



CLIENT

VERNAY LABORATORIES, INC.

TITLE

NATURE AND EXTENT OF VOCs IN STORM SEWER WATER ON AND OFF THE FACILITY

REFERENCE

Greene County Auditors, Orthophotograph (1998); State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83/NAVD88)

FIGURE NO.

30

DRAWN BY

ALH

PROJECT NO.

292.11.31

DATE

6/29/04

APPROVED BY

KDK

The Payne Firm, Inc.

Environmental Consultants

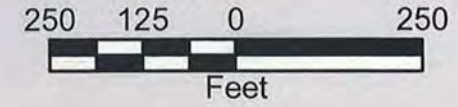
Cincinnati, Ohio

LEGEND

- Surface Water Sampling Location
- Storm Sewer

Select VOCs are presented for Surface Water at the unnamed creek; refer to Table 27 in the Phase I RFI Report for a summary of all VOCs analyzed.

Based on the conclusions of the CA725, VOCs in surface water do not present a current risk to human receptors off the Facility.



Sample ID Sample Date (year-mm-dd) Sample Medium Reporting Units	ST02-07 1999-01-13 Surface Water Unnamed Creek µg/L	ST02-07 1999-03-04 Surface Water Unnamed Creek µg/L	ST02-07 1999-05-14 Surface Water Unnamed Creek µg/L	ST02-07 1999-12-02 Surface Water Unnamed Creek µg/L	ST02-07 2000-06-07 Surface Water Unnamed Creek µg/L	ST02-07 2000-11-02 Surface Water Unnamed Creek µg/L	ST02-07 2001-06-07 Surface Water Unnamed Creek µg/L
1,2-DICHLOROPROPANE	<1	<1	<1	<1	<1	<1	<1
CIS-1,2-DICHLOROETHENE	0.36 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TETRACHLOROETHENE	19	9.4	2.6	<1	2.5	<1	8.6
TRICHLOROETHENE	0.49 J	<1	<1	<1	<1	<1	<1
VINYL CHLORIDE	<2	<2	<2	<2	<2	<2	<2

Sample ID Sample Date (year-mm-dd) Sample Medium Reporting Units	ST02-06 1999-01-13 Surface Water Unnamed Creek µg/L	ST02-06 1999-03-04 Surface Water Unnamed Creek µg/L	ST02-06 1999-05-14 Surface Water Unnamed Creek µg/L	ST02-06 1999-12-02 Surface Water Unnamed Creek µg/L	ST02-06 2000-06-07 Surface Water Unnamed Creek µg/L	ST02-06 2000-11-02 Surface Water Unnamed Creek µg/L	ST02-06 2001-06-07 Surface Water Unnamed Creek µg/L	ST02-06 2001-11-19 Surface Water Unnamed Creek µg/L
1,2-DICHLOROPROPANE	<1	<1	<1	<1.7	<1	<1	<1	<1
CIS-1,2-DICHLOROETHENE	0.58	<0.5	<0.5	<0.83	<0.5	<0.5	<0.5	<0.5
TETRACHLOROETHENE	30	19	11	<1.7	8.4	1	17	4
TRICHLOROETHENE	0.75 J	<1	<1	<1.7	<1	<1	<1	<1
VINYL CHLORIDE	<2	<2	<2	<3.3	<2	<2	<2	<2

Sample ID Sample Date (year-mm-dd) Sample Medium Reporting Units	ST02-09 1999-05-14 Surface Water Unnamed Creek µg/L	ST02-09 1999-12-02 Surface Water Unnamed Creek µg/L	ST02-09 2000-06-07 Surface Water Unnamed Creek µg/L	ST02-09 2000-11-02 Surface Water Unnamed Creek µg/L	ST02-09 2001-06-07 Surface Water Unnamed Creek µg/L
1,2-DICHLOROPROPANE	<1	<2.5	<1	<1	<1
CIS-1,2-DICHLOROETHENE	0.67	<1.2	<0.5	<0.5	<0.5
TETRACHLOROETHENE	23	<2.5	16	3.3	22
TRICHLOROETHENE	<1	<2.5	<1	<1	<1
VINYL CHLORIDE	<2	<5	<2	<2	<2

Sample ID Sample Date (year-mm-dd) Sample Medium Reporting Units	ST02-05 1999-01-13 Surface Water Storm Sewer Outfall to Unname	ST02-05 1999-03-04 Surface Water Storm Sewer Outfall to Unname	ST02-05 1999-05-14 Surface Water Storm Sewer Outfall to Unname	ST02-05 1999-12-02 Surface Water Storm Sewer Outfall to Unname	ST02-05 2000-06-07 Surface Water Storm Sewer Outfall to Unname	ST02-05 2000-11-02 Surface Water Storm Sewer Outfall to Unname	ST02-05 2001-06-07 Surface Water Storm Sewer Outfall to Unname	ST02-05 2001-11-19 Surface Water Storm Sewer Outfall to Unname	ST02-05 2003-02-18 Surface Water Storm Sewer Outfall to Unname	ST02-05 2003-05-08 Surface Water Storm Sewer Outfall to Unname	ST02-05 2003-11-06 Surface Water Storm Sewer Outfall to Unname	ST02-05 2004-02-17 Surface Water Storm Sewer Outfall to Unname
1,2-DICHLOROPROPANE	<2.5	<1.2	<2.5	<1	<1.4	<1	<1	<2.5	<1	<1	<1	<1
CIS-1,2-DICHLOROETHENE	1.2	1.1	<1.2	<0.5	<0.71	<0.5	0.72	<1.2	0.78	0.63	<0.5	0.31 J
TETRACHLOROETHENE	59	44	54	<1	28	24	38	75	39	26	19	15
TRICHLOROETHENE	1.4 J	<1.2	<2.5	<1	<1.4	<1	<1	<2.5	0.9 J	0.69 J	0.41 J	0.4 J
VINYL CHLORIDE	<5	<2.5	<5	<2	<2.8	<2	<2	<5	<1	<1	<1	<1

VERNAV LABORATORIES, INC.

NATURE AND EXTENT OF VOCs
IN SURFACE WATER AT THE
UNNAMED CREEK OFF THE FACILITY

CLIENT

TITLE

DATE
6/29/04

APPROVED BY
KDK

FIGURE NO.
31

DRAWN BY
ALH

PROJECT NO.
292.11.31

THE PAYNE FIRM, INC.

Environmental Consultants
Cincinnati, Ohio

REFERENCE

Greene County Auditors, Orthophotograph (1998); State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83/NAD88)

LEGEND

▲ Sediment Sampling Location

— Storm Sewer

Select VOCs are presented for Sediment at the unnamed creek; refer to Table 28 in the Phase I RFI Report for a summary of all VOCs analyzed.

