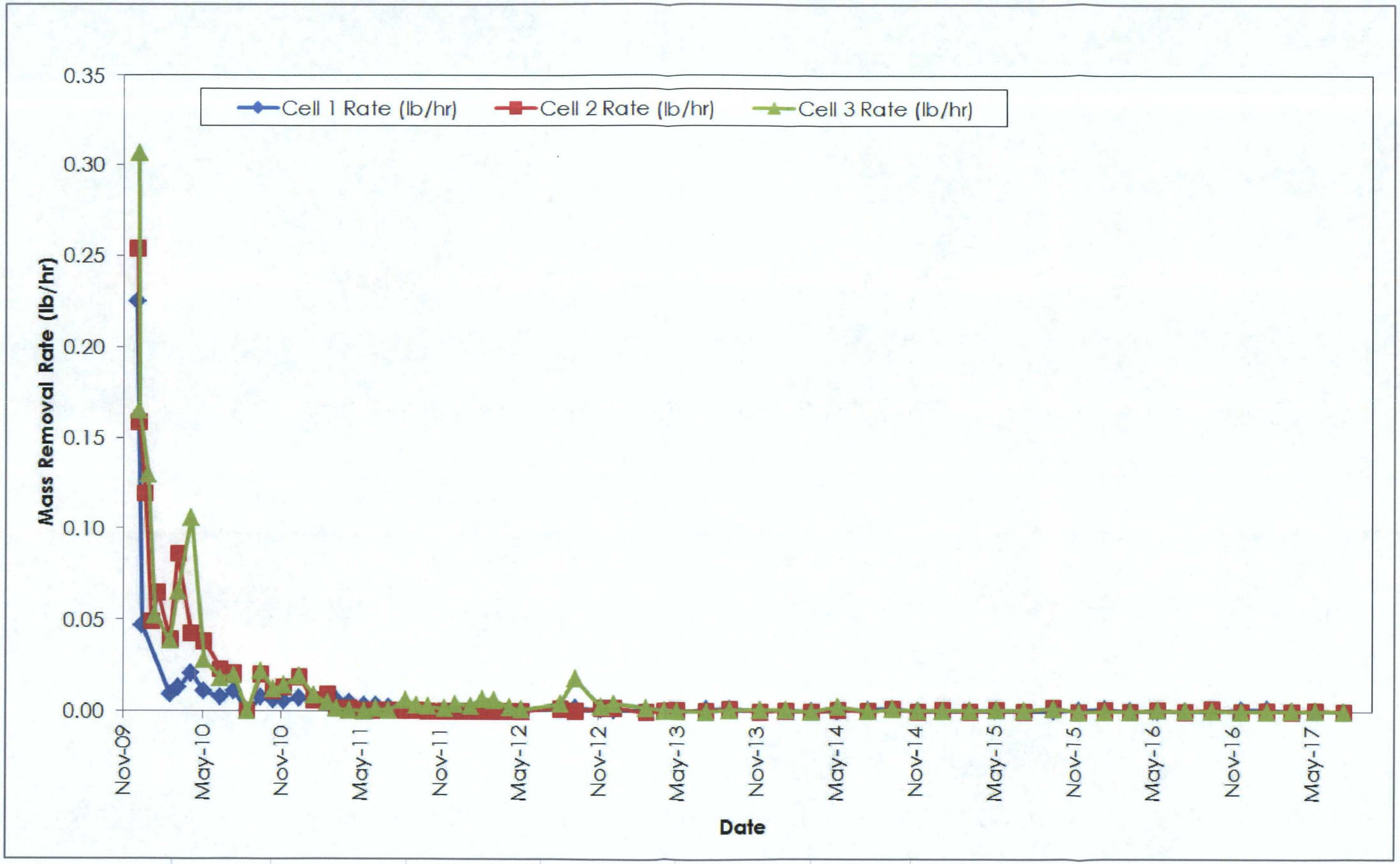
