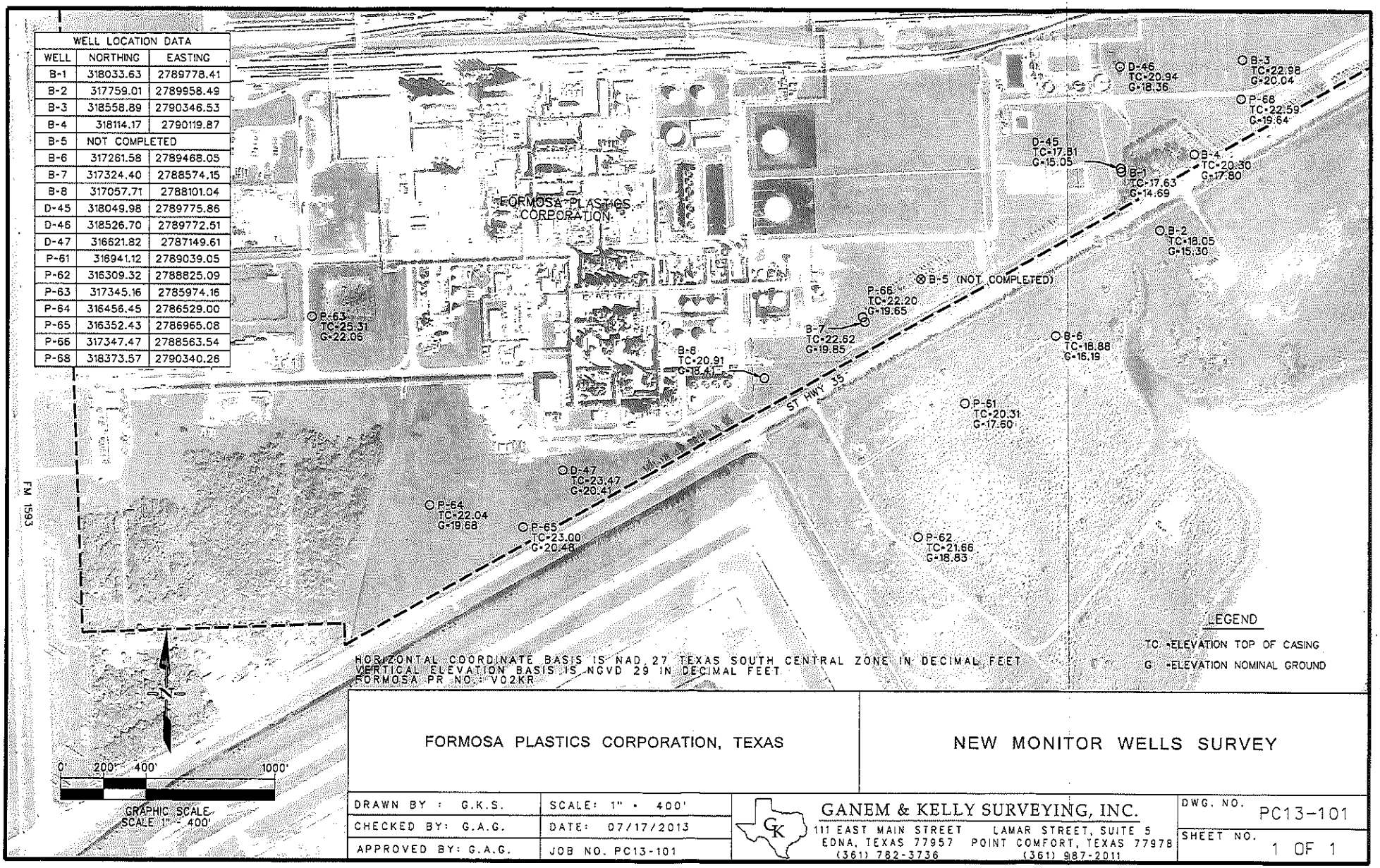
APPENDIX B
SURVEY INFORMATION (GANEM AND KELLY)

WELL LOCATION DATA		
WELL	NORTHING	EASTING
B-1	318033.63	2789778.41
B-2	317759.01	2789958.49
B-3	318558.89	2790346.53
B-4	318114.17	2790119.87
B-5	NOT COMPLETED	
B-6	317261.58	2789468.05
B-7	317324.40	2788574.15
B-8	317057.71	2788101.04
D-45	318049.98	2789775.86
D-46	318526.70	2789772.51
D-47	316621.82	2787149.61
P-61	316941.12	2789039.05
P-62	316309.32	2788825.09
P-63	317345.16	2785974.16
P-64	316456.45	2786529.00
P-65	316352.43	2786965.08
P-66	317347.47	2788563.54
P-68	318373.57	2790340.26



FORMOSA PLASTICS CORPORATION, TEXAS

NEW MONITOR WELLS SURVEY

DRAWN BY : G.K.S.	SCALE: 1" = 400'	GANEM & KELLY SURVEYING, INC.
CHECKED BY: G.A.G.	DATE: 07/17/2013	111 EAST MAIN STREET, EDNA, TEXAS 77957, (361) 782-3736
APPROVED BY: G.A.G.	JOB NO. PC13-101	LAMAR STREET, SUITE 5, POINT COMFORT, TEXAS 77978, (361) 987-2011

DWG. NO. PC13-101

SHEET NO. 1 OF 1

APPENDIX C
GROUNDWATER SAMPLING RECORDS

GROUNDWATER SAMPLING RECORD

PAGE 1 of 1

Project Number: 114-02	Project Name: Formosa Plastics Inc		Date: 6/27/13
Sample Number: d-46		Starting Water Level (ft. BMP): 18.78	
Sampling Location (well ID, etc.):		Casing Stickup (ft.):	
Sampled by: CRF/Tetra Tech, Inc.		Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well: TOC/PVC		Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID):	
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1245	1	0-2	24.7	7.09	5280	Neutral	14.0	1.3	-176
1250	2	0-2	24.6	6.95	5340	Neutral	12.9	1.2	-171
1255	3	0.2	24.6	6.88	5350	Neutral	9.7	1.0	-170

Water Level (ft. BMP) at End of Purge: 19.45 Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration (Y / N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			
1300	40ml	G	3	N	HCL	VOC

Comments:

Tetra Tech, Inc.
8911 N. Capital of Texas Highway
Building 2, Suite 2310
Austin, TX 78759
Office (512) 338-1667 Fax (512) 338-1331

GROUNDWATER SAMPLING RECORD

PAGE 1 of 1

Project Number: 114-02	Project Name: Formosa Plastics Inc		Date: 6/27/13
Sample Number: FB-01		Starting Water Level (ft. BMP):	
Sampling Location (well ID, etc.):		Casing Stickup (ft.):	
Sampled by: CRF/Tetra Tech, Inc.		Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well: TOC/PVC		Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID):	
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
		☆ Field Blank "FB-01" taken							
		on 6/27/13 @ 1328 by dt-46 ☆							

Water Level (ft. BMP) at End of Purge: Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration	Preservation	Remarks
Time	Volume	Composition (G, P)	No.	(Y / N)	(type)	(quality control sample, other)
1320	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

PAGE 1 of 1

Project Number: 114-02	Project Name: Formosa Plastics Inc		Date: 6/27/13
Sample Number: d-47		Starting Water Level (ft. BMP): 20.60	
Sampling Location (well ID, etc.):		Casing Stickup (ft.):	
Sampled by: CRF/Tetra Tech, Inc.		Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well: TOC/PVC		Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID): 2"	
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1550	1	0.2	25.3	10.10	662	Neutral	16.7	5.3	-64
1555	2	0.2	25.4	10.32	655	Neutral	13.2	4.8	-64
1600	3	0.2	25.6	10.56	638	Neutral	15.5	4.5	-66

Water Level (ft. BMP) at End of Purge: 20.63 Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration (Y / N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			
1605	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

PAGE ____ of ____

Project Number: 114-02	Project Name: Formosa Plastics Inc		Date: 6/27/03
Sample Number: d-45		Starting Water Level (ft. BMP): 15.61	
Sampling Location (well ID, etc.):		Casing Stickup (ft.):	
Sampled by: CRF/Tetra Tech, Inc.		Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well: TOC/PVC		Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID): 2"	
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1145	1	0.2	25.9	6.59	6210	Neutral	81.6	1.2	-116
1150	2	0.2	26.8	6.51	6000	Neutral	60.7	0.99	+122
1155	3	0.2	26.6	6.54	5730	Neutral	48.5	0.93	-122
1200	4	0.2	26.4	6.57	5690	Neutral	38.3	0.87	-124

Water Level (ft. BMP) at End of Purge: Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration	Preservation	Remarks
Time	Volume	Composition (G, P)	No.	(Y / N)	(type)	(quality control sample, other)
1205	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

PAGE 1 of 1

Project Number:	114-02	Project Name:	Formosa Plastics Inc
Date:	6/27/13		

Sample Number: Dup-01	Starting Water Level (ft. BMP):
Sampling Location (well ID, etc.): d-45	Casing Stickup (ft.):
Sampled by: CRF/Tetra Tech, Inc.	Starting Water Level (ft. BGL):
Measuring Point (MP) of Well: TOC/PVC	Total Depth (ft. BGL):
Screened Interval (ft. BGL):	Casing Diameter (In ID):
Filter Pack Interval (ft. BGL):	Casing Volume (gal.):

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)

* Duplicate taken @ d-45 *

Water Level (ft. BMP) at End of Purge: Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration	Preservation	Remarks
Time	Volume	Composition (G, P)	No.	(Y / N)	(type)	(quality control sample, other)
	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

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Project Number: 114-02	Project Name: Formosa Plastics Inc		Date: 6/27/13
Sample Number: B-1		Starting Water Level (ft. BMP):	15.22
Sampling Location (well ID, etc.):		Casing Stickup (ft.):	
Sampled by: CRF/Tetra Tech, Inc.		Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well: TOC/PVC		Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID):	6"
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1110	1	0.2	29.7	6.78	9220	Neutral	0.0	1.0	-103
1115	2	0.2	29.9	6.66	9150	Neutral	1.1	0.91	-104
1120	3	0.2	30.2	6.61	9060	Neutral	3.1	0.74	-104

Water Level (ft. BMP) at End of Purge: 15.30 Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration	Preservation	Remarks
Time	Volume	Composition (G, P)	No.	(Y / N)	(type)	(quality control sample, other)
1125	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

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Project Number:	114-02	Project Name:	Formosa Plastics Inc
Date:	6/27/13		
Sample Number:	B-2	Starting Water Level (ft. BMP):	15.71
Sampling Location (well ID, etc.):		Casing Stickup (ft.):	
Sampled by:	CRF/Tetra Tech, Inc.	Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well:	TOC/PVC	Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID):	2"
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1720	1	0.2	24.0	6.61	7840	Neutral	105	1.5	-123
1725	2	0.2	23.9	6.54	7850	Neutral	83.2	1.3	-117
1730	3	0.2	24.1	6.48	7860	Neutral	75.6	1.0	-110

Water Level (ft. BMP) at End of Purge: Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration (Y / N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			
1735	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

PAGE 1 of 1

Project Number: 114-02	Project Name: Formosa Plastics Inc		Date: 6/27/13
Sample Number: B-3		Starting Water Level (ft. BMP): 20.78	
Sampling Location (well ID, etc.):		Casing Stickup (ft.):	
Sampled by: CRF/Tetra Tech, Inc.		Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well: TOC/PVC		Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID): 2"	
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1010	1	0.2	25.6	6.97	7630	Neutral	31.5	3.0	-84
1015	2	0.2	25.7	6.63	7630	Neutral	36.2	1.1	-85
1020	3	0.2	25.9	6.57	7610	Neutral	20.7	1.0	-90

Water Level (ft. BMP) at End of Purge: 23.96 Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration	Preservation	Remarks
Time	Volume	Composition (G, P)	No.	(Y / N)	(type)	(quality control sample, other)
1025	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

PAGE 1 of 1

Project Number:	114-02	Project Name:	Formosa Plastics Inc
Date:	6/27/13		
Sample Number:	B-4	Starting Water Level (ft. BMP):	17.98
Sampling Location (well ID, etc.):		Casing Stickup (ft.):	
Sampled by:	CRF/Tetra Tech, Inc.	Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well:	TOC/PVC	Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID):	2"
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1650	1	0.2	23.7	6.92	4820	Neutral	86.4	1.2	-97
1655	2	0.2	23.8	6.86	4830	Neutral	61.2	1.1	-99
1700	3	0.2	23.7	6.84	4800	Neutral	54.9	1.0	-97

Water Level (ft. BMP) at End of Purge: 19.91 Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration (Y / N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			
1705	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

PAGE 1 of 1

Project Number: 114-02 Project Name: Formosa Plastics Inc Date: 6/27/13

Sample Number: B-6

Sampling Location (well ID, etc.):

Sampled by: CRF/Tetra Tech, Inc.

