

US EPA ARCHIVE DOCUMENT

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
PO Box 96
North Bend OH 42052

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425SAMPLE GROUP

The sample group for this submittal is 1015314. Samples arrived at the laboratory on Wednesday, November 22, 2006. The PO# for this group is 0015007286 and the release number is 50008931.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
MW-81S Grab Water Sample	4922619
MW-81D Grab Water Sample	4922620
MW-120 Grab Water Sample	4922621
MW-23 Grab Water Sample	4922622
MW-33 Grab Water Sample	4922623
BD-02 Grab Water Sample	4922624
L-4R Grab Water Sample	4922625
MW-104S Grab Water Sample	4922626
BD-01 Grab Water Sample	4922627
MW-27 Grab Water Sample	4922628
MW-26R Grab Water Sample	4922629
EB1111906 Grab Water Sample	4922630
MW-85S Grab Water Sample	4922631
MW-85D Grab Water Sample	4922632
MW-7 Grab Water Sample	4922633
MW-48S Grab Water Sample	4922634
MW-101S Grab Water Sample	4922635
FB1111806 Grab Water Sample	4922636
MW-48D Unspiked Grab Water Sample	4922637
MW-48DMS Matrix Spike Grab Water Sample	4922638
MW-48DMSD Matrix Spike Dup Grab Water Sample	4922639
MW-48DDUP Duplicate Grab Water Sample	4922640
MW-94S Grab Water Sample	4922641

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Trihydro Corporation
ELECTRONIC Trihydro Corporation
COPY TO
1 COPY TO Data Package Group

Attn: Chris Aneiros
Attn: Trihydro Database

Questions? Contact your Client Services Representative
Wendy A Kozma at (717) 656-2300

Respectfully Submitted,



Marla S. Lord
Senior Specialist

US EPA ARCHIVE DOCUMENT

Lancaster Laboratories Sample No. WW 4922619
MW-81S Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/18/2006 09:16 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:27

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IM81S SDG#: HVO42-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	27.		0.8	ug/l	1
05417	o-Xylene	95-47-6	2. J		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	200.		0.5	ug/l	1
05407	Toluene	108-88-3	9.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	34.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	29.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 00:53	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 05:00	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 05:00	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 05:00	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922620
MW-81D Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/18/2006 11:10 by NK

Account Number: 11494

 Submitted: 11/22/2006 10:05
 Reported: 11/30/2006 at 11:27
 Discard: 01/30/2007

 ChevronTexaco
 PO Box 96
 North Bend OH 42052

IM81D SDG#: HVO42-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	N.D.		0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 00:56	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 05:22	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 05:22	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 05:22	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

US EPA ARCHIVE DOCUMENT

Lancaster Laboratories Sample No. WW 4922621
MW-120 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/18/2006 13:10 by NK

Account Number: 11494

 Submitted: 11/22/2006 10:05
 Reported: 11/30/2006 at 11:27
 Discard: 01/30/2007

 ChevronTexaco
 PO Box 96
 North Bend OH 42052

IM120 SDG#: HVO42-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	N.D.	0.0069	mg/l	1
06371	8260 Special Cmpds for Waters					
05416	m+p-Xylene	n.a.	N.D.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
07582	PPL + Xylene (total) by 8260					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	11/29/2006 01:08	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 05:44	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 05:44	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 05:44	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922622
MW-23 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/17/2006 14:40 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:27

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IM-23 SDG#: HVO42-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	N.D.		0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	2. J		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 01:11	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 07:20	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 07:20	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 07:20	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922623
MW-33 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/17/2006 13:14 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:27

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IM-33 SDG#: HVO42-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	N.D.		0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 01:15	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 07:43	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 07:43	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 07:43	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922624
BD-02 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: n.a. by NK Account Number: 11494

 Submitted: 11/22/2006 10:05
 Reported: 11/30/2006 at 11:27
 Discard: 01/30/2007

 ChevronTexaco
 PO Box 96
 North Bend OH 42052

IMB02 SDG#: HVO42-06FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
07055	Lead	7439-92-1	N.D.	0.0069	mg/l	1
06371	8260 Special Cmpds for Waters					
05416	m+p-Xylene	n.a.	N.D.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
07582	PPL + Xylene (total) by 8260					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 01:19	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 08:05	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 08:05	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 08:05	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922625
L-4R Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/17/2006 11:50 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:27

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IML4R SDG#: HVO42-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	N.D.	0.0069	mg/l	1
06371	8260 Special Cmpds for Waters					
05416	m+p-Xylene	n.a.	N.D.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
07582	PPL + Xylene (total) by 8260					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	11/29/2006 01:23	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 08:27	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 08:27	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 08:27	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922626
MW-104S Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/16/2006 16:00 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:28

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IM104 SDG#: HVO42-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
07055	Lead	7439-92-1	N.D.	0.0069	mg/l	1
06371	8260 Special Cmpds for Waters					
05416	m+p-Xylene	n.a.	N.D.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
07582	PPL + Xylene (total) by 8260					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 01:26	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 08:50	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 08:50	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 08:50	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922627
BD-01 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: n.a. by NK Account Number: 11494

 Submitted: 11/22/2006 10:05
 Reported: 11/30/2006 at 11:28
 Discard: 01/30/2007

 ChevronTexaco
 PO Box 96
 North Bend OH 42052

IMB01 SDG#: HVO42-09FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
07055	Lead	7439-92-1	N.D.	0.0069	mg/l	1
06371	8260 Special Cmpds for Waters					
05416	m+p-Xylene	n.a.	N.D.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
07582	PPL + Xylene (total) by 8260					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 01:30	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 09:13	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 09:13	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 09:13	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922628
MW-27 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/15/2006 15:25 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:28

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IM-27 SDG#: HVO42-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	N.D.		0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 01:34	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 09:35	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 09:35	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 09:35	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922629
MW-26R Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/15/2006 13:50 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:28

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IM26R SDG#: HVO42-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
07055	Lead	7439-92-1	N.D.	0.0069	mg/l	1
06371	8260 Special Cmpds for Waters					
05416	m+p-Xylene	n.a.	N.D.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
07582	PPL + Xylene (total) by 8260					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 01:38	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 09:58	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 09:58	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 09:58	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922630
EB1111906 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/19/2006 09:00 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:28

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IM-EB SDG#: HVO42-12EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
07055	Lead	7439-92-1	N.D.	0.0069	mg/l	1
06371	8260 Special Cmpds for Waters					
05416	m+p-Xylene	n.a.	N.D.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
07582	PPL + Xylene (total) by 8260					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 01:41	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 10:20	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 10:20	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 10:20	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922631
MW-85S Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/14/2006 12:45 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:28

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IM85S SDG#: HVO42-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	630.	4.		ug/l	5
05417	o-Xylene	95-47-6	27.	4.		ug/l	5
08171	1,3-Dichlorobenzene	541-73-1	N.D.	5.		ug/l	5
08172	1,4-Dichlorobenzene	106-46-7	N.D.	5.		ug/l	5
08173	1,2-Dichlorobenzene	95-50-1	N.D.	5.		ug/l	5
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	6. J	3.		ug/l	5
05407	Toluene	108-88-3	6. J	4.		ug/l	5
05413	Chlorobenzene	108-90-7	N.D.	4.		ug/l	5
05415	Ethylbenzene	100-41-4	740.	4.		ug/l	5
06310	Xylene (Total)	1330-20-7	660.	4.		ug/l	5

The reporting limits for the GC/MS volatile compounds were raised due to the level of non-target compounds.

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 01:53	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 10:42	Stephanie A Selis	5
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 10:42	Stephanie A Selis	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 10:42	Stephanie A Selis	5
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922632
MW-85D Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/14/2006 10:55 by NK

Account Number: 11494

 Submitted: 11/22/2006 10:05
 Reported: 11/30/2006 at 11:28
 Discard: 01/30/2007

 ChevronTexaco
 PO Box 96
 North Bend OH 42052

IM85D SDG#: HVO42-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	N.D.	0.0069	mg/l	1
06371	8260 Special Cmpds for Waters					
05416	m+p-Xylene	n.a.	N.D.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
07582	PPL + Xylene (total) by 8260					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	11/29/2006 01:56	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 11:05	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 11:05	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 11:05	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922633
MW-7 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/14/2006 15:50 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:28

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IM-M7 SDG#: HVO42-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	20.		0.8	ug/l	1
05417	o-Xylene	95-47-6	2. J		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	10.		0.5	ug/l	1
05407	Toluene	108-88-3	2. J		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	3. J		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	22.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 02:00	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 11:27	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 11:27	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 11:27	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW 4922634

MW-48S Grab Water Sample

Interim Measures (IM) Groundwater Monitoring

Collected: 11/16/2006 13:25 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05
 Reported: 11/30/2006 at 11:28
 Discard: 01/30/2007

ChevronTexaco
 PO Box 96
 North Bend OH 42052

IM48S SDG#: HVO42-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	190.		0.8	ug/l	1
05417	o-Xylene	95-47-6	36.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	0.8 J		0.5	ug/l	1
05407	Toluene	108-88-3	0.9 J		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	42.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	230.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	11/29/2006 02:04	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 11:49	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 11:49	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 11:49	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

