$5&$',6 8 6 ,QF
)ULHQGV /DQH
6XLWH
1HZWRZQ
3HQQV\OYDQLD
7HO
)D[
ZZZ DUFDGLVYRP

3HWHU 6 2XGHUNLUN 3 (
3URMHFW 0DQDJHU
1HZ <RUN 6WDWH 'HSDUWPHQW RI (QYLURQPHQWDO &RQVHUYDWLRQ
'XOOHV 6WDWH 2IILFH %XLOGLQJ
:DVKLQJWRQ 6WUHHW
:DWHUWRZQ 1<

(19,5210(17

6XEMHFW
5HSRUW &RQWLQXHG ,QYHVWLJDWLRQ $FWLYLWLHV :HVW /RW 6LWH 8WLF
6LWH 1R

'DWH
2FWREHU

'HDU 0U 2XGHUNLUN

&RQWDFW
-HIIUH\ %RQVW
3KRQH

2Q EHKDOI RI /RFNKHHG 0DUWLQ &RUSRUDWLRQ ³/RFNKHHG 0DUWLQ´ $
GHYHORSHG RXU Report Work Plan for Continued Investigation Activities ³5HSRUW´ GHVFULELQJ
ZRUN FRPSOHWHG DW WKH IRUPHU *HQHUDO (OHFWULF :HVW /RW 6LWH 1
6LWH ´ RU ³VLWH´ LQ DFFRUGDQFH ZLWK WKH 1HZ <RUN 6WDWH 'HSDUW
&RQVHUYDWLRQ ³1< 6WDWH´ RU ³'HSDUWPHQW´ Work Plan for Continued Investigation Activities
³:RUN 3ODQ´ 7KH VLWH LV SDUW RI WKH IRUPHU /RFNKHHG 0DUWLQ)UH
)UHQFK 5RDG LQ 8WLFD 1HZ <RUN ,WV ORFDWLRQ LV VKRZQ RQ)LJX
/RFDWLRQ´

7KH ZRUN SURSRVHG LQ WKH ZRUN SODQ ZDV GHYHORSHG WR PRQLWRU
YRODWLOH RUJDQLF FRPSRXQGV 92&V VSHFLILFDOO\ FKORURHWKHQH
XSSHU ZDWHU EHDULQJ XQLW DW WKH VLWH PHDVXUHG GXULQJ SUHYLR
LQYHVWLJDWLRQ DFWLYLWLHV DV ZHOO DV PRQLWRU WKH SRWHQWLDO
DVVRFLDWHG ZLWK WKH NQRZQ JURXQGZDWHU LPSDFWV 1<6'(&¶V FRPPH
Supplemental Groundwater Investigation Report $5&$',6 LQFOXGHG WKH
UHTXHVW IRU FRQWLQXHG JURXQGZDWHU PRQLWRULQJ DQG DQ HYDOXDW
RI WKH PLJUDWLRQ RI WKH SODUPH WR VRLO YDSRU PLJUDWLRQ ZDV IXUWK
PRGLILHG EDVHG RQ $5&$',6¶ 6HSWHPEHU SURSRVHG ZRUN SODQ W
DSSURYHG E\ WKH 1HZ <RUN 6WDWH 'HSDUWPHQW RI +HDOWK 1<6'2+ DQ
1<6'(&¶V 6HSWHPEHU OHWWHU 7KH ZRUN SODQ RXWOLQHG WKH S
ZKLFK ZHUH FRPSOHWHG LQ SDUW LQ WKH VSULQJ RI $Q DGGLWLRQ
PRQLWRULQJ ZDV SHUIRUPHG PRQWKV ODWHU LQ $XJXVW SHU WK

Imagine the result

7KH SURMHFW GDWD YDOLGDWRU UHYLHZHG WKH XVDELOLW\ RI WKH DQD
GHWHUPLQLQJ LI WKH GDWD ZHUH DFFXUDWH SUHFLVH UHSUHVHQWDWI
FRPSDUDEOH 9DOLG GDWD DUH GDWD IRU ZKLFK DOO TXDOLW\ DVVXUDQ
UHYLHZ FULWHULD KDYH EHHQ PHW DQG DUH DFFHSWDEOH 'DWD ZHUH R
ZKHUH 4$ 4& SDUDPHWHUV ZHUH ZLWKLQ DFFHSWDEOH OLPLWV $OO GDV
FRQVLGHUHG XVDEOH EDVHG RQ WKH YDOLGDWLRQ SURFHVV GHVFULEHG