Based on the conclusions of the CA725, VOCs in sediment do not present a current risk to human receptors off the Facility.



Sample ID	SED02-06	SED02-06	SED02-06	SED02-06	SED02-06
Sample Date (year-mm-dd)	1999-05-14	1999-12-02	2000-06-07	2000-11-02	2001-06-07
Sample Medium	Sediment	Sediment	Sediment	Sediment	Sediment
Reporting Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
1,2-DICHLOROPROPANE	< 4.7	< 5	< 11	< 6	< 5.9
CIS-1,2-DICHLOROETHENE	< 2.4	< 2.5	< 5.7	< 3	< 3
TETRACHLOROETHENE	< 4.7	< 5	< 11	< 6	< 5.9
TRICHLOROETHENE	< 4.7	< 5	< 11	< 6	< 5.9
VINYL CHLORIDE	< 9.4	< 10	< 23	< 12	< 12

Sample ID	SED02-05	SED02-05	SED02-05	SED02-05	SED02-05	SED02-05
Sample Date (year-mm-dd)	1999-05-14	1999-12-02	2000-06-07	2000-11-02	2001-06-07	2001-11-19
Sample Medium	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Reporting Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
1,2-DICHLOROPROPANE	< 5.4	< 5.8	< 10	< 6.6	< 8.6	< 7
CIS-1,2-DICHLOROETHENE	< 2.7	< 2.9	11	< 3.3	8.4	< 3.5
TETRACHLOROETHENE	9.3	< 5.8	66	< 6.6	22	7.9
TRICHLOROETHENE	< 5.4	< 5.8	< 10	< 6.6	< 8.6	< 7
VINYL CHLORIDE	< 11	< 12	< 21	< 13	< 17	< 14

Sample ID	SED02-04	SED02-04	SED02-04	SED02-04	SED02-04
Sample Date (year-mm-dd)	1999-05-14	1999-12-02	2000-06-07	2000-11-02	2001-06-07
Sample Medium	Sediment	Sediment	Sediment	Sediment	Sediment
Reporting Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
1,2-DICHLOROPROPANE	< 9	< 6.6	< 13	< 11	< 7.6
CIS-1,2-DICHLOROETHENE	5	< 3.3	43	< 5.4	< 3.8
TETRACHLOROETHENE	< 9	< 6.6	20	< 11	25
TRICHLOROETHENE	< 9	< 6.6	< 13	< 11	< 7.6
VINYL CHLORIDE	< 18	< 13	< 27	< 22	< 15

Sample ID	SED02-03	SED02-03	SED02-03	SED02-03	SED02-03
Sample Date (year-mm-dd)	1999-05-14	1999-12-02	2000-06-07	2000-11-02	2001-06-07
Sample Medium	Sediment	Sediment	Sediment	Sediment	Sediment
Reporting Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
1,2-DICHLOROPROPANE	< 4.8	< 4.7	< 9.9	< 6.3	< 11
CIS-1,2-DICHLOROETHENE	17	< 2.4	< 4.9	< 3.1	79
TETRACHLOROETHENE	5.1	< 4.7	10	< 6.3	15
TRICHLOROETHENE	< 4.8	< 4.7	< 9.9	< 6.3	< 11
VINYL CHLORIDE	< 9.5	< 9.4	< 20	< 13	< 22

Sample ID	SED02-02	SED02-02	SED02-02	SED02-02	SED02-02
Sample Date (year-mm-dd)	1999-05-14	1999-12-02	2000-06-07	2000-11-02	2001-06-07
Sample Medium	Sediment	Sediment	Sediment	Sediment	Sediment
Reporting Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
1,2-DICHLOROPROPANE	< 5.2	< 5.3	< 16	< 6.1	< 9.2
CIS-1,2-DICHLOROETHENE	5.9	< 2.6	100	< 3.1	46
TETRACHLOROETHENE	14	< 5.3	< 16	< 6.1	32
TRICHLOROETHENE	6.8	< 5.3	< 16	< 6.1	13
VINYL CHLORIDE	< 10	< 11	32	< 12	< 18

Sample ID	SED02-01	SED02-01	SED02-01	SED02-01	SED02-01	SED02-01	SED02-01	SED02-01
Sample Date (year-mm-dd)	1999-03-04	1999-05-14	1999-12-02	2000-06-07	2000-11-02	2001-06-07	2001-11-19	2003-11-06
Sample Medium	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Reporting Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
1,2-DICHLOROPROPANE	< 5	< 5.6	< 5.2	< 16	< 5.9	< 5.8	< 11	< 6.3
CIS-1,2-DICHLOROETHENE	< 2.5	39	< 2.6	270	6.2	< 2.9	< 5.7	< 3.2
TETRACHLOROETHENE	31	13	< 5.2	26	< 5.9	< 5.8	< 11	3.1
TRICHLOROETHENE	< 5	23	< 5.2	< 16	< 5.9	< 5.8	< 11	< 6.3
VINYL CHLORIDE	< 10	< 11	< 10	< 32	< 12	< 12	< 23	< 6.3

The Payne Firm, Inc.
Environmental Consultants
Cincinnati, Ohio



FIGURE NO. 32
DATE 6/29/04
DRAWN BY ALH
APPROVED BY KDK
PROJECT NO. 292.11.31

CLIENT VERNAY LABORATORIES, INC.
TITLE NATURE AND EXTENT OF VOCs
IN SURFACE SEDIMENT AT THE
UNNAMED CREEK OFF THE FACILITY

REFERENCE Greene County Auditors, Orthophotograph (1998); State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83/NAD88)