US EPA ARCHIVE DOCUMENT

Lancaster Laboratories Sample No. WW 4922635
MW-101S Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/18/2006 14:40 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:28

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IM101 SDG#: HVO42-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	N.D.		0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	1. J		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 02:08	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 12:34	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 12:34	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 12:34	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922636
FB1111806 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/18/2006 14:40 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:28

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IM-FB SDG#: HVO42-18FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
07055	Lead	7439-92-1	N.D.	0.0069	mg/l	1
06371	8260 Special Cmpds for Waters					
05416	m+p-Xylene	n.a.	N.D.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
07582	PPL + Xylene (total) by 8260					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 02:11	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 12:56	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 12:56	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 12:56	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922637
MW-48D Unspiked Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/16/2006 11:25 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:28

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IM48D SDG#: HVO42-19BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	N.D.		0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	3. J		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 00:30	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 06:06	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 06:06	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 06:06	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922638
MW-48DMS Matrix Spike Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/16/2006 11:25 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:28

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IM48D SDG#: HVO42-19MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	0.125		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	42.		0.8	ug/l	1
05417	o-Xylene	95-47-6	20.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	19.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	20.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	20.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	25.		0.5	ug/l	1
05407	Toluene	108-88-3	21.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	20.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	21.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	62.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 00:41	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 06:35	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 06:35	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 06:35	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4922639
MW-48DMSD Matrix Spike Dup Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/16/2006 11:25 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:28

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IM48D SDG#: HVO42-19MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	0.125	0.0069	mg/l	1
06371	8260 Special Cmpds for Waters					
05416	m+p-Xylene	n.a.	40.	0.8	ug/l	1
05417	o-Xylene	95-47-6	19.	0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	18.	1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	19.	1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	19.	1.	ug/l	1
07582	PPL + Xylene (total) by 8260					
05401	Benzene	71-43-2	23.	0.5	ug/l	1
05407	Toluene	108-88-3	20.	0.7	ug/l	1
05413	Chlorobenzene	108-90-7	19.	0.8	ug/l	1
05415	Ethylbenzene	100-41-4	20.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	59.	0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	11/29/2006 00:45	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 06:58	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 06:58	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 06:58	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

US EPA ARCHIVE DOCUMENT



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW 4922640

MW-48DDUP Duplicate Grab Water Sample

Interim Measures (IM) Groundwater Monitoring

Collected: 11/16/2006 11:25 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:28

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IM48D SDG#: HVO42-19DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.	0.0069		mg/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 00:38	Suzette L Lehman	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

US EPA ARCHIVE DOCUMENT

Lancaster Laboratories Sample No. WW 4922641
MW-94S Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/21/2006 12:05 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 11/30/2006 at 11:28

PO Box 96

Discard: 01/30/2007

North Bend OH 42052

IM94S SDG#: HVO42-20*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	N.D.		0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 02:15	Suzette L Lehman	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/25/2006 13:19	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/25/2006 13:19	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/25/2006 13:19	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 10:50	Megersa Deyessa	1

Quality Control Summary

 Client Name: ChevronTexaco
 Reported: 11/30/06 at 11:28 AM

Group Number: 1015314

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 063321848006	Sample number(s): 4922619-4922641							
Lead	N.D.	0.0069	mg/l	103		90-113		
Batch number: Y063291AA	Sample number(s): 4922619-4922639,4922641							
Benzene	N.D.	0.5	ug/l	103		85-117		
Toluene	N.D.	0.7	ug/l	100		85-115		
Chlorobenzene	N.D.	0.8	ug/l	98		85-115		
Ethylbenzene	N.D.	0.8	ug/l	98		82-119		
m+p-Xylene	N.D.	0.8	ug/l	98		83-113		
o-Xylene	N.D.	0.8	ug/l	98		83-113		
Xylene (Total)	N.D.	0.8	ug/l	98		83-113		
1,3-Dichlorobenzene	N.D.	1.	ug/l	95		81-114		
1,4-Dichlorobenzene	N.D.	1.	ug/l	96		84-116		
1,2-Dichlorobenzene	N.D.	1.	ug/l	98		81-112		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 063321848006	Sample number(s): 4922619-4922641 UNSPK: 4922637 BKG: 4922637								
Lead	104	104	75-125	0	20	N.D.	N.D.	0 (1)	20
Batch number: Y063291AA	Sample number(s): 4922619-4922639,4922641 UNSPK: 4922637								
Benzene	108	101	83-128	6	30				
Toluene	105	101	83-127	5	30				
Chlorobenzene	100	95	83-120	4	30				
Ethylbenzene	105	101	82-129	4	30				
m+p-Xylene	105	100	82-130	4	30				
o-Xylene	100	97	82-130	4	30				
Xylene (Total)	103	99	82-130	4	30				
1,3-Dichlorobenzene	97	92	79-123	6	30				
1,4-Dichlorobenzene	99	94	81-122	5	30				
1,2-Dichlorobenzene	99	94	82-117	6	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ChevronTexaco
Reported: 11/30/06 at 11:28 AM

Group Number: 1015314

Surrogate Quality Control

Analysis Name: PPL + Xylene (total) by 8260
Batch number: Y063291AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4922619	92	89	93	93
4922620	93	91	92	89
4922621	93	95	91	86
4922622	90	91	93	89
4922623	92	90	92	86
4922624	93	93	92	87
4922625	94	95	90	87
4922626	90	90	93	86
4922627	94	95	89	87
4922628	95	92	90	86
4922629	93	94	92	88
4922630	94	96	91	86
4922631	94	93	92	91
4922632	93	94	91	87
4922633	91	90	92	91
4922634	91	90	94	97
4922635	91	91	92	89
4922636	93	92	91	86
4922637	91	91	92	86
4922638	91	93	92	91
4922639	91	93	93	92
4922641	91	90	91	88
Blank	93	91	91	86
LCS	91	94	92	91
MS	91	93	92	91
MSD	91	93	93	92
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Chevron Generic Analysis Request/Chain of Custody



10F2

006864

Acct. #: 11494 For Lancaster Laboratories use only Sample #: 4922619-41 SCR#:

Group# 1015314

Facility #: ZND 2006 SA 1M GROUND WATER EVENT

Site Address: 5000 ST RTE 128, CLEVELAND, OH 43002

Chevron PM: RANDY JEWETT Lead Consultant: TRIHYDRO

Consultant/Office: _____

Consultant Prj. Mgr.: CHRIS ANEIRO

Consultant Phone #: (513) 353-1323 Fax #: 513 941 9000

Sampler: NEHA KASHANI

Service Order #: NWRCN17000ME0 Non SAR:

Analyses Requested

Preservation Codes	
<input type="checkbox"/> BTEX + MTBE 8021 <input type="checkbox"/> Naphth	<input type="checkbox"/> Lead Total <input type="checkbox"/> Diss. Method
<input type="checkbox"/> 8260 <input type="checkbox"/> Oxygenates	<input type="checkbox"/> TPH G
<input type="checkbox"/> 8260 see Attached Vol 11/15	<input type="checkbox"/> TPH D <input type="checkbox"/> Extended Rng.
	<input type="checkbox"/> Silica Gel Cleanup
	<input type="checkbox"/> VPH/EPH
	<input type="checkbox"/> NWT/PH H CID <input type="checkbox"/> quantification

Preservative Codes

H = HCl T = Thiosulfate
N = HNO₃ B = NaOH
S = H₂SO₄ O = Other

J value reporting needed

Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation

Confirm MTBE + Naphthalene
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy's on highest hit
 Run ___ oxy's on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix			Total Number of Containers	Analyses Requested																	
					Soil	Water	Oil <input type="checkbox"/> Air <input type="checkbox"/>		BTEX + MTBE 8021	8260	Naphth	Oxygenates	TPH G	TPH D	Extended Rng.	Silica Gel Cleanup	Lead Total	Diss. Method	VPH/EPH	NWT/PH H CID	quantification					
MW-815	11/18/06	0916	X			X		4	X																	
MW-81D	11/18/06	1110	X			X		4	X																	
MW-120	11/18/06	1310	X			X		4	X																	
MW-23	11/17/06	1490	X			X		4	X																	
MW-33	11/17/06	1314	X			X		4	X																	
BD-02			X			X		4	X																	
L-4R	11/17/06	1150	X			X		4	X																	
MW-104S	11/16/06	11600	X			X		4	X																	
BD-01			X			X		4	X																	
MW-27	11/15/06	1525	X			X		4	X																	
MW-26R	11/15/06	1350	X			X		4	X																	
EB111900	11/19/06	0900	X			X		4	X																	
MW-85 S	11/14/06	1245	X			X		4	X																	

Comments / Remarks

Filter in lab

Extra volume for BD-02.

2 coolers.

Single + B in with the VOCs.

