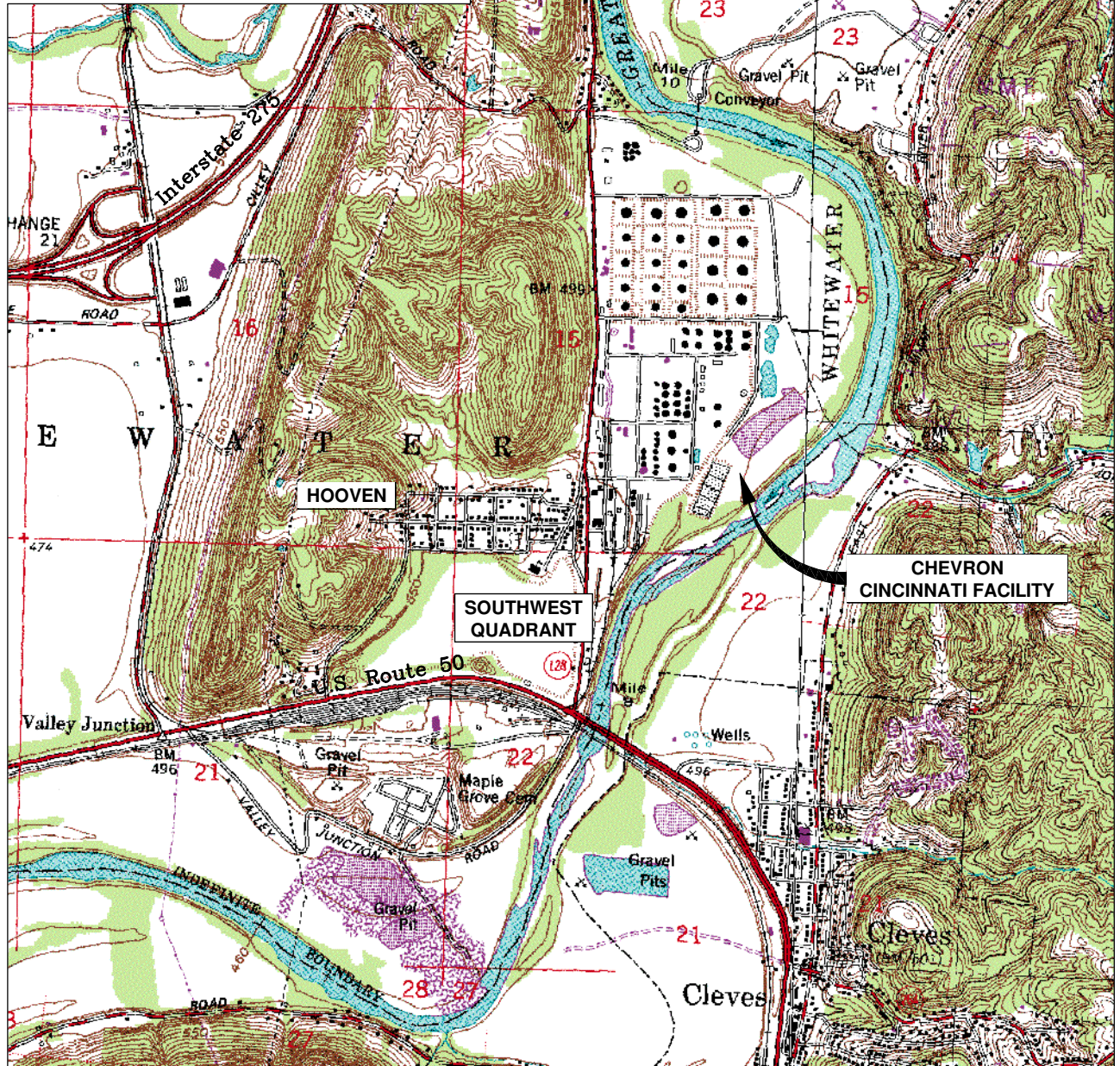
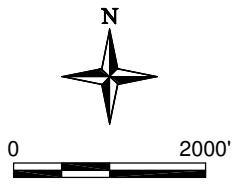