Measuring Point (MP) of Well: TOC/PVC

Screened Interval (ft. BGL):

Filter Pack Interval (ft. BGL):

Starting Water Level (ft. BMP): 16.76

Casing Stickup (ft.):

Starting Water Level (ft. BGL):

Total Depth (ft. BGL):

Casing Diameter (In ID): 2"

Casing Volume (gal.):

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level: Thermometer: Horiba U-52

pH Meter: Horiba U-52 Field Calibration: AutoCal Solution 100-4

Conductivity Meter: Horiba U-52 Field Calibration: pH 4.01 & 7.00

Filter / Filter Size: None Other:

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1805	1	0.2	26.3	6.79	5560	Neutral	96.1	2.1	-142
1810	2	0.2	26.1	6.75	5600	Neutral	73.4	1.6	-143
1815	3	0.2	26.0	6.71	5520	Neutral	42.1	1.0	-153

Water Level (ft. BMP) at End of Purge: Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration	Preservation	Remarks
Time	Volume	Composition (G, P)	No.	(Y / N)	(type)	(quality control sample, other)
1820	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

Project Number: 114-02	Project Name: Formosa Plastics Inc		Date: 6/27/13
Sample Number: B-8		Starting Water Level (ft. BMP):	15.15
Sampling Location (well ID, etc.):		Casing Stickup (ft.):	
Sampled by: CRF/Tetra Tech, Inc.		Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well: TOC/PVC		Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID):	2"
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Therinometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1500	1	0.2	24.7	6.21	14400	Neutral	33.2	2.5	94
1505	2	0.2	24.6	6.17	14400	Neutral	31.0	2.5	96
1510	3	0.2	24.4	6.14	14400	Neutral	26.5	2.4	100

Water Level (ft. BMP) at End of Purge: 18.19 Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration	Preservation	Remarks
Time	Volume	Composition (G, P)	No.	(Y / N)	(type)	(quality control sample, other)
1515	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

PAGE 1 of 1

Project Number: 114-02 Project Name: Formosa Plastics Inc Date: 6/27/13

Sample Number: B-7

Sampling Location (well ID, etc.):

Sampled by: CRF/Tetra Tech, Inc.

Measuring Point (MP) of Well: TOC/PVC

Screened Interval (ft. BGL):

Filter Pack Interval (ft. BGL):

Starting Water Level (ft. BMP): 18.65

Casing Stickup (ft.):

Starting Water Level (ft. BGL):

Total Depth (ft. BGL):

Casing Diameter (In ID): 2"

Casing Volume (gal.):

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level: Thermometer: Horiba U-52

pH Meter: Horiba U-52 Field Calibration: AutoCal Solution 100-4

Conductivity Meter: Horiba U-52 Field Calibration: pH 4.01 & 7.00

Filter / Filter Size: None Other:

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1355	1	0-2	25.9	6.61	11200	Lt. Haze	112	6.6	-13
1400	2	0-2	26.4	6.40	11100	Neutral	24.3	1.4	30
1405	3	0-2	26.3	6.42	11000	Neutral	19.7	1.1	36

Water Level (ft. BMP) at End of Purge: 18.73 Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration	Preservation	Remarks
Time	Volume	Composition (G, P)	No.	(Y / N)	(type)	(quality control sample, other)
1410	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

PAGE 1 of 2

Project Number:	114-02	Project Name:	Formosa Plastics Inc
Date:	6/28/13		
Sample Number:	P-61	Starting Water Level (ft. BMP):	19.07
Sampling Location (well ID, etc.):		Casing Stickup (ft.):	
Sampled by:	CRF/Tetra Tech, Inc.	Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well:	TOC/PVC	Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID):	2"
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1055	1	0.2	26.4	7.24	2700	Neutral	166	2.4	-87
1100	2	0.2	26.5	7.11	3020	Neutral	132	1.7	-103
1105	3	0.2	26.5	6.98	3120	Neutral	120	1.5	-111

Water Level (ft. BMP) at End of Purge: 21.85 Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration	Preservation	Remarks
Time	Volume	Composition (G, P)	No.	(Y / N)	(type)	(quality control sample, other)
1110	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

PAGE 1 of 1

Project Number: 114-02	Project Name: Formosa Plastics Inc		Date: 6/28/13
Sample Number: P-62		Starting Water Level (ft. BMP):	27.43
Sampling Location (well ID, etc.):		Casing Stickup (ft.):	
Sampled by: CRF/Tetra Tech, Inc.		Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well: TOC/PVC		Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID):	
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L/m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1000	1	0.2	25.1	7.08	1730	Neutral	6.3	1.2	-80
1005	2	0.2	25.2	6.93	1760	Neutral	3.7	1.3	-76
1010	3	0.2	25.3	6.89	1750	Neutral	1.0	1.2	-70
1015	4	0.2	25.4	6.86	1720	Neutral	0.7	1.0	-72

Water Level (ft. BMP) at End of Purge: Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration	Preservation	Remarks
Time	Volume	Composition (G, P)	No.	(Y / N)	(type)	(quality control sample, other)
1020	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

PAGE ____ of ____

Project Number: 114-02	Project Name: Formosa Plastics Inc		Date: 6/25/13
Sample Number: P-63		Starting Water Level (ft. BMP):	19.90
Sampling Location (well ID, etc.):		Casing Stickup (ft.):	
Sampled by: CRF/Tetra Tech, Inc.		Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well: TOC/PVC		Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID):	2.4
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1555	1	0.2	27.5	7.01	723	Lt. tan	161	2.7	85
1600	2	0.2	27.4	6.90	756	Neutral	105	2.5	88
1605	3	0.2	27.4	6.75	753	Neutral	112	2.4	90

Water Level (ft. BMP) at End of Purge: Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration (Y / N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			
1610	40ml	G	3	N	HCL	VOC

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GROUNDWATER SAMPLING RECORD

PAGE 1 of 1

Project Number: 114-02	Project Name: Formosa Plastics Inc		Date: 6/28/13
Sample Number: P-64		Starting Water Level (ft. BMP): 17.23	
Sampling Location (well ID, etc.):		Casing Stickup (ft.):	
Sampled by: CRF/Tetra Tech, Inc.		Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well: TOC/PVC		Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID): 8"	
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1505	1	0.2	26.7	7.13	2100	Neutral	31.8	3.8	40
1510	2	0.2	26.8	7.11	1990	Neutral	35.3	4.1	43
1515	3	0.2	26.9	7.07	1980	Neutral	26.8	2.8	47

Water Level (ft. BMP) at End of Purge: 18.18 Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration	Preservation	Remarks
Time	Volume	Composition (G, P)	No.	(Y / N)	(type)	(quality control sample, other)
1520	40ml	G	3	N	HCL	VOC

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GROUNDWATER SAMPLING RECORD

PAGE 1 of 1

Project Number: 114-02	Project Name: Formosa Plastics Inc		Date: 6/28/13
Sample Number: P-65		Starting Water Level (ft. BMP):	13.98
Sampling Location (well ID, etc.):		Casing Stickup (ft.):	
Sampled by: CRF/Tetra Tech, Inc.		Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well: TOC/PVC		Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID):	
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1425	1	0.2	25.6	6.18	3670	Neutral	82.0	0.95	-38
1430	2	0.2	25.7	6.16	3650	Neutral	78.1	0.84	-42
1435	3	0.2	25.9	6.15	3630	Neutral	69.0	0.81	-40

Water Level (ft. BMP) at End of Purge: 14.67 Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration	Preservation	Remarks
Time	Volume	Composition (G, P)	No.	(Y / N)	(type)	(quality control sample, other)
1440	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

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Project Number: 114-02 Project Name: Formosa Plastics Inc Date: 6/28/13

Sample Number: P-66	Starting Water Level (ft. BMP): 18.20
Sampling Location (well ID, etc.):	Casing Stickup (ft.):
Sampled by: CRF/Tetra Tech, Inc.	Starting Water Level (ft. BGL):
Measuring Point (MP) of Well: TOC/PVC	Total Depth (ft. BGL):
Screened Interval (ft. BGL):	Casing Diameter (In ID): 2"
Filter Pack Interval (ft. BGL):	Casing Volume (gal.):

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1340	1	0.2	28.7	6.41	14100	Neutral	125	1.0	-13
1345	2	0.2	28.9	6.37	14100	Neutral	136	0.93	-9
1350	3	0.2	29.0	6.35	13800	Neutral	119	0.85	3

Water Level (ft. BMP) at End of Purge: 19.44 Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration	Preservation	Remarks
Time	Volume	Composition (G, P)	No.	(Y / N)	(type)	(quality control sample, other)
1355	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

PAGE 1 of 1

Project Number: 114-02	Project Name: Formosa Plastics Inc		Date: 6/28/13
Sample Number: P-68		Starting Water Level (ft. BMP):	19.12
Sampling Location (well ID, etc.):		Casing Stickup (ft.):	
Sampled by: CRF/Tetra Tech, Inc.		Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well: TOC/PVC		Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID):	2"
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
1220	1	0.2	26.8	6.91	6550	Neutral	36.4	1.3	-97
1225	2	0.2	26.8	6.87	6530	Neutral	48.6	1.2	-83
1230	3	0.2	26.6	6.76	6810	Neutral	54.2	1.1	-76
1235	4	0.2	26.4	6.71	6950	Neutral	50.5	0.97	-71

Water Level (ft. BMP) at End of Purge: Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration (Y / N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			
1240	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

PAGE 1 of 1

Project Number: 114-02	Project Name: Formosa Plastics Inc		Date: 6/28/13
Sample Number: FB-02		Starting Water Level (ft. BMP):	
Sampling Location (well ID, etc.): P-68		Casing Stickup (ft.):	
Sampled by: CRF/Tetra Tech, Inc.		Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well: TOC/PVC		Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID):	
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
	☆ Field Blank "FB-02" taken on								
	6/28/13 @ 1308 by P-68 ☆								

Water Level (ft. BMP) at End of Purge: Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration	Preservation	Remarks
Time	Volume	Composition (G, P)	No.	(Y / N)	(type)	(quality control sample, other)
1308	40ml	G	3	N	HCL	VOC

Comments:

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GROUNDWATER SAMPLING RECORD

PAGE 1 of 1

Project Number: 114-02	Project Name: Formosa Plastics Inc		Date: 6/28/13
Sample Number: Dup-02		Starting Water Level (ft. BMP):	
Sampling Location (well ID, etc.): P-68		Casing Stickup (ft.):	
Sampled by: CRF/Tetra Tech, Inc.		Starting Water Level (ft. BGL):	
Measuring Point (MP) of Well: TOC/PVC		Total Depth (ft. BGL):	
Screened Interval (ft. BGL):		Casing Diameter (In ID):	
Filter Pack Interval (ft. BGL):		Casing Volume (gal.):	

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Alconox & Distilled Water Rinse

Purging: Peristaltic Pump Sampling: Same

Disposal of Discharged Water: Onsite Treatment System

INSTRUMENTS (Indicate make, model, I.d.)

