNDWATER ELEVATIONS/APPARENT LNAPL THICKNESS
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)
HB-37	Main Sand	04/04/06	431.77	35.19	35.20	396.58	396.57	0.01	0.01	396.58
		07/06/06	431.77	34.53	34.80	397.24	396.97	0.27	0.02	397.18
		10/04/06	431.77	36.10	36.30	395.67	395.47	0.20	0.02	395.62
HB-38	Main Sand	04/04/06	429.92	NA	32.63	NA	397.29	0.00	0.00	397.29
		07/06/06	429.92	NA	32.03	NA	397.89	0.00	0.00	397.89
		10/04/06	429.92	NA	33.58	NA	396.34	0.00	0.00	396.34
HMW-25	Main Sand	01/10/06	427.45	NA	30.48	NA	396.97	0.00	0.00	396.97
		04/04/06	427.45	NA	29.77	NA	397.68	0.00	0.00	397.68
		07/07/06	427.45	NA	29.69	NA	397.76	0.00	0.00	397.76
		10/05/06	427.45	NA	28.65	NA	398.80	0.00	0.00	398.80
HMW-26	Main Sand	01/10/06	425.20	NA	27.78	NA	397.42	0.00	0.00	397.42
		04/04/06	425.20	NA	27.59	NA	397.61	0.00	0.00	397.61
		07/07/06	425.20	NA	26.86	NA	398.34	0.00	0.00	398.34
		10/05/06	425.20	NA	31.21	NA	393.99	0.00	0.00	393.99
HMW-27 (T 7/13/04-4/19/05)	Main Sand	01/10/06	430.51	NA	32.82	NA	397.69	0.00	0.00	397.69
		04/04/06	430.51	NA	32.74	NA	397.77	0.00	0.00	397.77
		07/06/06	430.51	NA	31.85	NA	398.66	0.00	0.00	398.66
		10/04/06	430.51	NA	33.63	NA	396.88	0.00	0.00	396.88
HMW-28	Main Sand	01/11/06	430.97	NA	32.97	NA	398.00	0.00	0.00	398.00
		04/04/06	430.97	NA	32.70	NA	398.27	0.00	0.00	398.27
		07/07/06	430.97	NA	32.23	NA	398.74	0.00	0.00	398.74
		10/04/06	430.97	NA	33.82	NA	397.15	0.00	0.00	397.15
HMW-29	Main Sand	01/11/06	429.99	NA	31.48	NA	398.51	0.00	0.00	398.51
		04/04/06	429.13	NA	30.64	NA	398.49	0.00	0.00	398.49
		07/07/06	429.13	NA	29.84	NA	399.29	0.00	0.00	399.29
		10/04/06	429.13	NA	31.47	NA	397.66	0.00	0.00	397.66
HMW-41 C	Main Sand	01/10/06	425.85	NA	29.07	NA	396.78	0.00	0.00	396.78
		04/04/06	425.85	NA	28.76	NA	397.09	0.00	0.00	397.09
		07/07/06	425.85	NA	28.20	NA	397.65	0.00	0.00	397.65
		10/05/06	425.85	NA	28.79	NA	397.06	0.00	0.00	397.06

TABLE 1
SUMMARY OF 2006 QUARTERLY GROUNDWATER ELEVATIONS/APPARENT LNAPL THICKNESS
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-42 B	Main Sand	01/10/06	431.46	NA	33.98	NA	397.48	0.00	0.00	397.48
		04/04/06	431.46	NA	32.86	NA	398.60	0.00	0.00	398.60
		07/06/06	431.46	NA	33.06	NA	398.40	0.00	0.00	398.40
		10/04/06	431.46	NA	34.80	NA	396.66	0.00	0.00	396.66
HMW-43 C (T 1/11/05)	Main Sand	01/10/06	428.96	NA	32.09	NA	396.87	0.00	0.00	396.87
		04/04/06	428.96	NA	32.03	NA	396.93	0.00	0.00	396.93
		07/06/06	428.96	NA	31.49	NA	397.47	0.00	0.00	397.47
		10/04/06	428.96	NA	32.89	NA	396.07	0.00	0.00	396.07
HMW-44 C	Main Sand	01/12/06	429.38	32.22	34.27	397.16	395.11	2.05	0.34	396.69
		04/04/06	429.38	32.43	34.37	396.95	395.01	1.94	0.28	396.50
		07/06/06	429.38	H2A Unit Present						
		10/04/06	428.38	32.30	34.39	396.08	393.99	2.09	0.34	395.60
HMW-44 D (T 11/11/05)	Main Sand (below LNAPL)	01/10/06	429.76	NA	33.25	NA	396.51	0.00	0.00	396.51
		04/04/06	429.76	NA	33.25	NA	396.51	0.00	0.00	396.51
		07/06/06	429.76	NA	32.75	NA	397.01	0.00	0.00	397.01
		10/04/06	429.76	NA	34.19	NA	395.57	0.00	0.00	395.57
HMW-52 C	Main Sand	01/10/06	427.83	NA	30.69	NA	397.14	0.00	0.00	397.14
		04/04/06	427.83	NA	30.73	NA	397.10	0.00	0.00	397.10
		07/06/06	427.83	NA	30.18	NA	397.65	0.00	0.00	397.65
		10/04/06	427.83	NA	31.66	NA	396.17	0.00	0.00	396.17
HMW-53 B	Main Silt (Rand Horizon)/ Main Sand	01/10/06	429.76	32.53	34.27	397.23	395.49	1.74	0.25	396.83
		04/04/06	429.76	32.59	34.00	397.17	395.76	1.41	0.16	396.85
		07/06/06	429.76	32.17	33.18	397.59	396.58	1.01	0.08	397.36
		10/04/06	429.76	33.39	35.32	396.37	394.44	1.93	0.32	395.93
HMW-53C	Main Sand (below LNAPL)	04/04/06	429.66	NA	32.86	NA	396.80	0.00	0.00	396.80
		07/06/06	429.66	NA	32.33	NA	397.33	0.00	0.00	397.33
		10/04/06	429.66	NA	33.77	NA	395.89	0.00	0.00	395.89
HMW-54 B	Main Sand	01/10/06	429.55	32.86	33.10	396.69	396.45	0.24	0.01	396.63
		04/04/06	429.55	32.91	32.95	396.64	396.60	0.04	0.01	396.63
		07/06/06	429.55	32.02	33.47	397.53	396.08	1.45	0.13	397.20
		10/04/06	429.55	33.44	35.06	396.11	394.49	1.62	0.19	395.74

TABLE 1
SUMMARY OF 2006 QUARTERLY GROUNDWATER ELEVATIONS/APPARENT LNAPL THICKNESS
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-54 C	Main Sand (below LNAPL)	01/10/06	429.56	NA	32.96	NA	396.60	0.00	0.00	396.60
		04/04/06	429.56	NA	32.93	NA	396.63	0.00	0.00	396.63
		07/06/06	429.56	NA	32.39	NA	397.17	0.00	0.00	397.17
		10/04/06	429.56	NA	33.85	NA	395.71	0.00	0.00	395.71
HP-01A (T 10/7/05)	Main Sand	01/11/06	425.84	NA	27.60	NA	398.24	0.00	0.00	398.24
		04/04/06	425.84	NA	26.18	NA	399.66	0.00	0.00	399.66
		07/07/06	425.84	NA	27.25	NA	398.59	0.00	0.00	398.59
		10/04/06	425.84	NA	28.31	NA	397.53	0.00	0.00	397.53
HP-02	Main Sand	01/11/06	429.92	NA	31.36	NA	398.56	0.00	0.00	398.56
		04/04/06	429.92	NA	30.52	NA	399.40	0.00	0.00	399.40
		07/07/06	429.92	NA	31.16	NA	398.76	0.00	0.00	398.76
		10/04/06	429.92	NA	32.44	NA	397.48	0.00	0.00	397.48
HP-03A (T 10/7/05)	Main Sand	01/11/06	429.28	NA	31.10	NA	398.18	0.00	0.00	398.18
		04/04/06	429.28	NA	30.16	NA	399.12	0.00	0.00	399.12
		07/07/06	429.28	NA	30.48	NA	398.80	0.00	0.00	398.80
		10/04/06	429.28	NA	31.87	NA	397.41	0.00	0.00	397.41
HP-04A	Main Sand	01/11/06	430.94	NA	33.00	NA	397.94	0.00	0.00	397.94
		04/04/06	430.94	NA	32.49	NA	398.45	0.00	0.00	398.45
		07/07/06	430.94	NA	32.31	NA	398.63	0.00	0.00	398.63
		10/04/06	430.94	NA	33.81	NA	397.13	0.00	0.00	397.13
HP-05A	Main Sand	01/11/06	424.42	NA	26.23	NA	398.19	0.00	0.00	398.19
		04/04/06	424.42	NA	24.40	NA	400.02	0.00	0.00	400.02
		07/07/06	424.42	NA	26.05	NA	398.37	0.00	0.00	398.37
		10/04/06	424.42	NA	26.71	NA	397.71	0.00	0.00	397.71
HP-06	Main Sand	01/11/06	425.88	NA	27.53	NA	398.35	0.00	0.00	398.35
		04/04/06	425.88	NA	25.88	NA	400.00	0.00	0.00	400.00
		07/07/06	425.88	NA	27.23	NA	398.65	0.00	0.00	398.65
		10/04/06	425.88	NA	28.05	NA	397.83	0.00	0.00	397.83
HP-07	Main Sand	01/11/06	429.04	NA	30.19	NA	398.85	0.00	0.00	398.85
		04/04/06	429.04	NA	29.11	NA	399.93	0.00	0.00	399.93
		07/07/06	429.04	NA	29.75	NA	399.29	0.00	0.00	399.29

TABLE 1
SUMMARY OF 2006 QUARTERLY GROUNDWATER ELEVATIONS/APPARENT LNAPL THICKNESS
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)
HP-07	Main Sand	10/04/06	429.04	NA	31.05	NA	397.99	0.00	0.00	397.99
HP-08	Main Sand	01/11/06	429.81	NA	31.03	NA	398.78	0.00	0.00	398.78
		04/04/06	429.81	NA	30.37	NA	399.44	0.00	0.00	399.44
		07/07/06	429.81	NA	30.13	NA	399.68	0.00	0.00	399.68
		10/04/06	429.81	NA	31.76	NA	398.05	0.00	0.00	398.05
HP-09	Main Sand	01/11/06	431.45	NA	32.71	NA	398.74	0.00	0.00	398.74
		04/04/06	*431.45*	*NA*	*31.99*	*NA*	*399.46*	*0.00*	*0.00*	*399.46*
		07/07/06	431.45	NA	32.19	NA	399.26	0.00	0.00	399.26
		10/04/06	431.45	NA	33.60	NA	397.85	0.00	0.00	397.85
MP-52 C	Main Sand	01/10/06	429.99	33.30	34.05	396.69	395.94	0.75	0.06	396.52
		04/04/06	429.99	33.25	33.90	396.74	396.09	0.65	0.05	396.59
		07/06/06	429.99	32.48	33.76	397.51	396.23	1.28	0.13	397.22
		10/04/06	429.99	33.91	35.29	396.08	394.70	1.38	0.16	395.76
MP-53 C	Main Sand	01/10/06	430.64	33.83	34.72	396.81	395.92	0.89	0.07	396.61
		04/04/06	430.64	33.79	34.67	396.85	395.97	0.88	0.07	396.65
		07/06/06	430.52	33.20	34.02	397.32	396.50	0.82	0.06	397.13
		10/04/06	430.52	34.63	35.53	395.89	394.99	0.90	0.07	395.68
MP-54 C	Main Sand	01/10/06	430.07	32.86	35.62	397.21	394.45	2.76	0.60	396.58
		04/04/06	430.07	--	--	--	--	--	--	--
		07/06/06	430.07	32.45	34.56	397.62	395.51	2.11	0.38	397.13
		10/04/06	430.07	33.79	36.26	396.28	393.81	2.47	0.50	395.71
MP-55 C	Main Sand	01/10/06	429.67	33.16	34.40	396.51	395.27	1.24	0.07	396.22
		04/04/06	429.67	--	--	--	--	--	--	--
		07/06/06	429.67	32.21	33.88	397.46	395.79	1.67	0.22	397.08
		10/04/06	429.67	33.51	35.75	396.16	393.92	2.24	0.37	395.64

TABLE 1
SUMMARY OF 2006 QUARTERLY GROUNDWATER ELEVATIONS/APPARENT LNAPL THICKNESS
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-56 C	Main Sand	01/10/06	430.15	--	--	--	--	--	--	--
		04/04/06	430.15	33.37	33.76	396.78	396.39	0.39	0.03	396.69
		07/06/06	430.15	32.88	33.08	397.27	397.07	0.20	0.02	397.22
		10/04/06	430.15	34.08	35.29	396.07	394.86	1.21	0.10	395.79
MP-57 C	Main Sand	01/10/06	429.15	32.17	33.55	396.98	395.60	1.38	0.16	396.66
		04/04/06	429.15	32.16	33.40	396.99	395.75	1.24	0.10	396.70
		07/06/06	429.15	31.72	32.55	397.43	396.60	0.83	0.06	397.24
		10/04/06	429.15	32.89	34.87	396.26	394.28	1.98	0.35	395.80
MP-58 C	Main Sand	01/10/06	430.33	33.39	33.52	396.94	396.81	0.13	0.01	396.91
		04/04/06	430.33	33.30	33.45	397.03	396.88	0.15	0.02	397.00
		07/06/06	430.33	32.70	32.77	397.63	397.56	0.07	0.01	397.61
		10/04/06	430.33	34.10	34.66	396.23	395.67	0.56	0.05	396.10
MP-59 C	Main Sand	01/10/06	429.90	32.91	32.93	396.99	396.97	0.02	0.01	396.99
		04/04/06	429.90	32.61	32.93	397.29	396.97	0.32	0.02	397.22
		07/06/06	429.90	NA	32.13	NA	397.77	0.00	0.00	397.77
		10/04/06	429.90	33.61	34.02	396.29	395.88	0.41	0.03	396.20
MP-60 C	Main Sand	01/10/06	429.21	32.19	33.15	397.02	396.06	0.96	0.08	396.80
		04/04/06	429.21	32.03	33.47	397.18	395.74	1.44	0.16	396.85
		07/06/06	429.21	31.33	33.26	397.88	395.95	1.93	0.32	397.44
		10/04/06	429.21	33.03	34.11	396.18	395.10	1.08	0.07	395.93
MP-61 C	Main Sand	04/04/06	430.00	NA	32.41	NA	397.59	0.00	0.00	397.59
		07/06/06	430.00	NA	31.57	NA	398.43	0.00	0.00	398.43
		10/04/06	430.00	NA	33.29	NA	396.71	0.00	0.00	396.71
MP-62 C	Main Sand	04/04/06	428.94	NA	31.54	NA	397.40	0.00	0.00	397.40
		07/06/06	428.94	NA	30.96	NA	397.98	0.00	0.00	397.98
		10/04/06	428.94	NA	32.52	NA	396.42	0.00	0.00	396.42
MP-63 C	Main Sand	04/04/06	429.29	NA	32.03	NA	397.26	0.00	0.00	397.26
		07/06/06	429.29	NA	31.40	NA	397.89	0.00	0.00	397.89
		10/04/06	429.29	NA	32.98	NA	396.31	0.00	0.00	396.31