<p>Turnaround Time Requested (TAT) (please circle)</p> <p>STD. TAT 72 hour 48 hour 24 hour 4 day 5 day</p>	Relinquished by:	Date: 11/21	Time: 1700	Received by: _____	Date: _____	Time: _____
	Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
<p>Data Package Options (please circle if required)</p> <p>QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk Other. _____</p>	Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
	Relinquished by: _____	Date: _____	Time: _____	Received by: <u>Kathy Binkley</u>	Date: 11-22-06	Time: 1005
Temperature Upon Receipt: 3° + 5.0° C		Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

Chevron Generic Analysis Request/Chain of Custody



20F2

Acct. #: 11494

For Lancaster Laboratories use only
Sample #: 4922619-41

006862

SCR#: _____
Group# 1015314

Facility #: <u>ZND 2006 SA 1M GROUNDWATER EVENT</u> Site Address: <u>5000 ST RTE 128, CLEVELAND, OH 45002</u> Chevron PM: <u>RANDY SEWETT</u> Lead Consultant: <u>TRINIDAD</u> Consultant/Office: _____ Consultant Prj. Mgr.: <u>CHRIS ANEIRO</u> Consultant Phone #: <u>(513) 353-1323</u> Fax #: <u>(513) 941-9000</u> Sampler: <u>NELLA KASHANI</u> Service Order #: <u>NWRCN17000 M20</u> <input type="checkbox"/> Non SAR:				Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Air		Analyses Requested Preservation Codes Total Number of Containers BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> see attached Oxygenates _____ TPH G _____ TPH D _____ Extended Rng. <input type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> Lead Total <input checked="" type="checkbox"/> Method <input checked="" type="checkbox"/> VP/IEPH _____ NWT/PH H/ClD <input type="checkbox"/> quantification _____										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input checked="" type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits										
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE	8021	8260	Naphth	Oxygenates	TPH G	TPH D	Extended Rng.	Silica Gel Cleanup	Lead Total	VP/IEPH	NWT/PH H/ClD	quantification	Preservative Codes	Comments / Remarks Dissolved lead Filter in lab 2 coolers. Single trip blank in with the VOCs	
MW-85D		11/14/06	1055	X		X	X			4	X															
MW-7		11/14/06	1550	X		X	X			4	X															
MW-48S		11/16/06	1325	X		X	X			4	X															
MW-101S		11/18/06	1440	X		X	X			4	X															
FBI 11806		11/18/06	1440	X		X	X			4	X															
MW-48D		11/16/06	1125	X		X	X			4	X															
MW-48D MS/MSD		11/14/06	1125	X		X	X			4	X															
MW-94S		11/21/06	1205	X		X	X			4	X															
MW-128		11/20/06	1335	X		X	X			4	X															
MW-99		11/20/06	1435	X		X	X			4	X															
MW-95S		11/20/06	1515	X		X	X			4	X															
Turnaround Time Requested (TAT) (please circle) <input checked="" type="checkbox"/> STD TAT 72 hour 48 hour 24 hour 4 day 5 day						Relinquished by: _____ Date: 11/21 Time: 1700						Received by: _____ Date: _____ Time: _____														
Data Package Options (please circle if required) <input checked="" type="checkbox"/> QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk _____ Other.						Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____														
Relinquished by: _____ Date: _____ Time: _____						Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: 11-22-05 Time: 1005														
Relinquished by: _____ Date: _____ Time: _____						Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____														
Temperature Upon Receipt: <u>3 + 5.0 °C</u>						Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																				

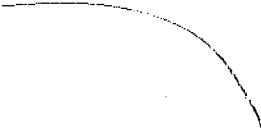
Constituents of Concern, Chevron Cincinnati Facility, Interim Measures (IM) Groundwater Monitoring

Volatile Organic Constituents

- Benzene ✓
- Chlorobenzene ✓
- 1,2-Dichlorobenzene ✓
- 1,3-Dichlorobenzene ✓
- 1,4-Dichlorobenzene ✓
- Ethylbenzene ✓
- Toluene ✓
- Xylenes ✓
- Xylene -m ✓
- Xylene -o ✓
- Xylene -p ✓

Metals

Dissolved Lead



Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
PO Box 96
North Bend OH 42052

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425**SAMPLE GROUP**

The sample group for this submittal is 1015315. Samples arrived at the laboratory on Wednesday, November 22, 2006. The PO# for this group is 0015007286 and the release number is 50008931.

Client DescriptionMW-128 Grab Water Sample
MW-99 Grab Water Sample
MW-95S Grab Water Sample
Trip Blank Water Sample**Lancaster Labs Number**4922642
4922643
4922644
4922645**METHODOLOGY**

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Trihydro Corporation
ELECTRONIC Trihydro Corporation
COPY TO
1 COPY TO Data Package GroupAttn: Chris Aneiros
Attn: Trihydro Database

Questions? Contact your Client Services Representative
Wendy A Kozma at (717) 656-2300

Respectfully Submitted,



Max E. Snavelly
Senior Specialist

Lancaster Laboratories Sample No. WW 4922642
MW-128 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/20/2006 13:35 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 12/05/2006 at 13:03

PO Box 96

Discard: 02/04/2007

North Bend OH 42052

IM128 SDG#: HVO43-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	10.		0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	15.		0.5	ug/l	1
05407	Toluene	108-88-3	2. J		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	11.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	11.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 11:56	Joanne M Gates	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/27/2006 09:09	Holly Berry	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/27/2006 09:09	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/27/2006 09:09	Holly Berry	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 18:10	James L Mertz	1

Lancaster Laboratories Sample No. WW 4922643
MW-99 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/20/2006 16:35 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 12/05/2006 at 13:03

PO Box 96

Discard: 02/04/2007

North Bend OH 42052

IM-99 SDG#: HVO43-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	300.		0.8	ug/l	1
05417	o-Xylene	95-47-6	18.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	52.		0.5	ug/l	1
05407	Toluene	108-88-3	46.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	130.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	320.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 12:22	Joanne M Gates	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	11/27/2006 09:31	Holly Berry	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	11/27/2006 09:31	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/27/2006 09:31	Holly Berry	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 18:10	James L Mertz	1

US EPA ARCHIVE DOCUMENT

Lancaster Laboratories Sample No. WW 4922644
MW-95S Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/20/2006 15:15 by NK

Account Number: 11494

Submitted: 11/22/2006 10:05

ChevronTexaco

Reported: 12/05/2006 at 13:03

PO Box 96

Discard: 02/04/2007

North Bend OH 42052

IM95S SDG#: HVO43-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
07055	Lead	7439-92-1	N.D.	0.0069	mg/l	1
06371	8260 Special Cmpds for Waters					
05416	m+p-Xylene	n.a.	N.D.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
07582	PPL + Xylene (total) by 8260					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	11/29/2006 12:33	Joanne M Gates	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	12/04/2006 13:14	Anita M Dale	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	12/04/2006 13:14	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/04/2006 13:14	Anita M Dale	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/28/2006 18:10	James L Mertz	1

Lancaster Laboratories Sample No. WW 4922645
Trip Blank Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: n.a.

Account Number: 11494

 Submitted: 11/22/2006 10:05
 Reported: 12/05/2006 at 13:03
 Discard: 02/04/2007

 ChevronTexaco
 PO Box 96
 North Bend OH 42052

IM-TB SDG#: HVO43-04TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	N.D.	0.8		ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8		ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.	1.		ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.	1.		ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.	1.		ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.7		ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8		ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	12/04/2006	13:37	Anita M Dale	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	12/04/2006	13:37	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/04/2006	13:37	Anita M Dale	1

US EPA ARCHIVE DOCUMENT

Quality Control Summary

 Client Name: ChevronTexaco
 Reported: 12/05/06 at 01:03 PM

Group Number: 1015315

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 063321848007	Sample number(s): 4922642-4922644							
Lead	N.D.	0.0069	mg/l	103		90-113		
Batch number: W063381AA	Sample number(s): 4922644-4922645							
Benzene	N.D.	0.5	ug/l	91	88	85-117	4	30
Toluene	N.D.	0.7	ug/l	92	88	85-115	5	30
Chlorobenzene	N.D.	0.8	ug/l	90	87	85-115	4	30
Ethylbenzene	N.D.	0.8	ug/l	91	88	82-119	4	30
m+p-Xylene	N.D.	0.8	ug/l	92	88	83-113	4	30
o-Xylene	N.D.	0.8	ug/l	92	88	83-113	4	30
Xylene (Total)	N.D.	0.8	ug/l	92	88	83-113	4	30
1,3-Dichlorobenzene	N.D.	1.	ug/l	91	89	81-114	1	30
1,4-Dichlorobenzene	N.D.	1.	ug/l	89	88	84-116	1	30
1,2-Dichlorobenzene	N.D.	1.	ug/l	90	89	81-112	1	30
Batch number: Y063311AA	Sample number(s): 4922642-4922643							
Benzene	N.D.	0.5	ug/l	101		85-117		
Toluene	N.D.	0.7	ug/l	98		85-115		
Chlorobenzene	N.D.	0.8	ug/l	94		85-115		
Ethylbenzene	N.D.	0.8	ug/l	95		82-119		
m+p-Xylene	N.D.	0.8	ug/l	96		83-113		
o-Xylene	N.D.	0.8	ug/l	93		83-113		
Xylene (Total)	N.D.	0.8	ug/l	95		83-113		
1,3-Dichlorobenzene	N.D.	1.	ug/l	93		81-114		
1,4-Dichlorobenzene	N.D.	1.	ug/l	92		84-116		
1,2-Dichlorobenzene	N.D.	1.	ug/l	93		81-112		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 063321848007	Sample number(s): 4922642-4922644 UNSPK: 4922642 BKG: 4922642								
Lead	103	103	75-125	0	20	N.D.	N.D.	36* (1)	20
Batch number: W063381AA	Sample number(s): 4922644-4922645 UNSPK: P924599								
Benzene	93		83-128						
Toluene	91		83-127						
Chlorobenzene	88		83-120						
Ethylbenzene	92		82-129						
m+p-Xylene	91		82-130						
o-Xylene	90		82-130						
Xylene (Total)	90		82-130						

