

ANALYTICAL RESULTS

Prepared for:

Chevron
5000 State Route 128
HOOVEN OH 45033

Prepared by:

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

July 29, 2009

SAMPLE GROUP

The sample group for this submittal is 1153922. Samples arrived at the laboratory on Friday, July 17, 2009. The PO# for this group is 0015039270 and the release number is 50008931.

Client Description

MW-140_LNAPL,071009 Grab LNAPL Sample

Lancaster Labs Number

5725921

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Trihydro Corporation	Attn: Trihydro Database
ELECTRONIC COPY TO	Trihydro Corporation	Attn: Tim Gunn
ELECTRONIC COPY TO	Trihydro Corporation	Attn: Matthew Mitchell
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300

Respectfully Submitted,



Marla S. Lord
Senior Specialist

Lancaster Laboratories Sample No. G5 5725921
Group No. 1153922
**MW-140_LNAPL,071009 Grab LNAPL Sample
Monthly Southwest Quad**
OH

Collected: 07/10/2009 09:20 by JH

Account Number: 11494

Submitted: 07/17/2009 08:50

Chevron

Reported: 07/29/2009 at 15:14

5000 State Route 128

Discard: 09/28/2009

HOOVEN OH 45033

MQ140 SDG#: HVQ22-01*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846	8260B		GC/MS Volatiles	ug/kg	
03983	Acetone	67-64-1	N.D.	14,000	2000
05441	Benzene	71-43-2	33,000	1,000	2000
05441	Bromodichloromethane	75-27-4	N.D.	2,000	2000
05441	Bromoform	75-25-2	N.D.	2,000	2000
05441	Bromomethane	74-83-9	N.D.	4,000	2000
03983	2-Butanone	78-93-3	N.D.	8,000	2000
05441	n-Butylbenzene	104-51-8	1,800,000	20,000	20000
05441	sec-Butylbenzene	135-98-8	370,000	2,000	2000
03983	Carbon Disulfide	75-15-0	N.D.	2,000	2000
05441	Carbon Tetrachloride	56-23-5	N.D.	2,000	2000
05441	Chlorobenzene	108-90-7	N.D.	2,000	2000
05441	Chloroethane	75-00-3	N.D.	4,000	2000
05441	Chloroform	67-66-3	N.D.	2,000	2000
05441	Chloromethane	74-87-3	N.D.	4,000	2000
05215	Cyclohexane	110-82-7	11,000,000	50,000	50000
05441	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	4,000	2000
05441	Dibromochloromethane	124-48-1	N.D.	2,000	2000
05441	1,2-Dibromoethane	106-93-4	N.D.	2,000	2000
03983	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	20,000	2000
05441	Dichlorodifluoromethane	75-71-8	N.D.	4,000	2000
05441	1,1-Dichloroethane	75-34-3	N.D.	2,000	2000
05441	1,2-Dichloroethane	107-06-2	N.D.	2,000	2000
05441	1,1-Dichloroethene	75-35-4	N.D.	2,000	2000
05441	cis-1,2-Dichloroethene	156-59-2	N.D.	2,000	2000
05441	trans-1,2-Dichloroethene	156-60-5	N.D.	2,000	2000
03983	cis-1,3-Dichloropropene	10061-01-5	N.D.	2,000	2000
03983	trans-1,3-Dichloropropene	10061-02-6	N.D.	2,000	2000
03983	1,4-Dioxane	123-91-1	N.D.	140,000	2000
05441	Ethylbenzene	100-41-4	2,000,000	20,000	20000
03983	n-Hexane	110-54-3	4,700,000	20,000	20000
05441	Isopropylbenzene	98-82-8	860,000	20,000	20000
03983	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1,000	2000
03983	4-Methyl-2-pentanone	108-10-1	N.D.	6,000	2000
05441	Methylene Chloride	75-09-2	N.D.	4,000	2000
05441	Naphthalene	91-20-3	340,000	2,000	2000
05441	n-Propylbenzene	103-65-1	3,400,000	20,000	20000
05441	Styrene	100-42-5	N.D.	2,000	2000
05441	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	2,000	2000
05441	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	2,000	2000
05441	Tetrachloroethene	127-18-4	N.D.	2,000	2000
05441	Toluene	108-88-3	30,000	2,000	2000
05441	1,1,1-Trichloroethane	71-55-6	N.D.	2,000	2000
05441	1,1,2-Trichloroethane	79-00-5	N.D.	2,000	2000
05441	Trichloroethene	79-01-6	N.D.	2,000	2000
05441	Trichlorofluoromethane	75-69-4	N.D.	4,000	2000
05441	1,2,4-Trimethylbenzene	95-63-6	6,700,000	50,000	50000
05441	1,3,5-Trimethylbenzene	108-67-8	3,800,000	20,000	20000
05441	Vinyl Chloride	75-01-4	N.D.	2,000	2000