Water Level:		Thermometer:	Horiba U-52
pH Meter:	Horiba U-52	Field Calibration:	AutoCal Solution 100-4
Conductivity Meter:	Horiba U-52	Field Calibration:	pH 4.01 & 7.00
Filter / Filter Size:	None	Other:	

SAMPLING MEASUREMENTS

Time	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	pH	Spec. Cond. (mmhos/cm)	Color	Turbidity	DO (mg/L)	ORP (mV)
	☆	Dup-02	taken		@	P-68	@	0000	☆
				on	6/28/13		☆		

Water Level (ft. BMP) at End of Purge: Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Bottles Collected				Filtration (Y / N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			
	40ml	G	3	N	HCL	VOC

Comments:

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DAILY FIELD RECORD
(continued)

DATE: 6/25/13

PAGE 1 of 1

TIME	DESCRIPTION OF DAILY ACTIVITIES & EVENTS
0700	TT on site
0730	Meet w/ drillers, obtained WW Permit
0830	Concrete guy cancelled, drillers taking off
0900	Talked to Eric about days plans
0930	Purged 1 hole readings @ "d-7" to check
	pH & Turbidity level
1000	TT off-site for supplies/lunch/pick-up coolers/tubing
1310	TT back on-site, started purging P-wells
1330	Start purging P-63
1415	Start purging P-64
1450	Purged P-65
1540	Purged P-66
1610	Purged P-68
1700	Purged P-62
1735	Purged P-61

COMMENTS / COMMUNICATIONS:

SIGNATURE OF FIELD REPRESENTATIVE:

DATE:

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DAILY FIELD RECORD
(continued)

DATE: 6/26/13

PAGE 1 of 1

TIME	DESCRIPTION OF DAILY ACTIVITIES & EVENTS
0715	TT on-site
0730	Obtained permits
0810	Concrete showed up / started pouring pads
1210	Pads finished, drillers done
1245	Turned in stickers / badges
1405	Started purging wells again
1800	Finish purging

COMMENTS / COMMUNICATIONS:

SIGNATURE OF FIELD REPRESENTATIVE:

DATE:

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d-1 - pH of 10.50 + TURB of ~30°

p-63 - 19.96, start of purge, dry in 2.5 Gallons dirty ~~end~~ whole time

p-64 - 12.22, dry in 2 Gallons, dirty ~~end~~ entire time

p-65 - 13.26, dry in 4 Gallons, dirty @ end

p-66 - 18.22, dry in 1.0 Gal, dirty @ end

p-68 - 19.26, dry in 1.0 Gal, very dirty @ end

Elvis
2

Meter Calibration Log		PAGE 1 of 1
Project Number: 114-024449	Project Name: MCCF	
Location: New	Time on Job: 0945 (AM)/PM to:	AM/PM
Weather Conditions: ~75°, cloudy, SE 5-10mph		
Sampler: CF		

Horiba U-52

Manufacturer Number:	Manufacturer Date: August 2010	Purchase Date: December 2010
Calibration Method (check one): One-Point Meter Calibration with 100-4 Auto Cal Solution _____	Two-Point Meter Calibration _____	

pH Meter

Time	pH 4 Check	pH 7 Check	pH 10 Check	Temp of Sol(°C)	Comments
0940	3.98			24.5	
Buffer Lot Numbers:	pH 4: [illegible]	pH 7: _____	pH 10: _____		

Conductivity Meter

Time	Corrected Cond. @ 25°C	Temp of Calibration Soln (°C)	Comments
0940	4.48	24.5	

Turbidity Meter

Time	Reading (NTU)	(NTU)	Comments
0940	0.0	0 - 10.0 range	

Dissolved Oxygen Meter

Time	% Saturation	Temp of Calibration Soln (°C)	Comments
0940	9.82	24.5	

Oxidation-Reduction Potential (ORP)

Time	mV	Temp of Calibration Soln (°C)	Comments
		24.5	

Signature: [signature] Date: 6/18/13

DAILY FIELD RECORD
(continued)

DATE: 6/27/13

PAGE 1 of 1

TIME	DESCRIPTION OF DAILY ACTIVITIES & EVENTS
0830	TT for supplies / Store
0930	TT on-site
0945	TT set up / calibrate Horiba
1005	Sample B-3
1125	Sampled B-1
1205	Sampled d-45 (Dupol taken & MS/MSD)
1300	Sampled d-46
1320	Field Blank "FB-01" taken by d-46
1410	Sampled B-7
1515	Sampled B-8
1605	Sampled d-47
1705	Sampled B-4
1735	Sampled B-2
1820	Sampled B-6

COMMENTS / COMMUNICATIONS:

SIGNATURE OF FIELD REPRESENTATIVE:

DATE: 6/27/13

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DAILY FIELD RECORD
(continued)

DATE: 6/28/13

PAGE 1 of 1

TIME	DESCRIPTION OF DAILY ACTIVITIES & EVENTS
0850	TT on-site @ Brookings
0920	Tailgate / Setup @ P-62
0945	Extra purge time
1020	Sampled P-62
1110	Sampled P-61
1240	Sampled P-68 (Dup-02 taken)
1300	FB-02 taken by P-68
1355	Sampled P-66
1440	Sampled P-65
1520	Sampled P-64
1610	Sampled P-63

COMMENTS / COMMUNICATIONS:

SIGNATURE OF FIELD REPRESENTATIVE:

DATE: 6/28/13

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APPENDIX D
ALS LABORATORY ANALYTICAL REPORT

ALS Environmental

08-Jul-2013

Eric Klink
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Tel: (512) 338-1667
Fax:

Re: Formosa Supplemental AOC 2013 Work Order: **1307039**

Dear Eric,

ALS Environmental received 22 samples on 29-Jun-2013 10:35 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 76.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Bethany McDaniel

Electronically approved by: Dayna.Fisher

Bethany McDaniel
Project Manager

NELAP ACCREDITED TNI LABORATORY

Certificate No: TX: T104704231-13-12

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 Sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:
a) Items consistent with NELAC Chapter 5,
b) dilution factors,
c) preparation methods,
d) cleanup methods, and
e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
a) Calculated recovery (%R), and
b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms for laboratory control samples (LCSs) including:
a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c)The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
a) Samples associated with the MS/MSD clearly identified,
b) MS/MSD spiking amounts,
c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
d) Calculated %Rs and relative percent differences (RPDs), and
e) The laboratory's MS/MSD QC limits.

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
a) the amount of analyte measured in the duplicate,
b) the calculated RPD, and
c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client:	Tetra Tech	**TRRP Laboratory Data Package Cover Page**
Project:	Formosa Supplemental AOC 2013	
Work Order:	1307039	

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [ ] _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Bethany McDaniel

Bethany McDaniel
Project Manager

Laboratory Review Checklist: Reportable Data								
Laboratory Name: ALS Laboratory Group			LRC Date: 07/08/2013					
Project Name: Formosa Supplemental AOC 2013			Laboratory Job Number: 1307039					
Reviewer Name: Bethany McDaniel			Prep Batch Number(s): R150056, R150105					
#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				2

Laboratory Review Checklist: Reportable Data								
Laboratory Name: ALS Laboratory Group			LRC Date: 07/08/2013					
Project Name: Formosa Supplemental AOC 2013			Laboratory Job Number: 1307039					
Reviewer Name: Bethany McDaniel			Prep Batch Number(s): R150056, R150105					
#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data	
Laboratory Name: ALS Laboratory Group	LRC Date: 07/08/2013
Project Name: Formosa Supplemental AOC 2013	Laboratory Job Number: 1307039
Reviewer Name: Bethany McDaniel	Prep Batch Number(s): R150056, R150105

ER#[5]	Description
1	Batch R150056, Volatile Organics Method 8260, Sample d-45,: MS/MSD recoveries were above the control limits for Isopropylbenzene. The associated LCS recoveries and MS/MSD RPD were within the control limits.
2	With the exception of cyclohexane, ALS is NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package. Because TCEQ does not offer accreditation for this compound, the results are flagged with n.

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

ALS Environmental

Date: 08-Jul-13

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Work Order: 1307039

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1307039-01	B-3	Water		6/27/2013 10:25	6/29/2013 10:35	☐
1307039-02	B-1	Water		6/27/2013 11:25	6/29/2013 10:35	☐
1307039-03	d-45	Water		6/27/2013 12:05	6/29/2013 10:35	☐
1307039-04	d-46	Water		6/27/2013 13:00	6/29/2013 10:35	☐
1307039-05	FB-01	Water		6/27/2013 13:20	6/29/2013 10:35	☐
1307039-06	B-7	Water		6/27/2013 14:10	6/29/2013 10:35	☐
1307039-07	B-8	Water		6/27/2013 15:15	6/29/2013 10:35	☐
1307039-08	d-47	Water		6/27/2013 16:05	6/29/2013 10:35	☐
1307039-09	B-4	Water		6/27/2013 17:05	6/29/2013 10:35	☐
1307039-10	B-2	Water		6/27/2013 17:35	6/29/2013 10:35	☐
1307039-11	B-6	Water		6/27/2013 18:20	6/29/2013 10:35	☐
1307039-12	Dup-01	Water		6/27/2013	6/29/2013 10:35	☐
1307039-13	p-62	Water		6/28/2013 10:20	6/29/2013 10:35	☐
1307039-14	p-61	Water		6/28/2013 11:10	6/29/2013 10:35	☐
1307039-15	p-68	Water		6/28/2013 12:40	6/29/2013 10:35	☐
1307039-16	FB-02	Water		6/28/2013 13:00	6/29/2013 10:35	☐
1307039-17	p-66	Water		6/28/2013 13:55	6/29/2013 10:35	☐
1307039-18	p-65	Water		6/28/2013 14:40	6/29/2013 10:35	☐
1307039-19	p-64	Water		6/28/2013 15:20	6/29/2013 10:35	☐
1307039-20	p-63	Water		6/28/2013 16:10	6/29/2013 10:35	☐
1307039-21	Dup-02	Water		6/28/2013	6/29/2013 10:35	☐
1307039-22	Trip Blank - 061813-93	Water		6/27/2013	6/29/2013 10:35	☐

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: B-3
Collection Date: 6/27/2013 10:25 AM