Sample ID/Sample Depth Sample Date (year-mm-dd) Sample Medium Reporting Units	MW01-13 1999-11-30 Storm Backfill µg/L	MW01-13 2000-02-17 Storm Backfill µg/L	MW01-13 2000-03-23 Storm Backfill µg/L	MW01-13 2000-04-25 Storm Backfill µg/L	MW01-13 2000-06-06 Storm Backfill µg/L	MW01-13 2000-11-02 Storm Backfill µg/L	MW01-13 2001-06-08 Storm Backfill µg/L	MW01-13 2001-11-19 Storm Backfill µg/L	MW01-13 2003-02-18 Storm Backfill µg/L	MW01-13 2003-03-15 Storm Backfill µg/L	MW01-13 2003-11-07 Storm Backfill µg/L	MW01-13 2004-02-20 Storm Backfill µg/L	MW01-13 2004-04-15 Storm Backfill µg/L	MW02-12 2003-09-15 Storm Backfill µg/L	MW02-12 2003-11-05 Storm Backfill µg/L	MW02-12 2004-02-25 Storm Backfill µg/L	MW02-12 2004-04-15 Storm Backfill µg/L
1,2-DICHLOROPROPANE	< 250	< 380	< 120	< 62	< 71	< 25	< 20	< 40	< 40	< 33	< 33	< 25	< 22	< 1	< 1	< 1	< 1
CIS-1,2-DICHLOROETHENE	< 120	240	< 62	< 31	< 36	67	19	61	44	17	27	11 J	18	0.42 J	0.35 J	< 0.5	< 0.5
TETRACHLOROETHENE	6800	9000	2800	1700	1600	3200	640	1300	1100	830	1000	620	580	2	1.2	2.3	2.3
TRICHLOROETHENE	< 250	< 380	< 120	< 62	< 71	120	< 20	< 40	34 J	13 J	19 J	9.8 J	10 J	0.97 J	0.63 J	0.85 J	1
VINYL CHLORIDE	< 500	< 770	< 250	< 120	< 140	< 50	< 40	< 80	< 40	< 33	< 33	< 25	< 22	< 1	< 1	< 1	< 1

Sample ID/Sample Depth Sample Date (year-mm-dd) Sample Medium Reporting Units	GP02-042 / 03-07 GW 2003-08-01 Storm Backfill µg/L	GP02-043 / 06-10 GW 2003-08-01 Storm Backfill µg/L	GP02-045 / 06-10 GW 2003-08-01 Storm Backfill µg/L	GP02-046 / 06-10 GW 2003-08-01 Storm Backfill µg/L	GP02-047 / 06-10 GW 2003-08-01 Storm Backfill µg/L	GP02-048 / 06-10 GW 2003-08-05 Storm Backfill µg/L	GP02-049 / 06-10 GW 2003-08-05 Storm Backfill µg/L
1,2-DICHLOROPROPANE	< 1	< 1	< 1	< 1	< 1	< 2	< 50
CIS-1,2-DICHLOROETHENE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 25
TETRACHLOROETHENE	0.28 J	0.51 J	1.4	10	0.77 J	46	1600
TRICHLOROETHENE	< 1	< 1	0.76 J	0.58 J	< 1	2.6	64
VINYL CHLORIDE	< 1	< 1	< 1	< 1	< 1	< 2	< 50









Sample ID/Sample Depth Sample Date (year-mm-dd) Sample Medium Reporting Units	VSGP-005S / 02-06 2000-04-06 Sanitary Backfill µg/L	VSGP-004 / 5.5.9.5 2000-04-06 Storm Backfill µg/L	VSGP-007 / 04-08 2000-04-06 Storm Backfill µg/L
1,2-DICHLOROPROPANE	< 1	< 1	< 1
CIS-1,2-DICHLOROETHENE	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	< 1	< 1	< 1
TRICHLOROETHENE	< 1	< 1	< 1
VINYL CHLORIDE	< 2	< 2	< 2

Sample ID/Sample Depth Sample Date (year-mm-dd) Sample Medium Reporting Units	GP01-110 / 06-10 2003-08-05 Sanitary Backfill µg/L	GP02-051 / 02.5-06.5 2003-08-05 Sanitary Backfill µg/L	GP02-052 / 02.5-06.5 2003-08-05 Sanitary Backfill µg/L	MW01-12 1999-11-30 Sanitary Backfill µg/L	MW01-12 2000-06-05 Sanitary Backfill µg/L	MW01-12 2001-06-08 Sanitary Backfill µg/L	MW01-12 2003-02-13 Sanitary Backfill µg/L	MW01-12 2003-09-12 Sanitary Backfill µg/L	MW01-12 2003-11-06 Sanitary Backfill µg/L	MW01-12 2004-02-19 Sanitary Backfill µg/L	MW01-12 2004-04-13 Sanitary Backfill µg/L
1,2-DICHLOROPROPANE	< 1	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CIS-1,2-DICHLOROETHENE	4.9 j-	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	12 j-	79 j-	5.5	< 1	< 1	< 1	0.51 J	0.39 J	0.3 J	0.28 J	0.46 J
TRICHLOROETHENE	3 j-	1.5 J j-	2.9	2.4	4.6	3.3	3.2	4.4	3.2	2.5	3.8
VINYL CHLORIDE	< 1	< 2	< 1	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1

Sample ID/Sample Depth Sample Date (year-mm-dd) Sample Medium Reporting Units	STW01-01 2000-02-17 Storm Backfill µg/L	STW01-01 2000-03-23 Storm Backfill µg/L	STW01-01 2000-04-25 Storm Backfill µg/L	STW01-02 2000-02-17 Storm Backfill µg/L	STW01-02 2000-03-23 Storm Backfill µg/L	STW01-02 2000-04-25 Storm Backfill µg/L	STW01-03 2000-02-17 Storm Backfill µg/L	STW01-03 2000-03-23 Storm Backfill µg/L	STW01-03 2000-04-25 Storm Backfill µg/L	STW01-04 2000-02-17 Storm Backfill µg/L
1,2-DICHLOROPROPANE	< 1.2	< 1	< 1.2	< 20	< 10	< 5	1.6	< 3.3	1.8	< 17
CIS-1,2-DICHLOROETHENE	< 0.62	< 0.5	< 0.62	< 10	< 5	< 2.5	9.3	< 1.7	6.1	14
TETRACHLOROETHENE	35	29	45	710	330	140	12	< 3.3	9.2	79
TRICHLOROETHENE	< 1.2	< 1	< 1.2	< 20	< 10	< 5	4.7	< 3.3	4.7	< 17
VINYL CHLORIDE	< 2.5	< 2	< 2.5	< 40	< 20	< 10	< 2	< 6.7	< 2	< 33

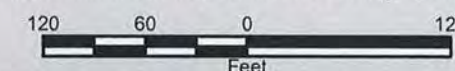
Sample ID/Sample Depth Sample Date (year-mm-dd) Sample Medium Reporting Units	STW01-04 2000-03-23 Storm Backfill µg/L	STW01-04 2000-04-25 Storm Backfill µg/L	STW01-05 2000-03-23 Storm Backfill µg/L	STW01-05 2000-04-25 Storm Backfill µg/L	STW01-06 2000-02-17 Storm Backfill µg/L	STW01-06 2000-03-23 Storm Backfill µg/L	STW01-06 2000-04-25 Storm Backfill µg/L	STW01-07 2000-02-17 Storm Backfill µg/L	STW01-07 2000-03-23 Storm Backfill µg/L	STW01-07 2000-04-25 Storm Backfill µg/L
1,2-DICHLOROPROPANE	< 8.3	< 2.5	< 42	< 250	< 1	< 2 u	< 1	< 3.8	< 7.1 u	< 17
CIS-1,2-DICHLOROETHENE	< 4.2	8.2	< 21	1700	6.9	< 1 u	6.8	91	< 3.6 u	220
TETRACHLOROETHENE	< 8.3	48	1600	6900	6.6	< 2 u	3.4	150	< 7.1 u	310
TRICHLOROETHENE	< 8.3	9.6	< 42	< 250	9.2	< 2 u	4.2	91	< 7.1 u	370
VINYL CHLORIDE	< 17	< 5	< 83	< 500	< 2	< 4 u	< 2	< 7.7	< 14 u	< 33