US EPA ARCHIVE DOCUMENT

FIGURES



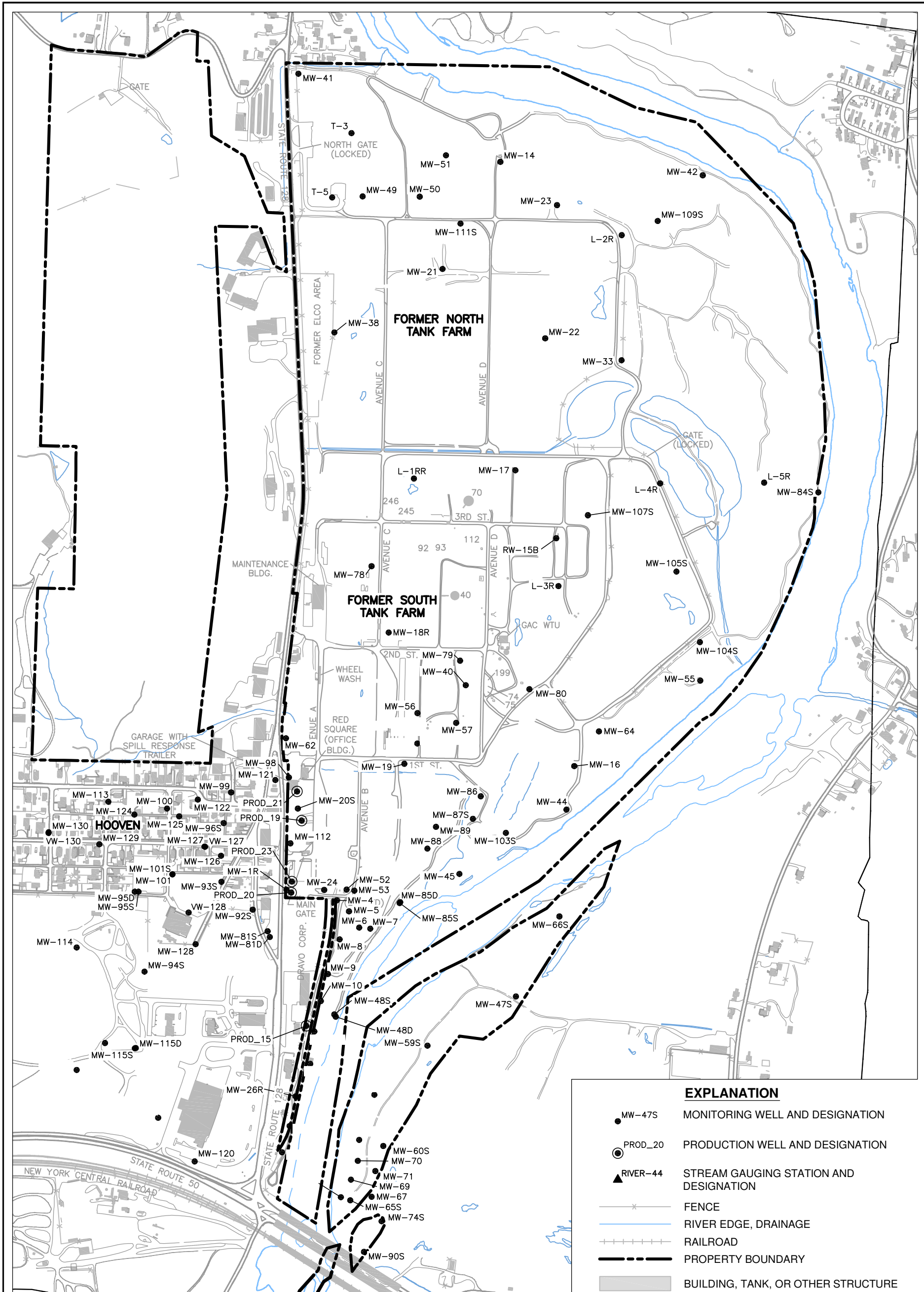
Basemap: U.S.G.S 7.5' Quadrangles, Hoovertown and Addyston, Ohio, 1996



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**FIGURE 1**  
**SITE LOCATION MAP**  
**CHEVRON CINCINNATI FACILITY**  
**HOOVEN, OHIO**

Drawn By: DC    Checked By: MC    Scale: 1" = 2000'    Date: 8/17/05    File: 500IMUSGSSITE



EXPLANATION	
● MW-47S	MONITORING WELL AND DESIGNATION
⊙ PROD_20	PRODUCTION WELL AND DESIGNATION
▲ RIVER-44	STREAM GAUGING STATION AND DESIGNATION
— x —	FENCE
—	RIVER EDGE, DRAINAGE
— + + + + —	RAILROAD
— - - - -	PROPERTY BOUNDARY
■	BUILDING, TANK, OR OTHER STRUCTURE