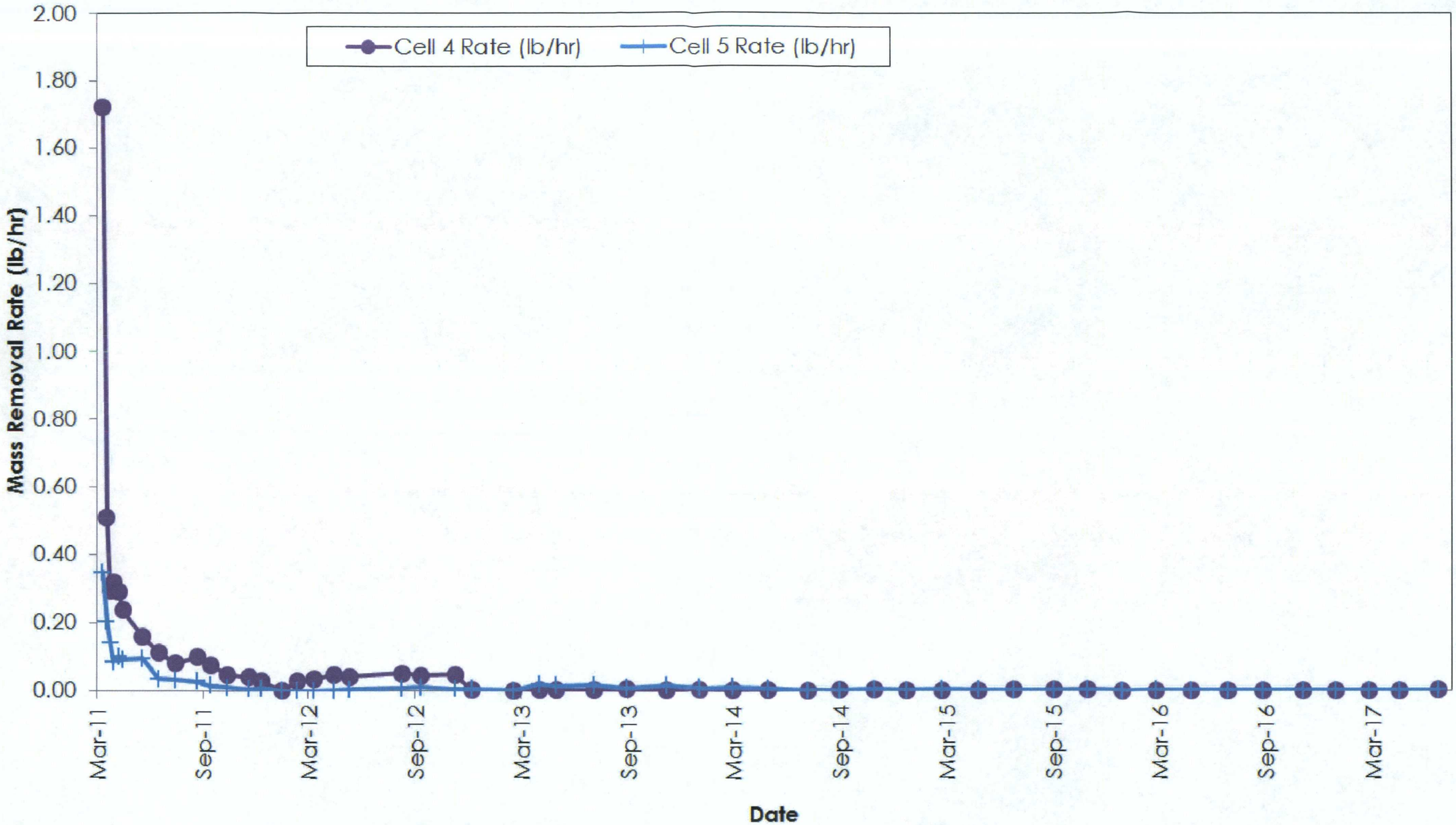


