



STATE OF IOWA

THOMAS J. VILSACK, GOVERNOR
SALLY J. PEDERSON, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
JEFFREY R. VONK, DIRECTOR

May 1, 2006

Brad Frein
Hancock County Oil Company
245 State Street
Garner, IA 50438

Subject: Former Bulk Site, Lots 6, 7 & 8 of Marsh View First Subdivision, Ventura, IA

Dear Mr. Frein:

On February 22, 2006 the Iowa Department of Natural Resources (department) conducted a limited environmental assessment on and around Lot 6, Lot 7 and Lot 8 of the Marsh View First Subdivision in Ventura, Iowa. Results indicated a significant amount of dissolved phase petroleum hydrocarbons in the groundwater. It was also determined the groundwater flow appeared to be to the west-northwest and not to the south as originally suspected. Figure 1 shows the approximant locations of the groundwater sample points and the results of the sample analysis. Samples were collected for Total Extractable Hydrocarbon (TEH) analysis and results indicated gasoline was the most likely contaminant.

Because of the high level of dissolved hydrocarbon found in the groundwater, the groundwater table at only 8 feet below the surface, and the estimated groundwater flow direction the department considers the new house just to the west of the former bulk petroleum site, lot 6, at risk for hydrocarbon vapor intrusion into the basement.

Because of this risk Hancock County Oil Company shall complete the following within 30 days of receiving this letter:

- Construct a vapor recovery unit in the basement of the house on Lot 6 that will place a vacuum on the existing tile system under the foundation and exhaust the air outside (similar to a radon remediation system).
- Provide the department with documentation showing the new home owner has been advised of the risks associated with the petroleum contaminated groundwater. The homeowner must understand the significance in the maintenance and operation of the vapor collection system.
- Construct a flush mount monitoring well in a manor described in Rule 567 IAC 110.11(455B) with a minimum of 10 feet of screen (8 feet below the groundwater table and 2 feet above). The well will be placed on the east side of Lot 6 close to the northeast corner of the house. Monthly sampling and reporting will be required the first year that will include groundwater elevation measurements, free product measurements, analysis for high volatile petroleum compounds using analytical method OA-1, and analysis

for low volatile petroleum compounds using analytical method OA-2. After the first year Hancock County Oil Company may request the sampling frequency to be modified.

- Construct a monitoring well in the location of the department's GP-001, labeled in figure 1, designed to measure free petroleum product on the top of the water table. Hancock County Oil Company shall record the level of the free product monthly.

The department is concerned with the area to the north but will not require any further petroleum plume delineation at this time if the current land use stays the same; however, this does not limit the department from requiring additional assessments. Complete contamination plume delineation will be required if further development takes place to the north or if free petroleum product is found. The department will collect samples from the two monitoring wells at our discretion.

If you have any questions or concerns about the requirements please don't hesitate to contact me at (641) 424-4073 or cindy.garza@dnr.state.ia.us.

Sincerely,

FIELD SERVICES AND COMPLIANCE BUREAU



Cindy M. Garza
Environmental Specialist

CMG

Encl: UHL TEH Results
Figure 1

c: Dan Cook, IDNR Contaminated Sites Section ✓

DEPT OF
NATURAL RESOURCES

2006 MAY - 8 P 2: 31

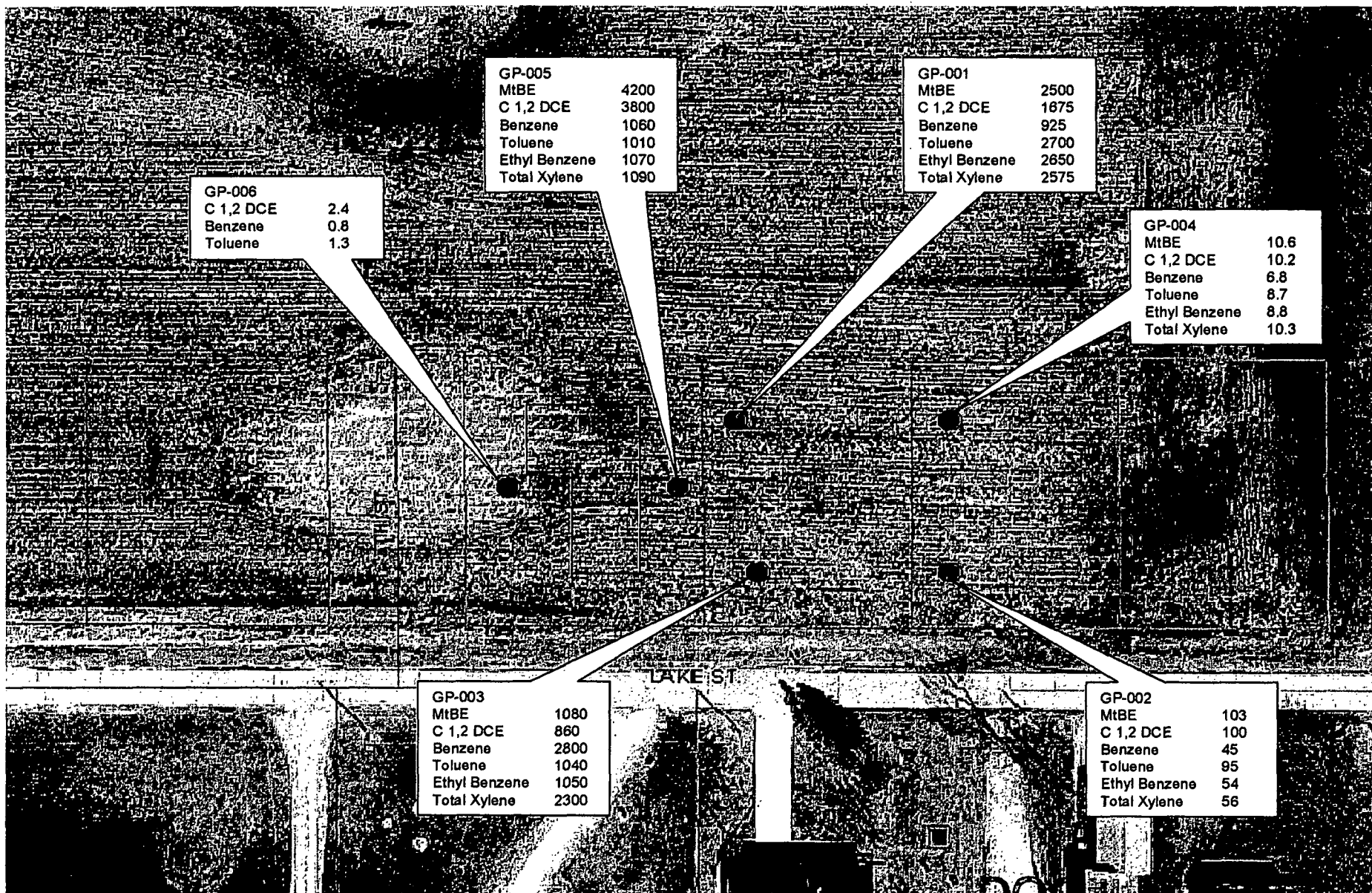


Figure 1
Sample Locations
Ventura, Iowa

DOC ILLEGIBLE