FIGURE 2

SITE LAYOUT MAP

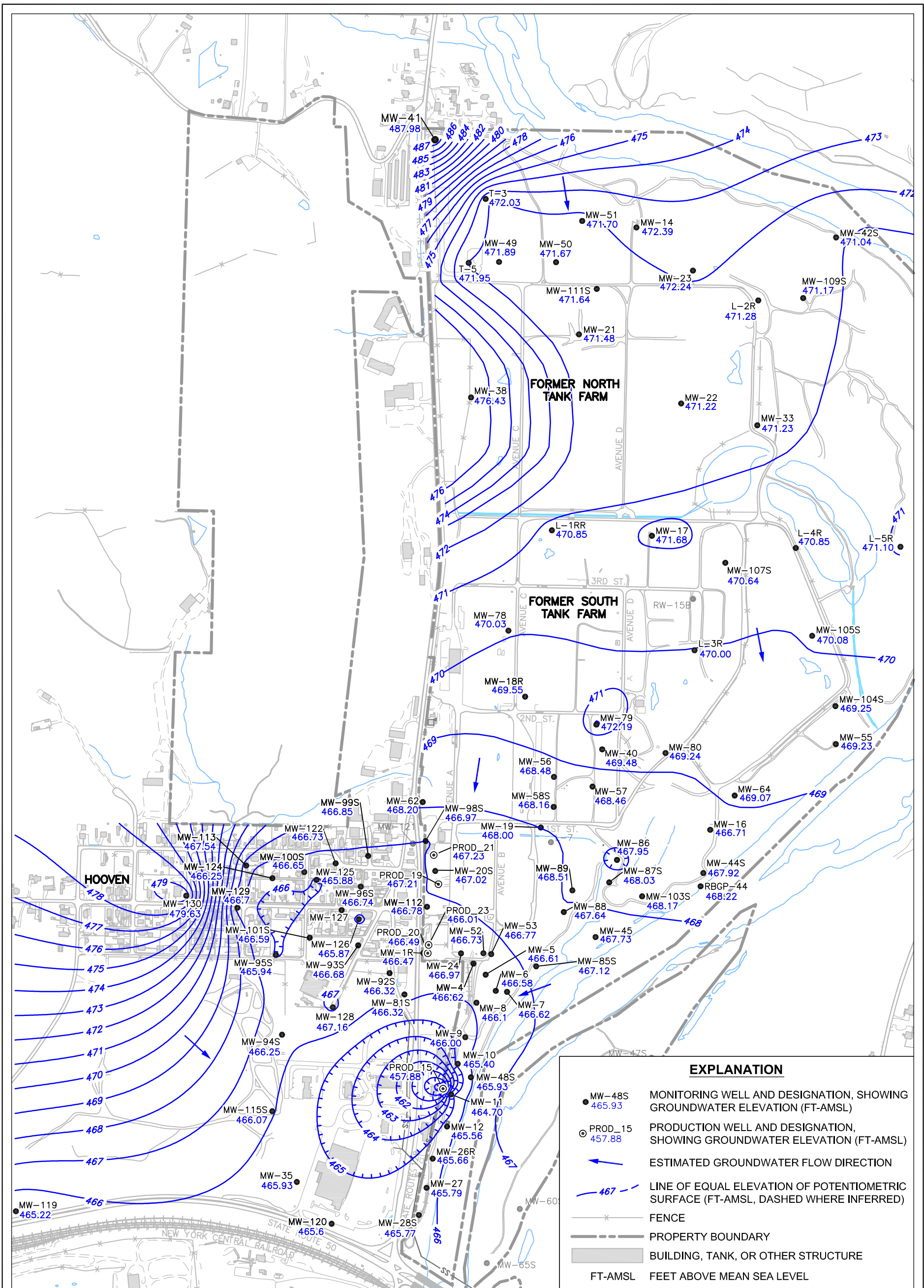
CHEVRON CINCINNATI FACILITY  
HOOVEN, OHIO



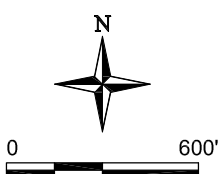
0 600'

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Drawn By: VLP Checked By: MC Scale: 1" = 600' Date: 8/15/05 File: 500IMFACMAP