TABLE 1
SUMMARY OF 2006 QUARTERLY GROUNDWATER ELEVATIONS/APPARENT LNAPL THICKNESS
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-64 C	Main Sand	01/10/06	428.69	31.07	32.76	397.62	395.93	1.69	0.25	397.23
		04/04/06	428.69	30.94	33.09	397.75	395.60	2.15	0.41	397.26
		07/06/06	428.69	30.62	31.38	398.07	397.31	0.76	0.06	397.90
		10/04/06	428.55	31.67	34.67	396.88	393.88	3.00	0.66	396.19
MP-65 C (T 4/21/05)	Main Sand	04/04/06	431.42	NA	33.31	NA	398.11	0.00	0.00	398.11
		07/06/06	431.42	NA	32.76	NA	398.66	0.00	0.00	398.66
		10/04/06	431.42	NA	34.39	NA	397.03	0.00	0.00	397.03
MP-66 C	Main Sand	01/11/06	430.79	NA	32.46	NA	398.33	0.00	0.00	398.33
		04/04/06	430.79	NA	32.52	NA	398.27	0.00	0.00	398.27
		07/07/06	430.79	NA	31.75	NA	399.04	0.00	0.00	399.04
		10/04/06	430.79	--	--	--	--	--	--	---
MP-67 C		04/04/06	430.19	NA	32.65	NA	397.54	0.00	0.00	397.54
		07/06/06	430.19	NA	32.03	NA	398.16	0.00	0.00	398.16
		10/04/06	430.19	NA	33.55	NA	396.64	0.00	0.00	396.64
MP-77C		04/04/06	430.64	33.55	34.78	397.09	395.86	1.23	0.10	396.81
		07/06/06	430.64	32.96	34.33	397.68	396.31	1.37	0.14	397.36
		10/04/06	430.64	34.29	36.31	396.35	394.33	2.02	0.33	395.89
MP-81 C	Main Sand	01/11/06	425.40	NA	28.71	NA	396.69	0.00	0.00	396.69
		04/05/06	425.40	NA	28.33	NA	397.07	0.00	0.00	397.07
		07/07/06	425.40	NA	27.80	NA	397.60	0.00	0.00	397.60
		10/05/06	425.40	NA	29.46	NA	395.94	0.00	0.00	395.94
MP-82 C	Main Sand	04/05/06	431.61	NA	34.38	NA	397.23	0.00	0.00	397.23
		07/07/06	431.61	NA	34.07	NA	397.54	0.00	0.00	397.54
		10/05/06	431.61	NA	35.67	NA	395.94	0.00	0.00	395.94

TABLE 1
SUMMARY OF 2006 QUARTERLY GROUNDWATER ELEVATIONS/APPARENT LNAPL THICKNESS
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-84 C	Main Silt (Rand Horizon)/ Main Sand	01/11/06	432.10	35.21	37.04	396.89	395.06	1.83	0.28	396.47
		04/04/06	432.10	34.97	36.39	397.13	395.71	1.42	0.16	396.80
		07/07/06	432.10	34.45	36.28	397.65	395.82	1.83	0.28	397.23
		10/05/06	432.10	35.80	37.71	396.30	394.39	1.91	0.32	395.86
MP-86 C	Main Sand	01/10/06	431.20	34.29	35.34	396.91	395.86	1.05	0.07	396.67
		04/04/06	431.20	34.07	34.43	397.13	396.77	0.36	0.03	397.05
		07/07/06	431.20	33.58	34.35	397.62	396.85	0.77	0.06	397.44
		10/05/06	431.20	34.90	36.40	396.30	394.80	1.50	0.19	395.96
MP-87 C	Main Sand	04/04/06	432.08	34.48	35.85	397.60	396.23	1.37	0.16	397.28
		07/07/06	432.08	34.44	35.68	397.64	396.40	1.24	0.10	397.35
		10/05/06	432.08	35.87	37.52	396.21	394.56	1.65	0.25	395.83
MP-88 C	Main Sand	04/04/06	430.51	33.20	33.29	397.31	397.22	0.09	0.01	397.29
		07/06/06	430.51	NA	32.67	NA	397.84	0.00	0.00	397.84
		10/04/06	430.51	33.86	35.52	396.65	394.99	1.66	0.25	396.27
MP-89 C	Main Sand	01/10/06	429.25	NA	31.91	NA	397.34	0.00	0.00	397.34
		04/04/06	429.25	NA	31.81	NA	397.44	0.00	0.00	397.44
		07/06/06	429.25	NA	31.08	NA	398.17	0.00	0.00	398.17
		10/04/06	429.25	NA	32.77	NA	396.48	0.00	0.00	396.48
MP-90 C	Main Silt (Rand Horizon)/ Main Sand	04/04/06	430.08	33.05	34.04	397.03	396.04	0.99	0.08	396.80
		07/07/06	429.95	32.45	33.75	397.50	396.20	1.30	0.13	397.20
		10/05/06	429.95	33.64	36.04	396.31	393.91	2.40	0.47	395.76
MP-91 C	Main Silt (Rand Horizon)	04/04/06	425.98	NA	DRY	NA	--	0.00	0.00	--
		07/07/06	425.98	NA	DRY	NA	--	0.00	0.00	--
		10/05/06	425.98	NA	DRY	NA	--	0.00	0.00	--
MP-91 D	Main Sand	04/04/06	425.96	NA	29.12	NA	396.84	0.00	0.00	396.84
		07/07/06	425.96	NA	28.84	NA	397.12	0.00	0.00	397.12
		10/05/06	425.96	NA	30.31	NA	395.65	0.00	0.00	395.65
MP-92 D	Main Silt (Rand Horizon)/ Main Sand	04/04/06	427.98	NA	31.08	NA	396.90	0.00	0.00	396.90
		07/07/06	427.98	NA	30.75	NA	397.23	0.00	0.00	397.23
		10/05/06	427.98	NA	32.24	NA	395.74	0.00	0.00	395.74

TABLE 1
SUMMARY OF 2006 QUARTERLY GROUNDWATER ELEVATIONS/APPARENT LNAPL THICKNESS
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-96D	Main Sand	07/06/06	429.48	31.92	33.69	397.56	395.79	1.77	0.28	397.15
		10/04/06	429.48	33.41	34.52	396.07	394.96	1.11	0.07	395.81
MP-97D	Main Sand	07/06/06	429.31	31.84	33.56	397.47	395.75	1.72	0.25	397.07
		10/04/06	429.31	33.23	35.20	396.08	394.11	1.97	0.35	395.63
RW-1	Main Sand	07/07/06	433.78	--	--	--	--	--	--	--
		10/05/06	433.78	37.52	38.44	396.26	395.34	0.92	0.07	396.05

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 = 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)]
HMW-25 through HMW-29 installed by Clayton in 12/03.
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 2
COMPOUND/ANALYTE LIST FOR WATER SAMPLES - VOCs
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 * (ug/L)	PRACTICAL QUANTITATION LIMIT * (ug/L)	ACCEPTABLE DETECTION LIMIT ** (ug/L)
	Source	Method No.	Source	Method No.				
VOCs								
	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	o, m, p-Xylenes (total)	1	5	10,000

NOTES:

µg/L = Micrograms per liter
* Method detection limit and practical quantitation limit as identified by Teklab, Inc. (Ottensmeier, 2004).
** *Acceptable detection limit is the IPCB TACO Tier 1 Groundwater Remediation Objective for Class I Groundwater.*

TABLE 3
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	7 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	125 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 4
Summary of Groundwater Analytical Results for Sentinel Wells
BETX and MTBE

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

PERIOD: From 12/16/2003 thru 10/12/2006 - 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	12/16/2003	Prim	HMW-25	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-25	04/22/2004	Prim	HMW-25/040422	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-25	07/07/2004	Prim	HMW-25/040707	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-25	07/07/2004	Dup 1	DUP-001/040707	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-25	10/19/2004	Prim	HMW-25/041019	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-25	01/21/2005	Prim	HMW-25/050121	0.6J	<5.0	2.7J	4.1J	<2.0
HMW-25	01/21/2005	Dup 1	Dup-001/050121	0.6J	<5.0	2.4J	3.9J	<2.0
HMW-25	02/03/2005	Prim	HMW-25/050203	0.5J	<5.0	<5.0	<5.0	NA
HMW-25	03/02/2005	Prim	HMW-25/050302	<2.0	<5.0	<5.0	<5.0	NA
HMW-25	03/02/2005	Prim	HMW-25/05030	<5.0	<5.0	<5.0	<5.0	NA
HMW-25	04/14/2005	Prim	HMW-25/050414	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-25	07/12/2005	Prim	HMW-25/050712	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-25	10/06/2005	Prim	HMW-25/051006	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-25	01/13/2006	Prim	HMW-25/060113	<2.0	<5.0	<5.0	<5.0	<2.0
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-26	12/16/2003	Prim	HWM-26	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-26	04/22/2004	Prim	HMW-26/040422	<2.0	<5.0	<5.0	<5.0	<2.0

See Notes at the End of Table

Table 4
Summary of Groundwater Analytical Results for Sentinel Wells
BETX and MTBE

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

PERIOD: From 12/16/2003 thru 10/12/2006 - 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-26	07/07/2004	Prim	HMW-26/040707	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-26	10/20/2004	Prim	HMW-26/041020	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-26	10/20/2004	Dup 1	Dup-001/041020	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-26	01/21/2005	Prim	HMW-26/050121	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-26	04/14/2005	Prim	HMW-26/050414	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-26	04/14/2005	Dup 1	DUP002/050414	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-26	07/12/2005	Prim	HMW-26/050712	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-26	10/06/2005	Prim	HMW-26/051006	<2.0	<5.0	<5.0	<5.0	1.1J
HMW-26	01/12/2006	Prim	HMW-26/060112	<2.0	<5.0	<5.0	<5.0	0.6J
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-27	12/16/2003	Prim	HMW-27	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-27	04/22/2004	Prim	HMW-27/040422	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-27	04/22/2004	Dup 1	DUP-01/040422	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-27	07/07/2004	Prim	HMW-27/040707	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-27	10/20/2004	Prim	HMW-27/041020	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-27	01/21/2005	Prim	HMW-27/050121	<2.0	<5.0	<5.0	<5.0	<2.0

See Notes at the End of Table

Table 4
Summary of Groundwater Analytical Results for Sentinel Wells
BETX and MTBE

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

PERIOD: From 12/16/2003 thru 10/12/2006 - 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-27	04/19/2005	Prim	HMW-27/050419	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-27	07/12/2005	Prim	HMW-27/050712	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-27	10/07/2005	Prim	HMW-27/051007	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-27	01/12/2006	Prim	HMW-27/060112	<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-28	12/16/2003	Prim	HMW-28	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-28	04/22/2004	Prim	HMW-28/040422	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-28	07/07/2004	Prim	HMW-28/040707	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-28	10/20/2004	Prim	HMW-28/041020	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-28	01/21/2005	Prim	HMW-28/050121	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-28	04/19/2005	Prim	HMW-28/050419	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-28	07/12/2005	Prim	HMW-28/050712	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-28	10/07/2005	Prim	HMW-28/051007	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-28	01/13/2006	Prim	HMW-28/060113	<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
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

See Notes at the End of Table

Table 4
Summary of Groundwater Analytical Results for Sentinel Wells
BETX and MTBE

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

PERIOD: From 12/16/2003 thru 10/12/2006 - 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	10/12/2006	Prim	HMW-28/061012	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	12/17/2003	Prim	HMW-29	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	04/22/2004	Prim	HMW-29/040422	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	07/07/2004	Prim	HMW-29/040707	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	10/20/2004	Prim	HMW-29/041020	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	01/21/2005	Prim	HMW-29/052101	0.6J	<5.0	<5.0	<5.0	<2.0
HMW-29	02/06/2005	Prim	HMW-29/050206	<2.0	<5.0	<5.0	<5.0	NA
HMW-29	04/19/2005	Prim	HMW-29/050419	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	07/13/2005	Prim	HMW-29/050713	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	07/13/2005	Dup 1	DUP-001/050713	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	10/07/2005	Prim	HMW-29/051007	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	10/07/2005	Dup 1	DUP-001/051007	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	01/13/2006	Prim	HMW-29/060113	<2.0	<5.0	<5.0	<5.0	<2.0
HMW-29	01/13/2006	Dup 1	DUP001/060113	<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

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HMW-25 12/16/2003 Primary	HMW-25 HMW-25/040422 04/22/2004 Primary	HMW-25 HMW-25/040707 07/07/2004 Primary	HMW-25 DUP-001/040707 07/07/2004 Duplicate 1	HMW-25 HMW-25/041019 10/19/2004 Primary
Antimony	(mg/l)	0.006	<0.005	0.00235J	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	NA	NA	NA	NA	NA
Arsenic	(mg/l)	0.05	0.00106J	<0.003	<0.0030	<0.0030	<0.0030
Arsenic (Dissolved)	(mg/l)	0.05	NA	NA	NA	NA	NA
Barium	(mg/l)	2	0.318	0.238	0.256	0.257	0.300
Barium (Dissolved)	(mg/l)	2	NA	NA	NA	NA	NA
Beryllium	(mg/l)	0.004	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	NA	NA	NA	NA	NA
Cadmium	(mg/l)	0.005	<0.002	0.000400	0.0003J	0.0003J	0.0004J
Cadmium (Dissolved)	(mg/l)	0.005	NA	NA	NA	NA	NA
Chromium	(mg/l)	0.1	0.00980J	0.00610J	<0.0100	<0.0100	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	NA	NA	NA	NA	NA
Cobalt	(mg/l)	1	0.00450J	<0.010	<0.0100	<0.0100	<0.0100
Cobalt (Dissolved)	(mg/l)	1	NA	NA	NA	NA	NA
Iron	(mg/l)	5	NA	NA	NA	NA	NA
Iron (Dissolved)	(mg/l)	5	NA	NA	NA	NA	NA
Lead	(mg/l)	0.0075	0.00530	<0.002	<0.0020	<0.0020	0.0009J
Lead (Dissolved)	(mg/l)	0.0075	NA	NA	NA	NA	NA
Mercury	(mg/l)	0.002	<0.0002	<0.0002	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	NA	NA	NA	NA	NA
Nickel	(mg/l)	0.1	0.0178	0.0128	0.0087J	0.0107	0.0149