AECOM

AREA 9/10 REMEDIAL ACTION ROCKFORD, ILLINOIS PROJECT NO. 60532451.4212	AVERAGE VOC MASS REMOVAL RATE VS TIME PHASE 1 AS/SVE SYSTEM
DATE: 08/01/17 DRWN: BKR	FIGURE 7

File: U:\Cad_Drive_New\UTC\60288803 UTC Rockford SER 9-10\Q2 2017\Figure 7 - 2nd Quarter 2017 VOC vs Time.dwg Layout: ANSI_B1-LJ User: Brian.Ranstead Plotted: Aug 03, 2017 - 1:32pm



AECOM

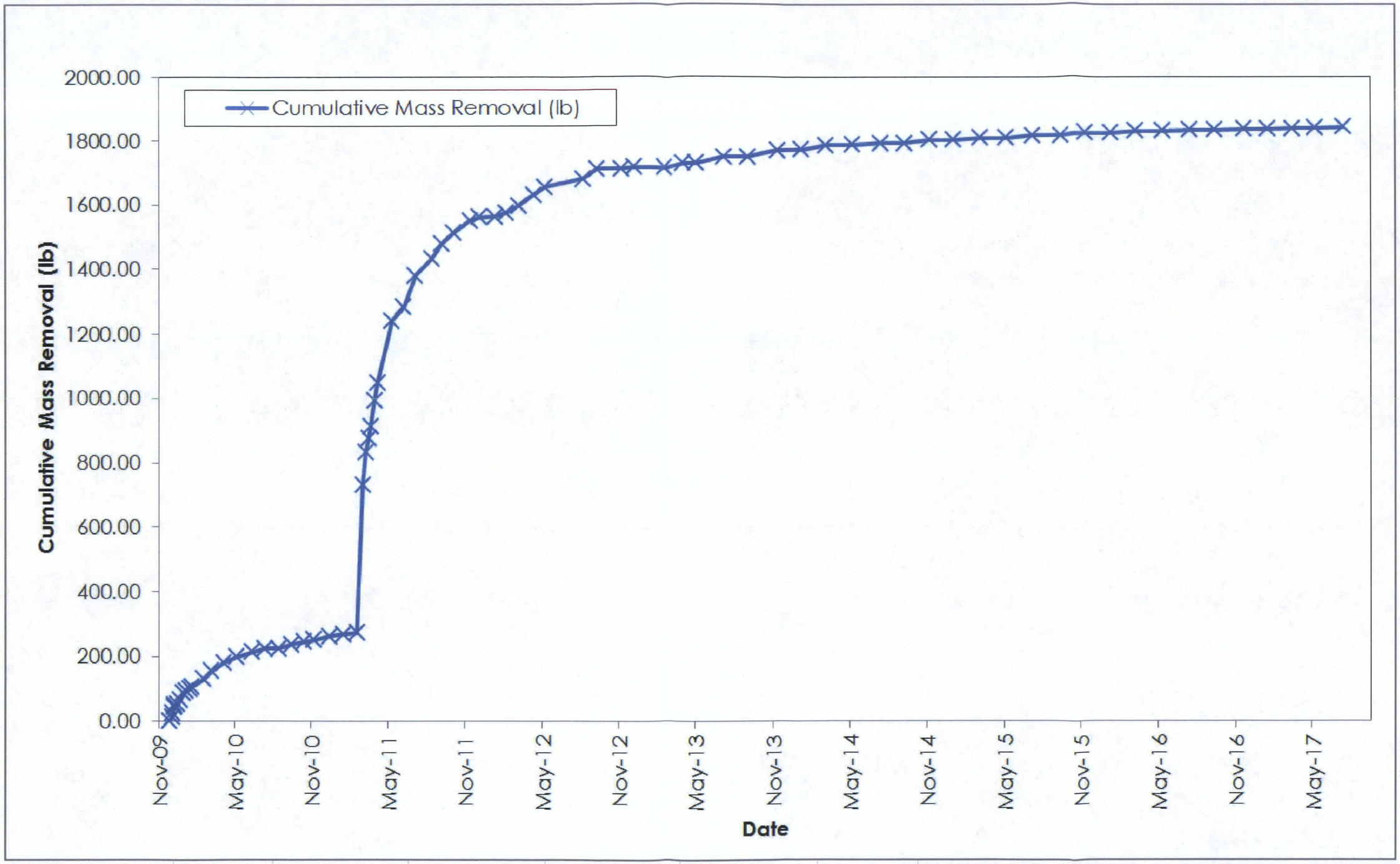
AREA 9/10 REMEDIAL ACTION
ROCKFORD, ILLINOIS
PROJECT NO. 60532451.4212

DATE: 08/01/17 | DRWN: BKR

AVERAGE VOC MASS REMOVAL RATE VS TIME PHASE 2 AS/SVE SYSTEM

FIGURE 8

File: U:\Cad_Drive_New\UTC\60288803 UTC Rockford SFR 9-10\Q2 2017\Figure 8 - 2nd Quarter 2017 VOC vs Time.dwg Layout: ANSI_B1-LJ User: Brian.Ranstead Plotted: Aug 03, 2017 - 1:21pm



AECOM

AREA 9/10 REMEDIAL ACTION ROCKFORD, ILLINOIS PROJECT NO. 60480278.4214	CUMULATIVE MASS REMOVAL PHASE 1/ PHASE 2 AS/SVE SYSTEM
DATE: 08/01/17 DRWN: BKR	FIGURE 9

File: U:\Cad_Drive_New\UTC\60288803 UTC Rockford SER 9-10\Q2 2017\Figure 9 - 2nd Quarter 2017 Cum Mass Removal.dwg Layout: ANSI_B1-LJ User: Brian.Ranstead Plotted: Aug 03, 2017 - 1:30pm

Appendix A

Second Quarter 2017 GMZ and Performance Monitoring Well Analytical Data

SGS ACCUTEST
New Jersey

05/30/17

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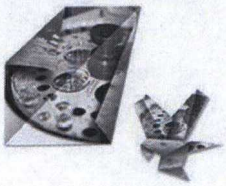

Technical Report for

United Technologies Corporation

ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

60532451

SGS Accutest Job Number: JC43354

Sampling Dates: 05/09/17 - 05/11/17