**NOTE:**  
 FLUID LEVEL ELEVATIONS REPORTED IN FEET  
 ABOVE MEAN SEA LEVEL

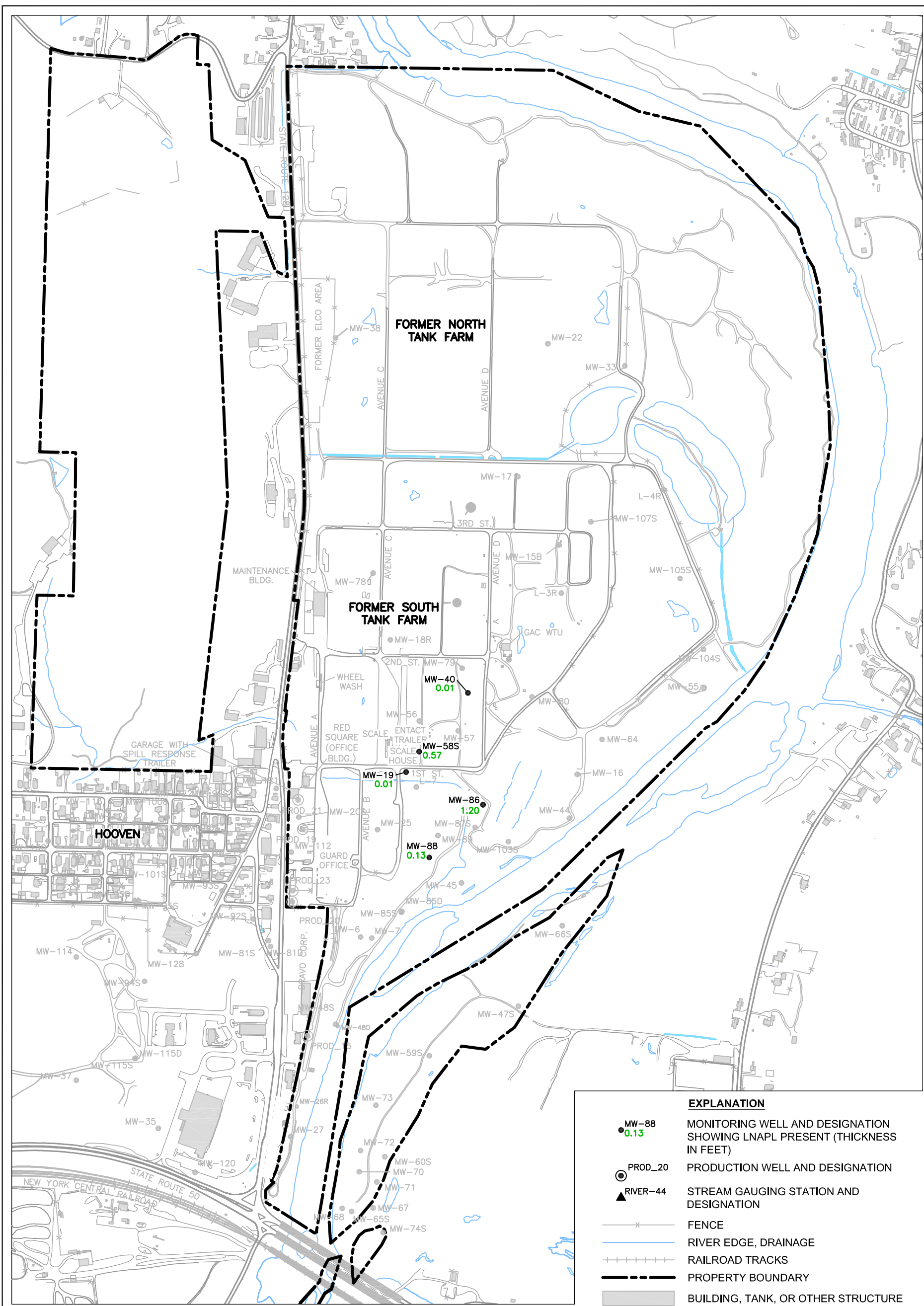


EXPLANATION	
● MW-48S 465.93	MONITORING WELL AND DESIGNATION, SHOWING GROUNDWATER ELEVATION (FT-AMSL)
⊙ PROD_15 457.88	PRODUCTION WELL AND DESIGNATION, SHOWING GROUNDWATER ELEVATION (FT-AMSL)
→	ESTIMATED GROUNDWATER FLOW DIRECTION
- - - 467 - - -	LINE OF EQUAL ELEVATION OF POTENTIOMETRIC SURFACE (FT-AMSL, DASHED WHERE INFERRED)
---	FENCE
---	PROPERTY BOUNDARY
■	BUILDING, TANK, OR OTHER STRUCTURE
FT-AMSL	FEET ABOVE MEAN SEA LEVEL

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**FIGURE 3**  
**SITE WIDE**  
**POTENTIOMETRIC SURFACE MAP**  
**(MAY 26, 2006)**

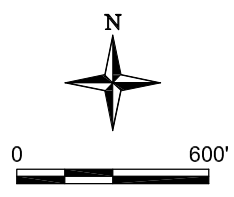
**CHEVRON CINCINNATI FACILITY**  
**HOOVEN, OHIO**