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HMW-25 12/16/2003 Primary	HMW-25 HMW-25/040422 04/22/2004 Primary	HMW-25 HMW-25/040707 07/07/2004 Primary	HMW-25 DUP-001/040707 07/07/2004 Duplicate 1	HMW-25 HMW-25/041019 10/19/2004 Primary
Nickel (Dissolved)	(mg/l)	0.1	NA	NA	NA	NA	NA
Selenium	(mg/l)	0.05	<0.006	<0.006	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	NA	NA	NA	NA	NA
Silver	(mg/l)	0.05	<0.010	<0.010	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	NA	NA	NA	NA	NA
Vanadium	(mg/l)	0.049	0.00930J	<0.010	<0.0100	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	NA	NA	NA	NA	NA
Zinc	(mg/l)	5	0.210	0.241	0.0838	0.0832	0.171
Zinc (Dissolved)	(mg/l)	5	NA	NA	NA	NA	NA

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HMW-25/050121 01/21/2005 Primary	HMW-25 Dup-001/050121 01/21/2005 Duplicate 1	HMW-25 HMW-25/050414 04/14/2005 Primary	HMW-25 HMW-25/050712 07/12/2005 Primary	HMW-25 HMW-25/051006 10/06/2005 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	0.0015J	<0.0030	<0.0030	<0.0030	0.0009J
Arsenic (Dissolved)	(mg/l)	0.05	0.0007J	<0.0030	<0.0030	0.0019J	<0.0030
Barium	(mg/l)	2	0.248	0.254	0.235	0.251	0.239
Barium (Dissolved)	(mg/l)	2	0.229	0.233	0.230	0.250	0.235
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	0.0007J	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	0.0007J	0.0009J	0.0007J	<0.0020	<0.0020
Cadmium (Dissolved)	(mg/l)	0.005	0.0005J	<0.0020	0.0006J	<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	NA	NA	NA	NA	0.0868
Iron (Dissolved)	(mg/l)	5	NA	NA	NA	NA	0.0333
Lead	(mg/l)	0.0075	<0.0020	<0.0020	0.0005J	<0.0020	<0.0020
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	0.0010J	<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	0.0131	0.0106	0.0112	0.0142	0.0111

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HMW-25/050121 01/21/2005 Primary	HMW-25 Dup-001/050121 01/21/2005 Duplicate 1	HMW-25 HMW-25/050414 04/14/2005 Primary	HMW-25 HMW-25/050712 07/12/2005 Primary	HMW-25 HMW-25/051006 10/06/2005 Primary
Nickel (Dissolved)	(mg/l)	0.1	0.0134	0.0105	0.0109	0.0146	0.0098J
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	0.0040J	<0.0100	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	0.0050J	<0.0100	<0.0100	<0.0100
Zinc	(mg/l)	5	0.0201	0.0141	0.0022J	0.0046J	<0.0100
Zinc (Dissolved)	(mg/l)	5	0.0271	0.0117	0.0040J	0.0062J	<0.0100

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HMW-25/060113 01/13/2006 Primary	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-26 HWM-26 12/16/2003 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.005
Antimony (Dissolved)	(mg/l)	0.006	0.0030J	<0.0050	<0.0050	<0.0050	NA
Arsenic	(mg/l)	0.05	<0.0030	<0.0030	<0.0030	<0.0030	0.00449
Arsenic (Dissolved)	(mg/l)	0.05	<0.0030	<0.0030	<0.0030	<0.0030	NA
Barium	(mg/l)	2	0.251	0.248	0.292	0.268	0.362
Barium (Dissolved)	(mg/l)	2	0.222	0.229	0.271	0.248	NA
Beryllium	(mg/l)	0.004	0.0008J	<0.0010	<0.0010	<0.0010	0.000300
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.0010	NA
Cadmium	(mg/l)	0.005	0.0014J	<0.0020	0.0019J	0.0003J	<0.002
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	<0.0020	0.0013J	<0.0020	NA
Chromium	(mg/l)	0.1	<0.0100	0.0041J	0.0048J	<0.0100	0.0311
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	0.0049J	NA
Cobalt	(mg/l)	1	<0.0100	<0.0100	0.0058J	<0.0100	0.00770J
Cobalt (Dissolved)	(mg/l)	1	0.0042J	<0.0100	0.0044J	0.0023J	NA
Iron	(mg/l)	5	0.106	0.528	0.0211	0.0398	NA
Iron (Dissolved)	(mg/l)	5	0.0264	0.0291	<0.0200	<0.0200	NA
Lead	(mg/l)	0.0075	<0.0020	<0.0020	0.0004J	<0.0020	**0.0159**
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	<0.00020	<0.0002
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.00020	NA
Nickel	(mg/l)	0.1	0.0063J	0.0121	0.0172	0.0056J	0.0219

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HMW-25/060113 01/13/2006 Primary	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-26 HWM-26 12/16/2003 Primary
Nickel (Dissolved)	(mg/l)	0.1	0.0094J	0.0117	0.0158	0.0079J	NA
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.006
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	<0.0100	<0.010
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	NA
Vanadium	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	0.0082J	<0.010
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	NA
Zinc	(mg/l)	5	0.0048J	0.0060J	0.0038J	<0.0100	0.276
Zinc (Dissolved)	(mg/l)	5	0.0078J	0.0055J	<0.0100	<0.0100	NA

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-26 HMW-26/040422 04/22/2004 Primary	HMW-26 HMW-26/040707 07/07/2004 Primary	HMW-26 HMW-26/041020 10/20/2004 Primary	HMW-26 Dup-001/041020 10/20/2004 Duplicate 1	HMW-26 HMW-26/050121 01/21/2005 Primary
Antimony	(mg/l)	0.006	<0.005	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	NA	NA	NA	NA	<0.0050
Arsenic	(mg/l)	0.05	0.00654	0.0012J	0.0020J	0.0017J	0.0016J
Arsenic (Dissolved)	(mg/l)	0.05	NA	NA	NA	NA	0.0018J
Barium	(mg/l)	2	0.242	0.222	0.206	0.202	0.177
Barium (Dissolved)	(mg/l)	2	NA	NA	NA	NA	0.159
Beryllium	(mg/l)	0.004	<0.001	<0.0010	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	NA	NA	NA	NA	<0.0010
Cadmium	(mg/l)	0.005	<0.002	0.0003J	<0.0020	0.0003J	0.0005J
Cadmium (Dissolved)	(mg/l)	0.005	NA	NA	NA	NA	0.0003J
Chromium	(mg/l)	0.1	0.00410J	<0.0100	<0.0100	<0.0100	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	NA	NA	NA	NA	<0.0100
Cobalt	(mg/l)	1	<0.010	<0.0100	<0.0100	<0.0100	<0.0100
Cobalt (Dissolved)	(mg/l)	1	NA	NA	NA	NA	<0.0100
Iron	(mg/l)	5	NA	NA	NA	NA	NA
Iron (Dissolved)	(mg/l)	5	NA	NA	NA	NA	NA
Lead	(mg/l)	0.0075	0.00331	<0.0020	0.0008J	0.0006J	<0.0020
Lead (Dissolved)	(mg/l)	0.0075	NA	NA	NA	NA	<0.0020
Mercury	(mg/l)	0.002	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	NA	NA	NA	NA	<0.00020
Nickel	(mg/l)	0.1	<0.010	<0.0100	<0.0100	<0.0100	<0.0100

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-26 HMW-26/040422 04/22/2004 Primary	HMW-26 HMW-26/040707 07/07/2004 Primary	HMW-26 HMW-26/041020 10/20/2004 Primary	HMW-26 Dup-001/041020 10/20/2004 Duplicate 1	HMW-26 HMW-26/050121 01/21/2005 Primary
Nickel (Dissolved)	(mg/l)	0.1	NA	NA	NA	NA	<0.0100
Selenium	(mg/l)	0.05	<0.006	<0.0060	<0.0060	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	NA	NA	NA	NA	<0.0060
Silver	(mg/l)	0.05	<0.010	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	NA	NA	NA	NA	<0.0100
Vanadium	(mg/l)	0.049	<0.010	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	NA	NA	NA	NA	<0.0100
Zinc	(mg/l)	5	0.118	0.0258	0.105	0.129	<0.0100
Zinc (Dissolved)	(mg/l)	5	NA	NA	NA	NA	<0.0100

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-26 HMW-26/050414 04/14/2005 Primary	HMW-26 DUP002/050414 04/14/2005 Duplicate 1	HMW-26 HMW-26/050712 07/12/2005 Primary	HMW-26 HMW-26/051006 10/06/2005 Primary	HMW-26 HMW-26/060112 01/12/2006 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	0.0031	0.0033	0.0030J	0.0067	0.0069
Arsenic (Dissolved)	(mg/l)	0.05	0.0019J	0.0020J	0.0022J	0.0056	0.0059
Barium	(mg/l)	2	0.160	0.159	0.179	0.184	0.197
Barium (Dissolved)	(mg/l)	2	0.153	0.154	0.185	0.178	0.160
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	<0.0020	<0.0020	<0.0020	<0.0020	0.0010J
Cadmium (Dissolved)	(mg/l)	0.005	0.0003J	<0.0020	<0.0020	<0.0020	0.0018J
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	NA	NA	NA	24.7	26.2
Iron (Dissolved)	(mg/l)	5	NA	NA	NA	24.4	25.1
Lead	(mg/l)	0.0075	0.0025	<0.0020	<0.0020	<0.0020	0.0030
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 the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-26 HMW-26/050414 04/14/2005 Primary	HMW-26 DUP002/050414 04/14/2005 Duplicate 1	HMW-26 HMW-26/050712 07/12/2005 Primary	HMW-26 HMW-26/051006 10/06/2005 Primary	HMW-26 HMW-26/060112 01/12/2006 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	<0.0100	0.0050J
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	0.0080J
Zinc	(mg/l)	5	0.0099J	<0.0100	0.0129	<0.0100	0.129
Zinc (Dissolved)	(mg/l)	5	<0.0100	<0.0100	0.0053J	<0.0100	0.0039J

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	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*	HMW-26 HMW-26/061011 10/11/2006 *Primary*	HMW-26 DUP-001/061011 10/11/2006 *Duplicate 1*
Antimony	(mg/l)	0.006	<0.0050	NA	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	NA	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	0.0052	NA	0.0022J	0.0037	0.0048
Arsenic (Dissolved)	(mg/l)	0.05	0.0037	0.0036	NA	0.0039	0.0046
Barium	(mg/l)	2	0.186	NA	0.191	0.167	0.168
Barium (Dissolved)	(mg/l)	2	0.169	0.173	NA	0.155	0.152
Beryllium	(mg/l)	0.004	0.0003J	NA	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	0.0003J	<0.0010	NA	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	0.0012J	NA	0.0017J	<0.0020	<0.0020
Cadmium (Dissolved)	(mg/l)	0.005	0.0012J	0.0010J	NA	<0.0020	<0.0020
Chromium	(mg/l)	0.1	0.0055J	NA	<0.0100	<0.0100	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	0.0042J	0.0054J	NA	0.0061J	0.0059J
Cobalt	(mg/l)	1	<0.0100	NA	<0.0100	<0.0100	<0.0100
Cobalt (Dissolved)	(mg/l)	1	<0.0100	0.0066J	NA	<0.0100	<0.0100
Iron	(mg/l)	5	21.2S	NA	23.3S	22.1	21.3S
Iron (Dissolved)	(mg/l)	5	18.8S	20.8	NA	21.8	21.5
Lead	(mg/l)	0.0075	0.0016J	NA	0.0006J	0.0007J	<0.0020
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	NA	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	NA	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	NA	<0.00020	<0.00020
Nickel	(mg/l)	0.1	0.0049J	NA	0.0064J	<0.0100	<0.0100

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	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	HMW-26 HMW-26/061011 10/11/2006 Primary	HMW-26 DUP-001/061011 10/11/2006 Duplicate 1
Nickel (Dissolved)	(mg/l)	0.1	0.0052J	0.0134	NA	<0.0100	<0.0100
Selenium	(mg/l)	0.05	<0.0060	NA	<0.0060	<0.0060	<0.0060S
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	NA	<0.0060	<0.0060S
Silver	(mg/l)	0.05	<0.0100	NA	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	NA	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	0.0047J	NA	<0.0100	0.0092J	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	0.0033J	<0.0100	NA	0.0046J	0.0117
Zinc	(mg/l)	5	0.0065J	NA	0.0098J	<0.0100	<0.0100
Zinc (Dissolved)	(mg/l)	5	0.0021J	0.0025J	NA	<0.0100	<0.0100

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-27 HMW-27 12/16/2003 Primary	HMW-27 HMW-27/040422 04/22/2004 Primary	HMW-27 DUP-01/040422 04/22/2004 Duplicate 1	HMW-27 HMW-27/040707 07/07/2004 Primary	HMW-27 HMW-27/041020 10/20/2004 Primary
Antimony	(mg/l)	0.006	<0.005	<0.005	<0.005	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	NA	NA	NA	NA	NA
Arsenic	(mg/l)	0.05	<0.003	0.00185J	0.00118J	<0.0030	<0.0030
Arsenic (Dissolved)	(mg/l)	0.05	NA	NA	NA	NA	NA
Barium	(mg/l)	2	0.175	0.189	0.198	0.182	0.119
Barium (Dissolved)	(mg/l)	2	NA	NA	NA	NA	NA
Beryllium	(mg/l)	0.004	<0.001	<0.001	<0.001	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	NA	NA	NA	NA	NA
Cadmium	(mg/l)	0.005	0.000300	<0.002	0.000700	<0.0020	0.0006J
Cadmium (Dissolved)	(mg/l)	0.005	NA	NA	NA	NA	NA
Chromium	(mg/l)	0.1	0.00910J	<0.010	<0.010	<0.0100	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	NA	NA	NA	NA	NA
Cobalt	(mg/l)	1	0.00470J	0.00890J	0.00840J	0.0048J	0.0095J
Cobalt (Dissolved)	(mg/l)	1	NA	NA	NA	NA	NA
Iron	(mg/l)	5	NA	NA	NA	NA	NA
Iron (Dissolved)	(mg/l)	5	NA	NA	NA	NA	NA
Lead	(mg/l)	0.0075	0.000792	0.00171J	0.00256	<0.0020	0.0019J
Lead (Dissolved)	(mg/l)	0.0075	NA	NA	NA	NA	NA
Mercury	(mg/l)	0.002	<0.0002	<0.0002	<0.0002	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	NA	NA	NA	NA	NA
Nickel	(mg/l)	0.1	0.0112	0.0175	0.0175	0.0092J	0.0220