LEGEND

-  Sanitary Sewer Backfill Direct-Push
-  Sanitary Sewer Backfill Monitoring Well
-  Sanitary Sewer
-  Storm Sewer Backfill Direct-Push
-  Storm Sewer Backfill Monitoring Well
-  Storm Sewer Backfill Remediation Injection Well
-  Storm Sewer
-  Vernay Facility Boundary

Select VOCs are presented for Sewer Backfill ; refer to Table 32 in the Phase I RFI Report for a summary of all VOCs analyzed.

Based on the conclusions of the CA725, VOCs in sewer backfill do not present a current risk to human receptors off the Facility. PCE is a Contaminant of Interest on the Facility in sewer backfill.



TITLE NATURE AND EXTENT OF VOCs DETECTED IN SEWER BACKFILL ON AND OFF THE FACILITY	
DATE 6/15/04	FIGURE 33
DRAWN BY ALH	APPROVED BY KDK
CLIENT VERNAV LABORATORIES, INC.	
PROJECT NO. 292.11.31	
 The Payne Firm, Inc. Environmental Consultants Cincinnati, Ohio	
<small>REFERENCE: Greene County Auditors, Orthophotograph (1998); State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83 / NAVD88)</small>	



LEGEND

- Saturated Sand Seam Sample
 - Unconsolidated Unit Monitoring Well
 - No Saturated Sand Seam
 - Vernay Facility Boundary
- 200 100 0 200
Feet

Select VOCs are presented for Water in discontinuous sand seams of the Facility; refer to Table 33 in the Phase I RFI Report for a summary of all VOCs analyzed.

Based on the conclusions of the CA725, VOCs in sand seam water do not present a current risk to human receptors off the Facility.


Sampling Key

(8-11) Interval in parentheses indicates depth below ground surface where sample was collected.

VOC Results in ug/L
PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = cis-1,2-Dichloroethene
DCP = 1,2-Dichloropropane
ND = Not Detected above the RL.

*Only VOC results above the Laboratory Reporting Limit (RL) are shown.

CLIENT	VERNAV LABORATORIES, INC.		FIGURE NO.	34	DATE	6/15/04	
	TITLE	NATURE AND EXTENT OF VOCs		DRAWN BY	ALH	APPROVED BY	KDK
		DETECTED IN SATURATED SAND SEAMS					
		OFF THE FACILITY		PROJECT NO. 292.11.31			
REFERENCE: Greene County Auditors, Orthophotograph (1998); State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83/NAVD88)							



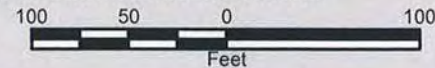
The Payne Firm, Inc.
Environmental Consultants
Cincinnati, Ohio

LEGEND

- Metals (As, Cu, Zn) Direct-Push Sample
- Background Metals (As, Cu, Zn) Direct-Push Sample
- Cu/As/Zn Concentrations in mg/kg (0-2 feet samples)
- Vernay Facility Boundary










The locations of Metals (As, Cu, Zn) sampling are presented for Soil ; refer to Table 31 in the Phase I RFI Report for a summary of the results for Metals sampling at the Facility. Metals concentrations in background soil are presented for the 825 Dayton Street Property.

Based on the results of the background Metals sampling, a determination will be made during the Phase II RFI scoping regarding the need for additional nature and extent Metals data in soil.



TITLE			
NATURE AND EXTENT OF METALS (As,Cu, Zn) DETECTED IN SOIL ON AND OFF THE FACILITY			
DATE 6/29/04		FIGURE 35	
DRAWN BY ALH		APPROVED BY KDK	
CLIENT VERNAY LABORATORIES, INC.			
PROJECT NO.		292.11.31	
		The Payne Firm, Inc. Environmental Consultants Cincinnati, Ohio	
REFERENCE: Greene County Auditors, Orthophotograph (1998); State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83 / NAVD88)			