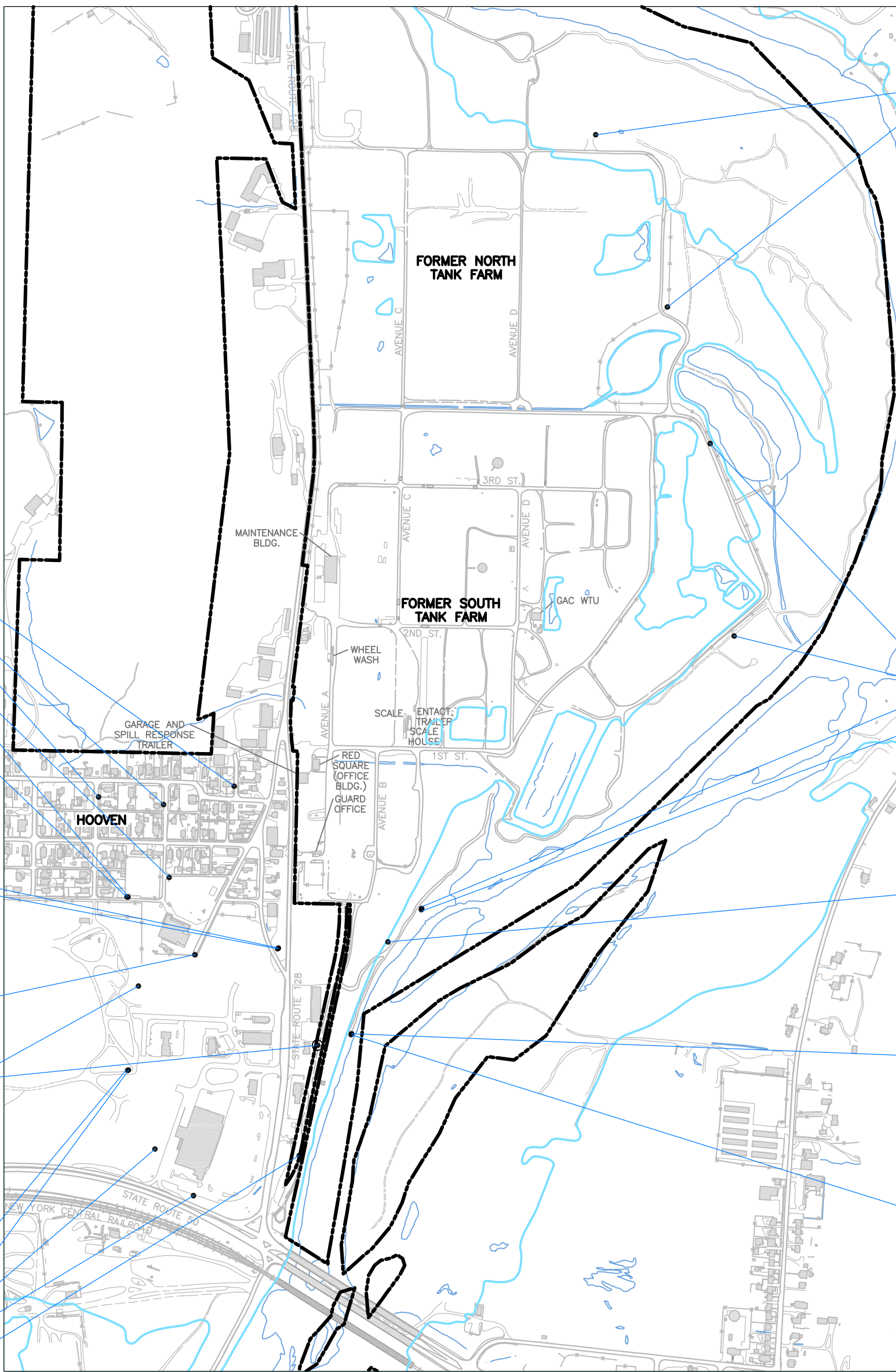
EXPLANATION	
	MONITORING WELL AND DESIGNATION SHOWING LNAPL PRESENT (THICKNESS IN FEET)
	PRODUCTION WELL AND DESIGNATION
	STREAM GAUGING STATION AND DESIGNATION
	FENCE
	RIVER EDGE, DRAINAGE
	RAILROAD TRACKS
	PROPERTY BOUNDARY
	BUILDING, TANK, OR OTHER STRUCTURE

**FIGURE 4**  
**LNAPL THICKNESSES**  
**(MAY 26, 2006)**

**CHEVRON CINCINNATI FACILITY**  
**HOOVEN, OHIO**



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MW-99S	4/27/06	B	0.15
All Others			ND
MW-100S	3/24/06	All	ND
MW-113	3/24/06	All	ND
MW-101S	4/27/06	All	ND
MW-95S	3/24/06	MC	0.004J
All			ND
MW-95D	3/24/06	All	ND
MW-81D	3/27/06	B	0.004J
CH			0.003J
T			0.004J
All Others			ND
MW-81S	3/27/06	1,2,4-TMB	0.005J
1,3,5-TMB			0.012
2B			0.005J
A			0.022
B			0.37
CH			0.21
EB			0.077
H			0.016
IPB			0.091
m,p-X			0.05
N			0.01
n-BB			0.03
n-PB			0.28
o-X			0.002J
sec-BB			0.018
T			0.01
All Others			ND
MW-12B	4/27/06	1,2,4-TMB	0.002J
1,3,5-TMB			0.039
2B			0.003J
A			0.011J
B			0.05
CH			0.039E
E			0.035E
H			0.021
IPB			0.08
m,p-X			0.025
N			0.001J
n-BB			0.022
n-PB			0.16
o-X			0.001J
sec-BB			0.013
T			0.003J
All Others			ND
MW-94S	3/23/06	CH	0.008
IPB			0.001J
All Others			ND
PROD-15	4/27/06	B	0.012
All Others			ND
MW-115S	3/27/06	All	ND
MW-115D	3/27/06	All	ND
MW-35	3/27/06	All	ND
MW-120	4/27/06	All	ND
MW-27	4/27/06	All	ND