Report to:

AECOM, INC.
4320 Winfield Road
Warrenville, IL 60555
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ATTN: Peter Hollatz

Total number of pages in report: 237

NELAP ACCREDITED TNI LABORATORY

Nancy T. Cole

Nancy Cole
Laboratory Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Diane Komar 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

United Technologies Corporation

Job No: JC43354

ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL
Project No: 60532451

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC43354-1	05/09/17	09:30	NP	05/12/17	AQ	Field Blank Water	HSSER-FBKL01-050917
JC43354-2	05/09/17	10:45	NP	05/12/17	AQ	Ground Water	HSSER-SMW08-050917
JC43354-3	05/09/17	11:55	NP	05/12/17	AQ	Ground Water	HSSER-SMW01-050917
JC43354-4	05/09/17	13:45	NP	05/12/17	AQ	Ground Water	HSSER-GMZ01-050917
JC43354-5	05/10/17	10:40	NP	05/12/17	AQ	Ground Water	HSSER-SMW02-051017
JC43354-6	05/10/17	11:35	NP	05/12/17	AQ	Ground Water	HSSER-MW203-051017
JC43354-7	05/10/17	12:20	NP	05/12/17	AQ	Ground Water	HSSER-MW07FGA-051017
JC43354-8	05/10/17	14:00	NP	05/12/17	AQ	Ground Water	HSSER-SMW19-051017
JC43354-9	05/10/17	15:10	NP	05/12/17	AQ	Ground Water	HSSER-GMZ04-051017
JC43354-10	05/10/17	16:25	NP	05/12/17	AQ	Ground Water	HSSER-SMW21-051017
JC43354-11	05/11/17	09:00	NP	05/12/17	AQ	Ground Water	HSSER-GMZ02-051117
JC43354-11D	05/11/17	09:00	NP	05/12/17	AQ	Water Dup/MSD	HSSER-MSD01-051117
JC43354-11S	05/11/17	09:00	NP	05/12/17	AQ	Ground Water	HSSER-MS01-051117