6XPPDU\ RI 5HVXOWV

*URXQGZDWHU DQDO\WLFDO UHVXOWV IRU WKH $XJXVW VDPSOLQJ HY
$XJXVW DQG 2FWREHU VDPSOLQJ HYHQWV DUH SURYLGHG LQ
TXDOLILFDWLRQV UHVXOWLQJ IURP WKH '865 DUH LQFOXGHG DV DQQRWD
UHVXOWV LQ 7DEOH $ VXPPDU\ RI WKH GDWD JHQHUDWHG DV SDUW R
DFWLYLWLHV LV SURYLGHG EHORZ

&RQFHQWUDWLRQV RI VLWH FRQVWLWXHQWV RI FRQFHUQ 92&V ZHUH Q
1<6'(& *URXQGZDWHU 6WDQGDUGV DQG *XLGDQFH 9DOXHV 6*9V LQ HLJK
JURXQGZDWHU VDPSOHV FROOHFWHG LQ $XJXVW)RXU ZHOOV H[KLE
DERYH 6*9V RI RQH RU PRUH RI WKH VLWH FRQVWLWXHQWV RI FRQFHUQ
3&(WULFKORUURHWKHQH 7&(FLV GLFKORURHWKHQH '&(DQG YL

0RQLWRULQJ ZHOOV 0:) DQG 0: KDG 7&(FRQFHQWUDWLRQV RI XJ / I
UHVSHFWLYHO\ 0RQLWRULQJ ZHOO 0: KDG '&(GHWHFWLRQV RI
XJ / XJ / DQG XJ / UHVSHFWLYHOD\QGRQLWRULQJ ZHOO 0:
9& FRQFHQWUDWLRQV XJ / UHVSHFWLYHO\ $GGLWLRQDOO\ PRQLWRU
KDG D GHWHFWLRQ RI 3&(DW XJ / (DFK RI WKHVH FRQFHQWUDWL
UHVSHFWLYH 6*9V

$W PRQLWRULQJ ZHOO 0: 7&(FRQFHQWUDWLRQV KDYH GHFUHDVHG DV FRPSDUHG
SUHYLRXV WKUHH VDPSOLQJ HYHQWV DQG DUH EHORZ 6*9V IRU 7&(DQG
VWDEOH $W PRQLWRULQJ ZHOO 0: 3&(DQG 7&('&(DQG 9& ZHUH
GHWHFWHG IRU WKH ILUVW WLPH DQG LQ H[FHVV RI WKHLU UHVSHFWLYH
HYHQW 0RQLWRULQJ ZHOOV 0: DQG 0: DUH UHODWLYHO\ QHZ LQ
KDYH QRZ EHHQ VDPSOHG D WRWDO €FWHQ VÀ€ðð 7

*URXQGZDWHU HOHYDWLRQ PHDVXUHPHQWV DUH VXPPDUL]HG LQ 7DEOH
JURXQGZDWHU HOHYDWLRQ PHDVXUHPHQWV VKRZV WKDW JURXQGZDWHU
WRZDUG WKH VRXWK VRXWKZHVW IURP WKH IRUPHU EXUQ SLW DUHD VL
GHSLFWLRQV DQG DV VKRZQ RQ)LJXUH