MW-23	4/25/06	All	ND
MW-33	4/25/06	All	ND
L-4R	4/25/06	All	ND
MW-104S	4/26/06	All	ND
MW-85D	4/26/06	All	ND
MW-85S	4/26/06	1,2,4-TMB	0.84
1,3,5-TMB			0.34
A			0.019
2B			0.005J
B			0.075
CH			0.71
EB			0.9
H			0.22
IPB			0.11
m,p-X			0.83
N			0.39
n-BB			0.019
n-PB			0.2
o-X			0.045
sec-BB			0.012
T			0.016
All Others			ND
MW-7	4/26/06	1,2,4-TMB	0.18
1,3,5-TMB			0.088
A			0.013J
2B			0.005J
B			0.086
CH			0.27
E			0.11
H			0.044
IPB			0.008
m,p-X			0.32
N			0.038
n-BB			0.003J
n-PB			0.017
o-X			0.016
sec-BB			0.002J
T			0.01
All Others			ND
MW-48S	4/27/06	1,2,4-TMB	0.62E
1,3,5-TMB			0.11
2B			0.007J
B			0.004J
CH			0.29
E			0.22
H			0.012
IPB			0.041
m,p-X			0.24
N			0.06
n-BB			0.019
n-PB			0.16
o-X			0.046
sec-BB			0.011
T			0.002J
All			ND
MW-48D	4/27/06	All	ND

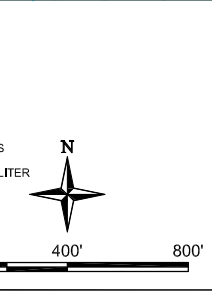
**EXPLANATION**

- MW-120 MONITORING WELL AND DESIGNATION
- FENCE
- RIVER EDGE, DRAINAGE
- RAILROAD TRACKS
- PROPERTY BOUNDARY
- BUILDING, TANK, OR OTHER STRUCTURE
- ND NOT DETECTED AT THE INDICATED LABORATORY LIMIT
- J ANALYTE CONCENTRATION LESS THAN THE LABORATORY LIMIT
- VOC's VOLATILE ORGANIC CONSTITUENTS

**CONSTITUENT TABLE EXPLANATION**

WELL DESIGNATION	MW-74S	11/21/05	SAMPLE DATE
ACETONE	A		
2-BUTANONE	2B		
BENZENE	B		
CYCLOHEXANE	CH		
ETHYLBENZENE	E		
HEXANE	H		
ISOPROPYLBENZENE	IPB		
NAPHTHALENE	N		
TOTAL XYLENES	X		
n-BUTYLBENZENE	n-BB		
n-PROPYLBENZENE	n-PB		
sec-BUTYLBENZENE	s-BB		
TOLUENE	T		
1,2,4-TRIMETHYLBENZENE	1,2,4-TMB		
1,3,5-TRIMETHYLBENZENE	1,3,5-TMB		