Sample Summary
(continued)

United Technologies Corporation

Job No: JC43354

ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL
Project No: 60532451

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JC43354-12	05/11/17	09:15 NP	05/12/17	AQ	Ground Water	HSSER-PMW01-051117
JC43354-13	05/11/17	09:35 NP	05/12/17	AQ	Equipment Blank	HSSER-EBLK01-051117
JC43354-14	05/11/17	10:30 NP	05/12/17	AQ	Ground Water	HSSER-GMZ03-051117
JC43354-15	05/11/17	10:40 NP	05/12/17	AQ	Ground Water	HSSER-PMW02-051117
JC43354-16	05/11/17	11:45 NP	05/12/17	AQ	Ground Water	HSSER-SMW20-051117
JC43354-17	05/11/17	11:50 NP	05/12/17	AQ	Ground Water	HSSER-SMW04-051117
JC43354-18	05/11/17	00:00 NP	05/12/17	AQ	Ground Water	HSSER-DUP01-051117
JC43354-19	05/11/17	11:50 NP	05/12/17	AQ	Trip Blank Water	-TRIP01-050917

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	United Technologies Corporation	**Job No**	JC43354
Site:	ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL	**Report Date**	5/30/2017 12:27:33 P

On 05/12/2017, 16 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) and 1Equipment Blank(s) were received at SGS Accutest at a maximum corrected temperature of 5.5 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of JC43354 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** V4D3423

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC43354-11MS, JC43354-11MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Vinyl chloride are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- JC43354-16 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.
- JC43354-19 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.
- JC43354-11 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.
- JC43354-12 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.
- JC43354-14 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.
- JC43354-10 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.
- JC43354-18 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.
- JC43354-1 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.
- JC43354-2 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.
- JC43354-3 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.
- JC43354-4 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.
- JC43354-5 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.
- JC43354-6 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.
- JC43354-7 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.
- JC43354-8 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.
- JC43354-9 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.
- JC43354-13 for Vinyl chloride: This compound in BS is outside in house QC limits bias high.

Matrix: AQ **Batch ID:** V4D3424

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC50372-1DUP, MC50372-3MS were used as the QC samples indicated.

SGS Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS Accutest is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS Accutest indicated via signature on the report cover

Summary of Hits

Job Number: JC43354
Account: United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL
Collected: 05/09/17 thru 05/11/17

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC43354-1	**HSSER-FBKL01-050917**					
Toluene		0.0019	0.0010	0.00023	mg/l	SW846 8260C
JC43354-2	**HSSER-SMW08-050917**					
1,1-Dichloroethane		0.0051	0.0010	0.00021	mg/l	SW846 8260C
cis-1,2-Dichloroethene		0.0020	0.0010	0.00031	mg/l	SW846 8260C
Tetrachloroethene		0.0618	0.0010	0.00023	mg/l	SW846 8260C
1,1,1-Trichloroethane		0.0172	0.0010	0.00022	mg/l	SW846 8260C
Trichloroethene		0.0052	0.0010	0.00026	mg/l	SW846 8260C
JC43354-3	**HSSER-SMW01-050917**					
Tetrachloroethene		0.0026	0.0010	0.00023	mg/l	SW846 8260C
1,1,1-Trichloroethane		0.0011	0.0010	0.00022	mg/l	SW846 8260C
JC43354-4	**HSSER-GMZ01-050917**					
1,1-Dichloroethane		0.0093	0.0010	0.00021	mg/l	SW846 8260C
1,1-Dichloroethene		0.00079 J	0.0010	0.00020	mg/l	SW846 8260C
cis-1,2-Dichloroethene		0.0025	0.0010	0.00031	mg/l	SW846 8260C
Tetrachloroethene		0.0251	0.0010	0.00023	mg/l	SW846 8260C
1,1,1-Trichloroethane		0.0073	0.0010	0.00022	mg/l	SW846 8260C
Trichloroethene		0.0021	0.0010	0.00026	mg/l	SW846 8260C
JC43354-5	**HSSER-SMW02-051017**					
1,1-Dichloroethane		0.0010	0.0010	0.00021	mg/l	SW846 8260C
Tetrachloroethene		0.00055 J	0.0010	0.00023	mg/l	SW846 8260C
JC43354-6	**HSSER-MW203-051017**					
Tetrachloroethene		0.0035	0.0010	0.00023	mg/l	SW846 8260C
JC43354-7	**HSSER-MW07FGA-051017**					
Tetrachloroethene		0.0010	0.0010	0.00023	mg/l	SW846 8260C
1,1,1-Trichloroethane		0.0015	0.0010	0.00022	mg/l	SW846 8260C
JC43354-8	**HSSER-SMW19-051017**					
cis-1,2-Dichloroethene		0.00079 J	0.0010	0.00031	mg/l	SW846 8260C
Tetrachloroethene		0.00099 J	0.0010	0.00023	mg/l	SW846 8260C
1,1,1-Trichloroethane		0.00083 J	0.0010	0.00022	mg/l	SW846 8260C