&RQFOXVLRQV DQG 5HFRPPHQGDWLRQV

$V QRWHG DERYH JURXQGZDWHU GDWD FROOHFWHG GXULQJ WKH $XJXV
LQGLFDWH WKDW 92&V DUH QRW SUHVHQW DERYH 6*9V DW WKH PDMRULV
)RXU RI WKH WZHOYH ORFDWLRQV DQG 00: '27 LQGLFDWH WKH
SUHVHQFH RI FRPSRXQGV DERYH 6*9V DV VKRZQ RQ 7DEOH)RXU FRPS
7&('&(RU 9& ZHUH GHWHFWHG DERYH WKH 6*9 IURP DW OHDVW RQH RI
PRQLWRULQJ ZHOOV LQ $XJXVW)RU ZHOO 0:) DQG 0: '27 WKH $X
UHVXOWV LQ WKHVH PRVW GRZQJUDGLHQW PRQLWRULQJ ZHOOV DUH HLV
GHWHFWHG LQ WKH SUHYLRXV VDPSOLQJ HYHQW RU UHODWLYHO\ WKH V
VDPSOLQJ GDWD 7KH WUHQG IRU WKHVH WZR ZHOOV LV UHODWLYHO
SOXPH GHJUDGDWLRQ DQG PRELOLW\ ZKLFK KDV LQGLFDWHG D JHQHUD
WKH :HVW /RW 6LWH QHDU WKH IRUPHU VRXUFH EXUQ SLW DUHD DV ZH
HGJH RI WKH SOXPH DW WKH SURSHUW\ ERXQGDU\ :LWK UHJDUG WR PI
DQG 0: IRU ZKLFK PRQLWRULQJ GLG QRW LGHQWLI\ DQ\ GHWHFWLRQV
IRU &2&V WKH QHHG IRU DGGLWLRQDO PRQLWRULQJ EDVHG RQ WKH LQF
ZDUUDQWV RQ WKH HYDOXDWH WKHVH UHVXOWV ZLWK UHVSHFW WR SOXPH
WUHQGV DQG VHDVRQDO HIIHFWV

$V D UHVXOW RI WKLV VHFRQG URXQG RI JURXQGZDWHU VDPSOLQJ UHVX
SURSRVHV WR FRQGXFW DQ DGGLWLRQDO IRXU TXDUWHUV RI JURXQGZD
LQLWLDWHG LQ -DQXDU\ 7KLV PRQLWRULQJ ZLOO EH FRQGXFWHG DW
VDPSOHG LQ $XJXVW DQG E\ WKH VDPH PHWKRGV /RFNKHHG 0DUWLQ
WR 1<6'(& WKH H[DFW GDWHV RI WKLV VDPSOLQJ RQFH WKDW ZRUN LV V
UHVXOWV ZLOO DOVR EH FRPPXQLFDWHG WR 1<6'(& DQG 1<6'2+ YLD H P
EHFRPH DYDLODEOH ZLWK D VXPPDU\ UHSRUW GHYHORSHG DW WKH FRQ
VDPSOLQJ DFWLYLWLHV

5HIHUHQFHV

$5&$',6 6XSSOHPHQWDO *URXQGZDWHU ,QYHVWLJDWLRQ 5HSRUW -XQH

$5&$',6 :RUN 3ODQ IRU &RQWLQXHG ,QYHVWLJDWLRQ $FWLYLWLHV -

$5&$',6 *URXQGZDWHU 8VH 6XUYH\ $SULO

$5&$',6 5HSRUW RQ &RQWLQXHG ,QYHVWLJDWLRQ $FWLYLWLHV :HVW

1HZ <RUN 6WDWH 'HSDUWPHQW RI (QYLURQPHQWDO &RQVHUYDWLRQ 1<6
7HFKQLFDO *XLGDQFH IRU 6LWH ,QYHVWLJDWLRQ DQG 5HPHGLDWLRQ

Table 1. Volatile Organic Compounds in Groundwater Samples, West

Table 1. Volatile Organic Compounds in Groundwater Samples, West Lot Site, Former Lockheed Martin French Road Property, Utica, New York

Constituent

Table 1. Volatile Organic Compounds in Groundwater Samples, West Lot Site, Former Lockheed Martin French Road Property, Utica, New York