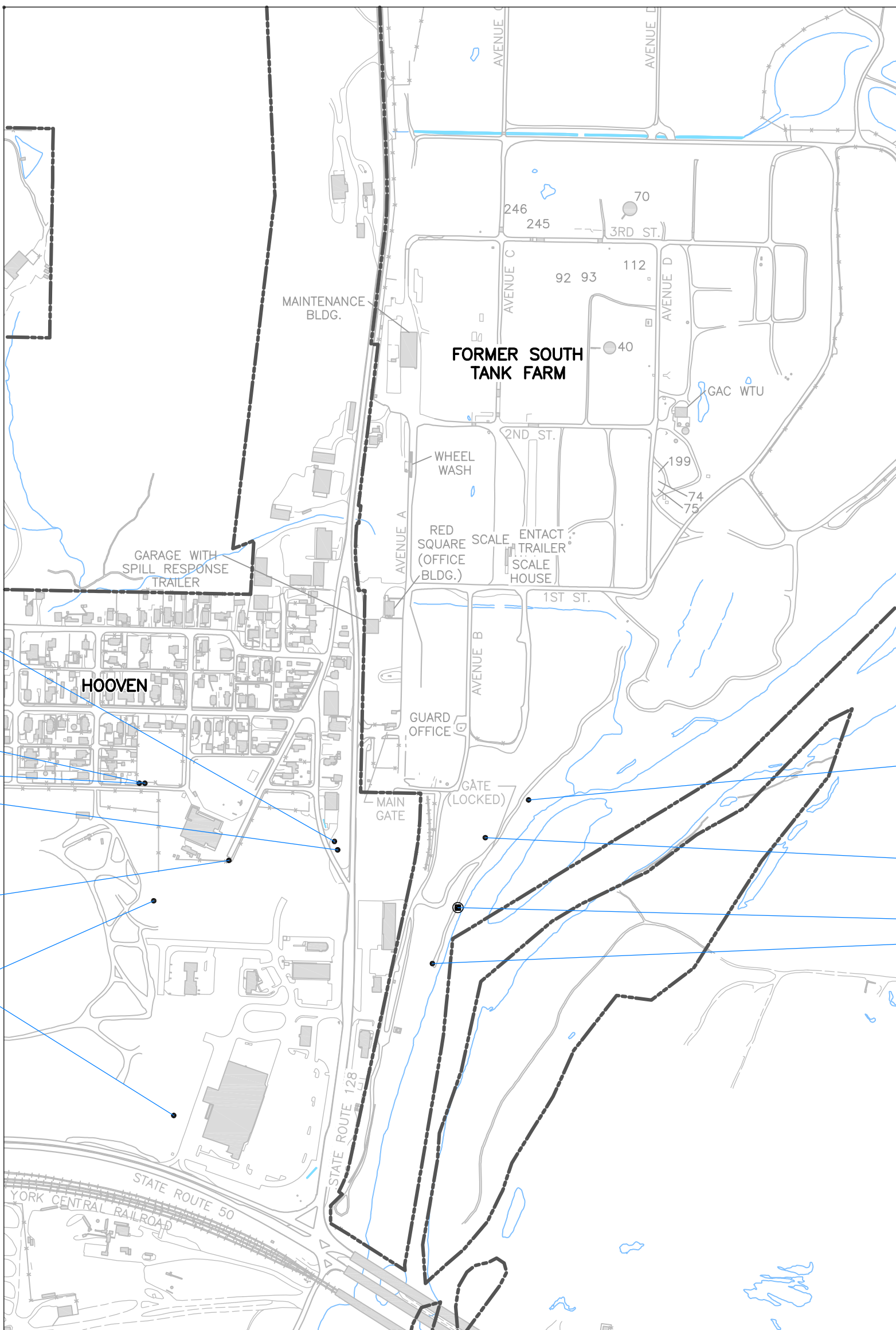
CONCENTRATIONS REPORTED IN MILLIGRAMS PER LITER



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**FIGURE 5**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS FOR VOCs (MARCH, APRIL 2006)**  
**CHEVRON CINCINNATI FACILITY**  
**HOOVEN, OHIO**

Drawn By: VLP | Checked By: JH | Scale: 1" = 400' | Date: 8/14/06 | File: 5001M\_VOCGWQ200604



MW-81S	3/27/06
1MN	0.13
2MN	0.29
Apt	0.002J
DF	0.001J
Flu	0.002J
N	0.01
P	0.004J
Pnt	0.003J
All Others	ND

MW-95D	3/24/06
All	ND

MW-95S	3/24/06
All	ND

MW-81D	3/27/06
All	ND

MW-128	4/27/06
1MN	0.084
2MN	0.021
Apt	0.002J
Behp	0.013
Flu	0.002J
Pnt	0.002J
All Others	ND

MW-94S	3/23/06
All	ND

MW-3S	3/27/06
All	ND

MW-85S	4/26/06
2,4-DMP	0.003J
1MN	0.088
2MN	0.12
Apt	0.001J
Flu	0.001J
I	0.01
N	0.2
Pnt	0.002J
All Others	ND

MW-7	4/26/06
I	0.003J
1MN	0.015
2MN	0.01
N	0.027
All Others	ND

TMW-41	4/27/06
All	ND

MW-48S	4/27/06
1MN	0.089
2MN	0.004J
Apt	0.002J
Behp	0.004J
DF	0.001J
Dnop	0.004J
Flu	0.002J
N	0.048
Pnt	0.003J
All Others	ND

**CONSTITUENT TABLE EXPLANATION**

WELL DESIGNATION	CONCENTRATION	SAMPLE DATE
MW-81S	3/27/06	
2,4-DMP	0.003J	
1-METHYLNAPHTHALENE	0.089	
2-METHYLNAPHTHALENE	0.004J	
ACENAPHTHENE	0.002J	
BIS(2-ETHYLHEXYL)PHTHALATE	0.004J	
DIBENZOFURAN	0.001J	
DI-N-OCTYLPHTHALATE	0.004J	
FLUORENE	0.002J	
INDENE	0.01	
NAPHTHALENE	0.048	
PHENOL	0.004J	
PHENANTHRENE	0.003J	
All Others	ND	