Work Order: 1307039
Lab ID: 1307039-01
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 11:05
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/5/2013 11:05
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/5/2013 11:05
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/5/2013 11:05
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/5/2013 11:05
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/5/2013 11:05
1,2-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/5/2013 11:05
1,3-Dichlorobenzene	**0.00053**	J	**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 11:05
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05
2-Butanone	U		0.00040	0.0020	mg/L	1	7/5/2013 11:05
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/5/2013 11:05
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/5/2013 11:05
Acetone	U		0.0010	0.0020	mg/L	1	7/5/2013 11:05
Benzene	U		0.00020	0.0010	mg/L	1	7/5/2013 11:05
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05
Bromoform	U		0.00040	0.0010	mg/L	1	7/5/2013 11:05
Bromomethane	U		0.0010	0.0010	mg/L	1	7/5/2013 11:05
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/5/2013 11:05
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/5/2013 11:05
Chloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 11:05
Chloroform	**0.0070**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 11:05
Chloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 11:05
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 11:05
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/5/2013 11:05
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 11:05
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05
Dichloromethane	U		0.00050	0.010	mg/L	1	7/5/2013 11:05
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/5/2013 11:05
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: B-3
Collection Date: 6/27/2013 10:25 AM

Work Order: 1307039
Lab ID: 1307039-01
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/5/2013 11:05
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/5/2013 11:05
o-Xylene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05
Styrene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 11:05
Toluene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:05
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 11:05
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/5/2013 11:05
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 11:05
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/5/2013 11:05
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/5/2013 11:05
Surr: 1,2-Dichloroethane-d4	*123*			*70-125*	*%REC*	1	7/5/2013 11:05
Surr: 4-Bromofluorobenzene	*102*			*72-125*	*%REC*	1	7/5/2013 11:05
Surr: Dibromofluoromethane	*122*			*71-125*	*%REC*	1	7/5/2013 11:05
Surr: Toluene-d8	*120*			*75-125*	*%REC*	1	7/5/2013 11:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: B-1
Collection Date: 6/27/2013 11:25 AM

Work Order: 1307039
Lab ID: 1307039-02
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 07:37
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/6/2013 07:37
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/6/2013 07:37
1,1,2-Trichloroethane	**0.14**		**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 07:37
1,1-Dichloroethane	**0.086**		**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 07:37
1,1-Dichloroethene	**0.069**		**0.00050**	**0.0010**	**mg/L**	1	7/6/2013 07:37
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/6/2013 07:37
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/6/2013 07:37
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/6/2013 07:37
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/6/2013 07:37
1,2-Dichloroethane	**0.014**		**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 07:37
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/6/2013 07:37
1,3-Dichlorobenzene	**0.00042**	J	**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 07:37
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 07:37
2-Butanone	U		0.00040	0.0020	mg/L	1	7/6/2013 07:37
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/6/2013 07:37
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/6/2013 07:37
Acetone	U		0.0010	0.0020	mg/L	1	7/6/2013 07:37
Benzene	**0.020**		**0.00020**	**0.0010**	**mg/L**	1	7/6/2013 07:37
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 07:37
Bromoform	U		0.00040	0.0010	mg/L	1	7/6/2013 07:37
Bromomethane	U		0.0010	0.0010	mg/L	1	7/6/2013 07:37
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/6/2013 07:37
Carbon tetrachloride	**0.0094**		**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 07:37
Chlorobenzene	**0.0023**		**0.00020**	**0.0010**	**mg/L**	1	7/6/2013 07:37
Chloroethane	U		0.00050	0.0010	mg/L	1	7/6/2013 07:37
Chloroform	**0.78**		**0.0030**	**0.010**	**mg/L**	10	7/5/2013 14:24
Chloromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 07:37
cis-1,2-Dichloroethene	**0.047**		**0.00040**	**0.0010**	**mg/L**	1	7/6/2013 07:37
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/6/2013 07:37
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/6/2013 07:37
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/6/2013 07:37
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 07:37
Dichloromethane	**0.0019**	J	**0.00050**	**0.010**	**mg/L**	1	7/6/2013 07:37
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 07:37
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 07:37
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/6/2013 07:37
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/6/2013 07:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: B-1
Collection Date: 6/27/2013 11:25 AM

Work Order: 1307039
Lab ID: 1307039-02
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/6/2013 07:37
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/6/2013 07:37
o-Xylene	U		0.00030	0.0010	mg/L	1	7/6/2013 07:37
Styrene	U		0.00030	0.0010	mg/L	1	7/6/2013 07:37
Tetrachloroethene	**0.10**		**0.00040**	**0.0010**	**mg/L**	1	7/6/2013 07:37
Toluene	U		0.00030	0.0010	mg/L	1	7/6/2013 07:37
trans-1,2-Dichloroethene	**0.077**		**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 07:37
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/6/2013 07:37
Trichloroethene	**0.16**		**0.00020**	**0.0010**	**mg/L**	1	7/6/2013 07:37
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/6/2013 07:37
Vinyl chloride	**0.057**		**0.00040**	**0.0010**	**mg/L**	1	7/6/2013 07:37
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/6/2013 07:37
Surr: 1,2-Dichloroethane-d4	*109*			*70-125*	*%REC*	10	7/5/2013 14:24
Surr: 1,2-Dichloroethane-d4	*114*			*70-125*	*%REC*	1	7/6/2013 07:37
Surr: 4-Bromofluorobenzene	*104*			*72-125*	*%REC*	10	7/5/2013 14:24
Surr: 4-Bromofluorobenzene	*101*			*72-125*	*%REC*	1	7/6/2013 07:37
Surr: Dibromofluoromethane	*110*			*71-125*	*%REC*	10	7/5/2013 14:24
Surr: Dibromofluoromethane	*112*			*71-125*	*%REC*	1	7/6/2013 07:37
Surr: Toluene-d8	*119*			*75-125*	*%REC*	10	7/5/2013 14:24
Surr: Toluene-d8	*119*			*75-125*	*%REC*	1	7/6/2013 07:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: d-45
Collection Date: 6/27/2013 12:05 PM

Work Order: 1307039
Lab ID: 1307039-03
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 11:30
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/5/2013 11:30
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/5/2013 11:30
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/5/2013 11:30
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/5/2013 11:30
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/5/2013 11:30
1,2-Dichloroethane	**0.043**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 11:30
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/5/2013 11:30
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30
2-Butanone	U		0.00040	0.0020	mg/L	1	7/5/2013 11:30
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/5/2013 11:30
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/5/2013 11:30
Acetone	U		0.0010	0.0020	mg/L	1	7/5/2013 11:30
Benzene	U		0.00020	0.0010	mg/L	1	7/5/2013 11:30
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30
Bromoform	U		0.00040	0.0010	mg/L	1	7/5/2013 11:30
Bromomethane	U		0.0010	0.0010	mg/L	1	7/5/2013 11:30
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/5/2013 11:30
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/5/2013 11:30
Chloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 11:30
Chloroform	**0.0073**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 11:30
Chloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 11:30
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 11:30
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/5/2013 11:30
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 11:30
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30
Dichloromethane	U		0.00050	0.010	mg/L	1	7/5/2013 11:30
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/5/2013 11:30
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: d-45
Collection Date: 6/27/2013 12:05 PM

Work Order: 1307039
Lab ID: 1307039-03
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/5/2013 11:30
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/5/2013 11:30
o-Xylene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30
Styrene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 11:30
Toluene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:30
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 11:30
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/5/2013 11:30
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 11:30
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/5/2013 11:30
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/5/2013 11:30
Surr: 1,2-Dichloroethane-d4	*110*			*70-125*	*%REC*	1	7/5/2013 11:30
Surr: 4-Bromofluorobenzene	*103*			*72-125*	*%REC*	1	7/5/2013 11:30
Surr: Dibromofluoromethane	*115*			*71-125*	*%REC*	1	7/5/2013 11:30
Surr: Toluene-d8	*120*			*75-125*	*%REC*	1	7/5/2013 11:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: d-46
Collection Date: 6/27/2013 01:00 PM

Work Order: 1307039
Lab ID: 1307039-04
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 11:55
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/5/2013 11:55
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/5/2013 11:55
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/5/2013 11:55
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/5/2013 11:55
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/5/2013 11:55
1,2-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/5/2013 11:55
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
2-Butanone	U		0.00040	0.0020	mg/L	1	7/5/2013 11:55
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/5/2013 11:55
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/5/2013 11:55
Acetone	U		0.0010	0.0020	mg/L	1	7/5/2013 11:55
Benzene	U		0.00020	0.0010	mg/L	1	7/5/2013 11:55
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
Bromoform	U		0.00040	0.0010	mg/L	1	7/5/2013 11:55
Bromomethane	U		0.0010	0.0010	mg/L	1	7/5/2013 11:55
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/5/2013 11:55
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/5/2013 11:55
Chloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 11:55
Chloroform	**0.0048**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 11:55
Chloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 11:55
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 11:55
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/5/2013 11:55
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 11:55
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
Dichloromethane	U		0.00050	0.010	mg/L	1	7/5/2013 11:55
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/5/2013 11:55
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: d-46
Collection Date: 6/27/2013 01:00 PM

Work Order: 1307039
Lab ID: 1307039-04
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/5/2013 11:55
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/5/2013 11:55
o-Xylene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
Styrene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 11:55
Toluene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/5/2013 11:55
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 11:55
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/5/2013 11:55
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 11:55
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/5/2013 11:55
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/5/2013 11:55
Surr: 1,2-Dichloroethane-d4	*114*			*70-125*	*%REC*	1	7/5/2013 11:55
Surr: 4-Bromofluorobenzene	*100*			*72-125*	*%REC*	1	7/5/2013 11:55
Surr: Dibromofluoromethane	*115*			*71-125*	*%REC*	1	7/5/2013 11:55
Surr: Toluene-d8	*113*			*75-125*	*%REC*	1	7/5/2013 11:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: FB-01
Collection Date: 6/27/2013 01:20 PM

Work Order: 1307039
Lab ID: 1307039-05
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 22:40
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/5/2013 22:40
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/5/2013 22:40
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/5/2013 22:40
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/5/2013 22:40
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/5/2013 22:40
1,2-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/5/2013 22:40
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
2-Butanone	U		0.00040	0.0020	mg/L	1	7/5/2013 22:40
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/5/2013 22:40
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/5/2013 22:40
Acetone	**0.0062**		**0.0010**	**0.0020**	**mg/L**	1	7/5/2013 22:40
Benzene	U		0.00020	0.0010	mg/L	1	7/5/2013 22:40
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
Bromoform	U		0.00040	0.0010	mg/L	1	7/5/2013 22:40
Bromomethane	U		0.0010	0.0010	mg/L	1	7/5/2013 22:40
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/5/2013 22:40
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/5/2013 22:40
Chloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 22:40
Chloroform	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
Chloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 22:40
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 22:40
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/5/2013 22:40
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 22:40
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
Dichloromethane	U		0.00050	0.010	mg/L	1	7/5/2013 22:40
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/5/2013 22:40
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: FB-01
Collection Date: 6/27/2013 01:20 PM