	NYSDEC TOGS	MW-5			MW-22	
Constituent	**1.1.1 Water**	**08/24/09**	**05/08/12**	**08/14/13**	**05/08/12**	**08/14/13**
1,1,1-TRICHLOROETHANE	5	< 0.40	< 1.0	< 0.94	< 1.0	< 0.94
1,1-DICHLOROETHANE	5	< 0.75	< 1.0	< 0.37	< 1.0	< 0.37
1,2-DICHLOROBENZENE	3	< 0.50	< 1.0	< 0.35	< 1.0	< 0.35
1,3-DICHLOROBENZENE	3	< 0.40	< 1.0	< 0.30	< 1.0	< 0.30
1,4-DICHLOROBENZENE	3	< 0.40	< 1.0	< 0.26	< 1.0	< 0.26
BENZENE	1	< 0.41	< 0.50	< 0.45	< 0.50	< 0.45
CHLOROBENZENE	5	< 0.40	< 1.0	< 0.48	< 1.0	< 0.48
CHLOROETHANE	5	< 0.40	< 2.0	< 0.84	< 2.0	< 0.84
CIS-1,2-DICHLOROETHENE	5	< 0.40	< 1.0	< 0.54	< 1.0	< 0.54
ETHYLBENZENE	5	< 0.40	< 1.0	< 0.38	< 1.0	< 0.38
M-XYLENE & P-XYLENE	5	< 1.0	< 1.0	< 0.70	< 1.0	< 0.70
METHYLENE CHLORIDE	5	NA	NA	< 0.41	NA	< 0.41
O-XYLENE	NS	< 0.40	< 1.0	< 0.41	< 1.0	< 0.41
TETRACHLOROETHENE	5	< 0.40	< 1.0	< 0.61	< 1.0	< 0.61
TOLUENE	5	< 0.60	< 1.0 J	< 0.45	< 1.0 J	< 0.45
TRANS-1,2-DICHLOROETHENE	5	< 0.42	< 1.0	< 0.54	< 1.0	< 0.54
TRICHLOROETHENE	5	< 0.46	< 1.0	< 0.45	< 1.0	< 0.45
VINYL CHLORIDE	2	< 1.0	< 1.0	< 0.61	< 1.0	< 0.61
XYLENES, TOTAL	5	< 1.0	< 1.0	< 0.41	< 1.0	< 0.41

Notes:

1) All units are ug/L.

2) Data compared to TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values.

3) NS - No Standard

4) NA - data Not Available

5) **BOLD** - Detected Compound

6) Exceedances noted as shaded.

7) J - Estimated Value

8) [ ] - Duplicate sample result.

9) < - Reporting Limit Presented when a ND result was found

10) All 2013 data has been validated and is described in Appendix B – Data Usability Summary Review (DUSR).

Table 1. Volatile Organic Compounds in Groundwater Samples, West Lot Site, Former Lockheed Martin French Road Property, Utica, New York

	NYSDEC TOGS	MW-23		MW-24		MW-B		
Constituent	**1.1.1 Water**	**05/08/12**	**08/14/13**	**05/08/12**	**08/14/13**	**08/24/09**	**05/08/12**	**08/14/13**
1,1,1-TRICHLOROETHANE	5	< 1.0	< 0.94	< 1.0	< 0.94	< 0.40	< 1.0	< 0.94
1,1-DICHLOROETHANE	5	< 1.0	< 0.37	< 1.0	< 0.37	< 0.75	< 1.0	< 0.37
1,2-DICHLOROBENZENE	3	< 1.0	< 0.35	< 1.0	< 0.35	< 0.50	< 1.0	< 0.35
1,3-DICHLOROBENZENE	3	< 1.0	< 0.30	< 1.0	< 0.30	< 0.40	< 1.0	< 0.30
1,4-DICHLOROBENZENE	3	< 1.0	< 0.26	< 1.0	< 0.26	< 0.40	< 1.0	< 0.26
BENZENE	1	< 0.50	< 0.45	< 0.50	< 0.45	< 0.41	< 0.50	< 0.45
CHLOROBENZENE	5	< 1.0	< 0.48	< 1.0	< 0.48	< 0.40	< 1.0	< 0.48
CHLOROETHANE	5	< 2.0	< 0.84	< 2.0	< 0.84	< 0.40	< 2.0	< 0.84
CIS-1,2-DICHLOROETHENE	5	< 1.0	**7.3**	< 1.0	**20.4**	< 0.40	< 1.0	< 0.54
ETHYLBENZENE	5	< 1.0	< 0.38	< 1.0	< 0.38	< 0.40	< 1.0	< 0.38
M-XYLENE & P-XYLENE	5	< 1.0	< 0.70	< 1.0	< 0.70	< 1.0	< 1.0	< 0.70
METHYLENE CHLORIDE	5	NA	< 0.41	NA	< 0.41	NA	NA	< 0.41
O-XYLENE	NS	< 1.0	< 0.41	< 1.0	< 0.41	< 0.40	< 1.0	< 0.41
TETRACHLOROETHENE	5	< 1.0	< 0.61	< 1.0	**15.7**	< 0.40	< 1.0	< 0.61
TOLUENE	5	< 1.0 J	< 0.45	< 1.0 J	< 0.45	5.0	< 1.0 J	< 0.45
TRANS-1,2-DICHLOROETHENE	5	< 1.0	< 0.54	< 1.0	< 0.54	< 0.42	< 1.0	< 0.54
TRICHLOROETHENE	5	< 1.0	< 0.45	< 1.0	**23.5**	< 0.46	< 1.0	< 0.45
VINYL CHLORIDE	2	< 1.0	**10.6**	< 1.0	**7.6**	< 1.0	< 1.0	< 0.61
XYLENES, TOTAL	5	< 1.0	< 0.41	< 1.0	< 0.41	< 1.0	< 1.0	< 0.41