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

 Client Name: ChevronTexaco
 Reported: 12/05/06 at 01:03 PM

Group Number: 1015315

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
1,3-Dichlorobenzene	87		79-123						
1,4-Dichlorobenzene	86		81-122						
1,2-Dichlorobenzene	86		82-117						
Batch number: Y063311AA Sample number(s): 4922642-4922643 UNSPK: P922832									
Benzene	111	107	83-128	4	30				
Toluene	105	101	83-127	4	30				
Chlorobenzene	102	97	83-120	4	30				
Ethylbenzene	104	99	82-129	5	30				
m+p-Xylene	103	99	82-130	4	30				
o-Xylene	101	98	82-130	3	30				
Xylene (Total)	103	99	82-130	4	30				
1,3-Dichlorobenzene	99	95	79-123	4	30				
1,4-Dichlorobenzene	98	98	81-122	0	30				
1,2-Dichlorobenzene	99	97	82-117	2	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

 Analysis Name: 8260 Special Cmpds for Waters
 Batch number: W063381AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4922644	89	90	94	89
4922645	89	91	95	90
Blank	89	90	95	91
LCS	92	94	95	94
LCSD	91	94	95	93
MS	92	91	95	98
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: 8260 Special Cmpds for Waters
 Batch number: Y063311AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4922642	91	93	93	96
4922643	92	92	93	94
Blank	93	93	88	86
LCS	92	92	91	90
MS	91	97	91	90
MSD	92	94	91	90
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Chevron Generic Analysis Request/Chain of Custody



20F2

006862

Acct. #: 11494 For Lancaster Laboratories use only Sample #: 4922642-45 SCR#: _____

Group# 1015315

Facility #: <u>ZND 2006 SA 1M GROUNDWATER EVENT</u> Site Address: <u>5000 ST RTE 128, CLEVELAND, OH 45002</u> Chevron PM: <u>RANDY SEWETT</u> Lead Consultant: <u>TR44020</u> Consultant/Office: _____ Consultant Prj. Mgr.: <u>CHRIS ANEROS</u> Consultant Phone #: <u>(513) 353-1323</u> Fax #: <u>(513) 941-9000</u> Sampler: <u>NELLA KASHANI</u> Service Order #: <u>NWRCN17000 M29</u> <input type="checkbox"/> Non SAR:				Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Air		Analyses Requested Preservation Codes BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Napth <input type="checkbox"/> 8260 <input type="checkbox"/> <u>see attached list</u> Oxygenates _____ TPH G _____ TPH D _____ Extended Rng. <input type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> Lead Total Diss. <input checked="" type="checkbox"/> Method VP/IEPH _____ NMTPH H CID <input type="checkbox"/> quantification										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input checked="" type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits						
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	8260	Napth	Oxygenates	TPH G	TPH D	Extended Rng.	Silica Gel Cleanup	Lead Total Diss.	VP/IEPH	NMTPH H CID	quantification	Comments / Remarks
MW-85D	11/14/06	1055	X			X			4	X								X				Dissolved lead Filter in lab 2 coolers Single trip blank in with the VOCs
MW-7	11/14/06	1550	X			X			4	X								X				
MW-48S	11/16/06	1325	X			X			4	X								X				
MW-101S	11/18/06	1440	X			X			4	X								X				
FB111806	11/18/06	1440	X			X			4	X								X				
MW-48D	11/16/06	1125	X			X			4	X								X				
MW-48D MS/MSD	11/14/06	1125	X			X			8	X								X				
MW-94S	11/21/06	1205	X			X			4	X								X				
MW-128	11/20/06	1335	X			X			4	X								X				
MW-99	11/20/06	1435	X			X			4	X								X				
MW-95S	11/20/06	1515	X			X			4	X								X				
Turnaround Time Requested (TAT) (please circle) <u>STD TAT</u> 72 hour 48 hour 24 hour 4 day 5 day				Relinquished by: _____ Date: <u>11/21</u> Time: <u>1700</u>				Received by: _____ Date: _____ Time: _____														
Data Package Options (please circle if required) <u>QC Summary</u> Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk _____ Other.				Relinquished by: _____ Date: _____ Time: _____				Received by: _____ Date: _____ Time: _____														
Relinquished by: _____ Date: _____ Time: _____				Relinquished by: _____ Date: _____ Time: _____				Received by: <u>Randy Binkley</u> Date: <u>11-22-06</u> Time: <u>1005</u>														
Relinquished by: _____ Date: _____ Time: _____				Relinquished by: _____ Date: _____ Time: _____				Received by: _____ Date: _____ Time: _____														
Temperature Upon Receipt: <u>3.45.0 C</u>				Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																		

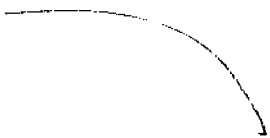
Constituents of Concern, Chevron Cincinnati Facility, Interim Measures (IM) Groundwater Monitoring

Volatile Organic Constituents

- Benzene ✓
- Chlorobenzene ✓
- 1,2-Dichlorobenzene ✓
- 1,3-Dichlorobenzene ✓
- 1,4-Dichlorobenzene ✓
- Ethylbenzene ✓
- Toluene ✓
- Xylenes ✓
- Xylene -m ✓
- Xylene -o ✓
- Xylene -p ✓

Metals

Dissolved Lead



Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
PO Box 96
North Bend OH 42052

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425SAMPLE GROUP

The sample group for this submittal is 1016556. Samples arrived at the laboratory on Tuesday, December 05, 2006. The PO# for this group is 0015007286 and the release number is 50008931.

Client DescriptionLancaster Labs Number

MW-95D Grab Water Sample	4929987
MW-37 Grab Water Sample	4929988
MW-113 Grab Water Sample	4929989
MW-114 Grab Water Sample	4929990
MW-115D Grab Water Sample	4929991
BD1112906 Grab Water Sample	4929992
MW-35 Grab Water Sample	4929993
FB1112906 Grab Water Sample	4929994
MW-115S Unspiked Grab Water Sample	4929995
MW-115SMS Matrix Spike Grab Water Sample	4929996
MW-115SSMSD Matrix Spike Dup Grab Water Sample	4929997
MW-115SDUP Duplicate Grab Water Sample	4929998
Trip_Blank Water Sample	4929999

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Trihydro Corporation
ELECTRONIC Trihydro Corporation
COPY TO

Attn: Chris Aneiros
Attn: Trihydro Database

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Wendy A Kozma at (717) 656-2300

Respectfully Submitted,



Max E. Snavelly
Senior Specialist

Lancaster Laboratories Sample No. WW 4929987
MW-95D Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 12/02/2006 11:15 by DL

Account Number: 11494

Submitted: 12/05/2006 09:45

ChevronTexaco

Reported: 12/12/2006 at 12:47

PO Box 96

Discard: 02/11/2007

North Bend OH 42052

IM95D SDG#: HVO43-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	N.D.		0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	12/12/2006 03:47	Eric L Eby	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	12/08/2006 02:09	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	12/08/2006 02:09	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/08/2006 02:09	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	12/11/2006 09:45	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4929988
MW-37 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/29/2006 11:30 by DL

Account Number: 11494

 Submitted: 12/05/2006 09:45
 Reported: 12/12/2006 at 12:47
 Discard: 02/11/2007

 ChevronTexaco
 PO Box 96
 North Bend OH 42052

IM-37 SDG#: HVO43-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	N.D.		0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	12/12/2006 03:52	Eric L Eby	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	12/08/2006 02:32	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	12/08/2006 02:32	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/08/2006 02:32	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	12/11/2006 09:45	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4929989
MW-113 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 12/01/2006 13:40 by DL

Account Number: 11494

Submitted: 12/05/2006 09:45

ChevronTexaco

Reported: 12/12/2006 at 12:47

PO Box 96

Discard: 02/11/2007

North Bend OH 42052

IM113 SDG#: HVO43-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	N.D.		0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	12/12/2006 04:06	Eric L Eby	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	12/08/2006 02:54	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	12/08/2006 02:54	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/08/2006 02:54	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	12/11/2006 09:45	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4929990
MW-114 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/29/2006 14:25 by DL

Account Number: 11494

Submitted: 12/05/2006 09:45

ChevronTexaco

Reported: 12/12/2006 at 12:47

PO Box 96

Discard: 02/11/2007

North Bend OH 42052

IM114 SDG#: HVO43-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	N.D.		0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	12/12/2006 04:11	Eric L Eby	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	12/08/2006 03:18	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	12/08/2006 03:18	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/08/2006 03:18	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	12/11/2006 09:45	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4929991
MW-115D Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 12/01/2006 10:45 by DL