Summary of Hits

Job Number: JC43354
Account: United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL
Collected: 05/09/17 thru 05/11/17

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Trichloroethene		0.0170	0.0010	0.00026	mg/l	SW846 8260C
JC43354-9	**HSSER-GMZ04-051017**					
1,1,1-Trichloroethane		0.0053	0.0010	0.00022	mg/l	SW846 8260C
JC43354-10	**HSSER-SMW21-051017**					
1,1,1-Trichloroethane		0.0018	0.0010	0.00022	mg/l	SW846 8260C
JC43354-11	**HSSER-GMZ02-051117**					
1,1-Dichloroethane		0.00077 J	0.0010	0.00021	mg/l	SW846 8260C
Tetrachloroethene		0.00058 J	0.0010	0.00023	mg/l	SW846 8260C
1,1,1-Trichloroethane		0.00080 J	0.0010	0.00022	mg/l	SW846 8260C
JC43354-12	**HSSER-PMW01-051117**					
1,1-Dichloroethane		0.00081 J	0.0010	0.00021	mg/l	SW846 8260C
Tetrachloroethene		0.0141	0.0010	0.00023	mg/l	SW846 8260C
1,1,1-Trichloroethane		0.0036	0.0010	0.00022	mg/l	SW846 8260C
Trichloroethene		0.00089 J	0.0010	0.00026	mg/l	SW846 8260C
JC43354-13	**HSSER-EBLK01-051117**					
Toluene		0.0017	0.0010	0.00023	mg/l	SW846 8260C
JC43354-14	**HSSER-GMZ03-051117**					
1,1-Dichloroethane		0.00042 J	0.0010	0.00021	mg/l	SW846 8260C
cis-1,2-Dichloroethene		0.00032 J	0.0010	0.00031	mg/l	SW846 8260C
1,1,1-Trichloroethane		0.00027 J	0.0010	0.00022	mg/l	SW846 8260C
JC43354-15	**HSSER-PMW02-051117**					
1,1-Dichloroethane		0.0053	0.0010	0.00021	mg/l	SW846 8260C
1,1-Dichloroethene		0.00062 J	0.0010	0.00020	mg/l	SW846 8260C
cis-1,2-Dichloroethene		0.0282	0.0010	0.00031	mg/l	SW846 8260C
trans-1,2-Dichloroethene		0.00058 J	0.0010	0.00036	mg/l	SW846 8260C
Tetrachloroethene		0.0186	0.0010	0.00023	mg/l	SW846 8260C
1,1,1-Trichloroethane		0.0017	0.0010	0.00022	mg/l	SW846 8260C
Trichloroethene		0.0012	0.0010	0.00026	mg/l	SW846 8260C
Vinyl chloride		0.0176	0.0010	0.00033	mg/l	SW846 8260C