Notes:

1) All units are ug/L.

2) Data compared to TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values.

3) NS - No Standard

4) NA - data Not Available

5) **BOLD** - Detected Compound

6) Exceedances noted as shaded.

7) J - Estimated Value

8) [ ] - Duplicate sample result.

9) < - Reporting Limit Presented when a ND result was found

10) All 2013 data has been validated and is described in Appendix B – Data Usability Summary Review (DUSR).

Table 1. Volatile Organic Compounds in Groundwater Samples, West Lot Site, Former Lockheed Martin French Road Property, Utica, New York

Constituent	NYSDEC TOGS 1.1.1 Water	PW-1 08/24/09	PW-1 10/26/09	PW-1 05/08/12	PW-1 08/14/13
1,1,1-TRICHLOROETHANE	5	< 0.40	< 0.40	< 1.0	< 0.94
1,1-DICHLOROETHANE	5	< 0.75	< 0.75	< 1.0	< 0.37
1,2-DICHLOROBENZENE	3	< 0.50	**0.51**	< 1.0	< 0.35
1,3-DICHLOROBENZENE	3	< 0.40	< 0.40	< 1.0	< 0.30
1,4-DICHLOROBENZENE	3	< 0.40	< 0.40	< 1.0	< 0.26
BENZENE	1	< 0.41	< 0.41	< 0.50	< 0.45
CHLOROBENZENE	5	< 0.40	< 0.40	< 1.0	< 0.48
CHLOROETHANE	5	< 0.40	< 0.40	< 2.0	< 0.84
CIS-1,2-DICHLOROETHENE	5	**2.4**	**1.5**	**0.88**	< 0.54
ETHYLBENZENE	5	< 0.40	< 0.40	< 1.0	< 0.38
M-XYLENE & P-XYLENE	5	< 1.0	< 1.0	< 1.0	< 0.70
METHYLENE CHLORIDE	5	NA	NA	NA	< 0.41
O-XYLENE	NS	< 0.40	< 0.40	< 1.0	< 0.41
TETRACHLOROETHENE	5	< 0.40	< 0.40	< 1.0	< 0.61
TOLUENE	5	< 0.60	< 0.60	**< 1.0 J**	**0.47**
TRANS-1,2-DICHLOROETHENE	5	< 0.42	< 0.42	< 1.0	< 0.54
TRICHLOROETHENE	5	**1.1**	**2.5**	< 1.0	< 0.45
VINYL CHLORIDE	2	< 1.0	< 1.0	< 1.0	< 0.61
XYLENES, TOTAL	5	< 1.0	< 1.0	< 1.0	< 0.41

Notes:

1) All units are ug/L.

2) Data compared to TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values.