Account Number: 11494

Submitted: 12/05/2006 09:45

ChevronTexaco

Reported: 12/12/2006 at 12:47

PO Box 96

Discard: 02/11/2007

North Bend OH 42052

IM115 SDG#: HVO43-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
07055	Lead	7439-92-1	N.D.	0.0069	mg/l	1
06371	8260 Special Cmpds for Waters					
05416	m+p-Xylene	n.a.	N.D.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
07582	PPL + Xylene (total) by 8260					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	12/12/2006 04:16	Eric L Eby	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	12/08/2006 03:41	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	12/08/2006 03:41	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/08/2006 03:41	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	12/11/2006 09:45	Megersa Deyessa	1

US EPA ARCHIVE DOCUMENT

Lancaster Laboratories Sample No. WW 4929992
BD1112906 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: n.a. by DL Account Number: 11494

 Submitted: 12/05/2006 09:45
 Reported: 12/12/2006 at 12:47
 Discard: 02/11/2007

 ChevronTexaco
 PO Box 96
 North Bend OH 42052

IM-FD SDG#: HVO43-10FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
07055	Lead	7439-92-1	N.D.	0.0069	mg/l	1
06371	8260 Special Cmpds for Waters					
05416	m+p-Xylene	n.a.	N.D.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
07582	PPL + Xylene (total) by 8260					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	12/12/2006 04:20	Eric L Eby	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	12/08/2006 04:05	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	12/08/2006 04:05	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/08/2006 04:05	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	12/11/2006 09:45	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4929993
MW-35 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/29/2006 16:15 by DL

Account Number: 11494

Submitted: 12/05/2006 09:45

ChevronTexaco

Reported: 12/12/2006 at 12:47

PO Box 96

Discard: 02/11/2007

North Bend OH 42052

IM-35 SDG#: HVO43-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	N.D.		0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	12/12/2006 04:25	Eric L Eby	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	12/08/2006 04:28	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	12/08/2006 04:28	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/08/2006 04:28	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	12/11/2006 09:45	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4929994
FB1112906 Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 11/29/2006 by DL

Account Number: 11494

 Submitted: 12/05/2006 09:45
 Reported: 12/12/2006 at 12:47
 Discard: 02/11/2007

 ChevronTexaco
 PO Box 96
 North Bend OH 42052

IMFB- SDG#: HVO43-12FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	N.D.		0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	12/12/2006 04:30	Eric L Eby	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	12/08/2006 04:51	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	12/08/2006 04:51	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/08/2006 04:51	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	12/11/2006 09:45	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4929995
MW-115S Unspiked Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 12/01/2006 09:20 by DL

Account Number: 11494

Submitted: 12/05/2006 09:45

ChevronTexaco

Reported: 12/12/2006 at 12:47

PO Box 96

Discard: 02/11/2007

North Bend OH 42052

I115S SDG#: HVO43-13BKG

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method		Dilution Factor
					Detection Limit	Units	
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	1.	J	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	7.		0.5	ug/l	1
05407	Toluene	108-88-3	1.	J	0.7	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	0.8	J	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	1.	J	0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	12/12/2006 03:18	Eric L Eby	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	12/08/2006 05:38	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	12/08/2006 05:38	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/08/2006 05:38	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	12/11/2006 09:45	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4929996
MW-115SMS Matrix Spike Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 12/01/2006 09:20 by DL

Account Number: 11494

Submitted: 12/05/2006 09:45

ChevronTexaco

Reported: 12/12/2006 at 12:47

PO Box 96

Discard: 02/11/2007

North Bend OH 42052

I115S SDG#: HVO43-13MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	0.121		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	45.		0.8	ug/l	1
05417	o-Xylene	95-47-6	22.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	21.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	20.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	20.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	30.		0.5	ug/l	1
05407	Toluene	108-88-3	22.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	21.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	23.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	66.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	12/12/2006 03:32	Eric L Eby	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	12/08/2006 06:01	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	12/08/2006 06:01	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/08/2006 06:01	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	12/11/2006 09:45	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4929997
MW-115SMSD Matrix Spike Dup Grab Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: 12/01/2006 09:20 by DL

Account Number: 11494

Submitted: 12/05/2006 09:45

ChevronTexaco

Reported: 12/12/2006 at 12:47

PO Box 96

Discard: 02/11/2007

North Bend OH 42052

I115S SDG#: HVO43-13MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	0.122		0.0069	mg/l	1
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	44.		0.8	ug/l	1
05417	o-Xylene	95-47-6	21.		0.8	ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	20.		1.	ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	20.		1.	ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	20.		1.	ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	29.		0.5	ug/l	1
05407	Toluene	108-88-3	22.		0.7	ug/l	1
05413	Chlorobenzene	108-90-7	21.		0.8	ug/l	1
05415	Ethylbenzene	100-41-4	22.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	65.		0.8	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	12/12/2006 03:37	Eric L Eby	1
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	12/08/2006 06:24	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	12/08/2006 06:24	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/08/2006 06:24	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	12/11/2006 09:45	Megersa Deyessa	1

Lancaster Laboratories Sample No. **WW 4929998**

MW-115SDUP Duplicate Grab Water Sample

Interim Measures (IM) Groundwater Monitoring

Collected: 12/01/2006 09:20 by DL

Account Number: 11494

Submitted: 12/05/2006 09:45

ChevronTexaco

Reported: 12/12/2006 at 12:48

PO Box 96

Discard: 02/11/2007

North Bend OH 42052

I115S SDG#: HVO43-13DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	N.D.		0.0069	mg/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	12/12/2006 03:28	Eric L Eby	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	12/11/2006 09:45	Megersa Deyessa	1

Lancaster Laboratories Sample No. WW 4929999
Trip_Blank Water Sample
Interim Measures (IM) Groundwater Monitoring

Collected: n.a.

Account Number: 11494

 Submitted: 12/05/2006 09:45
 Reported: 12/12/2006 at 12:48
 Discard: 02/11/2007

 ChevronTexaco
 PO Box 96
 North Bend OH 42052

IMTB- SDG#: HVO43-14TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
06371	8260 Special Cmpds for Waters						
05416	m+p-Xylene	n.a.	N.D.	0.8		ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8		ug/l	1
08171	1,3-Dichlorobenzene	541-73-1	N.D.	1.		ug/l	1
08172	1,4-Dichlorobenzene	106-46-7	N.D.	1.		ug/l	1
08173	1,2-Dichlorobenzene	95-50-1	N.D.	1.		ug/l	1
07582	PPL + Xylene (total) by 8260						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.7		ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8		ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
06371	8260 Special Cmpds for Waters	SW-846 8260B	1	12/08/2006	05:15	Stephanie A Selis	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	12/08/2006	05:15	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/08/2006	05:15	Stephanie A Selis	1

US EPA ARCHIVE DOCUMENT

Quality Control Summary

 Client Name: ChevronTexaco
 Reported: 12/12/06 at 12:48 PM

Group Number: 1016556

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 063421848005	Sample number(s): 4929987-4929998							
Lead	N.D.	0.0069	mg/l	102		90-113		
Batch number: N063412AA	Sample number(s): 4929987-4929997,4929999							
Benzene	N.D.	0.5	ug/l	109		85-117		
Toluene	N.D.	0.7	ug/l	102		85-115		
Chlorobenzene	N.D.	0.8	ug/l	102		85-115		
Ethylbenzene	N.D.	0.8	ug/l	103		82-119		
m+p-Xylene	N.D.	0.8	ug/l	103		83-113		
o-Xylene	N.D.	0.8	ug/l	103		83-113		
Xylene (Total)	N.D.	0.8	ug/l	103		83-113		
1,3-Dichlorobenzene	N.D.	1.	ug/l	98		81-114		
1,4-Dichlorobenzene	N.D.	1.	ug/l	98		84-116		
1,2-Dichlorobenzene	N.D.	1.	ug/l	99		81-112		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 063421848005	Sample number(s): 4929987-4929998 UNSPK: 4929995 BKG: 4929995								
Lead	101	101	75-125	0	20	N.D.	N.D.	-89 (1)	20
Batch number: N063412AA	Sample number(s): 4929987-4929997,4929999 UNSPK: 4929995								
Benzene	115	110	83-128	4	30				
Toluene	107	106	83-127	1	30				
Chlorobenzene	106	105	83-120	1	30				
Ethylbenzene	110	107	82-129	3	30				
m+p-Xylene	108	106	82-130	2	30				
o-Xylene	109	104	82-130	4	30				
Xylene (Total)	108	106	82-130	2	30				
1,3-Dichlorobenzene	103	102	79-123	1	30				
1,4-Dichlorobenzene	100	101	81-122	1	30				
1,2-Dichlorobenzene	100	100	82-117	0	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ChevronTexaco
Reported: 12/12/06 at 12:48 PM

