

Purpose of DNR Form 542-1530

An area contaminated with petroleum hydrocarbon compounds may exist within your present or future water distribution system. The petroleum-based chemicals of concern include benzene, toluene, ethylbenzene, xylenes and other compounds found in gasoline, diesel and waste oil. These chemicals were introduced into the subsurface from a release at the site referenced on the second line on DNR Form 542-1530. They are often transported in the direction of groundwater flow and away from their point of introduction.

The main concern is for water well installed within the inferred, defined or predicted contamination zone (see attached form and maps). Although existing wells have not been impacted, contamination remains which is above the allowable levels for drinking water. The groundwater at this site is considered a protected groundwater source. Caution and possible further evaluation should be used before allowing drinking water wells to be installed in this area. This information is sent to you in response to present regulations (Iowa Administrative Code 135).

A risk-based corrective action (RBCA) assessment has been done at the site-either a Tier 1 or a Tier 2. At Tier 1, only a few samples are taken to try to identify the maximum contamination. If more assessment is needed, a Tier 2 is done where several samples are taken to see how far soil and groundwater contamination has spread. Therefore, if the attached maps are from Tier 1 they probably will show only a few soil and groundwater samples. If these maps are from Tier 2 they will show how far the actual contamination plume(s) have spread and computer-simulated contamination plume(s).

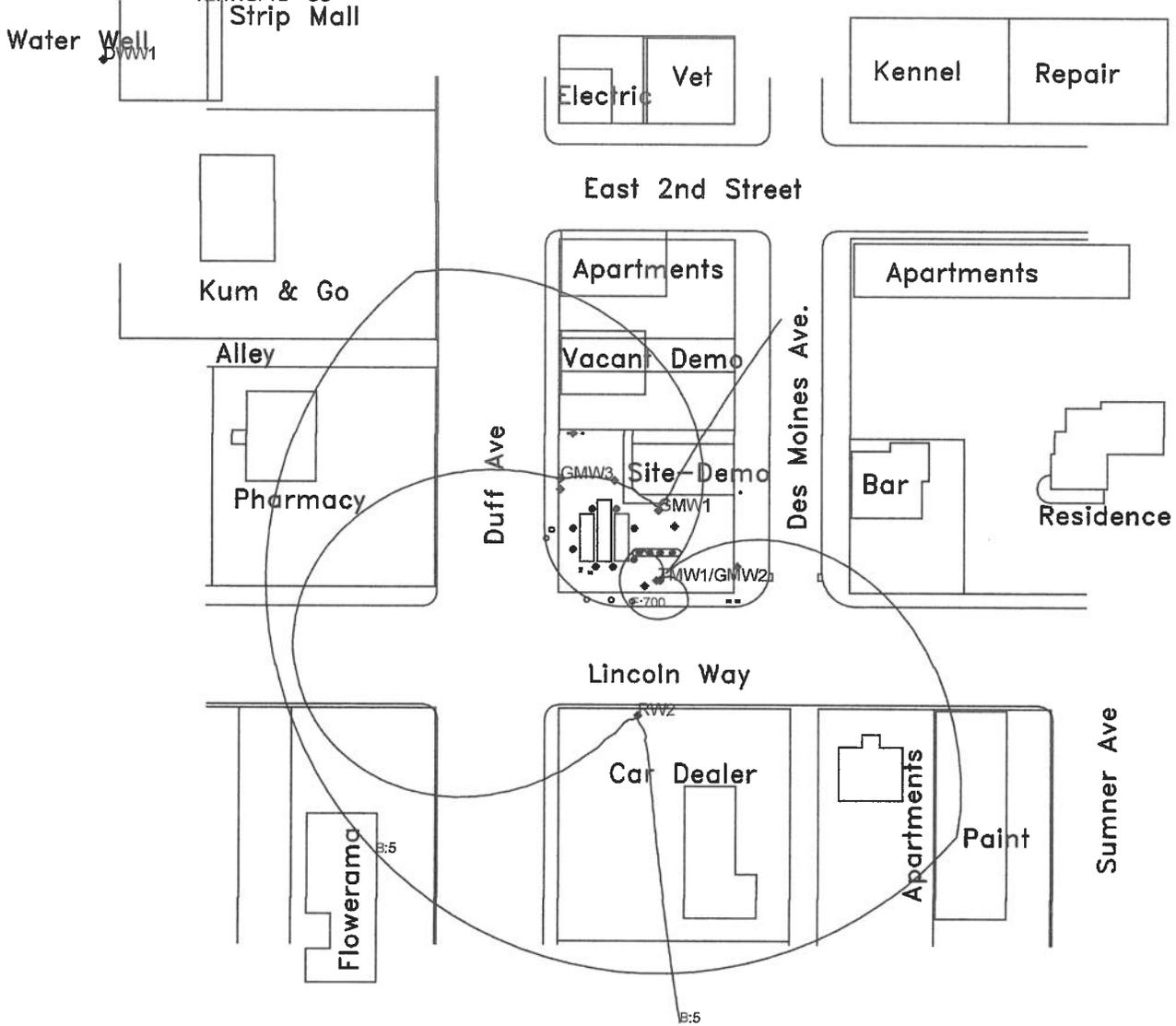
A standard DNR utility notification form (DNR Form 542-1530) and site map(s) are enclosed. The data may prove useful in determining whether to permit the installation of drinking water well(s) in the vicinity of the referenced site.

The table on the front side of this form contains the maximum contamination levels found in the soil and groundwater at this site. Below these numbers are two rows containing the Iowa DNR's Tier 1 levels (the top row is for actual receptors and the bottom row is for potential receptors).