3) NS - No Standard

4) NA - data Not Available

5) **BOLD** - Detected Compound

6) Exceedances noted as shaded.

7) J - Estimated Value

8) [ ] - Duplicate sample result.

9) < - Reporting Limit Presented when a ND result was found

10) All 2013 data has been validated and is described in Appendix B – Data Usability Summary Review (DUSR).

Table 1. Volatile Organic Compounds in Groundwater Samples, West Lot Site, Former Lockheed Martin French Road Property, Utica, New York

Constituent	NYSDEC TOGS 1.1.1 Water	08/24/09	05/08/12	08/14/13	08/25/09	05/08/12	08/14/13
1,1,1-TRICHLOROETHANE	5	< 0.40	< 1.0	< 0.94	< 0.40	< 1.0	< 0.94
1,1-DICHLOROETHANE	5	< 0.75	< 1.0	< 0.37	< 0.75	< 1.0	< 0.37
1,2-DICHLOROBENZENE	3	< 0.50	< 1.0	< 0.35	< 0.50	< 1.0	< 0.35
1,3-DICHLOROBENZENE	3	< 0.40	< 1.0	< 0.30	< 0.40	< 1.0	< 0.30
1,4-DICHLOROBENZENE	3	< 0.40	< 1.0	< 0.26	< 0.40	< 1.0	< 0.26
BENZENE	1	< 0.41	< 0.50	< 0.45	< 0.41	< 0.50	< 0.45
CHLOROBENZENE	5	< 0.40	< 1.0	< 0.48	< 0.40	< 1.0	< 0.48
CHLOROETHANE	5	< 0.40	< 2.0	< 0.84	< 0.40	< 2.0	< 0.84
CIS-1,2-DICHLOROETHENE	5	**1.8**	**1.2**	**1.7**	< 0.40	< 1.0	< 0.54
ETHYLBENZENE	5						
M-XYLENE & P-XYLENE	5						
METHYLENE CHLORIDE	5						
O-XYLENE	NS						
TETRACHLOROETHENE	5						
TOLUENE	5						
TRANS-1,2-DICHLOROETHENE	5						
TRICHLOROETHENE	5						
VINYL CHLORIDE	2						
XYLENES, TOTAL	5						

Notes:

1) All units are ug/L.

2) Data compared to TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values.

3) NS - No Standard

4) NA - data Not Available

5) **BOLD** - Detected Compound

6) Exceedances noted as shaded.

7) J - Estimated Value

8) [ ] - Duplicate sample result.

9) < - Reporting Limit Presented when a ND result was found

10) All 2013 data has been validated and is described in Appendix B – Data Usability Summary Review (DUSR).

Figures

Appendix A

Laboratory Analytical Data
(Groundwater)

Accutest Laboratories

Report of Analysis

Client Sample ID:	FB-2"PDB		
Lab Sample ID:	MC23546-1	Date Sampled:	08/14/13
Matrix:	AQ - Field Blank Water	Date Received:	08/15/13
Method:			

Report of Analysis

Client Sample ID:	FB-2"PDB		
Lab Sample ID:	MC23546-1	Date Sampled:	08/14/13
Matrix:	AQ - Field Blank Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:			

Report of Analysis

Client Sample ID:	FB-2"PDB		
Lab Sample ID:	MC23546-1	Date Sampled:	08/14/13
Matrix:	AQ - Field Blank Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	FB-1"PDB		
Lab Sample ID:	MC23546-2	Date Sampled:	08/14/13
Matrix:	AQ - Field Blank Water	Date Received:	08/15/13
Method:			

Report of Analysis

Client Sample ID:	FB-1"PDB		
Lab Sample ID:	MC23546-2	Date Sampled:	08/14/13
Matrix:	AQ - Field Blank Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:			

Report of Analysis

Client Sample ID:	FB-1"PDB		
Lab Sample ID:	MC23546-2	Date Sampled:	08/14/13
Matrix:	AQ - Field Blank Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-081413		
Lab Sample ID:	MC23546-3	Date Sampled:	08/14/13
Matrix:	AQ - Trip Blank Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V22203.D	1	08/22/13	AMY	n/a	n/a	MSV856
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropar	ND	5.0	1.7	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-081413		
Lab Sample ID:	MC23546-3	Date Sampled:	08/14/13
Matrix:	AQ - Trip Blank Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene					