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-27 HMW-27 12/16/2003 Primary	HMW-27 HMW-27/040422 04/22/2004 Primary	HMW-27 DUP-01/040422 04/22/2004 Duplicate 1	HMW-27 HMW-27/040707 07/07/2004 Primary	HMW-27 HMW-27/041020 10/20/2004 Primary
Nickel (Dissolved)	(mg/l)	0.1	NA	NA	NA	NA	NA
Selenium	(mg/l)	0.05	<0.006	<0.006	<0.006	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	NA	NA	NA	NA	NA
Silver	(mg/l)	0.05	<0.010	<0.010	0.00330J	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	NA	NA	NA	NA	NA
Vanadium	(mg/l)	0.049	<0.010	<0.010	<0.010	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	NA	NA	NA	NA	NA
Zinc	(mg/l)	5	0.213	0.0800	0.0910	0.0431	0.170
Zinc (Dissolved)	(mg/l)	5	NA	NA	NA	NA	NA

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-27 HMW-27/050121 01/21/2005 Primary	HMW-27 HMW-27/050419 04/19/2005 Primary	HMW-27 HMW-27/050712 07/12/2005 Primary	HMW-27 HMW-27/051007 10/07/2005 Primary	HMW-27 HMW-27/060112 01/12/2006 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	<0.0030	<0.0030
Arsenic (Dissolved)	(mg/l)	0.05	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Barium	(mg/l)	2	0.142	0.114	0.0856	0.0982	0.121
Barium (Dissolved)	(mg/l)	2	0.130	0.111	0.0854	0.0936	0.0993
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	0.0005J	0.0004J	<0.0020	<0.0020	<0.0020
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	0.0006J	<0.0020	<0.0020	0.0005J
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	0.0056J	0.0060J	0.0063J	0.0083J	0.0053J
Cobalt (Dissolved)	(mg/l)	1	0.0046J	0.0059J	0.0070J	0.0069J	0.0057J
Iron	(mg/l)	5	NA	NA	NA	0.167	0.254
Iron (Dissolved)	(mg/l)	5	NA	NA	NA	0.175	0.151
Lead	(mg/l)	0.0075	<0.0020	<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	0.0093J	0.0201	0.0195	0.0210	0.0136

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-27 HMW-27/050121 01/21/2005 Primary	HMW-27 HMW-27/050419 04/19/2005 Primary	HMW-27 HMW-27/050712 07/12/2005 Primary	HMW-27 HMW-27/051007 10/07/2005 Primary	HMW-27 HMW-27/060112 01/12/2006 Primary
Nickel (Dissolved)	(mg/l)	0.1	0.0094J	0.0181	0.0161	0.0204	0.0118
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	0.0060J
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	0.0035J	0.0040J	0.0055J
Zinc	(mg/l)	5	0.0075J	<0.0100	0.0023J	0.0023J	<0.0100
Zinc (Dissolved)	(mg/l)	5	0.0066J	<0.0100	0.0050J	<0.0100	0.0025J

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-27 HMW-27/060406 04/06/2006 Primary	HMW-27 HMW-27/060710 07/10/2006 Primary	HMW-27 HMW-27/061012 10/12/2006 Primary	HMW-28 HMW-28 12/16/2003 Primary	HMW-28 HMW-28/040422 04/22/2004 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.005	<0.005
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	NA	NA
Arsenic	(mg/l)	0.05	<0.0030	<0.0030	<0.0030	0.00142J	0.00898
Arsenic (Dissolved)	(mg/l)	0.05	0.0015J	<0.0030	<0.0030	NA	NA
Barium	(mg/l)	2	0.161	0.108	0.101	0.107	0.273
Barium (Dissolved)	(mg/l)	2	0.155	0.0945	0.102	NA	NA
Beryllium	(mg/l)	0.004	0.0003J	<0.0010	<0.0010	<0.001	<0.001
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	NA	NA
Cadmium	(mg/l)	0.005	<0.0020	0.0018J	0.0005J	<0.002	0.00110J
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	0.0010J	0.0007J	NA	NA
Chromium	(mg/l)	0.1	0.0041J	0.0049J	<0.0100	0.00590J	<0.010
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	0.0052J	<0.0100	NA	NA
Cobalt	(mg/l)	1	0.0087J	0.0145	0.0090J	0.00920J	0.0145
Cobalt (Dissolved)	(mg/l)	1	0.0062J	0.0116	0.0054J	NA	NA
Iron	(mg/l)	5	2.71	1.11	0.617	NA	NA
Iron (Dissolved)	(mg/l)	5	2.53	0.181	0.167	NA	NA
Lead	(mg/l)	0.0075	<0.0020	0.0017J	<0.0020	0.00238	0.00759
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	NA	NA
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.0002	<0.0002
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	NA	NA
Nickel	(mg/l)	0.1	0.0163	0.0247	0.0125	0.0221	0.0325

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-27 HMW-27/060406 04/06/2006 Primary	HMW-27 HMW-27/060710 07/10/2006 Primary	HMW-27 HMW-27/061012 10/12/2006 Primary	HMW-28 HMW-28 12/16/2003 Primary	HMW-28 HMW-28/040422 04/22/2004 Primary
Nickel (Dissolved)	(mg/l)	0.1	0.0158	0.0209	0.0119	NA	NA
Selenium	(mg/l)	0.05	<0.0060	0.0083	<0.0060S	<0.006	0.0109
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	0.0080	<0.0060S	NA	NA
Silver	(mg/l)	0.05	<0.0100	0.0051J	<0.0100	<0.010	<0.010
Silver (Dissolved)	(mg/l)	0.05	<0.0100	0.0049J	<0.0100	NA	NA
Vanadium	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.010	<0.010
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	0.0059J	NA	NA
Zinc	(mg/l)	5	0.0058J	0.0297	0.0132	0.0827	0.0840
Zinc (Dissolved)	(mg/l)	5	0.0054J	0.0050J	<0.0100	NA	NA

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-28 HMW-28/040707 07/07/2004 Primary	HMW-28 HMW-28/041020 10/20/2004 Primary	HMW-28 HMW-28/050121 01/21/2005 Primary	HMW-28 HMW-28/050419 04/19/2005 Primary	HMW-28 HMW-28/050712 07/12/2005 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	NA	NA	<0.0050	<0.0050	<0.0050
Arsenic	(mg/l)	0.05	<0.0030	0.0044	<0.0030	<0.0030	0.0009J
Arsenic (Dissolved)	(mg/l)	0.05	NA	NA	<0.0030	<0.0030	0.0007J
Barium	(mg/l)	2	0.115	0.173	0.0848	0.0925	0.0976
Barium (Dissolved)	(mg/l)	2	NA	NA	0.0764	0.0900	0.0946
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	0.0003J	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	NA	NA	<0.0010	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	0.0011J	0.0004J	0.0003J	0.0005J	<0.0020
Cadmium (Dissolved)	(mg/l)	0.005	NA	NA	0.0008J	0.0005J	<0.0020
Chromium	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	NA	NA	<0.0100	<0.0100	<0.0100
Cobalt	(mg/l)	1	0.0068J	0.0193	0.0054J	0.0078J	0.0066J
Cobalt (Dissolved)	(mg/l)	1	NA	NA	0.0059J	0.0074J	0.0052J
Iron	(mg/l)	5	NA	NA	NA	NA	NA
Iron (Dissolved)	(mg/l)	5	NA	NA	NA	NA	NA
Lead	(mg/l)	0.0075	0.0028	0.0048	<0.0020	<0.0020	0.0008J
Lead (Dissolved)	(mg/l)	0.0075	NA	NA	<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	NA	NA	<0.00020	<0.00020	<0.00020
Nickel	(mg/l)	0.1	0.0218	0.0268	0.0186	0.0213	0.0213

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-28 HMW-28/040707 07/07/2004 Primary	HMW-28 HMW-28/041020 10/20/2004 Primary	HMW-28 HMW-28/050121 01/21/2005 Primary	HMW-28 HMW-28/050419 04/19/2005 Primary	HMW-28 HMW-28/050712 07/12/2005 Primary
Nickel (Dissolved)	(mg/l)	0.1	NA	NA	0.0180	0.0191	0.0156
Selenium	(mg/l)	0.05	0.0207	<0.0060	<0.0060	<0.0060	0.0074
Selenium (Dissolved)	(mg/l)	0.05	NA	NA	<0.0060	<0.0060	0.0107
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	NA	NA	<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	NA	NA	<0.0100	<0.0100	<0.0100
Zinc	(mg/l)	5	0.0741	0.129	0.0080J	0.0051J	0.0085J
Zinc (Dissolved)	(mg/l)	5	NA	NA	0.0058J	<0.0100	0.0040J

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-28 HMW-28/051007 10/07/2005 Primary	HMW-28 HMW-28/060113 01/13/2006 Primary	HMW-28 HMW-28/060406 04/06/2006 Primary	HMW-28 HMW-28/060710 07/10/2006 Primary	HMW-28 Dup-001/060710 07/10/2006 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	<0.0050
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	0.0903	0.0907	0.0912	0.0924	0.0922
Barium (Dissolved)	(mg/l)	2	0.0863	0.0772	0.0877	0.0837	0.0828
Beryllium	(mg/l)	0.004	<0.0010	0.0003J	<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	0.0007J	<0.0020	0.0012J	0.0013J
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	<0.0020	0.0004J	0.0007J	0.0013J
Chromium	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	0.0043J	0.0047J
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	0.0040J	0.0041J
Cobalt	(mg/l)	1	0.0089J	0.0091J	0.0113	0.0151	0.0133
Cobalt (Dissolved)	(mg/l)	1	0.0096J	0.0095J	0.0087J	0.0149	0.0126
Iron	(mg/l)	5	<0.0200	0.0070J	0.0562	0.019J	0.016J
Iron (Dissolved)	(mg/l)	5	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
Lead	(mg/l)	0.0075	<0.0020	<0.0020	<0.0020	<0.0020	0.0005J
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	0.0191	0.0179	0.0222	0.0247	0.0243

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-28 HMW-28/051007 10/07/2005 Primary	HMW-28 HMW-28/060113 01/13/2006 Primary	HMW-28 HMW-28/060406 04/06/2006 Primary	HMW-28 HMW-28/060710 07/10/2006 Primary	HMW-28 Dup-001/060710 07/10/2006 Duplicate 1
Nickel (Dissolved)	(mg/l)	0.1	0.0194	0.0129	0.0211	0.0234	0.0222
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	0.0270	0.0251
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	0.0171	0.0210
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	0.0035J	0.0048J
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Vanadium	(mg/l)	0.049	<0.0100	0.0051J	<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	0.0061J	0.0052J	0.0063J	0.0063J	0.0062J
Zinc (Dissolved)	(mg/l)	5	0.0027J	0.0028J	0.0046J	0.0063J	0.0072J

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-28 HMW-28/061012 10/12/2006 Primary	HMW-29 HMW-29 12/17/2003 Primary	HMW-29 HMW-29/040422 04/22/2004 Primary	HMW-29 HMW-29/040707 07/07/2004 Primary	HMW-29 HMW-29/041020 10/20/2004 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.005	<0.005	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	0.0023J	NA	NA	NA	NA
Arsenic	(mg/l)	0.05	<0.0030	0.00641	0.00662	0.0012J	0.0035
Arsenic (Dissolved)	(mg/l)	0.05	<0.0030	NA	NA	NA	NA
Barium	(mg/l)	2	0.0891	0.139	0.268	0.160	0.221
Barium (Dissolved)	(mg/l)	2	0.0915	NA	NA	NA	NA
Beryllium	(mg/l)	0.004	<0.0010	<0.001	<0.001	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	NA	NA	NA	NA
Cadmium	(mg/l)	0.005	0.0006J	0.000700	0.000900	0.0005J	0.0007J
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	NA	NA	NA	NA
Chromium	(mg/l)	0.1	<0.0100	<0.010	<0.010	<0.0100	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	NA	NA	NA	NA
Cobalt	(mg/l)	1	0.0056J	<0.010	0.00600J	0.0025J	0.0052J
Cobalt (Dissolved)	(mg/l)	1	0.0098J	NA	NA	NA	NA
Iron	(mg/l)	5	<0.0200	NA	NA	NA	NA
Iron (Dissolved)	(mg/l)	5	<0.0200	NA	NA	NA	NA
Lead	(mg/l)	0.0075	0.0005J	0.00160J	**0.0238**	0.0020J	**0.0134**
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	NA	NA	NA	NA
Mercury	(mg/l)	0.002	<0.00020	<0.0002	<0.0002	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	NA	NA	NA	NA
Nickel	(mg/l)	0.1	0.0153	0.00380J	0.0232	0.0073J	0.0152

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE. Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-28 HMW-28/061012 10/12/2006 Primary	HMW-29 HMW-29 12/17/2003 Primary	HMW-29 HMW-29/040422 04/22/2004 Primary	HMW-29 HMW-29/040707 07/07/2004 Primary	HMW-29 HMW-29/041020 10/20/2004 Primary
Nickel (Dissolved)	(mg/l)	0.1	0.0145	NA	NA	NA	NA
Selenium	(mg/l)	0.05	<0.0060	<0.006	<0.006	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	NA	NA	NA	NA
Silver	(mg/l)	0.05	<0.0100	0.00650J	<0.010	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	NA	NA	NA	NA
Vanadium	(mg/l)	0.049	<0.0100	<0.010	<0.010	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	0.0088J	NA	NA	NA	NA
Zinc	(mg/l)	5	0.0086J	0.0258	0.136	0.0402	0.0345
Zinc (Dissolved)	(mg/l)	5	<0.0100	NA	NA	NA	NA

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 HMW-29/052101 01/21/2005 Primary	HMW-29 HMW-29/050419 04/19/2005 Primary	HMW-29 HMW-29/050713 07/13/2005 Primary	HMW-29 DUP-001/050713 07/13/2005 Duplicate 1	HMW-29 HMW-29/051007 10/07/2005 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	0.0018J	0.0019J	0.0012J	0.0014J	0.0023J
Arsenic (Dissolved)	(mg/l)	0.05	0.0014J	<0.0030	0.0011J	0.0014J	0.0011J
Barium	(mg/l)	2	0.146	0.120	0.139	0.154	0.139
Barium (Dissolved)	(mg/l)	2	0.128	0.115	0.118	0.119	0.128
Beryllium	(mg/l)	0.004	0.0005J	<0.0010	<0.0010	<0.0010	0.0003J
Beryllium (Dissolved)	(mg/l)	0.004	0.0005J	<0.0010	0.0004J	0.0004J	<0.0010
Cadmium	(mg/l)	0.005	0.0003J	<0.0020	<0.0020	<0.0020	<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	<0.0100
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	0.0048J	0.0023J	0.0051J	0.0048J	<0.0100
Iron	(mg/l)	5	NA	NA	NA	NA	8.11
Iron (Dissolved)	(mg/l)	5	NA	NA	3.78	4.38	6.21
Lead	(mg/l)	0.0075	0.0028	<0.0020	0.0019J	0.0028	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	0.00010J	<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	0.0098J	0.0066J	0.0109	0.0095J	<0.0100