Lancaster Laboratories Sample No. G5 5725921
Group No. 1153922
**MW-140_LNAPL,071009 Grab LNAPL Sample
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HOOVEN OH 45033

MQ140 SDG#: HVQ22-01*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B GC/MS Volatiles					
			ug/kg	ug/kg	
05441	m+p-Xylene	n.a.	3,200,000	20,000	20000
05441	o-Xylene	95-47-6	40,000	2,000	2000
The GC/MS volatile internal standard peak areas were outside the QC limits for both the initial analysis and the re-analysis. The values reported here are from the initial analysis of the sample. The internal standard peak areas that are outside of the QC limits are listed below. (QC acceptance criteria -50% to +100%)					
Internal Standard - Initial Analysis		% Recovery			
t-butyl alcohol-d10		283			
Internal Standard - Re-analysis		% Recovery			
t-butyl alcohol-d10		356			
SW-846 8270C GC/MS Semivolatiles					
			ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	83,000	10,000	1
04688	Acenaphthylene	208-96-8	N.D.	10,000	1
04688	Anthracene	120-12-7	75,000	10,000	1
01536	Benzenethiol	108-98-5	N.D.	100,000	1
04688	Benzo(a)anthracene	56-55-3	15,000	10,000	1
04688	Benzo(a)pyrene	50-32-8	N.D.	10,000	1
04688	Benzo(b)fluoranthene	205-99-2	N.D.	10,000	1
04688	Benzo(g,h,i)perylene	191-24-2	N.D.	10,000	1
04688	Benzo(k)fluoranthene	207-08-9	N.D.	10,000	1
04688	Butylbenzylphthalate	85-68-7	N.D.	20,000	1
04688	Di-n-butylphthalate	84-74-2	N.D.	20,000	1
04688	Chrysene	218-01-9	29,000	10,000	1
01536	Dibenz(a,h)acridine	226-36-8	N.D.	10,000	1
04688	Dibenz(a,h)anthracene	53-70-3	N.D.	10,000	1
04688	Dibenzofuran	132-64-9	62,000	10,000	1
04688	1,2-Dichlorobenzene	95-50-1	N.D.	10,000	1
04688	1,3-Dichlorobenzene	541-73-1	N.D.	10,000	1
04688	1,4-Dichlorobenzene	106-46-7	N.D.	10,000	1
04688	Diethylphthalate	84-66-2	N.D.	20,000	1
01536	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.	10,000	1
04688	2,4-Dimethylphenol	105-67-9	N.D.	20,000	1
04688	Dimethylphthalate	131-11-3	N.D.	20,000	1
04688	2,4-Dinitrophenol	51-28-5	N.D.	200,000	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	20,000	1
04688	Fluoranthene	206-44-0	22,000	10,000	1
04688	Fluorene	86-73-7	160,000	10,000	1
01536	Indene	95-13-6	N.D.	10,000	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	10,000	1
01536	6-Methylchrysene	1705-85-7	N.D.	10,000	1
04688	1-Methylnaphthalene	90-12-0	3,100,000	100,000	10
04688	2-Methylnaphthalene	91-57-6	5,200,000	100,000	10
04688	2-Methylphenol	95-48-7	N.D.	20,000	1
04688	4-Methylphenol	106-44-5	N.D.	20,000	1