Report of Analysis

Client Sample ID:	TB-081413		
Lab Sample ID:	MC23546-3	Date Sampled:	08/14/13
Matrix:	AQ - Trip Blank Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: DUP-081413
Lab Sample ID: MC23546-4 Date Sampled: 08/14/13
Matrix:

Report of Analysis

Client Sample ID:	DUP-081413		
Lab Sample ID:	MC23546-4	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ-1		
Lab Sample ID:	MC23546-5	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ-2		
Lab Sample ID:	MC23546-6	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
74-88-4	Iodomethane	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	

Report of Analysis

Client Sample ID:	PZ-2		
Lab Sample ID:	MC23546-6	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1(DOT)		
Lab Sample ID:	MC23546-7	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V22207.D	1	08/22/13	AMY	n/a	n/a	MSV856
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropar	ND	5.0	1.7	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	6.5	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1(DOT)		
Lab Sample ID:	MC23546-7	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexano3 g /GS0 gs 264.81 504 51.84 -12Mm4.81 5-roproId/l					

Report of Analysis

Client Sample ID:	MW-1(DOT)		
Lab Sample ID:	MC23546-7	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-F		
Lab Sample ID:	MC23546-8	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V22208.D	1	08/22/13	AMY	n/a	n/a	MSV856
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropar	ND	5.0	1.7	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.8	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-F		
Lab Sample ID:	MC23546-8	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
74-88-4	Iodomethane	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBI	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	13.0	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene		5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	

78 267.61 339 367.61 1961 ure f BT 0 g /GS1 gs /TT0 10 Tf 267019.84 -12 re f BT 0 g /GS1 gs /TT0 10 Tf 267.61 243 1

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-F		
Lab Sample ID:	MC23546-8	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8			

Accutest Laboratories

Report of Analysis

Client Sample ID:	PW-1		
Lab Sample ID:	MC23546-9	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V22209.D	1	08/22/13	AMY	n/a	n/a	MSV856
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropar	ND	5.0	1.7	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW-1		
Lab Sample ID:	MC23546-9	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
74-88-4	Iodomethane	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBI	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	0.47	1.0	0.46	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: PW-1
Lab Sample ID: MC23546-9 Date Sampled(Lab Sample ID:)oe-8 /TT0 TPc4
Matrix: AQ - Water Date Received(Lab Sample ID:)oe-8 /TT0 TPc415/13

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	MC23546-10	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V22210.D	1	08/22/13	AMY	n/a	n/a	MSV856
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropar	ND	5.0	1.7	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	MC23546-10	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene					

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	MC23546-10	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

# of Analysis

Client Sample ID:	MW-E		
Lab Sample ID:	MC23546-11	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 Frenc ca, NY		

	File ID	DF	An	y	Prep Date	Prep Batch	Analytical Batch
Run #1	L77134.D	1	0	KR	n/a	n/a	MSL3558
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	RL	MDL	Units	Q
67-64-1	Acetone	10	2.8	ug/l	
71-43-2	Benzene	0.50	0.45	ug/l	
108-86-1	Bromobenzene	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	0.50	0.45	ug/l	

108-86-1 26orometnane 5.0 Butyl/gform -12 Td [(74-97-5)-
74-97-5 Bromochloromethane Bromochloromethane)]TJ ET
108-86-1 33omobenzene
27omobenzene

Report of Analysis

Client Sample ID: MW-E
Lab Sample ID: MC23546-11 Date Sampled: 08/14/13
Matrix:

Report of Analysis

Client Sample ID:	MW-E		
Lab Sample ID:	MC23546-11	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	89%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-D		
Lab Sample ID:	MC23546-12	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L77135.D	1	08/23/13	KR	n/a	n/a	MSL3558
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropar	ND	5.0	1.7	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.3	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-D		
Lab Sample ID:	MC23546-12	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
74-88-4	Iodomethane	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBI	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-D		
Lab Sample ID:	MC23546-12	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	90%		70-130%
460-00-4	4-Bromofluorobenzene	106%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-22		
Lab Sample ID:	MC23546-13	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L77136.D	1	08/23/13	KR	n/a	n/a	MSL3558
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropar	ND	5.0	1.7	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-22		
Lab Sample ID:	MC23546-13	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
74-88-4	Iodomethane	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBI	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.51	n-Propylbenzene	