LEGEND

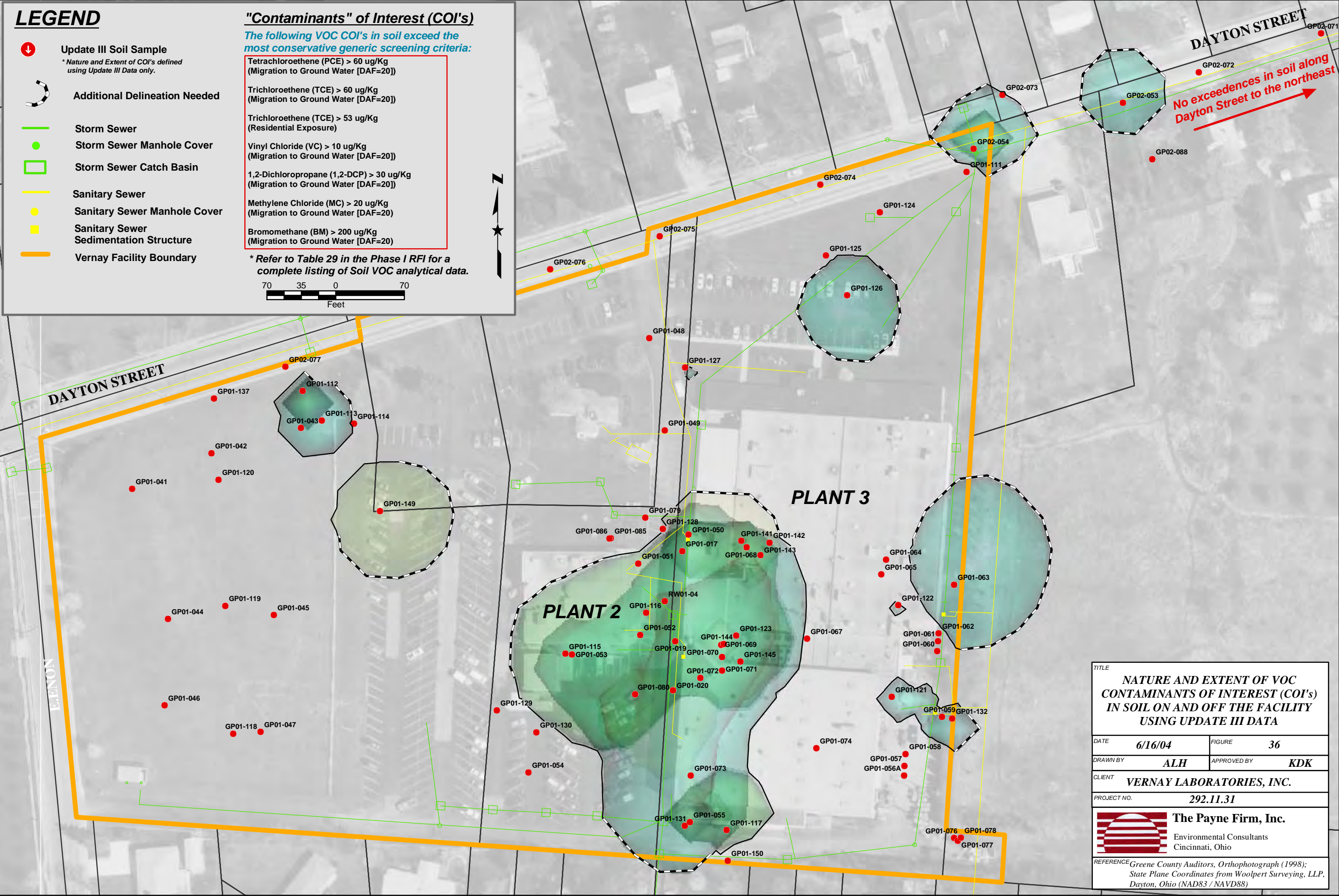
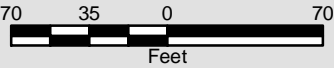
- **Update III Soil Sample**
* Nature and Extent of COI's defined using Update III Data only.
- **Additional Delineation Needed**
- **Storm Sewer**
- **Storm Sewer Manhole Cover**
- **Storm Sewer Catch Basin**
- **Sanitary Sewer**
- **Sanitary Sewer Manhole Cover**
- **Sanitary Sewer Sedimentation Structure**
- **Vernay Facility Boundary**

"Contaminants" of Interest (COI's)

The following VOC COI's in soil exceed the most conservative generic screening criteria:

- Tetrachloroethene (PCE) > 60 ug/Kg
(Migration to Ground Water [DAF=20])
- Trichloroethene (TCE) > 60 ug/Kg
(Migration to Ground Water [DAF=20])
- Trichloroethene (TCE) > 53 ug/Kg
(Residential Exposure)
- Vinyl Chloride (VC) > 10 ug/Kg
(Migration to Ground Water [DAF=20])
- 1,2-Dichloropropane (1,2-DCP) > 30 ug/Kg
(Migration to Ground Water [DAF=20])
- Methylene Chloride (MC) > 20 ug/Kg
(Migration to Ground Water [DAF=20])
- Bromomethane (BM) > 200 ug/Kg
(Migration to Ground Water [DAF=20])

* Refer to Table 29 in the Phase I RFI for a complete listing of Soil VOC analytical data.



TITLE NATURE AND EXTENT OF VOC CONTAMINANTS OF INTEREST (COI's) IN SOIL ON AND OFF THE FACILITY USING UPDATE III DATA	
DATE 6/16/04	FIGURE 36
DRAWN BY ALH	APPROVED BY KDK
CLIENT VERNAY LABORATORIES, INC.	
PROJECT NO. 292.11.31	
 The Payne Firm, Inc. Environmental Consultants Cincinnati, Ohio	
REFERENCE Greene County Auditors, Orthophotograph (1998); State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83 / NAVD88)	

LEGEND

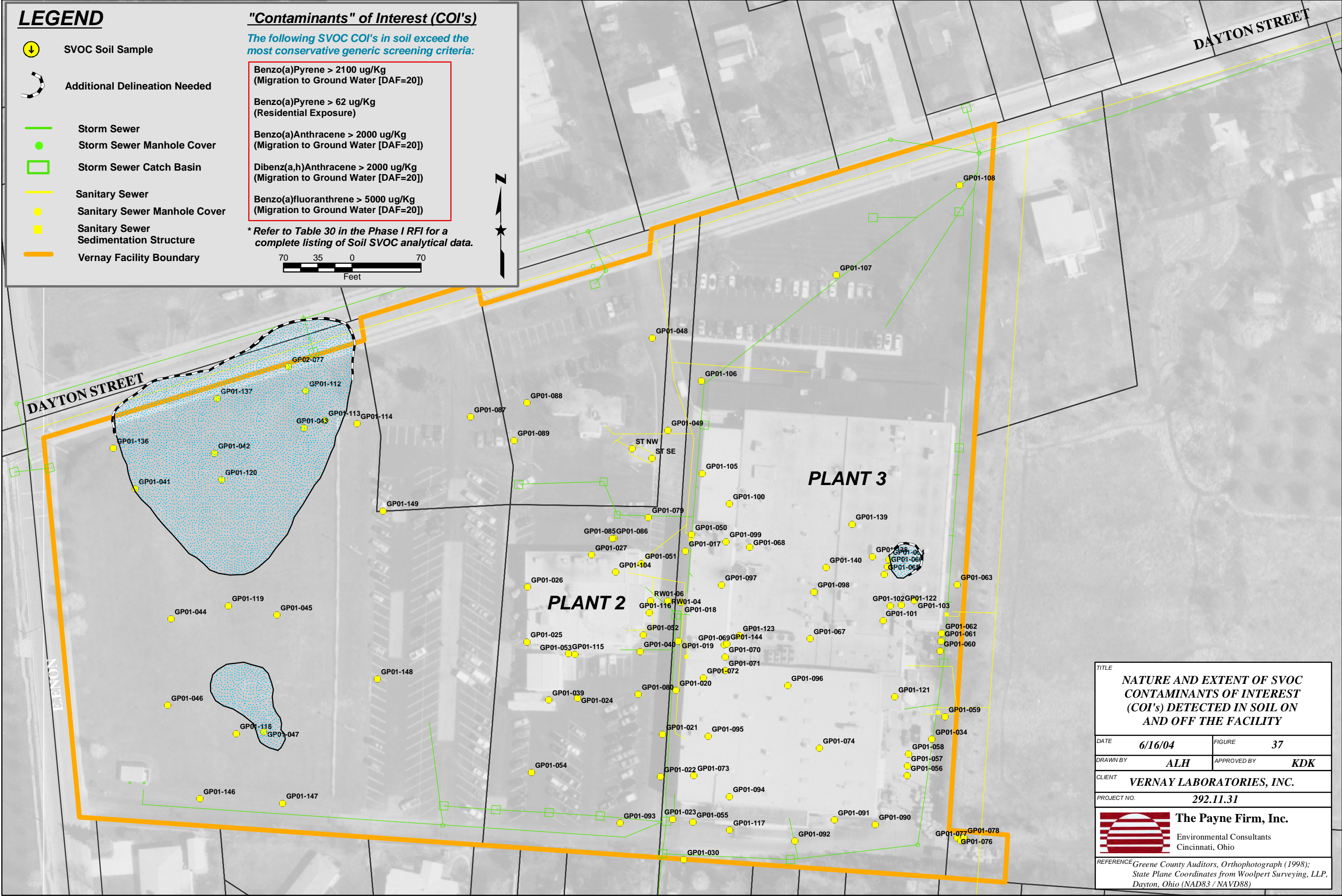
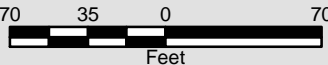
- SVOC Soil Sample
- Additional Delineation Needed
- Storm Sewer
- Storm Sewer Manhole Cover
- Storm Sewer Catch Basin
- Sanitary Sewer
- Sanitary Sewer Manhole Cover
- Sanitary Sewer Sedimentation Structure
- Vernay Facility Boundary