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 HMW-29/052101 01/21/2005 Primary	HMW-29 HMW-29/050419 04/19/2005 Primary	HMW-29 HMW-29/050713 07/13/2005 Primary	HMW-29 DUP-001/050713 07/13/2005 Duplicate 1	HMW-29 HMW-29/051007 10/07/2005 Primary
Nickel (Dissolved)	(mg/l)	0.1	0.0048J	0.0052J	0.0096J	0.0085J	<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	0.0149	0.0094J	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zinc	(mg/l)	5	0.0523	0.0223	0.0170	0.0177	<0.0100
Zinc (Dissolved)	(mg/l)	5	0.0325	0.0078J	0.0078J	0.0068J	<0.0100

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 DUP-001/051007 10/07/2005 Duplicate 1	HMW-29 HMW-29/060113 01/13/2006 Primary	HMW-29 DUP001/060113 01/13/2006 Duplicate 1	HMW-29 HMW-29/060406 04/06/2006 Primary	HMW-29 DUP-001/060406 04/06/2006 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	<0.0050S
Arsenic	(mg/l)	0.05	0.0010J	0.0017J	0.0013J	0.0020J	0.0019J
Arsenic (Dissolved)	(mg/l)	0.05	0.0013J	0.0011J	0.0014J	0.0019J	0.0028J
Barium	(mg/l)	2	0.125	0.148	0.137	0.133	0.128
Barium (Dissolved)	(mg/l)	2	0.126	0.125	0.120	0.120	0.119
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	0.0014J	0.0008J	0.0016J	0.0006J
Cadmium (Dissolved)	(mg/l)	0.005	<0.0020	0.0005J	0.0003J	<0.0020	0.0003J
Chromium	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	0.0071J	0.0059J
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	0.0029J	<0.0100	0.0044J	<0.0100
Iron	(mg/l)	5	6.81	8.35	8.13	10.2	9.43
Iron (Dissolved)	(mg/l)	5	7.12	8.63	8.63	8.48	8.56
Lead	(mg/l)	0.0075	0.0008J	<0.0020	<0.0020	0.0025	0.0006J
Lead (Dissolved)	(mg/l)	0.0075	0.0005J	<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	0.0034J	0.0067J	<0.0100

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 DUP-001/051007 10/07/2005 Duplicate 1	HMW-29 HMW-29/060113 01/13/2006 Primary	HMW-29 DUP001/060113 01/13/2006 Duplicate 1	HMW-29 HMW-29/060406 04/06/2006 Primary	HMW-29 DUP-001/060406 04/06/2006 Duplicate 1
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	0.0048J	0.0075J	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zinc	(mg/l)	5	<0.0100	<0.0100	<0.0100	0.0064J	0.0027J
Zinc (Dissolved)	(mg/l)	5	<0.0100	0.0024J	0.0033J	0.0034J	<0.0100

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 HMW-29/060710 07/10/2006 Primary	HMW-29 HMW-29/061012 10/12/2006 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	0.0030J	<0.0050
Arsenic	(mg/l)	0.05	0.0026J	0.0018J
Arsenic (Dissolved)	(mg/l)	0.05	0.0015J	0.0017J
Barium	(mg/l)	2	0.147	0.132
Barium (Dissolved)	(mg/l)	2	0.122	0.132
Beryllium	(mg/l)	0.004	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	<0.0010	<0.0010
Cadmium	(mg/l)	0.005	0.0013J	<0.0020
Cadmium (Dissolved)	(mg/l)	0.005	0.0013J	<0.0020
Chromium	(mg/l)	0.1	0.0057J	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	0.0054J	<0.0100
Cobalt	(mg/l)	1	0.0060J	<0.0100
Cobalt (Dissolved)	(mg/l)	1	0.0073J	0.0043J
Iron	(mg/l)	5	9.62	8.57
Iron (Dissolved)	(mg/l)	5	6.03	7.01
Lead	(mg/l)	0.0075	0.0013J	<0.0020
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020
Mercury	(mg/l)	0.002	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020
Nickel	(mg/l)	0.1	0.0115	<0.0100

See Notes at the End of Table

Table 5
Summary of Groundwater Analytical Results for Sentinel Wells
Metals (Total and Dissolved)

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 HMW-29/060710 07/10/2006 Primary	HMW-29 HMW-29/061012 10/12/2006 Primary
Nickel (Dissolved)	(mg/l)	0.1	0.0079J	<0.0100
Selenium	(mg/l)	0.05	<0.0060	<0.0060
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060
Silver	(mg/l)	0.05	0.0043J	<0.0100
Silver (Dissolved)	(mg/l)	0.05	0.0040J	<0.0100
Vanadium	(mg/l)	0.049	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	0.0085J
Zinc	(mg/l)	5	0.0118	<0.0100
Zinc (Dissolved)	(mg/l)	5	0.0047J	0.0021J

See Notes at the End of Table

Table 6
Summary of Groundwater Analytical Results for Sentinel Wells
General Chemistry and Natural Attenuation Parameters

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HMW-25 12/16/2003 Primary	HMW-25 HMW-25/040422 04/22/2004 Primary	HMW-25 HMW-25/040707 07/07/2004 Primary	HMW-25 DUP-001/040707 07/07/2004 Duplicate 1	HMW-25 HMW-25/041019 10/19/2004 Primary
Alkalinity (as CaCO3)	(mg/l)		NA	NA	NA	NA	496
Ammonia (as N)	(mg/l)		NA	NA	NA	NA	NA
Chloride	(mg/l)	200	NA	NA	NA	NA	96
COD	(mg/l)		NA	NA	NA	NA	16J
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.007	<0.007	<0.050
Hardness (as CaCO3)	(mg/l)		NA	NA	NA	NA	540
Nitrate (as N)	(mg/l)	10	NA	NA	NA	NA	NA
Nitrate Plus Nitrite (as N)	(mg/l)		NA	NA	NA	NA	NA
Nitrite (as N)	(mg/l)		NA	NA	NA	NA	NA
Phosphorus	(mg/l)		NA	NA	NA	NA	NA
Phosphorus (Dissolved)	(mg/l)		NA	NA	NA	NA	NA
Sulfate	(mg/l)	400	NA	NA	NA	NA	57
Sulfide	(mg/l)		NA	NA	NA	NA	0.02J
Total dissolved solids (TDS)	(mg/l)		NA	NA	NA	NA	714
Total Organic Carbon	(mg/l)		NA	NA	NA	NA	NA
Total suspended solids	(mg/l)		NA	NA	NA	NA	9

See Notes at the End of Table

Table 6
Summary of Groundwater Analytical Results for Sentinel Wells
General Chemistry and Natural Attenuation Parameters

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-25 HMW-25/050121 01/21/2005 Primary	HMW-25 Dup-001/050121 01/21/2005 Duplicate 1	HMW-25 HMW-25/050414 04/14/2005 Primary	HMW-25 HMW-25/051006 10/06/2005 Primary	HMW-25 HMW-25/060113 01/13/2006 Primary
Alkalinity (as CaCO3)	(mg/l)		476	480	430	458	476
Ammonia (as N)	(mg/l)		NA	NA	NA	<0.10	0.04J
Chloride	(mg/l)	200	69	66	100	57	50
COD	(mg/l)		<20	<20	26	15J	10J
Cyanide	(mg/l)	0.2	<0.050	<0.050	<0.050	<0.050	<0.007
Hardness (as CaCO3)	(mg/l)		490	492	496	400	410
Nitrate (as N)	(mg/l)	10	NA	NA	NA	<0.01	0.017
Nitrate Plus Nitrite (as N)	(mg/l)		NA	NA	NA	<0.01	0.017
Nitrite (as N)	(mg/l)		NA	NA	NA	<0.0100	<0.010
Phosphorus	(mg/l)		NA	NA	NA	0.052	0.016J
Phosphorus (Dissolved)	(mg/l)		NA	NA	NA	<0.020	0.013J
Sulfate	(mg/l)	400	66	69	41	42	<40
Sulfide	(mg/l)		<0.05	<0.05	<0.05	<0.05	<0.05
Total dissolved solids (TDS)	(mg/l)		650	654	662	542H	604
Total Organic Carbon	(mg/l)		NA	NA	NA	2.1	2.3
Total suspended solids	(mg/l)		13	10	6	<6	8

See Notes at the End of Table

Table 6
Summary of Groundwater Analytical Results for Sentinel Wells
General Chemistry and Natural Attenuation Parameters

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

PERIOD: From 12/16/2003 thru 10/12/2006 - 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-26 HWM-26 12/16/2003 *Primary*	HMW-26 HMW-26/040422 04/22/2004 *Primary*
Alkalinity (as CaCO3)	(mg/l)		460	472	452	NA	NA
Ammonia (as N)	(mg/l)		<0.10	<0.10S	<0.10	NA	NA
Chloride	(mg/l)	200	62	98	85	NA	NA
COD	(mg/l)		<20	9J	<20	NA	NA
Cyanide	(mg/l)	0.2	<0.050	<0.007	<0.007	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		420	530	500	NA	NA
Nitrate (as N)	(mg/l)	10	0.010J	0.118	0.298	NA	NA
Nitrate Plus Nitrite (as N)	(mg/l)		0.010J	0.118	0.303	NA	NA
Nitrite (as N)	(mg/l)		<0.010	<0.010	<0.010	NA	NA
Phosphorus	(mg/l)		0.023S	<0.020	0.019J	NA	NA
Phosphorus (Dissolved)	(mg/l)		<0.020	<0.020	<0.020	NA	NA
Sulfate	(mg/l)	400	<40	50	50	NA	NA
Sulfide	(mg/l)		<0.05	<0.05	<0.05	NA	NA
Total dissolved solids (TDS)	(mg/l)		658	684	608	NA	NA
Total Organic Carbon	(mg/l)		1.5	1.9	1.9	NA	NA
Total suspended solids	(mg/l)		9	<6	<6	NA	NA

See Notes at the End of Table

Table 6
Summary of Groundwater Analytical Results for Sentinel Wells
General Chemistry and Natural Attenuation Parameters

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-26 HMW-26/040707 07/07/2004 Primary	HMW-26 HMW-26/041020 10/20/2004 Primary	HMW-26 Dup-001/041020 10/20/2004 Duplicate 1	HMW-26 HMW-26/050121 01/21/2005 Primary	HMW-26 HMW-26/050414 04/14/2005 Primary
Alkalinity (as CaCO3)	(mg/l)		NA	584	604	578	600
Ammonia (as N)	(mg/l)		NA	NA	NA	NA	NA
Chloride	(mg/l)	200	NA	92	100	93	75
COD	(mg/l)		NA	16J	23	12J	20
Cyanide	(mg/l)	0.2	<0.007	<0.050	<0.050	<0.050	<0.050
Hardness (as CaCO3)	(mg/l)		NA	910	920	990	850
Nitrate (as N)	(mg/l)	10	NA	NA	NA	NA	NA
Nitrate Plus Nitrite (as N)	(mg/l)		NA	NA	NA	NA	NA
Nitrite (as N)	(mg/l)		NA	NA	NA	NA	NA
Phosphorus	(mg/l)		NA	NA	NA	NA	NA
Phosphorus (Dissolved)	(mg/l)		NA	NA	NA	NA	NA
Sulfate	(mg/l)	400	NA	301	341	298	224
Sulfide	(mg/l)		NA	0.02J	0.03J	<0.05	<0.05
Total dissolved solids (TDS)	(mg/l)		NA	1210	1230	1230	1080
Total Organic Carbon	(mg/l)		NA	NA	NA	NA	NA
Total suspended solids	(mg/l)		NA	47	67	58	47

See Notes at the End of Table

Table 6
Summary of Groundwater Analytical Results for Sentinel Wells
General Chemistry and Natural Attenuation Parameters

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-26 DUP002/050414 04/14/2005 Duplicate 1	HMW-26 HMW-26/051006 10/06/2005 Primary	HMW-26 HMW-26/060112 01/12/2006 Primary	HMW-26 HMW-26/060407 04/07/2006 Primary	HMW-26 HMW-26/060710 07/10/2006 Primary
Alkalinity (as CaCO3)	(mg/l)		608	588	572	604	586
Ammonia (as N)	(mg/l)		NA	0.35	0.30	0.29	NA
Chloride	(mg/l)	200	75	140	134	109S	84
COD	(mg/l)		13J	33	25	<20	NA
Cyanide	(mg/l)	0.2	<0.050	<0.050	<0.007	<0.050	<0.007
Hardness (as CaCO3)	(mg/l)		870	700	780	840	740
Nitrate (as N)	(mg/l)	10	NA	0.02	0.016	0.073	NA
Nitrate Plus Nitrite (as N)	(mg/l)		NA	0.02	0.026	0.073	NA
Nitrite (as N)	(mg/l)		NA	<0.0100	0.010	<0.010	<0.010
Phosphorus	(mg/l)		NA	0.389	0.307	0.342	NA
Phosphorus (Dissolved)	(mg/l)		NA	0.389	0.310	0.325	0.345
Sulfate	(mg/l)	400	243	151	132	135	148
Sulfide	(mg/l)		<0.05	<0.05	<0.05	0.02J	<0.05
Total dissolved solids (TDS)	(mg/l)		1090	1070H	1040	1030	954
Total Organic Carbon	(mg/l)		NA	3.1	2.2	2.5	2.8
Total suspended solids	(mg/l)		39	40	21	79	38

See Notes at the End of Table

Table 6
Summary of Groundwater Analytical Results for Sentinel Wells
General Chemistry and Natural Attenuation Parameters

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-26 HMW-26/060711 07/11/2006 Primary	HMW-26 HMW-26/061011 10/11/2006 Primary	HMW-26 DUP-001/061011 10/11/2006 Duplicate 1	HMW-27 HMW-27 12/16/2003 Primary	HMW-27 HMW-27/040422 04/22/2004 Primary
Alkalinity (as CaCO3)	(mg/l)		NA	598	600	NA	NA
Ammonia (as N)	(mg/l)		0.21	0.28	0.27S	NA	NA
Chloride	(mg/l)	200	NA	120	125	NA	NA
COD	(mg/l)		24	<20	<20	NA	NA
Cyanide	(mg/l)	0.2	NA	<0.007	<0.007	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		NA	780	760	NA	NA
Nitrate (as N)	(mg/l)	10	0.012J	<0.050	<0.050	NA	NA
Nitrate Plus Nitrite (as N)	(mg/l)		0.012J	<0.050	<0.050	NA	NA
Nitrite (as N)	(mg/l)		NA	<0.010	<0.010	NA	NA
Phosphorus	(mg/l)		0.367	0.384	0.392	NA	NA
Phosphorus (Dissolved)	(mg/l)		NA	0.347	0.381	NA	NA
Sulfate	(mg/l)	400	NA	207	205	NA	NA
Sulfide	(mg/l)		NA	0.05J	0.02J	NA	NA
Total dissolved solids (TDS)	(mg/l)		NA	1030	1060	NA	NA
Total Organic Carbon	(mg/l)		NA	3.1	3.0	NA	NA
Total suspended solids	(mg/l)		NA	46	36	NA	NA