Groundwater RID: Groundwater Ingestion - Drinking Water Wells
9LTS40

Receptor ID Map

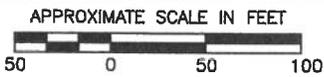
T: TL>=SC
E: Actual Plum<Grid Spacing
X: TL>=SC
TEHD: TL>=SC
TEHWO: TL>=SC



GEODE ENVIRONMENTAL, LLC

Date: August 2019

former Hansen Sinclair
105 East Lincoln Way
Ames, IA

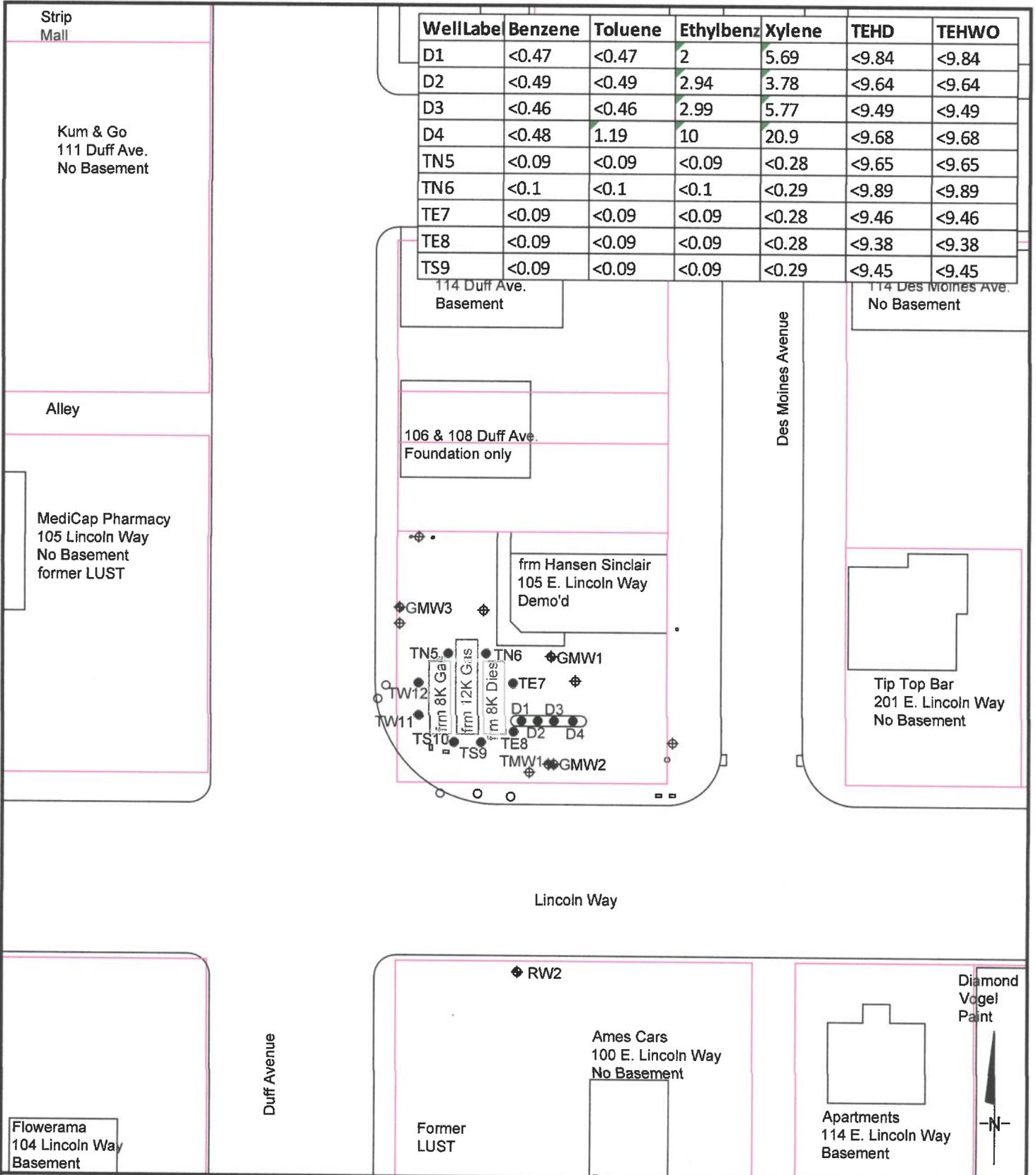


SITE PLAN MAP

LUST#9LTS40 REG #8604501

Scale: 1" = 100'

Well Label	Benzene	Toluene	Ethylbenz	Xylene	TEHD	TEHWO
D1	<0.47	<0.47	2	5.69	<9.84	<9.84
D2	<0.49	<0.49	2.94	3.78	<9.64	<9.64
D3	<0.46	<0.46	2.99	5.77	<9.49	<9.49
D4	<0.48	1.19	10	20.9	<9.68	<9.68
TN5	<0.09	<0.09	<0.09	<0.28	<9.65	<9.65
TN6	<0.1	<0.1	<0.1	<0.29	<9.89	<9.89
TE7	<0.09	<0.09	<0.09	<0.28	<9.46	<9.46
TE8	<0.09	<0.09	<0.09	<0.28	<9.38	<9.38
TS9	<0.09	<0.09	<0.09	<0.29	<9.45	<9.45



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Soil Concentration Map

SITE PLAN MAP

LUST#9LTS40 REG #8604501

Scale: 1" = 50'

All soil concentrations are less than pathway target levels