Work Order: 1307039
Lab ID: 1307039-05
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/5/2013 22:40
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/5/2013 22:40
o-Xylene	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
Styrene	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 22:40
Toluene	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/5/2013 22:40
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 22:40
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/5/2013 22:40
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 22:40
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/5/2013 22:40
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/5/2013 22:40
Surr: 1,2-Dichloroethane-d4	*113*			*70-125*	*%REC*	1	7/5/2013 22:40
Surr: 4-Bromofluorobenzene	*99.6*			*72-125*	*%REC*	1	7/5/2013 22:40
Surr: Dibromofluoromethane	*114*			*71-125*	*%REC*	1	7/5/2013 22:40
Surr: Toluene-d8	*122*			*75-125*	*%REC*	1	7/5/2013 22:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: B-7
Collection Date: 6/27/2013 02:10 PM

Work Order: 1307039
Lab ID: 1307039-06
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:55
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 16:55
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/5/2013 16:55
1,1,2-Trichloroethane	**0.057**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 16:55
1,1-Dichloroethane	**0.040**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 16:55
1,1-Dichloroethene	**0.0047**		**0.00050**	**0.0010**	**mg/L**	1	7/5/2013 16:55
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/5/2013 16:55
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/5/2013 16:55
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:55
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/5/2013 16:55
1,2-Dichloroethane	**0.033**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 16:55
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/5/2013 16:55
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:55
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:55
2-Butanone	U		0.00040	0.0020	mg/L	1	7/5/2013 16:55
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/5/2013 16:55
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/5/2013 16:55
Acetone	U		0.0010	0.0020	mg/L	1	7/5/2013 16:55
Benzene	**0.014**		**0.00020**	**0.0010**	**mg/L**	1	7/5/2013 16:55
Bromodichloromethane	**0.0033**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 16:55
Bromoform	U		0.00040	0.0010	mg/L	1	7/5/2013 16:55
Bromomethane	U		0.0010	0.0010	mg/L	1	7/5/2013 16:55
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/5/2013 16:55
Carbon tetrachloride	**0.0030**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 16:55
Chlorobenzene	**0.0019**		**0.00020**	**0.0010**	**mg/L**	1	7/5/2013 16:55
Chloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 16:55
Chloroform	U		0.00030	0.0010	mg/L	1	7/5/2013 16:55
Chloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:55
cis-1,2-Dichloroethene	**0.013**		**0.00040**	**0.0010**	**mg/L**	1	7/5/2013 16:55
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 16:55
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/5/2013 16:55
Dibromochloromethane	**0.00077**	J	**0.00040**	**0.0010**	**mg/L**	1	7/5/2013 16:55
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:55
Dichloromethane	U		0.00050	0.010	mg/L	1	7/5/2013 16:55
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:55
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:55
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/5/2013 16:55
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/5/2013 16:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: B-7
Collection Date: 6/27/2013 02:10 PM

Work Order: 1307039
Lab ID: 1307039-06
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/5/2013 16:55
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/5/2013 16:55
o-Xylene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:55
Styrene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:55
Tetrachloroethene	**0.028**		**0.00040**	**0.0010**	**mg/L**	1	7/5/2013 16:55
Toluene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:55
trans-1,2-Dichloroethene	**0.016**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 16:55
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 16:55
Trichloroethene	**0.033**		**0.00020**	**0.0010**	**mg/L**	1	7/5/2013 16:55
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 16:55
Vinyl chloride	**0.041**		**0.00040**	**0.0010**	**mg/L**	1	7/5/2013 16:55
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/5/2013 16:55
Surr: 1,2-Dichloroethane-d4	*114*			*70-125*	*%REC*	1	7/5/2013 16:55
Surr: 4-Bromofluorobenzene	*102*			*72-125*	*%REC*	1	7/5/2013 16:55
Surr: Dibromofluoromethane	*113*			*71-125*	*%REC*	1	7/5/2013 16:55
Surr: Toluene-d8	*119*			*75-125*	*%REC*	1	7/5/2013 16:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: B-8
Collection Date: 6/27/2013 03:15 PM

Work Order: 1307039
Lab ID: 1307039-07
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 15:14
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/5/2013 15:14
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/5/2013 15:14
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/5/2013 15:14
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/5/2013 15:14
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/5/2013 15:14
1,2-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/5/2013 15:14
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
2-Butanone	U		0.00040	0.0020	mg/L	1	7/5/2013 15:14
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/5/2013 15:14
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/5/2013 15:14
Acetone	**0.010**		**0.0010**	**0.0020**	**mg/L**	1	7/5/2013 15:14
Benzene	U		0.00020	0.0010	mg/L	1	7/5/2013 15:14
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
Bromoform	U		0.00040	0.0010	mg/L	1	7/5/2013 15:14
Bromomethane	U		0.0010	0.0010	mg/L	1	7/5/2013 15:14
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/5/2013 15:14
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/5/2013 15:14
Chloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 15:14
Chloroform	**0.017**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 15:14
Chloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 15:14
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 15:14
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/5/2013 15:14
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 15:14
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
Dichloromethane	U		0.00050	0.010	mg/L	1	7/5/2013 15:14
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/5/2013 15:14
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: B-8
Collection Date: 6/27/2013 03:15 PM

Work Order: 1307039
Lab ID: 1307039-07
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/5/2013 15:14
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/5/2013 15:14
o-Xylene	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
Styrene	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 15:14
Toluene	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/5/2013 15:14
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 15:14
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/5/2013 15:14
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 15:14
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/5/2013 15:14
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/5/2013 15:14
Surr: 1,2-Dichloroethane-d4	*112*			*70-125*	*%REC*	1	7/5/2013 15:14
Surr: 4-Bromofluorobenzene	*101*			*72-125*	*%REC*	1	7/5/2013 15:14
Surr: Dibromofluoromethane	*110*			*71-125*	*%REC*	1	7/5/2013 15:14
Surr: Toluene-d8	*120*			*75-125*	*%REC*	1	7/5/2013 15:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: d-47
Collection Date: 6/27/2013 04:05 PM

Work Order: 1307039
Lab ID: 1307039-08
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 15:39
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/5/2013 15:39
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/5/2013 15:39
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/5/2013 15:39
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/5/2013 15:39
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/5/2013 15:39
1,2-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/5/2013 15:39
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39
2-Butanone	U		0.00040	0.0020	mg/L	1	7/5/2013 15:39
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/5/2013 15:39
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/5/2013 15:39
Acetone	**0.0085**		**0.0010**	**0.0020**	**mg/L**	1	7/5/2013 15:39
Benzene	U		0.00020	0.0010	mg/L	1	7/5/2013 15:39
Bromodichloromethane	**0.0031**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 15:39
Bromoform	U		0.00040	0.0010	mg/L	1	7/5/2013 15:39
Bromomethane	U		0.0010	0.0010	mg/L	1	7/5/2013 15:39
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/5/2013 15:39
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/5/2013 15:39
Chloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 15:39
Chloroform	**0.046**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 15:39
Chloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 15:39
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 15:39
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/5/2013 15:39
Dibromochloromethane	**0.0011**		**0.00040**	**0.0010**	**mg/L**	1	7/5/2013 15:39
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39
Dichloromethane	U		0.00050	0.010	mg/L	1	7/5/2013 15:39
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/5/2013 15:39
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: d-47
Collection Date: 6/27/2013 04:05 PM

Work Order: 1307039
Lab ID: 1307039-08
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/5/2013 15:39
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/5/2013 15:39
o-Xylene	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39
Styrene	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 15:39
Toluene	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/5/2013 15:39
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 15:39
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/5/2013 15:39
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 15:39
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/5/2013 15:39
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/5/2013 15:39
Surr: 1,2-Dichloroethane-d4	*112*			*70-125*	*%REC*	1	7/5/2013 15:39
Surr: 4-Bromofluorobenzene	*99.3*			*72-125*	*%REC*	1	7/5/2013 15:39
Surr: Dibromofluoromethane	*113*			*71-125*	*%REC*	1	7/5/2013 15:39
Surr: Toluene-d8	*119*			*75-125*	*%REC*	1	7/5/2013 15:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: B-4
Collection Date: 6/27/2013 05:05 PM

Work Order: 1307039
Lab ID: 1307039-09
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 16:05
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/5/2013 16:05
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/5/2013 16:05
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/5/2013 16:05
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/5/2013 16:05
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/5/2013 16:05
1,2-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/5/2013 16:05
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
2-Butanone	U		0.00040	0.0020	mg/L	1	7/5/2013 16:05
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/5/2013 16:05
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/5/2013 16:05
Acetone	**0.0074**		**0.0010**	**0.0020**	**mg/L**	1	7/5/2013 16:05
Benzene	U		0.00020	0.0010	mg/L	1	7/5/2013 16:05
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
Bromoform	U		0.00040	0.0010	mg/L	1	7/5/2013 16:05
Bromomethane	U		0.0010	0.0010	mg/L	1	7/5/2013 16:05
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/5/2013 16:05
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/5/2013 16:05
Chloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 16:05
Chloroform	**0.013**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 16:05
Chloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 16:05
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 16:05
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/5/2013 16:05
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 16:05
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
Dichloromethane	U		0.00050	0.010	mg/L	1	7/5/2013 16:05
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/5/2013 16:05
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: B-4
Collection Date: 6/27/2013 05:05 PM

Work Order: 1307039
Lab ID: 1307039-09
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/5/2013 16:05
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/5/2013 16:05
o-Xylene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
Styrene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 16:05
Toluene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:05
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 16:05
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/5/2013 16:05
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 16:05
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/5/2013 16:05
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/5/2013 16:05
Surr: 1,2-Dichloroethane-d4	*115*			*70-125*	*%REC*	1	7/5/2013 16:05
Surr: 4-Bromofluorobenzene	*102*			*72-125*	*%REC*	1	7/5/2013 16:05
Surr: Dibromofluoromethane	*112*			*71-125*	*%REC*	1	7/5/2013 16:05
Surr: Toluene-d8	*122*			*75-125*	*%REC*	1	7/5/2013 16:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: B-2
Collection Date: 6/27/2013 05:35 PM

Work Order: 1307039
Lab ID: 1307039-10
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 16:30
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/5/2013 16:30
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/5/2013 16:30
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/5/2013 16:30
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/5/2013 16:30
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/5/2013 16:30
1,2-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/5/2013 16:30
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
2-Butanone	U		0.00040	0.0020	mg/L	1	7/5/2013 16:30
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/5/2013 16:30
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/5/2013 16:30
Acetone	U		0.0010	0.0020	mg/L	1	7/5/2013 16:30
Benzene	**0.00029**	J	**0.00020**	**0.0010**	**mg/L**	1	7/5/2013 16:30
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
Bromoform	U		0.00040	0.0010	mg/L	1	7/5/2013 16:30
Bromomethane	U		0.0010	0.0010	mg/L	1	7/5/2013 16:30
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/5/2013 16:30
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/5/2013 16:30
Chloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 16:30
Chloroform	**0.0020**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 16:30
Chloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 16:30
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 16:30
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/5/2013 16:30
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 16:30
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
Dichloromethane	U		0.00050	0.010	mg/L	1	7/5/2013 16:30
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/5/2013 16:30
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: B-2
Collection Date: 6/27/2013 05:35 PM