See Notes at the End of Table

Table 6
Summary of Groundwater Analytical Results for Sentinel Wells
General Chemistry and Natural Attenuation Parameters

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-27 DUP-01/040422 04/22/2004 Duplicate 1	HMW-27 HMW-27/040707 07/07/2004 Primary	HMW-27 HMW-27/041020 10/20/2004 Primary	HMW-27 HMW-27/050121 01/21/2005 Primary	HMW-27 HMW-27/050419 04/19/2005 Primary
Alkalinity (as CaCO3)	(mg/l)		NA	NA	628	602	618
Ammonia (as N)	(mg/l)		NA	NA	NA	NA	NA
Chloride	(mg/l)	200	NA	NA	20	45	21
COD	(mg/l)		NA	NA	23	<20	16J
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.050	<0.050	<0.050
Hardness (as CaCO3)	(mg/l)		NA	NA	830	780	750
Nitrate (as N)	(mg/l)	10	NA	NA	NA	NA	NA
Nitrate Plus Nitrite (as N)	(mg/l)		NA	NA	NA	NA	NA
Nitrite (as N)	(mg/l)		NA	NA	NA	NA	NA
Phosphorus	(mg/l)		NA	NA	NA	NA	NA
Phosphorus (Dissolved)	(mg/l)		NA	NA	NA	NA	NA
Sulfate	(mg/l)	400	NA	NA	208	146	154
Sulfide	(mg/l)		NA	NA	0.03J	<0.05	<0.05
Total dissolved solids (TDS)	(mg/l)		NA	NA	928	888	874
Total Organic Carbon	(mg/l)		NA	NA	NA	NA	NA
Total suspended solids	(mg/l)		NA	NA	35	9	8

See Notes at the End of Table

Table 6
Summary of Groundwater Analytical Results for Sentinel Wells
General Chemistry and Natural Attenuation Parameters

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-27 HMW-27/051007 10/07/2005 Primary	HMW-27 HMW-27/060112 01/12/2006 Primary	HMW-27 HMW-27/060406 04/06/2006 Primary	HMW-27 HMW-27/060710 07/10/2006 Primary	HMW-27 HMW-27/061012 10/12/2006 Primary
Alkalinity (as CaCO3)	(mg/l)		648	642	640	614	592
Ammonia (as N)	(mg/l)		<0.10	0.04J	<0.10	<0.10	<0.10
Chloride	(mg/l)	200	35	40	20S	48	44
COD	(mg/l)		33	14J	<20	48	<20
Cyanide	(mg/l)	0.2	<0.050	0.006J	<0.050	<0.007	<0.007
Hardness (as CaCO3)	(mg/l)		800	870	760	870	870
Nitrate (as N)	(mg/l)	10	<0.01	0.011	<0.050	0.069	0.012J
Nitrate Plus Nitrite (as N)	(mg/l)		<0.01	0.011	<0.050	0.069	0.019J
Nitrite (as N)	(mg/l)		<0.0100	<0.010	<0.010	<0.010	<0.010
Phosphorus	(mg/l)		0.165	0.018J	0.033	0.036	<0.020B
Phosphorus (Dissolved)	*(mg/l)*		<0.020	0.016J	0.013J	<0.020	<0.020
Sulfate	(mg/l)	400	200	199	178S	282	239
Sulfide	(mg/l)		<0.05	<0.05	<0.05	<0.05	<0.05
Total dissolved solids (TDS)	(mg/l)		934	1020	912	1070	1090
Total Organic Carbon	(mg/l)		4.8	4.4	2.8	4.4	3.8
Total suspended solids	(mg/l)		<6	<6	<6	<6	<6

See Notes at the End of Table

Table 6
Summary of Groundwater Analytical Results for Sentinel Wells
General Chemistry and Natural Attenuation Parameters

The Hartford Working Group / Hartford, Illinois
1100505040 - Madison County -- ILR000128249

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-28 HMW-28 12/16/2003 Primary	HMW-28 HMW-28/040422 04/22/2004 Primary	HMW-28 HMW-28/040707 07/07/2004 Primary	HMW-28 HMW-28/041020 10/20/2004 Primary	HMW-28 HMW-28/050121 01/21/2005 Primary
Alkalinity (as CaCO3)	(mg/l)		NA	NA	NA	548	540
Ammonia (as N)	(mg/l)		NA	NA	NA	NA	NA
Chloride	(mg/l)	200	NA	NA	NA	36	35
COD	(mg/l)		NA	NA	NA	23	<20
Cyanide	(mg/l)	0.2	<0.007	0.00400J	<0.007	<0.050	<0.050
Hardness (as CaCO3)	(mg/l)		NA	NA	NA	630	610
Nitrate (as N)	(mg/l)	10	NA	NA	NA	NA	NA
Nitrate Plus Nitrite (as N)	(mg/l)		NA	NA	NA	NA	NA
Nitrite (as N)	(mg/l)		NA	NA	NA	NA	NA
Phosphorus	(mg/l)		NA	NA	NA	NA	NA
Phosphorus (Dissolved)	(mg/l)		NA	NA	NA	NA	NA
Sulfate	(mg/l)	400	NA	NA	NA	82	79
Sulfide	(mg/l)		NA	NA	NA	<0.50	<0.05
Total dissolved solids (TDS)	(mg/l)		NA	NA	NA	686	678
Total Organic Carbon	(mg/l)		NA	NA	NA	NA	NA
Total suspended solids	(mg/l)		NA	NA	NA	48	6

See Notes at the End of Table

Table 6
Summary of Groundwater Analytical Results for Sentinel Wells
General Chemistry and Natural Attenuation Parameters

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-28 HMW-28/050419 04/19/2005 Primary	HMW-28 HMW-28/051007 10/07/2005 Primary	HMW-28 HMW-28/060113 01/13/2006 Primary	HMW-28 HMW-28/060406 04/06/2006 Primary	HMW-28 HMW-28/060710 07/10/2006 Primary
Alkalinity (as CaCO3)	(mg/l)		538	526	552	544	558
Ammonia (as N)	(mg/l)		NA	<0.10	<0.10	<0.10	<0.10
Chloride	(mg/l)	200	45	28	35	33	24
COD	(mg/l)		11J	41	23	<20	14J
Cyanide	(mg/l)	0.2	<0.050	<0.050	<0.007	<0.050	<0.007
Hardness (as CaCO3)	(mg/l)		620	550	630	570	660
Nitrate (as N)	(mg/l)	10	NA	0.01	0.081	0.306	1.24
Nitrate Plus Nitrite (as N)	(mg/l)		NA	0.01	0.081	0.324	1.32
Nitrite (as N)	(mg/l)		NA	<0.0100	<0.010	0.018	0.083
Phosphorus	(mg/l)		NA	<0.020	0.016J	0.015J	<0.020
Phosphorus (Dissolved)	(mg/l)		NA	<0.020	0.016J	0.013J	0.013J
Sulfate	(mg/l)	400	103	76	73	63	69
Sulfide	(mg/l)		<0.05	<0.05	<0.05	<0.05	<0.05
Total dissolved solids (TDS)	(mg/l)		724	690	708	714	696
Total Organic Carbon	(mg/l)		NA	3.6	4.5	3.6	4.1
Total suspended solids	(mg/l)		8	<6	<6	<6	<6

See Notes at the End of Table

Table 6
Summary of Groundwater Analytical Results for Sentinel Wells
General Chemistry and Natural Attenuation Parameters

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-28 Dup-001/060710 07/10/2006 Duplicate 1	HMW-28 HMW-28/061012 10/12/2006 Primary	HMW-29 HMW-29 12/17/2003 Primary	HMW-29 HMW-29/040422 04/22/2004 Primary	HMW-29 HMW-29/040707 07/07/2004 Primary
Alkalinity (as CaCO3)	(mg/l)		544	550	NA	NA	NA
Ammonia (as N)	(mg/l)		<0.10	0.13	NA	NA	NA
Chloride	(mg/l)	200	24	29	NA	NA	NA
COD	(mg/l)		19J	<20	NA	NA	NA
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.007	0.00280J	<0.007
Hardness (as CaCO3)	(mg/l)		600	630	NA	NA	NA
Nitrate (as N)	(mg/l)	10	1.32	1.43	NA	NA	NA
Nitrate Plus Nitrite (as N)	(mg/l)		1.42	1.52	NA	NA	NA
Nitrite (as N)	(mg/l)		0.101	0.093	NA	NA	NA
Phosphorus	(mg/l)		<0.020	<0.020	NA	NA	NA
Phosphorus (Dissolved)	(mg/l)		<0.020	<0.022	NA	NA	NA
Sulfate	(mg/l)	400	64	71	NA	NA	NA
Sulfide	(mg/l)		<0.05	<0.05	NA	NA	NA
Total dissolved solids (TDS)	(mg/l)		706	718	NA	NA	NA
Total Organic Carbon	(mg/l)		4.1	4.0	NA	NA	NA
Total suspended solids	(mg/l)		<6	<6	NA	NA	NA

See Notes at the End of Table

Table 6
Summary of Groundwater Analytical Results for Sentinel Wells
General Chemistry and Natural Attenuation Parameters

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 HMW-29/041020 10/20/2004 Primary	HMW-29 HMW-29/052101 01/21/2005 Primary	HMW-29 HMW-29/050419 04/19/2005 Primary	HMW-29 HMW-29/051007 10/07/2005 Primary	HMW-29 DUP-001/051007 10/07/2005 Duplicate 1
Alkalinity (as CaCO3)	(mg/l)		654	510	498	468	484
Ammonia (as N)	(mg/l)		NA	NA	NA	0.16	0.06J
Chloride	(mg/l)	200	15	15	14	17	12
COD	(mg/l)		46	52	37	23	20
Cyanide	(mg/l)	0.2	<0.050	<0.050	<0.050	<0.050	<0.050
Hardness (as CaCO3)	(mg/l)		540	570	560	500	470
Nitrate (as N)	(mg/l)	10	NA	NA	NA	0.04	0.02
Nitrate Plus Nitrite (as N)	(mg/l)		NA	NA	NA	0.04	0.02
Nitrite (as N)	(mg/l)		NA	NA	NA	<0.0100	<0.0100
Phosphorus	(mg/l)		NA	NA	NA	0.119	0.095
Phosphorus (Dissolved)	(mg/l)		NA	NA	NA	0.045	0.059
Sulfate	(mg/l)	400	84	99	108	91	74
Sulfide	(mg/l)		<1.2	<0.50	<0.05	<0.05	<0.05
Total dissolved solids (TDS)	(mg/l)		622	550	664	614	612
Total Organic Carbon	(mg/l)		NA	NA	NA	2.0	1.4
Total suspended solids	(mg/l)		550	91	18	37	20

See Notes at the End of Table

Table 6
Summary of Groundwater Analytical Results for Sentinel Wells
General Chemistry and Natural Attenuation Parameters

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 HMW-29/060113 01/13/2006 Primary	HMW-29 DUP001/060113 01/13/2006 Duplicate 1	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
Alkalinity (as CaCO3)	(mg/l)		512	514	492	478	500
Ammonia (as N)	(mg/l)		0.11	0.12	0.07J	0.08J	0.09J
Chloride	(mg/l)	200	31	29	17	17	5
COD	(mg/l)		<20	<20	<20	<20	12J
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.050	<0.050	<0.007
Hardness (as CaCO3)	(mg/l)		580	610	540	510	460
Nitrate (as N)	(mg/l)	10	0.017	0.044	<0.050	<0.050	<0.050
Nitrate Plus Nitrite (as N)	(mg/l)		0.017	0.044	<0.050	<0.050	<0.050
Nitrite (as N)	(mg/l)		<0.010	<0.010	<0.010	<0.010	<0.010
Phosphorus	(mg/l)		0.088	0.092	0.110	0.103	0.173
Phosphorus (Dissolved)	(mg/l)		0.080	0.077	0.084	0.079	0.061
Sulfate	(mg/l)	400	114	122	72	74	47
Sulfide	(mg/l)		<0.05	<0.05	0.03J	<0.05	<0.05
Total dissolved solids (TDS)	(mg/l)		728	706	636	648	588
Total Organic Carbon	(mg/l)		1.6	1.4	0.9J	1.2	1.6
Total suspended solids	(mg/l)		8	8	20	16	48

See Notes at the End of Table

Table 6
Summary of Groundwater Analytical Results for Sentinel Wells
General Chemistry and Natural Attenuation Parameters

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

PERIOD: From 12/16/2003 thru 10/12/2006 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	COMPARISON VALUE	HMW-29 HMW-29/061012 10/12/2006 Primary
Alkalinity (as CaCO3)	(mg/l)		460
Ammonia (as N)	(mg/l)		0.08J
Chloride	(mg/l)	200	17
COD	(mg/l)		<20
Cyanide	(mg/l)	0.2	<0.007
Hardness (as CaCO3)	(mg/l)		620
Nitrate (as N)	(mg/l)	10	0.051S
Nitrate Plus Nitrite (as N)	(mg/l)		0.056S
Nitrite (as N)	(mg/l)		<0.010
Phosphorus	(mg/l)		0.116
Phosphorus (Dissolved)	(mg/l)		0.089
Sulfate	(mg/l)	400	65
Sulfide	(mg/l)		<0.05
Total dissolved solids (TDS)	(mg/l)		616
Total Organic Carbon	(mg/l)		1.6
Total suspended solids	(mg/l)		20

See Notes at the End of Table

NOTES

TABLES 4, 5, and 6

Tier 1 GRO-Class I = Tier 1 Class 1 Groundwater Remediation Objectives from Illinois EPA's Tiered Approach to Corrective Action Objectives (35 IAC Part 742).

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.

S = Spine recovery outside accepted recovery limits.

APPENDIX A

MONITORING WELL INSPECTION REPORT

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hartford Working Group
Date(s) of Inspection: 10/4/06
Project No.: ~~17-00[illegible]~~ 07003-003095.15-007
Field Personnel: Sherri Marlo / Jen Long

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-27	NM	33.63	NC	2	PVC	Y	Y	Y	Y	N	Y	Y	N	N	Y	Y	N	N	—	—		Y	Y	N	DP
HMW-28	NM	33.82	NC	2	PVC	Y	Y	Y	Y	N	Y	Y	N	N	Y	Y	N	N	—	—		Y	Y	N	DP
HMW-29	NM	31.47	NC	2	PVC	Y	Y	Y	Y	N	Y	Y	N	N	Y	Y	N	N	—	—		Y	Y	N	DP
HMW-25	NM	28.65	NC	2	PVC	Y	Y	Y	Y	N	Y	Y	N	N	Y	Y	N	N	—	—		Y	Y	N	DP
HMW-26	NM	31.21	NC	2	PVC	Y	Y	Y	Y	N	Y	Y	N	N	Y	Y	N	N	—	—		Y	Y	N	DP

ADDITIONAL COMMENTS: Rubber seal missing on well. Didn't have one that size to replace it. HMW-28. Missing a bolt & Rubber Seal. Replaced bolt but not rubber seal.