Report of Analysis

Client Sample ID:	MW-22		
Lab Sample ID:	MC23546-13	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	89%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-23		
Lab Sample ID:	MC23546-14	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L77137.D	1	08/23/13	KR	n/a	n/a	MSL3558
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropar	ND	5.0	1.7	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	7.3	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-23		
Lab Sample ID:	MC23546-14	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
74-88-4	Iodomethane	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBI	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	10.6	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-23		
Lab Sample ID:	MC23546-14	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	89%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-24		
Lab Sample ID:	MC23546-15	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L77138.D	1	08/23/13	KR	n/a	n/a	MSL3558
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropar	ND	5.0	1.7	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	20.4	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-24		
Lab Sample ID:	MC23546-15	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
74-88-4	Iodomethane	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBI	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	15.7	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	23.5	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	7.6	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range

Report of Analysis

Client Sample ID:	MW-24		
Lab Sample ID:	MC23546-15	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	89%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-B		
Lab Sample ID:	MC23546-16	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L77139.D	1	08/23/13	KR	n/a	n/a	MSL3558
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropar	ND	5.0	1.7	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-B		
Lab Sample ID:	MC23546-16	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
74-88-4	Iodomethane	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBI	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-B		
Lab Sample ID:	MC23546-16	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	89%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: MW-1

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	MC23546-17	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
74-88-4	Iodomethane					

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	MC23546-17	Date Sampled:	08/14/13
Matrix:	AQ - Water	Date Received:	08/15/13
Method:	SW846 8260B	Percent Solids:	n/a
Project:	LMC Utica, 525 French Road, Utica, NY		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	89%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Appendix B

Data Usability Summary Review

Lockheed Martin Corporation

Data Usability Summary Report

UTICA, NEW YORK

Volatiles

SDG# MC23546

Analyses Performed By:
ACCUTEST Laboratories, Inc

Report: #20200R
Review Level: Tier III
Project: NJ001037.0001.00005

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # MC23546 for samples collected in association with the Lockheed Martin West Lot Site, Utica,

ANALYTICAL DATA PACKAGE DOCUMENTATION

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Sample receipt condition		X		X	
Requested analyses and sample results		X		X	

INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 methods 8260. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999, USEPA Region II SOPs and NYSDEC ASP 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-E MW-D MW-22 MW-23 MW-24 MW-B MW-1	CCV %D	Bromomethane Acetone	30.8%

Initial/Continuing	Criteria	Sample Result	Qualification
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No [illegible] onl 15.241

Sample Locations	Compound	MS Recovery	MSD Recovery
PW-1	Bromochloromethane	>UL	>UL
	Bromomethane		
	Carbon Disulfide		
	Carbon Tetrachloride		
	Chloroethane		
	Chloromethane		
	1,1-Dichloroethane		
	1,1-Dichloroethene		
	2,2-Dichloropropane		
	1,1,1-Trichloroethane		
	Trichlorofluoromethane		

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD

Sample Locations	Compound	LCS Recovery	LCSD Recovery
DUP-081413 PZ-1 PZ-2 MW-1(DOT) MW-F PW-1 MW-5	Chloroethane	138%	NA
	Chloromethane	151%	NA
	2,2-Dichloropropane	139%	NA

MW-E
MW-D
MW-22
MW-23
MW-24
MW-B
MW-1

[redacted]

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Trip blanks		X	X		
Laboratory Control Sample (LCS)		X	X		
Laboratory Control Sample Duplicate(LCSD)		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS)		X	X		
Matrix Spike Duplicate(MSD)		X	X		
MS/MSD Precision (RPD)		X		X	
Field Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present				X	

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Relative standard deviation
%R Percent recovery
RPD Relative percent difference
%D Percent difference

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	