Work Order: 1307039
Lab ID: 1307039-10
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/5/2013 16:30
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/5/2013 16:30
o-Xylene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
Styrene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 16:30
Toluene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/5/2013 16:30
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 16:30
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/5/2013 16:30
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 16:30
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/5/2013 16:30
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/5/2013 16:30
Surr: 1,2-Dichloroethane-d4	*113*			*70-125*	*%REC*	1	7/5/2013 16:30
Surr: 4-Bromofluorobenzene	*102*			*72-125*	*%REC*	1	7/5/2013 16:30
Surr: Dibromofluoromethane	*114*			*71-125*	*%REC*	1	7/5/2013 16:30
Surr: Toluene-d8	*119*			*75-125*	*%REC*	1	7/5/2013 16:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: B-6
Collection Date: 6/27/2013 06:20 PM

Work Order: 1307039
Lab ID: 1307039-11
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/6/2013 01:57
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/6/2013 01:57
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/6/2013 01:57
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/6/2013 01:57
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/6/2013 01:57
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/6/2013 01:57
1,2-Dichloroethane	**0.0030**		**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 01:57
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/6/2013 01:57
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57
2-Butanone	U		0.00040	0.0020	mg/L	1	7/6/2013 01:57
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/6/2013 01:57
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/6/2013 01:57
Acetone	U		0.0010	0.0020	mg/L	1	7/6/2013 01:57
Benzene	U		0.00020	0.0010	mg/L	1	7/6/2013 01:57
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57
Bromoform	U		0.00040	0.0010	mg/L	1	7/6/2013 01:57
Bromomethane	U		0.0010	0.0010	mg/L	1	7/6/2013 01:57
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/6/2013 01:57
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/6/2013 01:57
Chloroethane	U		0.00050	0.0010	mg/L	1	7/6/2013 01:57
Chloroform	**0.015**		**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 01:57
Chloromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/6/2013 01:57
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/6/2013 01:57
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/6/2013 01:57
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/6/2013 01:57
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57
Dichloromethane	U		0.00050	0.010	mg/L	1	7/6/2013 01:57
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/6/2013 01:57
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: B-6
Collection Date: 6/27/2013 06:20 PM

Work Order: 1307039
Lab ID: 1307039-11
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/6/2013 01:57
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/6/2013 01:57
o-Xylene	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57
Styrene	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/6/2013 01:57
Toluene	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/6/2013 01:57
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/6/2013 01:57
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/6/2013 01:57
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/6/2013 01:57
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/6/2013 01:57
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/6/2013 01:57
Surr: 1,2-Dichloroethane-d4	*115*			*70-125*	*%REC*	1	7/6/2013 01:57
Surr: 4-Bromofluorobenzene	*99.7*			*72-125*	*%REC*	1	7/6/2013 01:57
Surr: Dibromofluoromethane	*115*			*71-125*	*%REC*	1	7/6/2013 01:57
Surr: Toluene-d8	*119*			*75-125*	*%REC*	1	7/6/2013 01:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: Dup-01
Collection Date: 6/27/2013

Work Order: 1307039
Lab ID: 1307039-12
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 17:19
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 17:19
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/5/2013 17:19
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 17:19
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 17:19
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/5/2013 17:19
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/5/2013 17:19
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/5/2013 17:19
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/5/2013 17:19
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/5/2013 17:19
1,2-Dichloroethane	**0.041**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 17:19
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/5/2013 17:19
1,3-Dichlorobenzene	**0.00041**	J	**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 17:19
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 17:19
2-Butanone	U		0.00040	0.0020	mg/L	1	7/5/2013 17:19
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/5/2013 17:19
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/5/2013 17:19
Acetone	U		0.0010	0.0020	mg/L	1	7/5/2013 17:19
Benzene	U		0.00020	0.0010	mg/L	1	7/5/2013 17:19
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 17:19
Bromoform	U		0.00040	0.0010	mg/L	1	7/5/2013 17:19
Bromomethane	U		0.0010	0.0010	mg/L	1	7/5/2013 17:19
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/5/2013 17:19
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/5/2013 17:19
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/5/2013 17:19
Chloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 17:19
Chloroform	**0.0071**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 17:19
Chloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 17:19
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 17:19
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 17:19
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/5/2013 17:19
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 17:19
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 17:19
Dichloromethane	U		0.00050	0.010	mg/L	1	7/5/2013 17:19
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 17:19
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 17:19
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/5/2013 17:19
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/5/2013 17:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: Dup-01
Collection Date: 6/27/2013

Work Order: 1307039
Lab ID: 1307039-12
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/5/2013 17:19
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/5/2013 17:19
o-Xylene	U		0.00030	0.0010	mg/L	1	7/5/2013 17:19
Styrene	U		0.00030	0.0010	mg/L	1	7/5/2013 17:19
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 17:19
Toluene	U		0.00030	0.0010	mg/L	1	7/5/2013 17:19
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/5/2013 17:19
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 17:19
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/5/2013 17:19
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 17:19
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/5/2013 17:19
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/5/2013 17:19
Surr: 1,2-Dichloroethane-d4	*106*			*70-125*	*%REC*	1	7/5/2013 17:19
Surr: 4-Bromofluorobenzene	*101*			*72-125*	*%REC*	1	7/5/2013 17:19
Surr: Dibromofluoromethane	*113*			*71-125*	*%REC*	1	7/5/2013 17:19
Surr: Toluene-d8	*120*			*75-125*	*%REC*	1	7/5/2013 17:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: p-62
Collection Date: 6/28/2013 10:20 AM

Work Order: 1307039
Lab ID: 1307039-13
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 17:45
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/5/2013 17:45
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/5/2013 17:45
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/5/2013 17:45
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/5/2013 17:45
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/5/2013 17:45
1,2-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/5/2013 17:45
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45
2-Butanone	U		0.00040	0.0020	mg/L	1	7/5/2013 17:45
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/5/2013 17:45
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/5/2013 17:45
Acetone	**0.013**		**0.0010**	**0.0020**	**mg/L**	1	7/5/2013 17:45
Benzene	U		0.00020	0.0010	mg/L	1	7/5/2013 17:45
Bromodichloromethane	**0.0030**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 17:45
Bromoform	U		0.00040	0.0010	mg/L	1	7/5/2013 17:45
Bromomethane	U		0.0010	0.0010	mg/L	1	7/5/2013 17:45
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/5/2013 17:45
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/5/2013 17:45
Chloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 17:45
Chloroform	**0.021**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 17:45
Chloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 17:45
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 17:45
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/5/2013 17:45
Dibromochloromethane	**0.00061**	J	**0.00040**	**0.0010**	**mg/L**	1	7/5/2013 17:45
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45
Dichloromethane	**0.00077**	J	**0.00050**	**0.010**	**mg/L**	1	7/5/2013 17:45
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/5/2013 17:45
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: p-62
Collection Date: 6/28/2013 10:20 AM

Work Order: 1307039
Lab ID: 1307039-13
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/5/2013 17:45
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/5/2013 17:45
o-Xylene	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45
Styrene	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 17:45
Toluene	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/5/2013 17:45
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 17:45
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/5/2013 17:45
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 17:45
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/5/2013 17:45
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/5/2013 17:45
Surr: 1,2-Dichloroethane-d4	*116*			*70-125*	*%REC*	1	7/5/2013 17:45
Surr: 4-Bromofluorobenzene	*103*			*72-125*	*%REC*	1	7/5/2013 17:45
Surr: Dibromofluoromethane	*114*			*71-125*	*%REC*	1	7/5/2013 17:45
Surr: Toluene-d8	*121*			*75-125*	*%REC*	1	7/5/2013 17:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: p-61
Collection Date: 6/28/2013 11:10 AM

Work Order: 1307039
Lab ID: 1307039-14
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 18:10
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/5/2013 18:10
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/5/2013 18:10
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/5/2013 18:10
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/5/2013 18:10
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/5/2013 18:10
1,2-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/5/2013 18:10
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
2-Butanone	U		0.00040	0.0020	mg/L	1	7/5/2013 18:10
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/5/2013 18:10
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/5/2013 18:10
Acetone	U		0.0010	0.0020	mg/L	1	7/5/2013 18:10
Benzene	U		0.00020	0.0010	mg/L	1	7/5/2013 18:10
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
Bromoform	U		0.00040	0.0010	mg/L	1	7/5/2013 18:10
Bromomethane	U		0.0010	0.0010	mg/L	1	7/5/2013 18:10
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/5/2013 18:10
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/5/2013 18:10
Chloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 18:10
Chloroform	**0.031**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 18:10
Chloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 18:10
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 18:10
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/5/2013 18:10
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 18:10
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
Dichloromethane	U		0.00050	0.010	mg/L	1	7/5/2013 18:10
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/5/2013 18:10
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: p-61
Collection Date: 6/28/2013 11:10 AM

Work Order: 1307039
Lab ID: 1307039-14
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/5/2013 18:10
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/5/2013 18:10
o-Xylene	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
Styrene	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 18:10
Toluene	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/5/2013 18:10
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 18:10
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/5/2013 18:10
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 18:10
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/5/2013 18:10
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/5/2013 18:10
Surr: 1,2-Dichloroethane-d4	*117*			*70-125*	*%REC*	1	7/5/2013 18:10
Surr: 4-Bromofluorobenzene	*100*			*72-125*	*%REC*	1	7/5/2013 18:10
Surr: Dibromofluoromethane	*113*			*71-125*	*%REC*	1	7/5/2013 18:10
Surr: Toluene-d8	*120*			*75-125*	*%REC*	1	7/5/2013 18:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: p-68
Collection Date: 6/28/2013 12:40 PM

Work Order: 1307039
Lab ID: 1307039-15
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 18:35
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 18:35
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/5/2013 18:35
1,1,2-Trichloroethane	**0.0013**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 18:35
1,1-Dichloroethane	**0.032**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 18:35
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/5/2013 18:35
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/5/2013 18:35
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/5/2013 18:35
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/5/2013 18:35
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/5/2013 18:35
1,2-Dichloroethane	**0.0050**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 18:35
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/5/2013 18:35
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 18:35
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 18:35
2-Butanone	U		0.00040	0.0020	mg/L	1	7/5/2013 18:35
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/5/2013 18:35
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/5/2013 18:35
Acetone	**0.0094**		**0.0010**	**0.0020**	**mg/L**	1	7/5/2013 18:35
Benzene	U		0.00020	0.0010	mg/L	1	7/5/2013 18:35
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 18:35
Bromoform	U		0.00040	0.0010	mg/L	1	7/5/2013 18:35
Bromomethane	U		0.0010	0.0010	mg/L	1	7/5/2013 18:35
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/5/2013 18:35
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/5/2013 18:35
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/5/2013 18:35
Chloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 18:35
Chloroform	**0.027**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 18:35
Chloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 18:35
cis-1,2-Dichloroethene	**0.011**		**0.00040**	**0.0010**	**mg/L**	1	7/5/2013 18:35
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 18:35
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/5/2013 18:35
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 18:35
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 18:35
Dichloromethane	U		0.00050	0.010	mg/L	1	7/5/2013 18:35
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 18:35
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 18:35
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/5/2013 18:35
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/5/2013 18:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: p-68
Collection Date: 6/28/2013 12:40 PM