NC = DATA NOT COLLECTED; DP = DEDICATED PUMP

APPENDIX B

SUMMARY OF INDICATOR PARAMETER MEASUREMENTS – OCTOBER 2006

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-25-061011-10-11-2006.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

Operator Name:	N_BOLIVAR
Company Name:	BV-Clayton
Project Name:	Hartford Quarterly Groundwater Sampling - 07003-003095.15-007
Site Name:	Hartford Working Group
Well ID:	HMW-25-061011

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 PUMP
Tubing Type:	polyethylene
Tubing Diam:	0.17 [in]
Tubing Length:	37.37 [ft]
Well Depth:	38.37 [ft]
Well Diam:	2 [in]
Screen Len:	176.4 [in]
Screen Depth:	23.67 [ft]
Pump Inlet Depth:	0 [in]
Depth to Water:	31.19 [ft]
Pump Level (TOC):	33.19 [ft]

Final Pumping Rate:	240 [mL/min]
Stable Draw Down:	0.16 [ft]
Total Volume Formula:	Volume = cup (200 mL) + tubing (167.4 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)
Calculated Total Volume:	284.38 [mL]
Actual Total Volume:	284.38 [mL]
Calculated Measurement Interval:	72 [sec]
Actual Measurement Interval:	72 [sec]

Start date/time:	10/11/2006	14:22:35
End date/time:	10/11/2006	15:16:43
Total Time:	0:54:08	

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	158.71	-0.3	1.41	-0.27			1001.26	-2.11	-0.52	-0.74	16.11	-0.01	15:12:39
3	6.68	0	158.33	-0.39	0.88	-0.54			1001.47	0.21	-0.2	0.32	16.09	-0.02	15:13:52
2	6.67	-0.01	158.41	0.08	1.03	0.16			999.79	-1.68	0.39	0.59	16.08	0	15:14:08
1	6.67	0	157.94	-0.47	4.36	3.33			997.28	-2.51	6.34	5.95	16.04	-0.04	15:15:06
0	6.68	0.01	157.47	-0.47	5.27	0.9			992.51	-4.77	0.37	-5.97	16.02	-0.02	15:16:09

pH Min:	6.67
pH Max:	6.68
ORP Min:	157.47
ORP Max:	158.71
DO Min:	0.88
DO Max:	5.27
RDO Min:	
RDO Max:	
Cond Min:	992.51
Cond Max:	1001.47
Turb Min:	-0.52
Turb Max:	6.34
Temp Min:	16.02
Temp Max:	16.11

Notes

Device Record:

In-Situ Inc.	Troll 9000 Pro XP
Report generated:	10/21/2006 15 21 25
Report from file	\Hartford Quarterly Groundwater Sampling - 07003-003095 15-007-Hartford Working Group -HMW-25-061011-10-11-2006.flo.bin
Win-Situ® Version	4 57 0 0
Serial number	45292
Firmware Version	2
Unit name	MP Troll 9000
Test name:	LowFlow
Test defined on:	10/11/2006 14 22.35
Test started on:	10/11/2006 14 22.35
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	50	

TOTAL DATA SAMPLES 50

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
10/11/2006	14:22:35	0	18.16	29.147	3.6	2.785	129	6.76	7.98	87.139	1077.48
10/11/2006	14:23:19	44	16.34	29.146	2.7	2.811	140	6.66	5.85	61.5516	1019
10/11/2006	14:24:04	89	16.02	29.147	0.7	2.811	143	6.65	5.73	59.8479	1009.3
10/11/2006	14:24:48	133	15.94	29.149	137.6	2.811	145	6.65	5.12	53.427	1005.05
10/11/2006	14:25:32	177	15.91	29.147	158.7	2.811	145	6.65	3.73	38.8541	1004.2
10/11/2006	14:26:16	221	16.02	29.147	6.5	2.785	146	6.66	2.71	28.3133	1003.57
10/11/2006	14:27:39	304	15.99	29.149	0.5	2.759	146	6.66	1.43	14.9418	1002.09
10/11/2006	14:28:53	378	15.96	29.148	1	2.785	147	6.66	4.27	44.5084	1001.25
10/11/2006	14:29:22	407	15.98	29.147	1.1	2.785	147	6.66	2.32	24.267	1001.46
10/11/2006	14:30:35	480	15.97	29.147	-0.3	2.811	147	6.67	1.71	17.882	1003.36
10/11/2006	14:31:48	553	15.94	29.146	0.1	2.811	147	6.66	2.57	26.758	1003.15
10/11/2006	14:33:00	625	15.91	29.145	-0.1	2.811	148	6.66	2.13	22.2227	999.79
10/11/2006	14:34:12	697	15.95	29.147	-0.1	2.811	148	6.67	1.07	11.1972	1000.21
10/11/2006	14:35:25	770	15.96	29.145	-0.3	2.811	149	6.66	4.15	43.2699	1001.26
10/11/2006	14:36:38	843	15.97	29.146	0.2	2.811	149	6.66	1.52	15.823	999.37
10/11/2006	14:37:51	916	16	29.144	1.2	2.811	149	6.66	1.07	11.1688	1002.53
10/11/2006	14:39:03	988	16.03	29.144	-0.4	2.759	150	6.67	1	10.4461	1002.53
10/11/2006	14:40:15	1060	16.01	29.143	0.1	2.811	150	6.66	2.16	22.5615	1003.79
10/11/2006	14:41:28	1133	16.03	29.142	0.1	2.811	151	6.66	1.08	11.2974	998.96
10/11/2006	14:42:41	1206	15.99	29.142	0.1	2.811	151	6.66	1.07	11.1694	997.7
10/11/2006	14:43:53	1278	16.03	29.141	-0.2	2.759	151	6.66	2.5	26.0951	999.8
10/11/2006	14:45:05	1350	16.04	29.14	0.5	2.811	152	6.66	1.49	15.5957	1002.32
10/11/2006	14:46:19	1424	16.09	29.139	-0.4	2.785	152	6.67	1.11	11.6091	1001.47
10/11/2006	14:47:31	1496	16.13	29.138	-0.2	2.785	152	6.66	1.02	10.6523	1003.58
10/11/2006	14:48:44	1569	16.17	29.137	-0.5	2.811	153	6.67	1.05	11.0173	999.38
10/11/2006	14:49:56	1641	16.25	29.139	32.1	2.811	153	6.66	1.4	14.693	1004.43
10/11/2006	14:51:08	1713	16.27	29.139	-0.4	2.785	153	6.66	1.34	14.0772	1004.85
10/11/2006	14:52:22	1787	16.24	29.138	-0.5	2.811	154	6.66	1.19	12.4533	1003.37
10/11/2006	14:53:34	1859	16.24	29.138	1.1	2.785	154	6.66	3.65	38.2774	998.11
10/11/2006	14:54:47	1932	16.2	29.137	-0.5	2.811	154	6.67	1.4	14.7388	1001.26
10/11/2006	14:55:59	2004	16.16	29.137	-0.1	2.811	154	6.66	1.05	11.041	1001.26
10/11/2006	14:57:11	2076	16.07	29.137	0.1	2.811	154	6.67	1.21	12.6353	994.99
10/11/2006	14:58:25	2150	16.07	29.136	-0.1	2.811	154	6.66	0.92	9.6141	998.11
10/11/2006	14:59:37	2222	16.05	29.136	0	2.811	155	6.66	1.35	14.1601	997.69
10/11/2006	15:00:50	2295	16.18	29.136	-0.3	2.811	154	6.66	1.05	10.9924	1002.31
10/11/2006	15:02:01	2366	16.48	29.135	-0.3	2.811	154	6.66	0.8	8.4109	1008.24
10/11/2006	15:03:15	2440	16.55	29.137	-0.2	2.785	154	6.66	0.62	6.5298	1009.95
10/11/2006	15:04:28	2513	16.6	29.138	-0.2	2.811	154	6.66	0.6	6.3328	1010.59
10/11/2006	15:05:40	2585	14.11	29.144	-0.4	2.785	159	7.02	7.6	75.8723	1.43
10/11/2006	15:06:53	2658	15.5	29.137	5.2	2.811	126	7.79	9.74	100.2532	1.43
10/11/2006	15:08:04	2729	16.7	29.134	-0.1	2.785	158	6.66	4.11	43.5805	1012.09
10/11/2006	15:09:18	2803	16.36	29.134	-0.5	2.785	159	6.66	2.42	25.4644	1006.75
10/11/2006	15:10:31	2876	16.17	29.134	0.9	2.785	159	6.67	1.97	20.684	1004.42
10/11/2006	15:11:43	2948	16.13	29.133	0	2.785	159	6.67	1.7	17.8318	1004
10/11/2006	15:11:58	2963	16.12	29.133	0.2	2.785	159	6.67	1.68	17.5999	1003.37
10/11/2006	15:12:39	3004	16.11	29.132	-0.5	2.811	159	6.67	1.41	14.7763	1001.26
10/11/2006	15:13:52	3077	16.08	29.133	-0.2	2.811	158	6.68	0.88	9.1665	1001.47
10/11/2006	15:14:08	3093	16.08	29.132	0.4	2.811	158	6.67	1.03	10.8191	999.79
10/11/2006	15:15:06	3151	16.04	29.132	6.3	2.811	158	6.67	4.36	45.6212	997.28
10/11/2006	15:16:09	3214	16.02	29.133	0.4	2.811	157	6.68	5.27	55.0564	992.51

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-26-061011-10-11-2006 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

Operator Name:	N_BOLIVAR					
Company Name:	BV-Clayton					
Project Name:	Hartford Quarterly Groundwater Sampling - 07003-003095 15-007					
Site Name:	Hartford Working Group					
Well ID	HMW-26-061011					
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 PUMP					
Tubing Type:	polyethylene					
Tubing Diam:	0.17 [in]					
Tubing Length:	37 5 [ft]					
Well Depth:	39.31 [ft]					
Well Diam:	2 [in]					
Screen Len:	176 4 [in]					
Screen Depth:	24 61 [ft]					
Pump Inlet Depth:	0 [in]					
Depth to Water:	26 61 [ft]					
Pump Level (TOC):	30 61 [ft]					
Final Pumping Rate:	390 [mL/min]					
Stable Draw Down:	0 [ft]					
Total Volume Formula:	Volume = cup (200 mL) + tubing (167 4 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)					
Calculated Total Volume:	284 36 [mL]					
Actual Total Volume:	284 38 [mL]					
Calculated Measurement Interval:	44 [sec]					
Actual Measurement Interval:	44 [sec]					
Start date/time:	10/11/2006	10 06 08				
End date/time:	10/11/2006	10 25 48				
Total Time:	0 19 40					

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	-73 46	0 3	0.6	-0.12			1464.81	0	25.15	-7 79	16 27	-0 04	10 22.22
3	6 58	0	-73.24	0.21	0 54	-0.06			1465.26	0.45	28.18	3.03	16 21	-0.06	10:23 06
2	6.58	0	-73.12	0 13	0 47	-0 07			1458.54	-6 72	22.06	-6.12	16.21	0	10:23.50
1	6.58	0	-72.9	0.21	0.49	0.02			1456.31	-2.23	23.18	1.13	16.22	0 01	10.24:35
0	6.58	0	-73.29	-0.38	0.46	-0.04			1458.54	2.23	23.88	0.69	16.23	0.01	10.25.19

pH Min:	6.58
pH Max:	6.58
ORP Min:	-73.46
ORP Max:	-72.9
DO Min:	0.46
DO Max:	0.6
RDO Min:	
RDO Max:	
Cond Min:	1456.31
Cond Max:	1465.26
Turb Min:	22.06
Turb Max:	28.18
Temp Min:	16.21
Temp Max:	16.27

Notes:

Device Record:

In-Situ Inc.	Troll 9000 Pro XP
Report generated:	10/21/2006 15:34:00
Report from file:	...\Hartford Quarterly Groundwater Sampling - 07003-003095.15-007-Hartford Working Group -HMW-26-061011-10-11-2006.flo.bin
Win-Situ® Version	4.57.0.0
Serial number:	45292
Firmware Version	2
Unit name:	MP Troll 9000
Test name:	LowFlow
Test defined on:	10/11/2006 10:06:08
Test started on:	10/11/2006 10:06:08
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:	27	

TOTAL DATA SAMPLES 27

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
10/11/2006	10 06.08	0	16.07	29 166	91 2	2.811	-103	6 64	9.46	99.05	1417.36	
10/11/2006	10.06:52	44	16 36	29.167	155.2	2.811	-86	6.52	3 39	35 7433	1441.78	
10/11/2006	10 07.36	88	16 3	29 166	124 9	2.811	-81	6.52	1 45	15.283	1452.32	
10/11/2006	10.08.20	132	16.29	29.165	60.9	2.785	-80	6.54	1.06	11.1605	1452.77	
10/11/2006	10 09 05	177	16.3	29.167	59.1	2.785	-79	6.55	0.82	8.5776	1452.32	
10/11/2006	10 09 49	221	16.32	29 166	83 7	2 785	-78	6.56	0 64	6 7449	1452.32	
10/11/2006	10 10 34	266	16 31	29 167	55 6	2 785	-78	6 56	1 09	11 4334	1460 33	
10/11/2006	10 11 18	310	16 28	29 167	72 4	2 785	-77	6 57	1 19	12 5233	1464 36	
10/11/2006	10 12 02	354	16 19	29 168	44 9	2 811	-77	6 57	0 69	7 1981	1466 61	
10/11/2006	10 12 47	399	16 17	29 168	69	2 785	-76	6 57	0 74	7 723	1470 68	
10/11/2006	10 13 31	443	16 17	29 168	55 6	2 785	-76	6 58	0 84	8 8527	1468 16	
10/11/2006	10 14.15	487	16 22	29 168	36 9	2 811	-76	6 58	0 59	6 2057	1462 12	
10/11/2006	10 15.00	532	16 21	29 169	39.6	2 811	-76	6 58	0 52	5 4079	1453 21	
10/11/2006	10 15 44	576	16 26	29 167	37 4	2 785	-75	6 58	0.53	5 5704	651 31	
10/11/2006	10 16 28	620	16 27	29 167	34	2 811	-75	6 58	0 99	10 3698	1454 54	
10/11/2006	10 17 13	665	16 3	29 166	38 4	2 811	-75	6 58	0 6	6 329	1456 76	
10/11/2006	10 17 57	709	16 29	29 165	33 4	2 811	-75	6 58	0 51	5 3931	1457 2	
10/11/2006	10 18 40	752	16 32	29 164	123 2	2 811	-75	6.58	0 59	6 2318	1458 54	
10/11/2006	10 19 26	798	16 29	29 165	29 6	2 811	-75	6 58	0 52	5 4415	1458 99	
10/11/2006	10 20 09	841	16 28	29 163	31.3	2 759	-74	6 58	0 47	4 927	1461 67	
10/11/2006	10 20 53	885	16 33	29 164	92 3	2 811	-74	6 58	0 69	7 3089	1464 81	
10/11/2006	10 21 38	930	16 31	29 165	42 9	2 811	-74	6 58	0 72	7 5057	1464 81	
10/11/2006	10 22 22	974	16 27	29 166	25 2	2 785	-73	6 58	0 6	6 2917	1464 81	
10/11/2006	10 23 06	1018	16 21	29 166	28 2	2 811	-73	6 58	0 54	5 6937	1465 20	
10/11/2006	10 23 50	1062	16 21	29 167	22 1	2 811	-73	6 58	0 47	4 9418	1458 54	
10/11/2006	10 24 35	1107	16 22	29 168	23 2	2 811	-73	6 58	0 49	5 1749	1456 31	
10/11/2006	10 25 19	1151	16 23	29 168	23 9	2 811	-73	6 58	0 46	4 7977	1458 53	