"Contaminants" of Interest (COI's)

The following SVOC COI's in soil exceed the most conservative generic screening criteria:

- Benzo(a)Pyrene > 2100 ug/Kg (Migration to Ground Water [DAF=20])
- Benzo(a)Pyrene > 62 ug/Kg (Residential Exposure)
- Benzo(a)Anthracene > 2000 ug/Kg (Migration to Ground Water [DAF=20])
- Dibenz(a,h)Anthracene > 2000 ug/Kg (Migration to Ground Water [DAF=20])
- Benzo(a)fluoranthrene > 5000 ug/Kg (Migration to Ground Water [DAF=20])

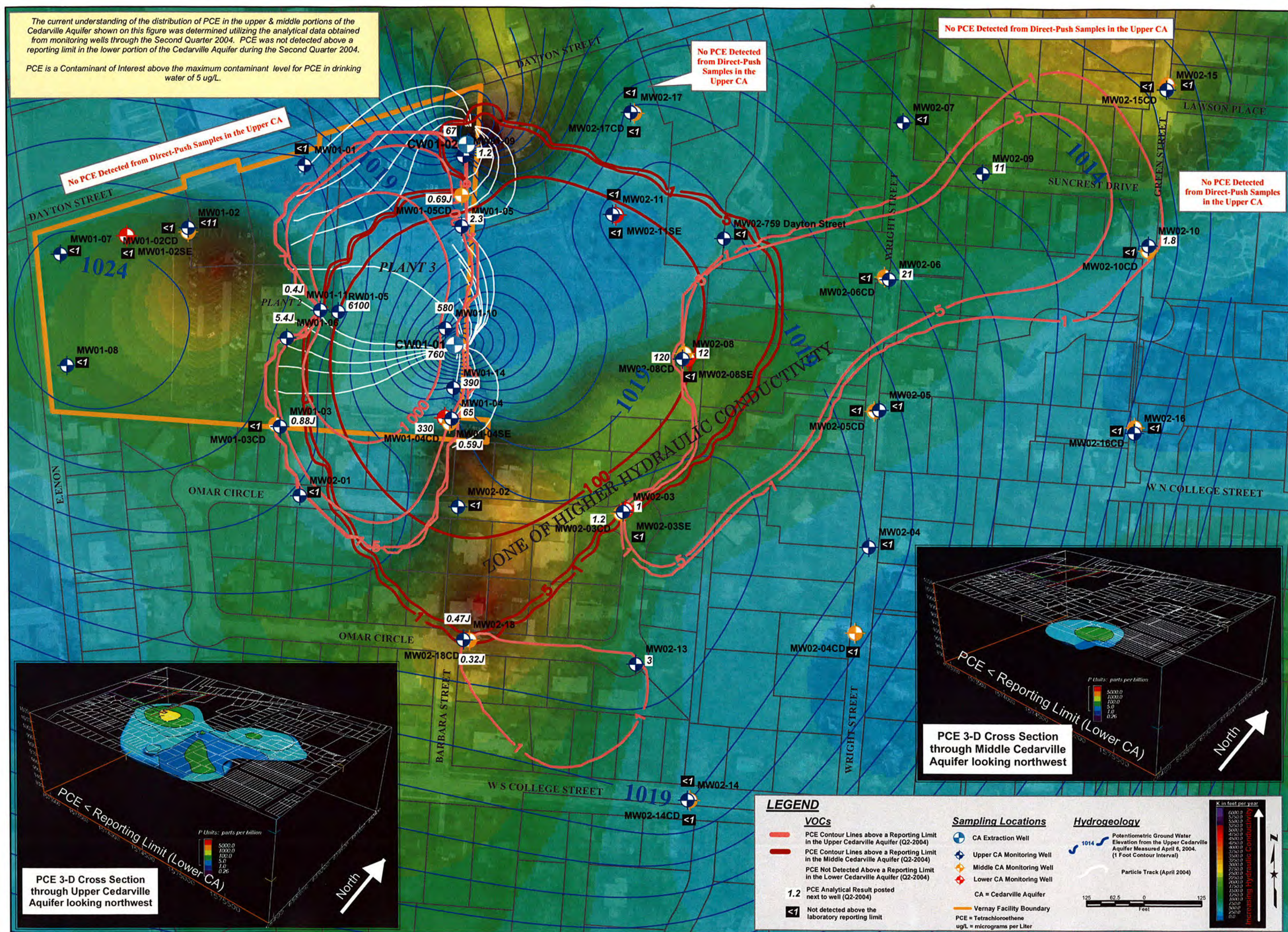
* Refer to Table 30 in the Phase I RFI for a complete listing of Soil SVOC analytical data.