Group Number: 1016556

Surrogate Quality Control

Analysis Name: 8260 Special Cmpds for Waters
Batch number: N063412AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4929987	100	99	90	90
4929988	102	101	89	88
4929989	102	99	90	89
4929990	105	99	89	89
4929991	102	97	90	90
4929992	102	100	89	89
4929993	103	100	89	88
4929994	104	101	90	88
4929995	99	96	93	95
4929996	100	96	94	99
4929997	99	95	92	97
4929999	103	100	89	89
Blank	100	99	91	90
LCS	98	97	94	99
MS	100	96	94	99
MSD	99	95	92	97
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Chevron Generic Analysis Request/Chain of Custody



006865
 For Lancaster Laboratories use only
 Acct. #: 11494 Sample #: 4929987-99 SCR#:

Group# 1016556

Facility #: <u>ZND 2006 SA IM GROUNDWATER EVENT</u> Site Address: <u>5000 ST RTE 128, CLEVELAND, OH 45002</u> Chevron PM: <u>RANDY JEWETT</u> Lead Consultant: <u>TRIHYDRO</u> Consultant/Office: _____ Consultant Prj. Mgr.: <u>CHRIS ANGIROS</u> Consultant Phone #: <u>(513) 353-1323</u> Fax #: <u>(513) 941-9000</u> Sampler: <u>DOUG LAM</u> Service Order #: <u>NWRCA17000M20</u> <input type="checkbox"/> Non SAR: _____				Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air Total Number of Containers		Analyses Requested Preservation Codes H <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> O BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 <input type="checkbox"/> <u>TCL VOCs</u> Oxygenates _____ TPH G _____ TPH D <input type="checkbox"/> Extended Ring <input type="checkbox"/> Silica Gel Cleanup Lead Total <input type="checkbox"/> Diss. <input checked="" type="checkbox"/> Method VPH/IEPH _____ NWTPH H CID <input type="checkbox"/> quantification										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits				
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total	BTEX + MTBE 8021	8260	Oxygenates	TPH G	TPH D	Lead Total	VPH/IEPH	NWTPH H CID	Quantification	Comments / Remarks
MW-95D		12/2/06	1115	X		X	X			4	X					X				* SEE ATTACHED VOC TCL FOR 8260 * NOTE: TRIP BLANK WITH EACH DAY'S VOC COLLECTION (3)
MW-37		11/29/06	1130	X		X	X			4	X					X				
MW-113		12/1/06	1340	X		X	X			4	X					X				
MW-114		11/29/06	1425	X		X	X			4	X					X				
MW-115D		12/1/06	1045	X		X	X			4	X					X				
BD112906				X		X	X			4	X					X				
MW-35		11/29/06	1615	X		X	X			4	X					X				
FB112906		11/29/06	-	X		X	X			4	X					X				
MW-115S		12/1/06	0920	X		X	X			4	X					X				
MW-115S MS/MSD		12/1/06	0920	X		X	X			8	X					X				

Turnaround Time Requested (TAT) (please circle) 8TD. TAT <input checked="" type="radio"/> 72 hour 48 hour 24 hour 4 day 5 day			Relinquished by: <u>[Signature]</u> Date: <u>12/4/06</u> Time: <u>2000</u>		Received by: _____ Date: _____ Time: _____	
Data Package Options (please circle if required) QC Summary <input checked="" type="radio"/> Type I - Full Type <u>VI</u> (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk _____ Other.			Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____	
Relinquished by Commercial Carrier: UPS <input checked="" type="radio"/> FedEx Other: _____ Temperature Upon Receipt: <u>2°</u> C°			Received by: <u>Kathy Binkley</u> Date: <u>12-5-06</u> Time: <u>0945</u> Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No		Received by: _____ Date: _____ Time: _____	

Constituents of Concern, Chevron Cincinnati Facility, Interim Measures (IM) Groundwater Monitoring

Volatile Organic Constituents

Benzene

Chlorobenzene

1,2-Dichlorobenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

Ethylbenzene

Toluene

Xylenes

Xylene -m

Xylene -o

Xylene -p

Metals

Dissolved Lead

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Tier 3 Data Validation Report Summary

Client: Chevron-Cincinnati	Laboratory: Lancaster Laboratories
Project Name: 2 nd Semi-annual IM Groundwater	Sample Matrix: Groundwater
Project Number: 500-017-001	Sample Start Date: 11/14/2006
Date Validated: January 10, 2007	Sample End Date: 11/20/2006
Parameters: Dissolved Lead and VOCs	
Laboratory Project ID: 1015314 and SDG: HVO-42	
Data Validator: Nella Kashani, Environmental Chemist	

DATA EVALUATION CRITERIA SUMMARY

A Tier III data validation was performed by Trihydro Corporation's Data Validation Group on the analytical data report package generated by Lancaster Laboratories evaluating samples from Interim Measures (IM) Groundwater Monitoring. Precision, accuracy, method compliance, and completeness of this data package were assessed during this data review. Precision was determined by evaluating the calculated RPD values of samples from field duplicates pairs and laboratory duplicates pairs. Laboratory accuracy was established by reviewing the demonstrated percent recovery of matrix spike (MS), matrix spike duplicates (MSD), and laboratory control samples (LCS) to verify that none of the data were biased. Additionally, field accuracy was established by collecting field, trip, and equipment blanks to monitor for possible ambient or cross contamination during sampling. Method compliance was established by reviewing holding times, detection limits, surrogate recoveries, method blanks, and laboratory control samples against method specific requirements. Completeness was evaluated by determining the overall ratio of the number of samples planned versus the number of samples with valid analyses. Determination of completeness included a review of the chain-of-custody, laboratory analytical methods, and all other necessary documents associated with this analytical data set.

SAMPLE NUMBERS TABLE

Client Sample ID	Sample Number	Laboratory Sample Code
MW-81S Grab Water Sample	4922619	IM81S
MW-81D Grab Water Sample	4922620	IM81D
MW-120 Grab Water Sample	4922621	IM120
MW-23 Grab Water Sample	4922622	IM-23
MW-33 Grab Water Sample	4922623	IM-33
BD-02 Grab Water Sample	4922624	IMB02
L-4R Grab Water Sample	4922625	IML4R
MW-104S Grab Water Sample	4922626	IM104
BD-01 Grab Water Sample	4922627	IMB01
MW-27 Grab Water Sample	4922628	IM-27
MW-26R Grab Water Sample	4922629	IM26R
EB1111906 Grab Water Sample	4922630	IM-EB
MW-85S Grab Water Sample	4922631	IM85S
MW-85D Grab Water Sample	4922632	IM85D
MW-7 Grab Water Sample	4922633	IM-M7
Mw-48S Grab Water Sample	4922634	IM48S
MW-101S Grab Water Sample	4922635	IM101
FB1111806 Grab Water Sample	4922636	IM-FB
MW-48D Unspiked Grab Water Sample	4922637	IM48D
MW-48DMS Matrix Spike Grab Water Sample	4922638	IM48D
MW-48DMSD Matrix Spike Duplicate Grab Water Sample	4922639	IM48D
MW-48DDup Duplicate Grab Water Sample	4922640	IM48D
MW-94S Grab Water Sample	4922641	IM94S

US EPA ARCHIVE DOCUMENT





Tier 3 Data Validation Report Summary

The samples were analyzed for client-specified analytes. The samples were shipped to Lancaster Laboratories under chain-of-custody documents 006864 and 006862. The laboratory data were reviewed to evaluate compliance with the required methods and the quality of the reported data. A leading check mark (✓) indicates that the referenced data were deemed acceptable. A preceding crossed circle (⊗) signifies problems with the referenced data that may have warranted attaching qualifiers to the data.

- ✓ Data Completeness
- ✓ Holding Times and Preservation
- ✓ Calibrations
- ✓ Blanks
- ✓ System Monitoring Compounds
- ✓ Laboratory Control Samples (LCS/LCSD)
- ✓ Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- ✓ Field Duplicates
- ✓ Analyte Identification and Quantitation
- ✓ Raw Data Audit

OVERALL DATA PACKAGE ASSESSMENT

Based on a data validation review, the data are acceptable as delivered. Lancaster Laboratories qualified a total of 11 data points with "J" data flags in this data set. The laboratory assigned data qualifiers were reviewed and found to be valid and correct. The purpose of validating data and assigning qualifiers is to assist in proper data interpretation. Data which are not qualified meet the site data quality objectives. If values are assigned a "J" or "UJ" qualifier, the data may be used for site evaluation, with the reasons for qualification being given consideration when interpreting sample concentrations. Data points which are assigned an "R" qualifier should not be used for any site evaluation purposes. No additional data points were qualified with "J" data flags as a result of this data validation review. All method detection limits (MDLs) were found to be acceptable and within client specified criteria. Some of the qualified data points are useful only for qualitative purposes with the professional judgment of the project manager and associated technical staff.

Data Completeness

All analyses were performed as requested on the chain-of-custody records. All samples were received by the laboratory and analyzed properly. The complete data package consisted of 198 data points, total. No data points were rejected. The data completeness measure for this data package is 100%.