CONCENTRATIONS REPORTED IN MILLIGRAMS PER LITER

**EXPLANATION**

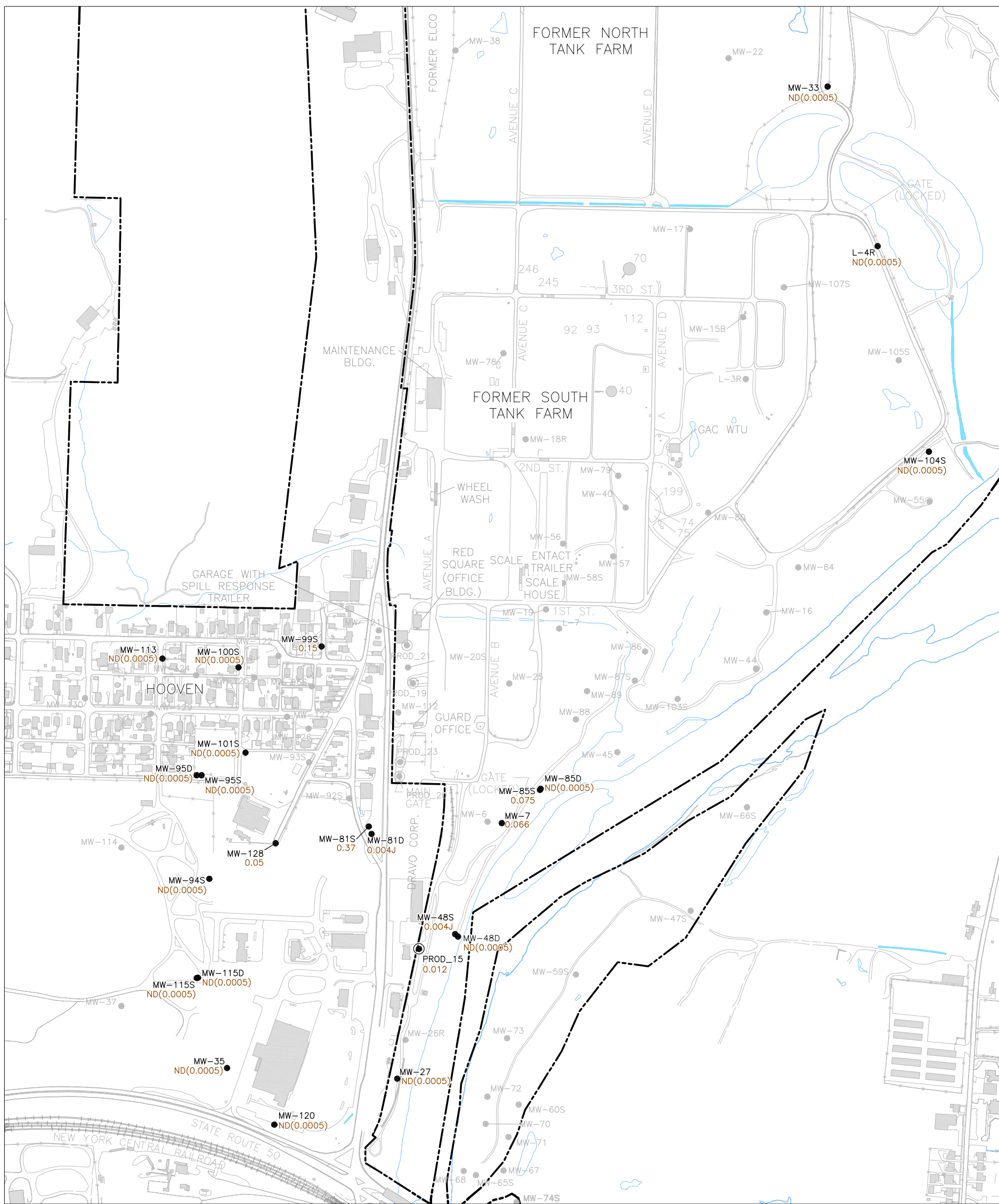
- MONITORING WELL LOCATION
- ⊙ TEMPORARY MONITORING WELL LOCATION
- FENCE
- RIVER EDGE, DRAINAGE
- RAILROAD TRACKS
- PROPERTY BOUNDARY
- BUILDING, TANK, OR OTHER STRUCTURE
- ND NOT DETECTED AT THE INDICATED LABORATORY LIMIT
- J ANALYTE CONCENTRATION LESS THAN THE LABORATORY LIMIT
- SVOC's SEMI VOLATILE ORGANIC CONSTITUENTS

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**FIGURE 6**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS FOR SVOCs (MARCH, APRIL 2006)**

**CHEVRON CINCINNATI FACILITY**  
**HOOVEN, OHIO**





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**FIGURE 7**  
**BENZENE CONCENTRATION MAP**  
(MARCH, APRIL 2006)

**CHEVRON CINCINNATI FACILITY**  
**HOOVEN, OHIO**

Drawn By: VLP    Checked By: DL    Scale: 1" = 350'    Date: 7/31/06    File: 500HRABENZENE200605