Summary of Hits

Job Number: JC43354
Account: United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL
Collected: 05/09/17 thru 05/11/17

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC43354-16	**HSSER-SMW20-051117**					
No hits reported in this sample.						
JC43354-17	**HSSER-SMW04-051117**					
1,1-Dichloroethane		0.0124	0.0010	0.00021	mg/l	SW846 8260C
1,1-Dichloroethene		0.0014	0.0010	0.00020	mg/l	SW846 8260C
cis-1,2-Dichloroethene		0.0363	0.0010	0.00031	mg/l	SW846 8260C
Tetrachloroethene		0.0090	0.0010	0.00023	mg/l	SW846 8260C
1,1,1-Trichloroethane		0.0016	0.0010	0.00022	mg/l	SW846 8260C
Trichloroethene		0.0048	0.0010	0.00026	mg/l	SW846 8260C
Vinyl chloride		0.0116	0.0010	0.00033	mg/l	SW846 8260C
JC43354-18	**HSSER-DUP01-051117**					
1,1-Dichloroethane		0.00039 J	0.0010	0.00021	mg/l	SW846 8260C
cis-1,2-Dichloroethene		0.00033 J	0.0010	0.00031	mg/l	SW846 8260C
1,1,1-Trichloroethane		0.00023 J	0.0010	0.00022	mg/l	SW846 8260C
JC43354-19	**-TRIP01-050917**					
No hits reported in this sample.						

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	HSSER-FBKL01-050917		
Lab Sample ID:	JC43354-1	**Date Sampled:**	05/09/17
Matrix:	AQ - Field Blank Water	**Date Received:**	05/12/17
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D79212.D	1	05/18/17 03:10	BK	n/a	n/a	V4D3423
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00021	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00039	mg/l	
75-35-4	1,1-Dichloroethene	ND	0.0010	0.00020	mg/l	
156-59-2	cis-1,2-Dichloroethene	ND	0.0010	0.00031	mg/l	
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00036	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
75-09-2	Methylene chloride	ND	0.0020	0.0010	mg/l	
127-18-4	Tetrachloroethene	ND	0.0010	0.00023	mg/l	
108-88-3	Toluene	0.0019	0.0010	0.00023	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00022	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00028	mg/l	
79-01-6	Trichloroethene	ND	0.0010	0.00026	mg/l	
75-01-4	Vinyl chloride [a]	ND	0.0010	0.00033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-120%
17060-07-0	1,2-Dichloroethane-D4	107%		73-122%
2037-26-5	Toluene-D8	100%		84-119%
460-00-4	4-Bromofluorobenzene	101%		78-117%

(a) This compound in BS is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	HSSER-SMW08-050917		
Lab Sample ID:	JC43354-2	**Date Sampled:**	05/09/17
Matrix:	AQ - Ground Water	**Date Received:**	05/12/17
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D79213.D	1	05/18/17 03:38	BK	n/a	n/a	V4D3423
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	0.0051	0.0010	0.00021	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00039	mg/l	
75-35-4	1,1-Dichloroethene	ND	0.0010	0.00020	mg/l	
156-59-2	cis-1,2-Dichloroethene	0.0020	0.0010	0.00031	mg/l	
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00036	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
75-09-2	Methylene chloride	ND	0.0020	0.0010	mg/l	
127-18-4	Tetrachloroethene	0.0618	0.0010	0.00023	mg/l	
108-88-3	Toluene	ND	0.0010	0.00023	mg/l	
71-55-6	1,1,1-Trichloroethane	0.0172	0.0010	0.00022	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00028	mg/l	
79-01-6	Trichloroethene	0.0052	0.0010	0.00026	mg/l	
75-01-4	Vinyl chloride [a]	ND	0.0010	0.00033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		76-120%
17060-07-0	1,2-Dichloroethane-D4	108%		73-122%
2037-26-5	Toluene-D8	101%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

(a) This compound in BS is outside in house QC limits bias high.

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