TITLE NATURE AND EXTENT OF SVOC CONTAMINANTS OF INTEREST (COI's) DETECTED IN SOIL ON AND OFF THE FACILITY	
DATE 6/16/04	FIGURE 37
DRAWN BY ALH	APPROVED BY KDK
CLIENT VERNAY LABORATORIES, INC.	
PROJECT NO. 292.11.31	
 The Payne Firm, Inc. Environmental Consultants Cincinnati, Ohio	
REFERENCE Greene County Auditors, Orthophotograph (1998); State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83 / NAVD88)	

The current understanding of the distribution of PCE in the upper & middle portions of the Cedarville Aquifer shown on this figure was determined utilizing the analytical data obtained from monitoring wells through the Second Quarter 2004. PCE was not detected above a reporting limit in the lower portion of the Cedarville Aquifer during the Second Quarter 2004.

PCE is a Contaminant of Interest above the maximum contaminant level for PCE in drinking water of 5 ug/L.



The Payne Firm, Inc.



Environmental Consultants
Cincinnati, Ohio

DATE 6/16/04

FIGURE NO. 38

DRAWN BY ALH

CLIENT VERNAY LABORATORIES, INC.

TITLE

APPROVED BY KDK

PROJECT NO. 292.11.31

NATURE AND EXTENT OF PCE DETECTED
IN THE CEDARVILLE AQUIFER (Q2-2004)

REFERENCE Greene County Auditors, Orthophotograph (1998); State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83/NAVD88)

TCE is a Contaminant of Interest above the maximum contaminant level for TCE in drinking water of 5 ug/L.



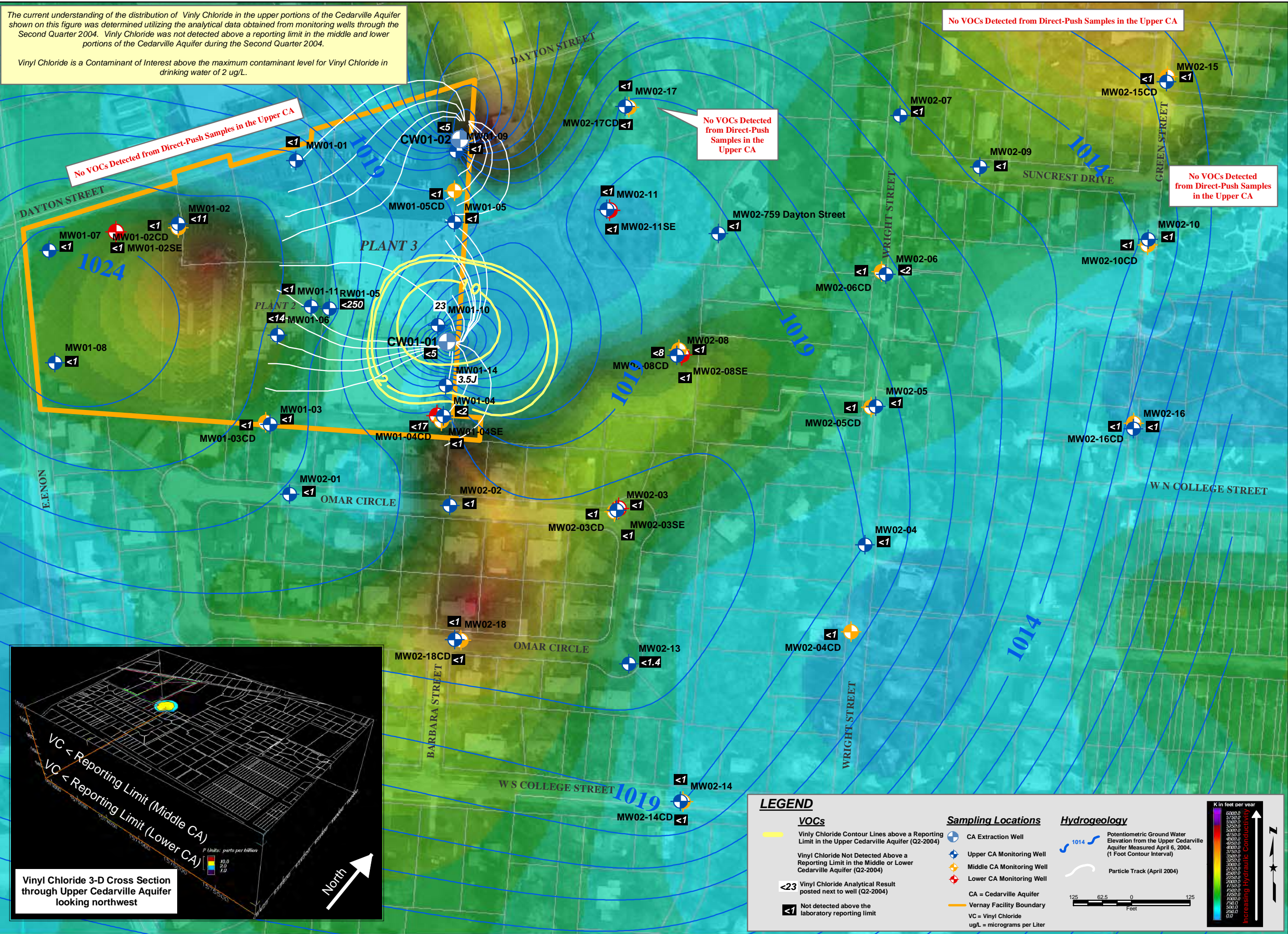
FIGURE NO.	39	DATE	6/16/04
DRAWN BY	ALH	APPROVED BY	KDK
PROJECT NO.		292 11 31	

<i>CLIENT</i>	<i>TITLE</i>
VERNAV LABORATORIES, INC.	NATURE AND EXTENT OF TCE DETECTION IN THE CEDARVILLE AQUIFER (02-20)

REFERENCE Greene County Auditors, *Orthophotograph (1998)*; *State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83/NAVD88)*

The current understanding of the distribution of Vinyl Chloride in the upper portions of the Cedarville Aquifer shown on this figure was determined utilizing the analytical data obtained from monitoring wells through the Second Quarter 2004. Vinyl Chloride was not detected above a reporting limit in the middle and lower portions of the Cedarville Aquifer during the Second Quarter 2004.

Vinyl Chloride is a Contaminant of Interest above the maximum contaminant level for Vinyl Chloride in drinking water of 2 ug/L.



CLIENT	VERNAY LABORATORIES, INC. TITLE NATURE AND EXTENT OF VINYL CHLORIDE DETECTED IN THE CEDARVILLE AQUIFER (Q2-2004)		FIGURE NO.	40	DATE	6/16/04
			DRAWN BY	ALH	APPROVED BY	KDK
			PROJECT NO.			292.11.31
REFERENCE	Greene County Auditors, Orthophotograph (1998); State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83/NAVD88)					

The Payne Firm, Inc.