Table1. General Validation Criteria Checklist	
1. Did the laboratory identify any non-conformances related to the analytical data? Comments: For sample MW-85S, the laboratory noted that reporting limits were raised due to levels of non-target compounds. The laboratory also noted for all samples that the samples were filtered at the laboratory for all dissolved metals.	Yes
2. Were sample chain-of-custody forms complete? Comments: All chain-of-custody forms were complete from the field to the laboratory.	Yes
3. Were detection limits in accordance with the QAPP, permit, or method? Comments: For sample MW-85S, the laboratory noted that reporting limits were raised due to levels of non-target compounds. No qualification is necessary since the dilutions were necessary to meet levels of non-target compounds.	Yes
4. Were the requested analytical methods in compliance with the QAPP, permit, or COC? Comments: All reported analytical methods were in compliance with those requested on the chain-of-custody and the constituent of concern list.	Yes
5. Were samples received in good condition? Comments: All samples were received in good condition at 3 and 5 degrees Celsius.	Yes
6. Were sample holding times met? Comments: All samples were analyzed within the acceptable hold times.	Yes
7. Were correct concentration units reported? Comments: All sample concentrations were reported in units of mg/L (dissolved lead) and ug/L (VOCs), which is appropriate based on the sample matrix.	Yes
8. Do the laboratory reports include all constituents requested to be reported for a specific analytical method? Comments: All reported constituents were in accordance with those requested on the constituent of concern list and the chain-of-custody.	Yes
9. Were the reporting requirements for flagged data met? Comments: All reporting requirements for flagged data were met by the laboratory. The laboratory flagged data with a "J" flag, which indicates that the data were greater than the method detection limit but less than the limit of quantitation. One duplicate RPD was qualified with a (1) indicating that the result for one or both determinations was less than five times the LOQ.	Yes
10. Were equipment blanks and field blanks collected on a 10% basis? Comments: One field and one equipment blank were collected in this sampling event.	Yes
11. Were detections found in trip blanks, equipment blanks, or field blanks? Comments: There were no detections reported in the field, trip, or equipment blanks.	No
12. Were field duplicates collected on a 10% basis? Comments: A total of two blind duplicates were collected in this sampling event. Samples BD-01 and BD-02 were collected as duplicate samples of MW-81D and MW-26R, respectively.	Yes
13. Were field duplicate RPD values less than 30%? Comments: All field duplicates and parent samples were reported as non-detect for all constituents of concern.	N/A

Table 2. Validation Criteria Checklist for VOC analyses (8260B)

1. Were the initial and continuous calibration verifications within acceptable limits?	Yes
Comments: The demonstrated initial and continuous calibration results met the method specified requirements.	
2. Was the instrument tuning results within method control limits?	Yes
Comments: The volatile organic instrument performance check results were acceptable.	
3. Were the internal standards within method control limits?	Yes
Comments: The volatile internal standard area and retention time summary results were acceptable.	
4. Were method blank samples analyzed on a 5% basis?	Yes
Comments: Method blank samples were analyzed on a 5% basis.	
5. Were method blank detections reported for this data set?	No
Comments: There were no method blank detections reported.	
6. Were laboratory control samples analyzed on a 5% basis?	Yes
Comments: Laboratory control samples were analyzed on a 5% basis.	
7. Were laboratory control recoveries within acceptable limits?	Yes
Comments: All laboratory control recoveries were acceptable.	
8. Were matrix spike samples prepared on a 5% basis?	Yes
Comments: Matrix spike samples were prepared on a 5% basis. In batch Y063291AA, the MS/MSD pair was prepared from sample MW-48D (of this data set).	
9. Were matrix spike recoveries within acceptable limits?	Yes
Comments: All matrix spike recoveries were acceptable.	
10. Were surrogate recoveries within control limits?	Yes
Comments: All surrogate recoveries were acceptable.	
11. General Comments: All data were presented in a clear and complete manner. No data were rejected; therefore, this data set is 100% complete.	

Table 5. Validation Criteria Checklist for Metal Analyses (6010B/6020/7470A/7471)	
1. Is there indication that the initial and continuous calibration standards and blanks are within acceptable limits?	Yes
Comments: The initial, continuous calibration and preparation blank results were with in the method specified limits.	
2. Were the instrument tunings within method control limits?	Yes
Comments: NA (The client did not request that the samples be analyzed by Method 6020, ICP/MS).	
3. Were the inorganic quality assurance checks within method control limits?	Yes
Comments: The low level check standard results for AA and ICP were acceptable.	
4. Were method blank samples analyzed on a 5% basis?	Yes
Comments: Method blank samples were analyzed on a 5% basis.	
5. Were method blank detections reported for this data set?	No
Comments: No method blank detections were reported.	
6. Were laboratory control samples analyzed on a 5% basis?	Yes
Comments: Laboratory control samples were analyzed on a 5% basis.	
7. Were laboratory control recoveries within acceptable limits?	Yes
Comments: All laboratory control recoveries were acceptable.	
8. Were matrix spike samples prepared on a 5% basis?	Yes
Comments: Matrix spike samples were prepared on a 5% basis. In batch 063321848006, the MS/MSD pair was prepared from sample MW-48D (of this data set).	
9. Were matrix spike recoveries within acceptable limits?	Yes
Comments: All matrix spike recoveries were reported to be within control limits.	
10. General Comments: All data were presented in a clear and complete manner. No data were rejected; therefore, this data set is 100% complete.	



Tier 3 Data Validation Report Summary

Client: Chevron-Cincinnati	Laboratory: Lancaster Laboratories
Project Name: Semi-Annual Groundwater Monitoring	Sample Matrix: Groundwater
Project Number: 500-017-010	Sample Start Date: 11/20/2006
Date Validated: 03/12/2007	Sample End Date: 12/02/2006
Parameters: Dissolved Lead by 6010B, VOCs by 8260B	
Laboratory Project ID: Lancaster SG: 1015315, and 1016556; SDG: HVO43	
Data Validator: Justin Hildenbrand	

DATA EVALUATION CRITERIA SUMMARY

A Tier III data validation was performed by Trihydro Corporation's Data Validation Group on the analytical data report package generated by Lancaster Laboratories evaluating samples from Semi-Annual Groundwater Monitoring, Cleves, Ohio. Precision, accuracy, method compliance, and completeness of this data package were assessed during this data review. Precision was determined by evaluating the calculated RPD values of samples from field duplicates pairs and laboratory duplicates pairs. Laboratory accuracy was established by reviewing the demonstrated percent recovery of matrix spike (MS), matrix spike duplicates (MSD), and laboratory control samples (LCS) to verify that none of the data were biased. Additionally, field accuracy was established by collecting field, trip, and equipment blanks to monitor for possible ambient or cross contamination during sampling. Method compliance was established by reviewing holding times, detection limits, surrogate recoveries, method blanks, and laboratory control samples against method specific requirements. Completeness was evaluated by determining the overall ratio of the number of samples planned versus the number of samples with valid analyses. Determination of completeness included a review of the chain-of-custody, laboratory analytical methods, and all other necessary documents associated with this analytical data set.

SAMPLE NUMBERS TABLE

Client Sample ID	Sample Number	Laboratory Sample Code
MW-95D Grab Water Sample	4929987	IM95D
MW-37 Grab Water Sample	4929988	IM-37
MW-113 Grab Water Sample	4929989	IM113
MW-114 Grab Water Sample	4929990	IM114
MW-115D Grab Water Sample	4929991	IM115
BD1112906 Grab Water Sample	4929992	IM-FD
MW-35 Grab Water Sample	4929993	IM-35
FB1112906 Grab Water Sample	4929994	IMFB-
MW-115S Unspiked Grab Water Sample	4929995	I115S
MW-115SMS Matrix Spike Grab Water Sample	4929996	I115S
MW-115SMSD Matrix Spike Dup Grab Water Sample	4929997	I115S
MW-115SDUP Duplicate Grab Water Sample	4929998	I115S





Tier 3 Data Validation Report Summary

Client Sample ID	Sample Number	Laboratory Sample Code
Trip_Blank Water Sample	4929999	IMTB
MW-128 Grab Water Sample	4922642	IM128
MW-99 Grab Water Sample	4922643	IM-99
MW-95S Grab Water Sample	4922644	IM95S
Trip Blank Water Sample	4922645	IM-TB

The samples were analyzed for client-specified analytes. The samples were shipped to Lancaster Laboratories, Lancaster, PA under chain-of-custody documents 006865 (dataset 1016556) and 006862 (dataset 1015315). The laboratory data were reviewed to evaluate compliance with the required methods and the quality of the reported data. A leading check mark (✓) indicates that the referenced data were deemed acceptable. A preceding crossed circle (⊗) signifies problems with the referenced data that may have warranted attaching qualifiers to the data.

- ✓ Data Completeness
- ✓ Holding Times and Preservation
- ✓ Calibrations
- ✓ Blanks
- ✓ System Monitoring Compounds
- ✓ Laboratory Control Samples (LCS/LCSD)
- ✓ Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- ✓ Field Duplicates
- ✓ Analyte Identification and Quantitation
- ✓ Raw Data Audit

OVERALL DATA PACKAGE ASSESSMENT

Based on a data validation review, the data are acceptable as delivered. Lancaster Laboratories qualified a total of five data points with "J" data flags in this data set. The laboratory assigned data qualifiers were reviewed and found to be valid and correct. The purpose of validating data and assigning qualifiers is to assist in proper data interpretation. Data which are not qualified meet the site data quality objectives. If values are assigned a "J" or "UJ" qualifier, the data may be used for site evaluation, with the reasons for qualification being given consideration when interpreting sample concentrations. Data points which are assigned an "R" qualifier should not be used for any site evaluation purposes. No additional data points were qualified with "J" data flags as a result of this data validation review. All method detection limits (MDLs) were found to be acceptable and within client specified criteria. Some of the qualified data points are useful only for qualitative purposes with the professional judgment of the project manager and associated technical staff.