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MQ140 SDG#: HVQ22-01*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8270C GC/MS Semivolatiles			ug/kg	ug/kg	
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600,000	100,000	10
04688	4-Nitrophenol	100-02-7	N.D.	50,000	1
04688	Di-n-octylphthalate	117-84-0	N.D.	20,000	1
04688	Phenanthrene	85-01-8	460,000	10,000	1
04688	Phenol	108-95-2	N.D.	10,000	1
04688	Pyrene	129-00-0	100,000	10,000	1
04688	Pyridine	110-86-1	N.D.	20,000	1
01536	Quinoline	91-22-5	N.D.	10,000	1

Due to sample matrix interferences observed during the extraction, the normal reporting limits were not attained.

Due to the nature of the analysis, the recoveries of several compounds were outside of QC limits in the LCS/LCSD. No further action was taken.

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	R092041AA	07/23/2009 16:50	Nicholas R Rossi	2000
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	R092041AA	07/23/2009 17:13	Nicholas R Rossi	20000
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	R092041AA	07/23/2009 16:50	Nicholas R Rossi	2000
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	R092041AA	07/23/2009 17:13	Nicholas R Rossi	20000
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	R092041AA	07/23/2009 19:34	Nicholas R Rossi	50000
05215	Selected 8260 Soil Compounds	SW-846 8260B	1	R092041AA	07/23/2009 19:34	Nicholas R Rossi	50000
00373	DP 21 Bulk Prep of Oil Samples	SW-846 5030A	1	R092041AA	07/21/2009 04:10	Lori L Reilling	n.a.
01536	Skinner List in Soil by 8270C	SW-846 8270C	1	09201SLA026	07/22/2009 23:35	William T Parker	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	09201SLA026	07/22/2009 23:35	William T Parker	1
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	09201SLA026	07/23/2009 04:50	Brian K Graham	10
00381	BNA Soil Extraction	SW-846 3550B	1	09201SLA026	07/20/2009 17:30	Wanda F Oswald	1