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-27-061012-10-12-2006.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

Operator Name:	N_BOLIVAR
Company Name:	BV-Clayton
Project Name:	Hartford Quarterly Groundwater Sampling - 07003-003095.15-007
Site Name:	Hartford Working Group
Well ID:	HMW-27-061012

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 PUMP
Tubing Type:	polyethylene
Tubing Diam:	0.17 [in]
Tubing Length:	37 [ft]
Well Depth:	39.32 [ft]
Well Diam:	2 [in]
Screen Len:	176.4 [in]
Screen Depth:	24.62 [ft]
Pump Inlet Depth:	0 [in]
Depth to Water:	33.76 [ft]
Pump Level (TOC):	35.76 [ft]

Final Pumping Rate:	230 [mL/min]
Stable Draw Down:	0 [ft]
Total Volume Formula:	Volume = cup (200 mL) + tubing (165.1 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)
Calculated Total Volume:	282.15 [mL]
Actual Total Volume:	282.15 [mL]
Calculated Measurement Interval:	74 [sec]
Actual Measurement Interval:	74 [sec]

Start date/time:	10/12/2006	8:53:09
End date/time:	10/12/2006	9:12:19
Total Time:	0:19:10	

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	6.51	0	118.46	-4.44	0.43	0.01			1266.94	-4.74	36.9	7.07	15.76	-0.1	9:06:48
3	6.51	0	114.83	-3.63	0.44	0.01			1265.92	-1.02	40.54	3.63	15.73	-0.03	9:08:03
2	6.51	0	111.33	-3.5	0.43	-0.01			1261.23	-4.69	27.53	-13.01	15.64	-0.09	9:09:18
1	6.51	0	108	-3.33	0.41	-0.02			1262.9	1.67	27.73	0.21	15.73	0.09	9:10:32
0	6.51	0	105.1	-2.91	0.41	0			1263.23	0.33	25.28	-2.46	15.79	0.06	9:11:47

pH Min:	6.51
pH Max:	6.51
ORP Min:	105.1
ORP Max:	118.46
DO Min:	0.41
DO Max:	0.44
RDO Min:	
RDO Max:	
Cond Min:	1261.23
Cond Max:	1266.94
Turb Min:	25.28
Turb Max:	40.54
Temp Min:	15.64
Temp Max:	15.79

Notes:

Device Record:

In-Situ Inc.	Troll 9000 Pro XP
Report generated:	10/21/2006 15:40:49
Report from file:	...\Hartford Quarterly Groundwater Sampling - 07003-003095.15-007-Hartford Working Group -HMW-27-061012-10-12-2006.flo.bin
Win-Situ® Version	4.57.0.0
Serial number:	45292
Firmware Version	2
Unit name:	MP Troll 9000
Test name:	LowFlow
Test defined on:	10/12/2006 8:53:09
Test started on:	10/12/2006 8:53:09
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:	16	

TOTAL DATA SAMPLES 16

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
10/12/2006	8:53:09	0	14.65	29.438	161	2.785	231	6.57	7.13	71.6473	1254.68
10/12/2006	8:54:23	74	15.29	29.438	154.9	2.759	239	6.46	1.74	17.7265	1260.65
10/12/2006	8:55:38	149	15.65	29.437	107.5	2.785	231	6.47	0.94	9.6891	1261.65
10/12/2006	8:56:52	223	15.73	29.441	86.8	2.811	215	6.49	0.7	7.161	1268.02
10/12/2006	8:58:07	298	15.82	29.441	68.8	2.785	193	6.5	0.57	5.8263	1271.39
10/12/2006	8:59:21	372	15.77	29.442	92.5	2.785	171	6.51	0.52	5.3235	1270.37
10/12/2006	9:00:36	447	15.68	29.445	61.1	2.759	155	6.51	0.48	4.9686	1268
10/12/2006	9:01:51	522	15.62	29.445	80.2	2.785	143	6.51	0.46	4.7491	1266.31
10/12/2006	9:03:05	596	15.68	29.445	67.8	2.811	134	6.51	0.46	4.7461	1268.32
10/12/2006	9:04:20	671	15.82	29.445	50.2	2.785	128	6.51	0.45	4.5919	1272.37
10/12/2006	9:05:34	745	15.86	29.445	29.8	2.811	123	6.51	0.42	4.3614	1271.68
10/12/2006	9:06:48	819	15.76	29.445	36.9	2.811	118	6.51	0.43	4.4343	1266.94
10/12/2006	9:08:03	894	15.73	29.447	40.5	2.785	115	6.51	0.44	4.4955	1265.92
10/12/2006	9:09:18	969	15.64	29.449	27.5	2.811	111	6.51	0.43	4.3722	1261.23
10/12/2006	9:10:32	1043	15.73	29.447	27.7	2.811	108	6.51	0.41	4.1728	1262.9
10/12/2006	9:11:47	1118	15.79	29.446	25.3	2.785	105	6.51	0.41	4.2134	1263.23

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-28-061012-10-12-2006.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

Operator Name:	N_BOLIVAR					
Company Name:	BV-Clayton					
Project Name:	Hartford Quarterly Groundwater Sampling - 07003-003095.16-007					
Site Name:	Hartford Working Group					
Well ID:	HMW-28-061012					
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 PUMP					
Tubing Type:	polyethylene					
Tubing Diam:	0.17 [in]					
Tubing Length:	37 [ft]					
Well Depth:	39.37 [ft]					
Well Diam:	2 [in]					
Screen Len:	176.4 [in]					
Screen Depth:	24.67 [ft]					
Pump Inlet Depth:	0 [in]					
Depth to Water:	33.97 [ft]					
Pump Level (TOC):	35.97 [ft]					
Final Pumping Rate:	170 [mL/min]					
Stable Draw Down:	0 [ft]					
Total Volume Formula:	Volume = cup (200 mL) + tubing (165.1 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)					
Calculated Total Volume:	282.15 [mL]					
Actual Total Volume:	282.15 [mL]					
Calculated Measurement Interval:	100 [sec]					
Actual Measurement Interval:	100 [sec]					
Start date/time:	10/12/2006	11:47:43				
End date/time:	10/12/2006	12:08:03				
Total Time:	0:20:20					

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	6.6	0	155.79	1.05	0.8	0.13			970.56	1.98	15.6	9.11	15.18	0.02	12:00:42
3	6.6	0	156.71	0.93	0.8	0			970.56	0.01	5.99	-9.61	15.18	0	12:02:23
2	6.6	0	157.34	0.63	0.72	-0.07			967.42	-3.15	0.66	-5.33	15.09	-0.09	12:04:04
1	6.6	0	157.76	0.42	0.72	0			969.58	2.17	3.08	2.42	15.16	0.07	12:05:45
0	6.61	0.01	157.63	-0.14	0.66	-0.06			969.39	-0.19	0.85	-2.23	15.22	0.06	12:07:26

pH Min:	6.6
pH Max:	6.61
ORP Min:	155.79
ORP Max:	157.76
DO Min:	0.66
DO Max:	0.8
RDO Min:	
RDO Max:	
Cond Min:	967.42
Cond Max:	970.56
Turb Min:	0.66
Turb Max:	15.6
Temp Min:	15.09
Temp Max:	15.22

Notes:

Device Record:

In-Situ Inc.	Troll 9000 Pro XP
Report generated:	10/21/2006 15:43:38
Report from file:	...\Hartford Quarterly Groundwater Sampling - 07003-003095.15-007-Hartford Working Group -HMW-28-061012-10-12-2006.flo.bin
Win-Situ® Version	4.57.0.0
Serial number:	45292
Firmware Version	2
Unit name:	MP Troll 9000
Test name:	LowFlow
Test defined on:	10/12/2006 11:47:43
Test started on:	10/12/2006 11:47:43
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
10/12/2006	11:47:43	0	15.47	29.428	63.1	2.785	139	6.58	1.09	11.1584	982.66
10/12/2006	11:48:58	75	15.41	29.428	7.7	2.785	142	6.59	1.18	12.0024	979.45
10/12/2006	11:52:17	274	15.32	29.429	9	2.785	146	6.59	0.96	9.7972	975.87
10/12/2006	11:53:57	374	15.17	29.427	2.2	2.811	148	6.59	0.8	8.1713	971.31
10/12/2006	11:55:38	475	15.3	29.427	8.5	2.811	151	6.59	0.8	8.1541	970.14
10/12/2006	11:57:21	578	15.19	29.433	2.2	2.811	153	6.6	0.73	7.4318	970.34
10/12/2006	11:59:01	678	15.16	29.431	6.5	2.769	155	6.6	0.66	6.7419	968.58
10/12/2006	12:00:42	779	15.18	29.428	15.6	2.811	156	6.6	0.8	8.1142	970.56
10/12/2006	12:02:23	880	15.18	29.431	6	2.785	157	6.6	0.8	8.0974	970.56
10/12/2006	12:04:04	981	15.09	29.431	0.7	2.811	157	6.6	0.72	7.3362	967.42
10/12/2006	12:05:45	1082	15.16	29.43	3.1	2.811	158	6.6	0.72	7.3065	969.58
10/12/2006	12:07:26	1183	15.22	29.43	0.9	2.785	158	6.61	0.66	6.7536	969.39

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-29-061012-10-12-2006.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

Operator Name:	N_BOLIVAR
Company Name:	BV-Clayton
Project Name:	Hartford Quarterly Groundwater Sampling - 07003-003095.15-007
Site Name:	Hartford Working Group
Well ID:	HMW-29-061012

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 PUMP
Tubing Type:	polyethylene
Tubing Diam:	0.17 [in]
Tubing Length:	37 [ft]
Well Depth:	39.56 [ft]
Well Diam:	2 [in]
Screen Len:	176.4 [in]
Screen Depth:	24.86 [ft]
Pump Inlet Depth:	0 [in]
Depth to Water:	31.66 [ft]
Pump Level (TOC):	33.66 [ft]

Final Pumping Rate:	360 [mL/min]
Stable Draw Down:	0 [ft]
Total Volume Formula:	Volume = cup (200 mL) + tubing (165.1 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)
Calculated Total Volume:	282.15 [mL]
Actual Total Volume:	282.15 [mL]
Calculated Measurement Interval:	48 [sec]
Actual Measurement Interval:	48 [sec]

Start date/time:	10/12/2006	13:35:21
End date/time:	10/12/2006	13:47:24
Total Time:	0:12:03	

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	6.72	0	-50.31	-0.52	0.21	-0.01			830.71	1.3	24.56	-2.09	15.51	0.03	13:43:25
3	6.71	-0.01	-50.44	-0.13	0.21	-0.01			831.58	0.87	17.95	-6.61	15.51	0	13:44:14
2	6.71	0	-50.83	-0.39	0.21	0			832.6	1.02	14.93	-3.02	15.56	0.05	13:45:02
1	6.71	0	-51.17	-0.35	0.21	0			833.47	0.87	14.07	-0.87	15.53	-0.03	13:45:51
0	6.72	0	-51.43	-0.26	0.2	0			832.31	-1.16	13.89	-0.17	15.45	-0.08	13:46:39

pH Min:	6.71
pH Max:	6.72
ORP Min:	-51.43
ORP Max:	-50.31
DO Min:	0.2
DO Max:	0.21
RDO Min:	
RDO Max:	
Cond Min:	830.71
Cond Max:	833.47
Turb Min:	13.89
Turb Max:	24.56
Temp Min:	15.45
Temp Max:	15.56

Notes.

Device Record:

In-Situ Inc.	Troll 9000 Pro XP
Report generated:	10/21/2006 15:59:26
Report from file:	...\Hartford Quarterly Groundwater Sampling - 07003-003095.15-007-Hartford Working Group -HMW-29-061012-10-12-2006.flo.bin
Win-Situ® Version	4.57.0.0
Serial number:	45292
Firmware Version	2
Unit name:	MP Troll 9000
Test name:	LowFlow
Test defined on:	10/12/2006 13:35:21
Test started on:	10/12/2006 13:35:21
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
10/12/2006	13:35:21	0	15.51	29.402	83	2.759	-46	6.71	0.28	2.8541	820.4
10/12/2006	13:36:09	48	15.48	29.4	70.2	2.785	-46	6.71	0.27	2.7485	820.83
10/12/2006	13:36:57	96	15.48	29.402	55.7	2.811	-47	6.71	0.26	2.6406	821.53
10/12/2006	13:37:46	145	15.48	29.403	57.4	2.811	-47	6.71	0.25	2.5333	822.67
10/12/2006	13:38:34	193	15.44	29.403	63.8	2.811	-48	6.71	0.24	2.4299	822.82
10/12/2006	13:39:23	242	15.48	29.406	47.2	2.759	-48	6.71	0.24	2.4633	823.95
10/12/2006	13:40:10	289	15.46	29.403	33.9	2.811	-49	6.72	0.24	2.4079	824.95
10/12/2006	13:41:00	339	15.44	29.403	36.4	2.811	-49	6.71	0.23	2.3519	824.96
10/12/2006	13:41:49	388	15.48	29.402	35.4	2.785	-49	6.71	0.22	2.2925	827.25
10/12/2006	13:42:37	436	15.48	29.403	26.7	2.811	-50	6.71	0.22	2.2367	829.41
10/12/2006	13:43:25	484	15.51	29.403	24.6	2.811	-50	6.72	0.21	2.1795	830.71
10/12/2006	13:44:14	533	15.51	29.406	17.9	2.759	-50	6.71	0.21	2.125	831.58
10/12/2006	13:45:02	581	15.56	29.407	14.9	2.785	-51	6.71	0.21	2.1631	832.6
10/12/2006	13:45:51	630	15.53	29.405	14.1	2.811	-51	6.71	0.21	2.1129	833.47
10/12/2006	13:46:39	678	15.45	29.402	13.9	2.785	-51	6.72	0.2	2.0669	832.31