Data Completeness

All analyses were performed as requested on the chain-of-custody records. All samples were received by the laboratory and analyzed properly. The complete data package consisted of 121 data points, total. No data points were rejected. The data completeness measure for this data package is 100%.

Table 1. General Validation Criteria Checklist

1. Did the laboratory identify any non-conformances related to the analytical data? Comments: This sample delivery group report covers two sample group reports; 1015315 and 1016556. The laboratory noted that the environmental samples were filtered in the lab for dissolved metals. No non-conformances were noted. The laboratory was requested by the client to report results above the method detection limit, but below the reporting limit. Those data points were assigned "J" data flags by the laboratory.	Yes
2. Were sample chain-of-custody forms complete? Comments: The chain-of-custody form was complete from the field to the laboratory, with a few exceptions. Time of collection was not noted on the chain-of-custody form for samples FB1112906 in dataset 1016556. In addition, the trip blanks were not noted on the chain-of-custody form. No qualification is necessary since all other samples were noted correctly and since all samples were properly analyzed.	No
3. Were detection limits in accordance with the QAPP, permit, or method? Comments: Detection limits appeared to be acceptable; however, no list of acceptable reporting limits was submitted with this report.	Yes
4. Were the requested analytical methods in compliance with the QAPP, permit, or COC? Comments: All analytical methods requested on the chain-of-custody forms were performed by the laboratory.	Yes
5. Were samples received in good condition? Comments: The samples were received in good condition by the laboratory at temperatures of 2.0, 3.0, and 5.0 degrees Celsius. One vial for sample MW-37 was missing an ID label. No action was necessary since no other non-conformances were noted for sample condition.	Yes
6. Were sample holding times met? Comments: Analysis for VOCs was performed within 14 days of collection, and the metals analysis within 13 days. All samples were analyzed within acceptable holding times.	Yes
7. Were correct concentration units reported? Comments: Dissolved lead was reported in units of mg/L and VOCs were reported in units of ug/L. These units are correct for samples with aqueous matrixes.	Yes
8. Do the laboratory reports include all constituents requested to be reported for a specific analytical method? Comments: All constituents were reported that were requested in the list of constituents of concern (Constituents of Concern, Chevron Cincinnati Facility, Interim Measures (IM) Groundwater Monitoring) included with this laboratory report.	Yes
9. Were the reporting requirements for flagged data met? Comments: All reporting limits for flagged data were met by the laboratory.	Yes
10. Were field duplicates collected on a 10% basis? Comments: One field duplicate was collected for this sampling event. Sample BD1112906 was collected as a duplicate of sample MW-114. Thus, field duplicates were collected on a 10% basis.	Yes
11. Were field duplicate RPD values less than 30%? Comments: There were no constituents were detected in the parent or duplicate sample.	N/A
12. Were equipment blanks and field blanks collected on a 10% basis? Comments: One field blank and one trip blank were collected for this sampling event. Thus, field blanks and trip blanks were collected on a 10% basis. No equipment blanks were collected for this sampling event.	Yes
13. Were detections found in trip blanks, equipment blanks, or field blanks? Comments: No detections were found in the trip blank or the field blank.	No

Table 2. Validation Criteria Checklist for VOC analyses (8260B)

1. Were the initial and continuous calibration verifications within acceptable limits?	Yes
Comments: All initial and continuous calibration verification results were acceptable for the chemicals of concern in this analysis.	
2. Were the instrument tunings within method control limits?	Yes
Comments: The instrument performance checks were performed using bromofluorobenzene as the target compound. All instrument tuning results were acceptable for the chemicals of concern in this analysis.	
3. Were the internal standards within method control limits?	Yes
Comments: All internal standard results were acceptable.	
4. Were method blank samples analyzed on a 5% basis?	Yes
Comments: Method blank samples were analyzed on a 5% basis for all batches.	
5. Were method blank detections reported for this data set?	No
<p>Comments: Comments: The laboratory analyzed a total of three method blanks associated with these sample delivery groups.</p> <p>For SG:1015315: Batch W063381AA all reportable VOCs were ND. Batch Y063311AA all reportable VOCs were ND.</p> <p>For SG:1016556: Batch N063412AA all reportable VOCs were ND.</p> <p>All method blank surrogate recoveries were acceptable.</p>	
6. Were laboratory control samples analyzed on a 5% basis?	Yes
Comments: The laboratory analyzed three LCSs associated with this sample set, and the constituent recoveries for the ten reportable analytes were acceptable in all cases.	
7. Were laboratory control recoveries within acceptable limits?	Yes
<p>Comments: All laboratory control sample recoveries were within acceptable limits.</p> <p>For SG:1015315: Batch Y063311AA = 92-101%R, surrogate recoveries = 90-92%R (LCS/LCSD) Batch W063381AA = 87-92%R, surrogate recoveries = 91-95%R (LCS only)</p> <p>For SG:1016556: Batch N063412AA = 98-109%R, surrogate recoveries = 94-99%R (LCS/LCSD)</p>	
8. Were matrix spike samples prepared on a 5% basis?	Yes
Comments: The laboratory prepared and analyzed a total of three matrix sample pairs with this sample set. For SG: 1016556 the parent sample was MW-115S, from this sample set. For SG: 1015315 the laboratory prepared two matrix sample pairs using samples from another client's sample set (P922832, and P924599).	

9. Were matrix spike recoveries within acceptable limits?	Yes
Comments: The demonstrated spike recoveries for the ten reportable analytes in the MS/MSD analyses were acceptable. For SG:1015315: Batch Y063311AA = 95-111%R (MS/MSD), surrogates = 90-97%R Batch W063381AA = 86-93%R (MS), surrogates = 91-98%R For SG:1016556: Batch N063412AA = 100-115%R (MS/MSD), surrogates = 92-100%R	
10. Were surrogate recoveries within control limits?	Yes
Comments: The compounds <i>dibromofluoromethane</i> , <i>1,2-dichloroethane-d4</i> , <i>toluene-d8</i> , and <i>4-bromofluorobenzene</i> were analyzed as surrogates for this sample set. Surrogate recoveries for all samples were within acceptable limits	
11. General Comments: The Method 8260B results are accepted as reported by the laboratory.	

Table 3. Validation Criteria Checklist for Metal Analyses (6010B)	
1. Is there indication that the initial and continuous calibration standards and blanks are within acceptable limits? Comments: Two initial and seven continuing calibrations were performed. Calibration results were acceptable for the constituents of concern in this data set.	Yes
2. Were the instrument tunings within method control limits? Comments: N/A (The client did not request that the samples be analyzed by Method 6020, ICP/MS).	Yes
3. Were the internal standards within method control limits? Comments: Two initial and two final low level checks were performed. Two interference checks were performed. Instrument tunings were within acceptable limits.	N/A
4. Were method blank samples analyzed on a 5% basis? Comments: Method blank samples were analyzed on a 5% basis for these datasets.	Yes
5. Were method blank detections reported for this data set? Comments: The laboratory analyzed one method blank with each sample group. SG:1015315, batch 063321848007 = ND SG:1016556, batch 063421848005 = ND	No
6. Were laboratory control samples analyzed on a 5% basis? Comments: One laboratory control sample was prepared for batch 063421848005 and one laboratory control sample was prepared for batch 063321848007.	Yes
7. Were laboratory control recoveries within acceptable limits? Comments: The laboratory analyzed two LCS samples to document precision and accuracy in this analytical group. The recoveries of lead in the LCS samples were acceptable: LCS SG:1015315, batch 063321848007 = 103%R (lead only) LCS SG:1016556, batch 063421848005 = 102%R (lead only)	Yes
8. Were matrix spike samples prepared on a 5% basis? Comments: Two MS/MSD sample pairs were analyzed by the laboratory to document precision and accuracy in this analytical group from samples MW-115S and MW-128 from these sample sets.	Yes
9. Were matrix spike recoveries within acceptable limits? Comments: The MS/MSD spike recoveries for lead were acceptable. For SG:1016556, batch 063421848005 = 101-101%R (MS/MSD) For SG:1015315, batch 063321848007 = 103-103%R (MS/MSD) All matrix spike recoveries for the matrix spike sample were within acceptable limits. A laboratory duplicate sample was analyzed for lead to determine accuracy. The relative percent difference for the determinations of the duplicate samples (SG 1016556 -89%, SG 1015315 34%; acceptable range 0-20%) were outside of the acceptable control limits. No action is necessary since the result for one or both determinations were less than five times the limit of quantitation.	Yes
10. General Comments: The lead analysis data are accepted as reported by the laboratory.	