Quality Control Summary

 Client Name: Chevron
 Reported: 07/29/09 at 03:14 PM

Group Number: 1153922

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: R092041AA	Sample number(s): 5725921							
Acetone	N.D.	3,500.	ug/kg	121	120	32-209	1	30
Benzene	N.D.	250.	ug/kg	97	95	83-116	2	30
Bromodichloromethane	N.D.	500.	ug/kg	97	96	77-117	1	30
Bromoform	N.D.	500.	ug/kg	93	93	68-111	1	30
Bromomethane	N.D.	1,000.	ug/kg	78	77	49-132	1	30
2-Butanone	N.D.	2,000.	ug/kg	107	106	53-160	1	30
n-Butylbenzene	N.D.	500.	ug/kg	92	92	56-118	0	30
sec-Butylbenzene	N.D.	500.	ug/kg	97	95	65-116	2	30
Carbon Disulfide	N.D.	500.	ug/kg	79	81	67-122	2	30
Carbon Tetrachloride	N.D.	500.	ug/kg	95	92	69-122	3	30
Chlorobenzene	N.D.	500.	ug/kg	99	97	82-111	2	30
Chloroethane	N.D.	1,000.	ug/kg	80	78	56-129	3	30
Chloroform	N.D.	500.	ug/kg	99	97	81-119	2	30
Chloromethane	N.D.	1,000.	ug/kg	85	86	62-140	1	30
Cyclohexane	N.D.	500.	ug/kg	92	89	62-121	3	30
1,2-Dibromo-3-chloropropane	N.D.	1,000.	ug/kg	98	97	57-131	1	30
Dibromochloromethane	N.D.	500.	ug/kg	95	95	78-109	0	30
1,2-Dibromoethane	N.D.	500.	ug/kg	100	99	80-112	1	30
trans-1,4-Dichloro-2-butene	N.D.	5,000.	ug/kg	105	103	61-126	2	30
Dichlorodifluoromethane	N.D.	1,000.	ug/kg	66	66	49-150	1	30
1,1-Dichloroethane	N.D.	500.	ug/kg	96	97	82-120	1	30
1,2-Dichloroethane	N.D.	500.	ug/kg	100	98	71-129	2	30
1,1-Dichloroethene	N.D.	500.	ug/kg	90	90	79-122	0	30
cis-1,2-Dichloroethene	N.D.	500.	ug/kg	96	94	83-115	2	30
trans-1,2-Dichloroethene	N.D.	500.	ug/kg	95	94	81-119	1	30
cis-1,3-Dichloropropene	N.D.	500.	ug/kg	98	98	80-112	0	30
trans-1,3-Dichloropropene	N.D.	500.	ug/kg	99	97	76-112	2	30
1,4-Dioxane	N.D.	35,000.	ug/kg	99	101	53-134	2	30
Ethylbenzene	N.D.	500.	ug/kg	97	96	79-110	2	30
n-Hexane	N.D.	500.	ug/kg	88	86	48-126	3	30
Isopropylbenzene	N.D.	500.	ug/kg	93	92	74-111	1	30
Methyl Tertiary Butyl Ether	N.D.	250.	ug/kg	98	98	79-114	1	30
4-Methyl-2-pentanone	N.D.	1,500.	ug/kg	103	103	56-142	0	30
Methylene Chloride	N.D.	1,000.	ug/kg	96	97	76-124	1	30
Naphthalene	N.D.	500.	ug/kg	98	98	59-123	1	30
n-Propylbenzene	N.D.	500.	ug/kg	99	97	76-114	2	30
Styrene	N.D.	500.	ug/kg	95	94	76-108	2	30
1,1,1,2-Tetrachloroethane	N.D.	500.	ug/kg	96	93	78-108	3	30
1,1,2,2-Tetrachloroethane	N.D.	500.	ug/kg	104	101	71-123	2	30
Tetrachloroethene	N.D.	500.	ug/kg	96	95	74-112	1	30
Toluene	N.D.	500.	ug/kg	98	96	81-112	2	30
1,1,1-Trichloroethane	N.D.	500.	ug/kg	97	95	80-136	3	30
1,1,2-Trichloroethane	N.D.	500.	ug/kg	100	99	82-112	1	30
Trichloroethene	N.D.	500.	ug/kg	98	95	81-115	3	30
Trichlorofluoromethane	N.D.	1,000.	ug/kg	84	81	58-133	3	30
1,2,4-Trimethylbenzene	N.D.	500.	ug/kg	98	96	76-109	2	30