Work Order: 1307039
Lab ID: 1307039-15
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/5/2013 18:35
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/5/2013 18:35
o-Xylene	U		0.00030	0.0010	mg/L	1	7/5/2013 18:35
Styrene	U		0.00030	0.0010	mg/L	1	7/5/2013 18:35
Tetrachloroethene	**0.0014**		**0.00040**	**0.0010**	**mg/L**	1	7/5/2013 18:35
Toluene	U		0.00030	0.0010	mg/L	1	7/5/2013 18:35
trans-1,2-Dichloroethene	**0.0011**		**0.00030**	**0.0010**	**mg/L**	1	7/5/2013 18:35
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 18:35
Trichloroethene	**0.018**		**0.00020**	**0.0010**	**mg/L**	1	7/5/2013 18:35
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 18:35
Vinyl chloride	**0.00078**	J	**0.00040**	**0.0010**	**mg/L**	1	7/5/2013 18:35
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/5/2013 18:35
Surr: 1,2-Dichloroethane-d4	*113*			*70-125*	*%REC*	1	7/5/2013 18:35
Surr: 4-Bromofluorobenzene	*101*			*72-125*	*%REC*	1	7/5/2013 18:35
Surr: Dibromofluoromethane	*102*			*71-125*	*%REC*	1	7/5/2013 18:35
Surr: Toluene-d8	*119*			*75-125*	*%REC*	1	7/5/2013 18:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: FB-02
Collection Date: 6/28/2013 01:00 PM

Work Order: 1307039
Lab ID: 1307039-16
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 19:00
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/5/2013 19:00
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/5/2013 19:00
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/5/2013 19:00
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/5/2013 19:00
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/5/2013 19:00
1,2-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/5/2013 19:00
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
2-Butanone	U		0.00040	0.0020	mg/L	1	7/5/2013 19:00
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/5/2013 19:00
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/5/2013 19:00
Acetone	**0.0069**		**0.0010**	**0.0020**	**mg/L**	1	7/5/2013 19:00
Benzene	U		0.00020	0.0010	mg/L	1	7/5/2013 19:00
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
Bromoform	U		0.00040	0.0010	mg/L	1	7/5/2013 19:00
Bromomethane	U		0.0010	0.0010	mg/L	1	7/5/2013 19:00
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/5/2013 19:00
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/5/2013 19:00
Chloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 19:00
Chloroform	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
Chloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 19:00
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 19:00
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/5/2013 19:00
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 19:00
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
Dichloromethane	U		0.00050	0.010	mg/L	1	7/5/2013 19:00
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/5/2013 19:00
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: FB-02
Collection Date: 6/28/2013 01:00 PM

Work Order: 1307039
Lab ID: 1307039-16
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/5/2013 19:00
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/5/2013 19:00
o-Xylene	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
Styrene	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 19:00
Toluene	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/5/2013 19:00
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 19:00
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/5/2013 19:00
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 19:00
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/5/2013 19:00
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/5/2013 19:00
Surr: 1,2-Dichloroethane-d4	*114*			*70-125*	*%REC*	1	7/5/2013 19:00
Surr: 4-Bromofluorobenzene	*101*			*72-125*	*%REC*	1	7/5/2013 19:00
Surr: Dibromofluoromethane	*113*			*71-125*	*%REC*	1	7/5/2013 19:00
Surr: Toluene-d8	*120*			*75-125*	*%REC*	1	7/5/2013 19:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: p-66
Collection Date: 6/28/2013 01:55 PM

Work Order: 1307039
Lab ID: 1307039-17
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/6/2013 02:21
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/6/2013 02:21
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/6/2013 02:21
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/6/2013 02:21
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/6/2013 02:21
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/6/2013 02:21
1,2-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/6/2013 02:21
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
2-Butanone	U		0.00040	0.0020	mg/L	1	7/6/2013 02:21
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/6/2013 02:21
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/6/2013 02:21
Acetone	**0.0092**		**0.0010**	**0.0020**	**mg/L**	1	7/6/2013 02:21
Benzene	U		0.00020	0.0010	mg/L	1	7/6/2013 02:21
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
Bromoform	U		0.00040	0.0010	mg/L	1	7/6/2013 02:21
Bromomethane	U		0.0010	0.0010	mg/L	1	7/6/2013 02:21
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/6/2013 02:21
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/6/2013 02:21
Chloroethane	U		0.00050	0.0010	mg/L	1	7/6/2013 02:21
Chloroform	**0.010**		**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 02:21
Chloromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/6/2013 02:21
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/6/2013 02:21
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/6/2013 02:21
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/6/2013 02:21
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
Dichloromethane	U		0.00050	0.010	mg/L	1	7/6/2013 02:21
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/6/2013 02:21
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: p-66
Collection Date: 6/28/2013 01:55 PM

Work Order: 1307039
Lab ID: 1307039-17
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/6/2013 02:21
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/6/2013 02:21
o-Xylene	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
Styrene	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/6/2013 02:21
Toluene	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/6/2013 02:21
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/6/2013 02:21
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/6/2013 02:21
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/6/2013 02:21
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/6/2013 02:21
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/6/2013 02:21
Surr: 1,2-Dichloroethane-d4	*112*			*70-125*	*%REC*	1	7/6/2013 02:21
Surr: 4-Bromofluorobenzene	*99.8*			*72-125*	*%REC*	1	7/6/2013 02:21
Surr: Dibromofluoromethane	*106*			*71-125*	*%REC*	1	7/6/2013 02:21
Surr: Toluene-d8	*119*			*75-125*	*%REC*	1	7/6/2013 02:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: p-65
Collection Date: 6/28/2013 02:40 PM

Work Order: 1307039
Lab ID: 1307039-18
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/6/2013 02:46
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/6/2013 02:46
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/6/2013 02:46
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/6/2013 02:46
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/6/2013 02:46
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/6/2013 02:46
1,2-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/6/2013 02:46
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
2-Butanone	U		0.00040	0.0020	mg/L	1	7/6/2013 02:46
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/6/2013 02:46
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/6/2013 02:46
Acetone	**0.0065**		**0.0010**	**0.0020**	**mg/L**	1	7/6/2013 02:46
Benzene	U		0.00020	0.0010	mg/L	1	7/6/2013 02:46
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
Bromoform	U		0.00040	0.0010	mg/L	1	7/6/2013 02:46
Bromomethane	U		0.0010	0.0010	mg/L	1	7/6/2013 02:46
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/6/2013 02:46
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/6/2013 02:46
Chloroethane	U		0.00050	0.0010	mg/L	1	7/6/2013 02:46
Chloroform	**0.0016**		**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 02:46
Chloromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/6/2013 02:46
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/6/2013 02:46
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/6/2013 02:46
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/6/2013 02:46
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
Dichloromethane	U		0.00050	0.010	mg/L	1	7/6/2013 02:46
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/6/2013 02:46
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: p-65
Collection Date: 6/28/2013 02:40 PM

Work Order: 1307039
Lab ID: 1307039-18
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/6/2013 02:46
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/6/2013 02:46
o-Xylene	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
Styrene	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/6/2013 02:46
Toluene	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/6/2013 02:46
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/6/2013 02:46
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/6/2013 02:46
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/6/2013 02:46
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/6/2013 02:46
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/6/2013 02:46
Surr: 1,2-Dichloroethane-d4	*109*			*70-125*	*%REC*	1	7/6/2013 02:46
Surr: 4-Bromofluorobenzene	*102*			*72-125*	*%REC*	1	7/6/2013 02:46
Surr: Dibromofluoromethane	*109*			*71-125*	*%REC*	1	7/6/2013 02:46
Surr: Toluene-d8	*122*			*75-125*	*%REC*	1	7/6/2013 02:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: p-64
Collection Date: 6/28/2013 03:20 PM

Work Order: 1307039
Lab ID: 1307039-19
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/6/2013 03:10
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/6/2013 03:10
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/6/2013 03:10
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/6/2013 03:10
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/6/2013 03:10
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/6/2013 03:10
1,2-Dichloroethane	**0.00061**	J	**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 03:10
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/6/2013 03:10
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10
2-Butanone	U		0.00040	0.0020	mg/L	1	7/6/2013 03:10
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/6/2013 03:10
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/6/2013 03:10
Acetone	U		0.0010	0.0020	mg/L	1	7/6/2013 03:10
Benzene	U		0.00020	0.0010	mg/L	1	7/6/2013 03:10
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10
Bromoform	U		0.00040	0.0010	mg/L	1	7/6/2013 03:10
Bromomethane	U		0.0010	0.0010	mg/L	1	7/6/2013 03:10
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/6/2013 03:10
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/6/2013 03:10
Chloroethane	U		0.00050	0.0010	mg/L	1	7/6/2013 03:10
Chloroform	**0.019**		**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 03:10
Chloromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/6/2013 03:10
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/6/2013 03:10
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/6/2013 03:10
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/6/2013 03:10
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10
Dichloromethane	U		0.00050	0.010	mg/L	1	7/6/2013 03:10
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/6/2013 03:10
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: p-64
Collection Date: 6/28/2013 03:20 PM

Work Order: 1307039
Lab ID: 1307039-19
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/6/2013 03:10
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/6/2013 03:10
o-Xylene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10
Styrene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/6/2013 03:10
Toluene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:10
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/6/2013 03:10
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/6/2013 03:10
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/6/2013 03:10
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/6/2013 03:10
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/6/2013 03:10
Surr: 1,2-Dichloroethane-d4	*113*			*70-125*	*%REC*	1	7/6/2013 03:10
Surr: 4-Bromofluorobenzene	*103*			*72-125*	*%REC*	1	7/6/2013 03:10
Surr: Dibromofluoromethane	*111*			*71-125*	*%REC*	1	7/6/2013 03:10
Surr: Toluene-d8	*124*			*75-125*	*%REC*	1	7/6/2013 03:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: p-63
Collection Date: 6/28/2013 04:10 PM

Work Order: 1307039
Lab ID: 1307039-20
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/6/2013 03:35
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/6/2013 03:35
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/6/2013 03:35
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/6/2013 03:35
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/6/2013 03:35
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/6/2013 03:35
1,2-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/6/2013 03:35
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
2-Butanone	U		0.00040	0.0020	mg/L	1	7/6/2013 03:35
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/6/2013 03:35
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/6/2013 03:35
Acetone	**0.0084**		**0.0010**	**0.0020**	**mg/L**	1	7/6/2013 03:35
Benzene	U		0.00020	0.0010	mg/L	1	7/6/2013 03:35
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
Bromoform	U		0.00040	0.0010	mg/L	1	7/6/2013 03:35
Bromomethane	U		0.0010	0.0010	mg/L	1	7/6/2013 03:35
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/6/2013 03:35
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/6/2013 03:35
Chloroethane	U		0.00050	0.0010	mg/L	1	7/6/2013 03:35
Chloroform	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
Chloromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/6/2013 03:35
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/6/2013 03:35
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/6/2013 03:35
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/6/2013 03:35
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
Dichloromethane	U		0.00050	0.010	mg/L	1	7/6/2013 03:35
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/6/2013 03:35
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: p-63
Collection Date: 6/28/2013 04:10 PM

Work Order: 1307039
Lab ID: 1307039-20
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/6/2013 03:35
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/6/2013 03:35
o-Xylene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
Styrene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/6/2013 03:35
Toluene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:35
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/6/2013 03:35
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/6/2013 03:35
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/6/2013 03:35
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/6/2013 03:35
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/6/2013 03:35
Surr: 1,2-Dichloroethane-d4	*114*			*70-125*	*%REC*	1	7/6/2013 03:35
Surr: 4-Bromofluorobenzene	*98.9*			*72-125*	*%REC*	1	7/6/2013 03:35
Surr: Dibromofluoromethane	*116*			*71-125*	*%REC*	1	7/6/2013 03:35
Surr: Toluene-d8	*122*			*75-125*	*%REC*	1	7/6/2013 03:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: Dup-02
Collection Date: 6/28/2013