Environmental Consultants
Cincinnati, Ohio

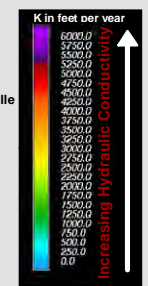
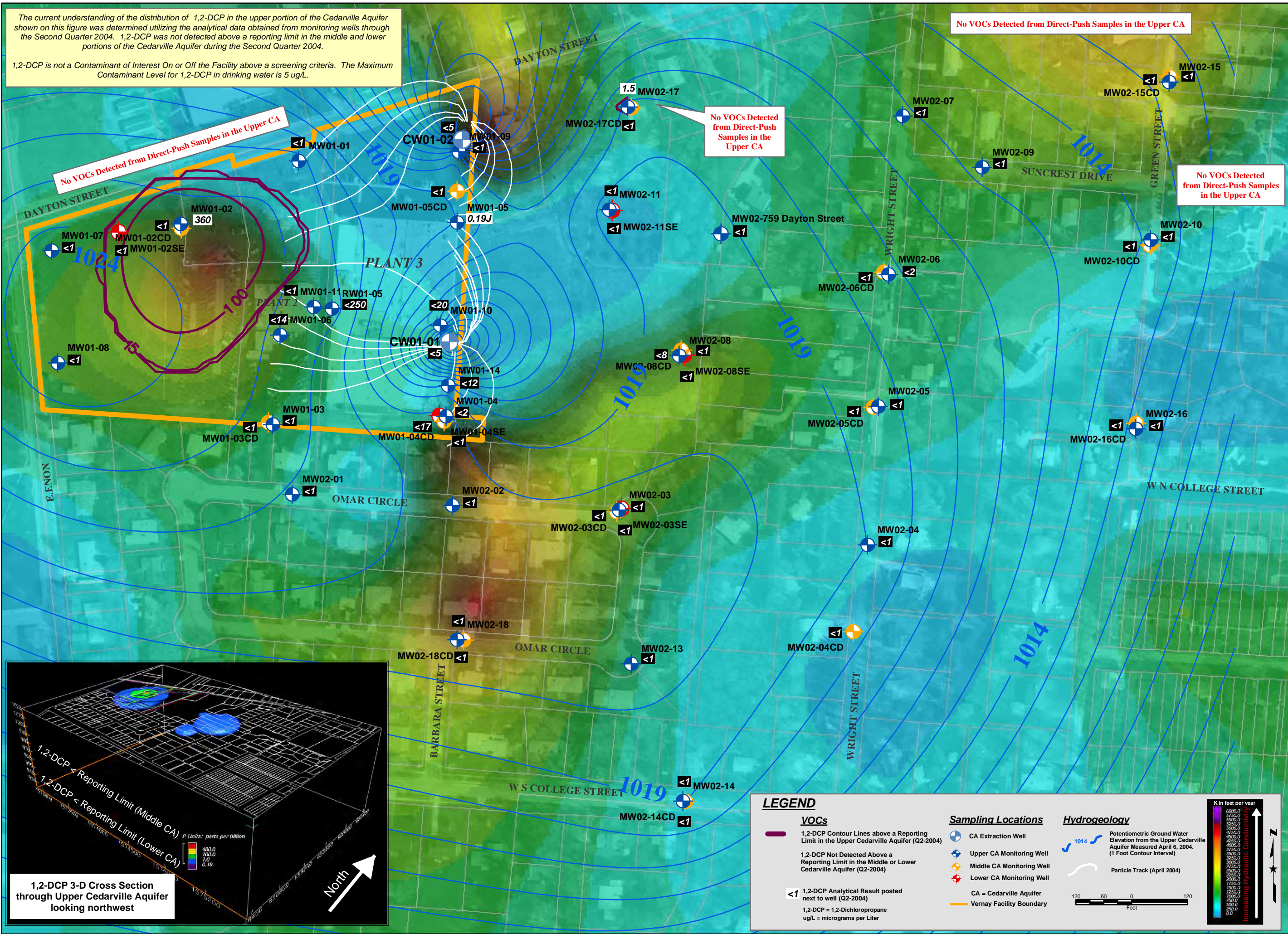
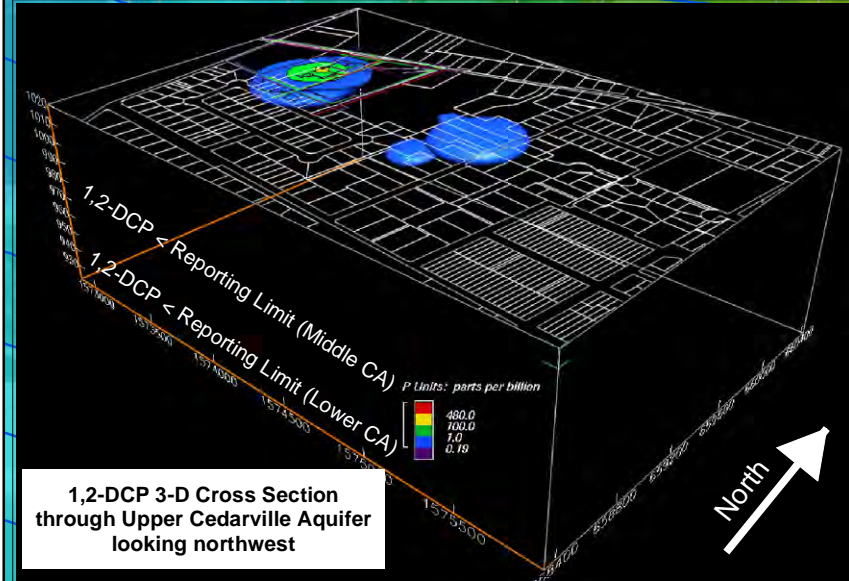
1,2-DCP is not a Contaminant of Interest On or Off the Facility above a screening criteria. The Maximum Contaminant Level for 1,2-DCP in drinking water is 5 ug/L.

No VOCs Detected from Direct-Push Samples in the Upper CA

**No VOCs Detected
from Direct-Push
Samples in the
Upper CA**

No VOCs Detected from Direct-Push Samples in the Upper CA

**No VOCs Detected
from Direct-Push Samples
in the Upper CA**



CLIENT	VERNAV LABORATORIES, INC.		FIGURE NO.	41	DATE	6/16/04
TITLE	NATURE AND EXTENT OF 1,2-DCP DETECTED IN THE CEDARVILLE AQUIFER (Q2-2004)		DRAWN BY	ALH	APPROVED BY	KDK
			PROJECT NO.	292.11.31		
REFERENCE	Greene County Auditors, Orthophotograph (1998); State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83/NAVD88)					