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron

Group Number: 1153922

Reported: 07/29/09 at 03:14 PM

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>
1,3,5-Trimethylbenzene	N.D.	500.	ug/kg	98	96	74-109	2	30
Vinyl Chloride	N.D.	500.	ug/kg	78	77	58-132	1	30
m+p-Xylene	N.D.	500.	ug/kg	98	96	77-109	2	30
o-Xylene	N.D.	500.	ug/kg	96	95	78-109	1	30
Batch number: 09201SLA026		Sample number(s): 5725921						
Acenaphthene	N.D.	10,000.	ug/kg	114*	114*	76-111	1	30
Acenaphthylene	N.D.	10,000.	ug/kg	112	114	75-122	2	30
Anthracene	N.D.	10,000.	ug/kg	107	105	76-112	2	30
Benzenethiol	N.D.	100,000	ug/kg	130*	121*	35-83	7	30
Benzo(a)anthracene	N.D.	10,000.	ug/kg	103	101	73-112	2	30
Benzo(a)pyrene	N.D.	10,000.	ug/kg	102	105	69-122	2	30
Benzo(b)fluoranthene	N.D.	10,000.	ug/kg	94	93	61-127	0	30
Benzo(g,h,i)perylene	N.D.	10,000.	ug/kg	101	100	65-122	1	30
Benzo(k)fluoranthene	N.D.	10,000.	ug/kg	117	121	67-125	3	30
Butylbenzylphthalate	N.D.	20,000.	ug/kg	87	91	75-115	4	30
Di-n-butylphthalate	N.D.	20,000.	ug/kg	99	95	79-112	4	30
Chrysene	N.D.	10,000.	ug/kg	107	109	76-113	2	30
Dibenz(a,h)acridine	N.D.	10,000.	ug/kg	113	111	72-122	2	30
Dibenz(a,h)anthracene	N.D.	10,000.	ug/kg	98	98	70-130	0	30
Dibenzofuran	N.D.	10,000.	ug/kg	112*	108	79-108	3	30
1,2-Dichlorobenzene	N.D.	10,000.	ug/kg	107	106	62-107	0	30
1,3-Dichlorobenzene	N.D.	10,000.	ug/kg	106*	110*	70-98	4	30
1,4-Dichlorobenzene	N.D.	10,000.	ug/kg	106	106	60-112	0	30
Diethylphthalate	N.D.	20,000.	ug/kg	107	108	76-111	1	30
7,12-Dimethylbenz[a]anthracene	N.D.	10,000.	ug/kg	97	98	67-120	1	30
2,4-Dimethylphenol	N.D.	20,000.	ug/kg	104	104	72-111	1	30
Dimethylphthalate	N.D.	20,000.	ug/kg	109	107	77-109	2	30
2,4-Dinitrophenol	N.D.	200,000	ug/kg	0*	0*	44-106	0	30
bis(2-Ethylhexyl)phthalate	N.D.	20,000.	ug/kg	95	94	75-117	1	30
Fluoranthene	N.D.	10,000.	ug/kg	102	100	71-108	2	30
Fluorene	N.D.	10,000.	ug/kg	111	111	75-116	0	30
Indene	N.D.	10,000.	ug/kg	109	108	77-109	0	30
Indeno(1,2,3-cd)pyrene	N.D.	10,000.	ug/kg	94	97	64-119	3	30
6-Methylchrysene	N.D.	10,000.	ug/kg	98	102	77-110	4	30
1-Methylnaphthalene	N.D.	10,000.	ug/kg	108*	106*	74-105	2	30
2-Methylnaphthalene	N.D.	10,000.	ug/kg	109*	107*	76-105	1	30
2-Methylphenol	N.D.	20,000.	ug/kg	109	105	66-110	4	30
4-Methylphenol	N.D.	20,000.	ug/kg	98	96	66-117	2	30
Naphthalene	N.D.	10,000.	ug/kg	109*	106	73-106	3	30
4-Nitrophenol	N.D.	50,000.	ug/kg	88	88	56-118	0	30
Di-n-octylphthalate	N.D.	20,000.	ug/kg	103	104	68-130	1	30
Phenanthrene	N.D.	10,000.	ug/kg	116*	115*	77-113	1	30
Phenol	N.D.	10,000.	ug/kg	102	100	58-112	2	30
Pyrene	N.D.	10,000.	ug/kg	112	110	75-115	2	30
Pyridine	N.D.	20,000.	ug/kg	105*	95*	35-80	10	30
Quinoline	N.D.	10,000.	ug/kg	106	105	84-109	1	30

*- Outside of specification

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

Quality Control Summary

 Client Name: Chevron
 Reported: 07/29/09 at 03:14 PM

Group Number: 1153922

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: EPA SW846/8260 (soil)

Batch number: R092041AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5725921	65*	73	760*	748*
Blank	89	93	89	88
LCS	91	91	90	91
LCSD	90	92	90	91
Limits:	71-114	70-109	70-123	70-111

Analysis Name: Skinner List in Soil by 8270C

Batch number: 09201SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5
5725921	98	93	111	132*
Blank	100	102	115	102
LCS	108	108	117	108
LCSD	103	105	115	104
Limits:	54-116	47-122	43-131	49-120

	2-Fluorobiphenyl	Terphenyl-d14
5725921	106	93
Blank	106	91
LCS	116	97
LCSD	110	96
Limits:	55-117	43-131

*- Outside of specification

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

Analysis Request/ Environmental Services Chain of Custody



For Lancaster Laboratories use only
 Acct. # 11494 Group# 1153922 Sample # 5725921

COC # 211747

Please print. Instructions on reverse side correspond with circled numbers.

<p>1 Client: <u>Chevron Cincinnati Facility</u> Acct. #: <u>11494</u> Project Name/#: <u>Monthly SWQ</u> PWSID #: _____ Project Manager: <u>Doug Lam</u> P.O.#: <u>NWRCN1700UM20</u> Sampler: <u>John Hall / Dale Barrett</u> Quote #: _____ Name of state where samples were collected: <u>Ohio</u></p>				<p>4 Matrix <input type="checkbox"/> Potable <input type="checkbox"/> Check if NPDES Applicable Other: <u>LNAPL</u> Total # of Containers: _____ <u>Skinner list VOG</u> <u>Skinner list SVOCs</u></p>		<p>5 Analyses Requested Preservation Codes</p> <table border="1" style="width: 100%; height: 100px;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																																								<p>For Lab Use Only FSC: _____ SCR#: _____</p> <p>6 Preservation Codes H=HCl T=Thiosulfate N=HNO₃ B=NaOH S=H₂SO₄ O=Other</p>																																																											
<p>2 Sample Identification</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample ID</th> <th>Date Collected</th> <th>Time Collected</th> <th>Grab</th> <th>Composite</th> <th>Soil</th> <th>Water</th> <th>Other</th> <th>Total # of Containers</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td><u>MW-140 LNAPL, 071009</u></td> <td><u>7/10/09</u></td> <td><u>0920</u></td> <td><input checked="" type="checkbox"/></td> <td> </td> <td> </td> <td> </td> <td><input checked="" type="checkbox"/></td> <td> </td> <td><u>modified Skinner list of VOGs + SVOCs attached</u></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Sample ID	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers	Remarks	<u>MW-140 LNAPL, 071009</u>	<u>7/10/09</u>	<u>0920</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>modified Skinner list of VOGs + SVOCs attached</u>																																																																																	<p>3 Grab Composite</p>		<p>9 Relinquished by: _____ Date: <u>7/15/09</u> Time: <u>1200</u> Received by: _____ Date: _____ Time: _____</p> <p>Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____</p> <p>Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____</p> <p>Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____</p> <p>Relinquished by: _____ Date: _____ Time: _____ Received by: <u>Deloraha Nesli</u> Date: <u>7/12/09</u> Time: <u>0850</u></p>	
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<p>7 Turnaround Time Requested (TAT) (please circle): <u>Normal</u> Rush (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Date results are needed: _____ Rush results requested by (please circle): Phone Fax E-mail Phone #: <u>(513) 505-6297</u> Fax #: <u>(513) 353-4664</u> E-mail address: <u>m.mitchell@Trihydro.com</u></p>				<p>8 Data Package Options (please circle if required)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Type I (validation/NJ Reg)</td> <td><input checked="" type="checkbox"/></td> <td>TX TRRP-13</td> <td>SDG Complete? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Type II (Tier II)</td> <td><input type="checkbox"/></td> <td>MA MCP CT RCP</td> <td> </td> </tr> <tr> <td>Type III (Reduced NJ)</td> <td><input type="checkbox"/></td> <td>Site-specific QC (MS/MSD/Dup)?</td> <td>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> <tr> <td>Type IV (CLP SOW)</td> <td><input type="checkbox"/></td> <td>(if yes, indicate QC sample and submit triplicate volume.)</td> <td> </td> </tr> <tr> <td>Type VI (Raw Data Only)</td> <td><input type="checkbox"/></td> <td>Internal COC Required? Yes / No</td> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> </tr> </table>		Type I (validation/NJ Reg)	<input checked="" type="checkbox"/>	TX TRRP-13	SDG Complete? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Type II (Tier II)	<input type="checkbox"/>	MA MCP CT RCP		Type III (Reduced NJ)	<input type="checkbox"/>	Site-specific QC (MS/MSD/Dup)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Type IV (CLP SOW)	<input type="checkbox"/>	(if yes, indicate QC sample and submit triplicate volume.)		Type VI (Raw Data Only)	<input type="checkbox"/>	Internal COC Required? Yes / No	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																																																																																
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KAK1885, 7/20/09
 per Matt Mitchell
 Data package deleted per Tim Gunn. KAK1885, 7/20/09.

acc# 11494 Cp # 1153900
sample # 5705901

Volatile Organic Constituents of Concern, Chevron Cinchmati Facility, Modified Skinner List

1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane
1,2-Dichloroethane
1,4-Dioxane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
4-Methyl-2-Pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane (methyl bromide)
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane (methyl chloride)
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Cyclohexane
Dibromochloromethane
Dichlorodifluoromethane
Ethylbenzene
Isopropylbenzene (cumene)
Methyl ethyl ketone; MEK; 2-Butanone
Methylene chloride
MIBK
Naphthalene
n-Butylbenzene
n-Hexane
n-Propylbenzene
Styrene
sec-Butylbenzene
Tetrachloroethane
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichloroethene
Trichlorofluoromethane
Vinyl chloride
Xylene -m+p
Xylene -o

acct # 11494 cap # 1153922
sample # 5725921

Semi-volatile Organic Constituents of Concern, Chevron Cincinnati Facility, Modified Skinner List

Anthracene
Benzo(a)anthracene
Benzenethiol
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-ethylhexyl)phthalate
Butylbenzyl phthalate
Chrysene
m-Cresol
o-Cresol
p-Cresol
Dibenz(a,h)acridine
Dibenz(a,h)anthracene
Di-n-butyl phthalate
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Diethyl phthalate
7,12-Dimethylbenz(a)anthracene
2,4-Dimethylphenol
Dimethyl phthalate
2,4-Dinitrophenol
Di-n-octyl phthalate
Fluoranthene
Indene
Indeno(1,2,3-cd)pyrene
Methyl chrysene
1-Methylnaphthalene
2-Methylnaphthalene
Naphthalene
4-Nitrophenol
Phenanthrene
Phenol
Pyrene
Pyridine
Quinoline
Acenaphthalene
Acenaphthene
Fluorene
Dibenzofuran

**Environmental Sample Administration
 Receipt Documentation Log**

Client/Project: Cherwon Trihydro
 Date of Receipt: 7/17/09
 Time of Receipt: 0850
 Source Code: 50-1
 Unpacker Emp. No.: 208

Shipping Container Sealed: YES NO
 Custody Seal Present * : YES NO
 * Custody seal was intact unless otherwise noted in the discrepancy section
 Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1							
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:
Rec'd 8 vials - very odorous (NAPL)

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
<u>D. Nese</u>	<u>7/17/09</u>	<u>1430</u>	Unpacking to storage
<u>Sammy Helms</u>	<u>7/17/09</u>	<u>1444</u>	Place in Storage or <u>Entry</u>
			Entry
			Entry

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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