Work Order: 1307039
Lab ID: 1307039-21
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:59
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/6/2013 03:59
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/6/2013 03:59
1,1,2-Trichloroethane	**0.0013**		**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 03:59
1,1-Dichloroethane	**0.030**		**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 03:59
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/6/2013 03:59
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/6/2013 03:59
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/6/2013 03:59
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:59
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/6/2013 03:59
1,2-Dichloroethane	**0.0049**		**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 03:59
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/6/2013 03:59
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:59
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:59
2-Butanone	U		0.00040	0.0020	mg/L	1	7/6/2013 03:59
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/6/2013 03:59
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/6/2013 03:59
Acetone	**0.010**		**0.0010**	**0.0020**	**mg/L**	1	7/6/2013 03:59
Benzene	U		0.00020	0.0010	mg/L	1	7/6/2013 03:59
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:59
Bromoform	U		0.00040	0.0010	mg/L	1	7/6/2013 03:59
Bromomethane	U		0.0010	0.0010	mg/L	1	7/6/2013 03:59
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/6/2013 03:59
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/6/2013 03:59
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/6/2013 03:59
Chloroethane	U		0.00050	0.0010	mg/L	1	7/6/2013 03:59
Chloroform	**0.027**		**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 03:59
Chloromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:59
cis-1,2-Dichloroethene	**0.011**		**0.00040**	**0.0010**	**mg/L**	1	7/6/2013 03:59
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/6/2013 03:59
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/6/2013 03:59
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/6/2013 03:59
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/6/2013 03:59
Dichloromethane	**0.00066**	J	**0.00050**	**0.010**	**mg/L**	1	7/6/2013 03:59
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:59
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:59
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/6/2013 03:59
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/6/2013 03:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: Dup-02
Collection Date: 6/28/2013

Work Order: 1307039
Lab ID: 1307039-21
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/6/2013 03:59
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/6/2013 03:59
o-Xylene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:59
Styrene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:59
Tetrachloroethene	**0.0013**		**0.00040**	**0.0010**	**mg/L**	1	7/6/2013 03:59
Toluene	U		0.00030	0.0010	mg/L	1	7/6/2013 03:59
trans-1,2-Dichloroethene	**0.00097**	J	**0.00030**	**0.0010**	**mg/L**	1	7/6/2013 03:59
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/6/2013 03:59
Trichloroethene	**0.017**		**0.00020**	**0.0010**	**mg/L**	1	7/6/2013 03:59
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/6/2013 03:59
Vinyl chloride	**0.00067**	J	**0.00040**	**0.0010**	**mg/L**	1	7/6/2013 03:59
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/6/2013 03:59
Surr: 1,2-Dichloroethane-d4	*111*			*70-125*	*%REC*	1	7/6/2013 03:59
Surr: 4-Bromofluorobenzene	*103*			*72-125*	*%REC*	1	7/6/2013 03:59
Surr: Dibromofluoromethane	*109*			*71-125*	*%REC*	1	7/6/2013 03:59
Surr: Toluene-d8	*121*			*75-125*	*%REC*	1	7/6/2013 03:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: Trip Blank - 061813-93
Collection Date: 6/27/2013

Work Order: 1307039
Lab ID: 1307039-22
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILES - SW8260C		Method: **SW8260**					Analyst: **AKP**
1,1,1-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 23:05
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00040	0.0010	mg/L	1	7/5/2013 23:05
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
1,1-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
1,1-Dichloroethene	U		0.00050	0.0010	mg/L	1	7/5/2013 23:05
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	7/5/2013 23:05
1,2-Dibromo-3-chloropropane	U		0.00050	0.0010	mg/L	1	7/5/2013 23:05
1,2-Dibromoethane	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
1,2-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	7/5/2013 23:05
1,2-Dichloroethane	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
1,2-Dichloropropane	U		0.00040	0.0010	mg/L	1	7/5/2013 23:05
1,3-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
1,4-Dichlorobenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
2-Butanone	U		0.00040	0.0020	mg/L	1	7/5/2013 23:05
2-Hexanone	U		0.00080	0.0020	mg/L	1	7/5/2013 23:05
4-Methyl-2-pentanone	U		0.00060	0.0020	mg/L	1	7/5/2013 23:05
Acetone	U		0.0010	0.0020	mg/L	1	7/5/2013 23:05
Benzene	U		0.00020	0.0010	mg/L	1	7/5/2013 23:05
Bromodichloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
Bromoform	U		0.00040	0.0010	mg/L	1	7/5/2013 23:05
Bromomethane	U		0.0010	0.0010	mg/L	1	7/5/2013 23:05
Carbon disulfide	U		0.00070	0.0020	mg/L	1	7/5/2013 23:05
Carbon tetrachloride	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
Chlorobenzene	U		0.00020	0.0010	mg/L	1	7/5/2013 23:05
Chloroethane	U		0.00050	0.0010	mg/L	1	7/5/2013 23:05
Chloroform	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
Chloromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
cis-1,2-Dichloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 23:05
cis-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 23:05
Cyclohexane	U	n	0.00050	0.0010	mg/L	1	7/5/2013 23:05
Dibromochloromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 23:05
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
Dichloromethane	U		0.00050	0.010	mg/L	1	7/5/2013 23:05
Ethylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
m,p-Xylene	U		0.00060	0.0020	mg/L	1	7/5/2013 23:05
Methyl acetate	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *08-Jul-13*

Client: Tetra Tech
Project: Formosa Supplemental AOC 2013
Sample ID: Trip Blank - 061813-93
Collection Date: 6/27/2013

Work Order: 1307039
Lab ID: 1307039-22
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	7/5/2013 23:05
Methylcyclohexane	U		0.00040	0.0010	mg/L	1	7/5/2013 23:05
o-Xylene	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
Styrene	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
Tetrachloroethene	U		0.00040	0.0010	mg/L	1	7/5/2013 23:05
Toluene	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
trans-1,2-Dichloroethene	U		0.00030	0.0010	mg/L	1	7/5/2013 23:05
trans-1,3-Dichloropropene	U		0.00040	0.0010	mg/L	1	7/5/2013 23:05
Trichloroethene	U		0.00020	0.0010	mg/L	1	7/5/2013 23:05
Trichlorofluoromethane	U		0.00040	0.0010	mg/L	1	7/5/2013 23:05
Vinyl chloride	U		0.00040	0.0010	mg/L	1	7/5/2013 23:05
Xylenes, Total	U		0.00090	0.0030	mg/L	1	7/5/2013 23:05
Surr: 1,2-Dichloroethane-d4	*110*			*70-125*	*%REC*	1	7/5/2013 23:05
Surr: 4-Bromofluorobenzene	*99.1*			*72-125*	*%REC*	1	7/5/2013 23:05
Surr: Dibromofluoromethane	*114*			*71-125*	*%REC*	1	7/5/2013 23:05
Surr: Toluene-d8	*121*			*75-125*	*%REC*	1	7/5/2013 23:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Work Order: 1307039
Client: Tetra Tech
Project: Formosa Supplemental AOC 2013

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID R150056	**Test Name:** TCL Volatiles - SW8260C					
1307039-01A	B-3	Water	6/27/2013 10:25:00 AM			7/5/2013 11:05 AM
1307039-02A	B-1		6/27/2013 11:25:00 AM			7/5/2013 02:24 PM
1307039-03A	d-45		6/27/2013 12:05:00 PM			7/5/2013 11:30 AM
1307039-04A	d-46		6/27/2013 1:00:00 PM			7/5/2013 11:55 AM
1307039-06A	B-7		6/27/2013 2:10:00 PM			7/5/2013 04:55 PM
1307039-07A	B-8		6/27/2013 3:15:00 PM			7/5/2013 03:14 PM
1307039-08A	d-47		6/27/2013 4:05:00 PM			7/5/2013 03:39 PM
1307039-09A	B-4		6/27/2013 5:05:00 PM			7/5/2013 04:05 PM
1307039-10A	B-2		6/27/2013 5:35:00 PM			7/5/2013 04:30 PM
1307039-12A	Dup-01		6/27/2013			7/5/2013 05:19 PM
1307039-13A	p-62		6/28/2013 10:20:00 AM			7/5/2013 05:45 PM
1307039-14A	p-61		6/28/2013 11:10:00 AM			7/5/2013 06:10 PM
1307039-15A	p-68		6/28/2013 12:40:00 PM			7/5/2013 06:35 PM
1307039-16A	FB-02		6/28/2013 1:00:00 PM			7/5/2013 07:00 PM
Batch ID R150105	**Test Name:** TCL Volatiles - SW8260C					
1307039-02A	B-1	Water	6/27/2013 11:25:00 AM			7/6/2013 07:37 AM
1307039-05A	FB-01		6/27/2013 1:20:00 PM			7/5/2013 10:40 PM
1307039-11A	B-6		6/27/2013 6:20:00 PM			7/6/2013 01:57 AM
1307039-17A	p-66		6/28/2013 1:55:00 PM			7/6/2013 02:21 AM
1307039-18A	p-65		6/28/2013 2:40:00 PM			7/6/2013 02:46 AM
1307039-19A	p-64		6/28/2013 3:20:00 PM			7/6/2013 03:10 AM
1307039-20A	p-63		6/28/2013 4:10:00 PM			7/6/2013 03:35 AM
1307039-21A	Dup-02		6/28/2013			7/6/2013 03:59 AM
1307039-22A	Trip Blank - 061813-93		6/27/2013			7/5/2013 11:05 PM

ALS Environmental

Date: 08-Jul-13

WorkOrder: 1307039
InstrumentID: VOA4
Test Code: 8260_TCL4.3 LL W
Test Number: SW8260
Test Name: TCL Volatiles - SW8260C

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	Unadjusted MQL
A	1,1,1-Trichloroethane	71-55-6	0.00050	0.00046	0.00030	0.0010
A	1,1,2,2-Tetrachloroethane	79-34-5	0.00050	0.00054	0.00050	0.0010
A	1,1,2-Trichlor-1,2,2-trifluoroethane	76-13-1	0.0010	0.00040	0.00040	0.0010
A	1,1,2-Trichloroethane	79-00-5	0.00050	0.00046	0.00030	0.0010
A	1,1-Dichloroethane	75-34-3	0.00050	0.00049	0.00030	0.0010
A	1,1-Dichloroethene	75-35-4	0.00050	0.00049	0.00050	0.0010
A	1,2,4-Trichlorobenzene	120-82-1	0.00050	0.0026	0.00050	0.0010
A	1,2-Dibromo-3-chloropropane	96-12-8	0.0010	0.0018	0.00050	0.0010
A	1,2-Dibromoethane	106-93-4	0.00050	0.00051	0.00030	0.0010
A	1,2-Dichlorobenzene	95-50-1	0.00050	0.00049	0.00040	0.0010
A	1,2-Dichloroethane	107-06-2	0.00050	0.00051	0.00030	0.0010
A	1,2-Dichloropropane	78-87-5	0.00050	0.00050	0.00040	0.0010
A	1,3-Dichlorobenzene	541-73-1	0.00050	0.00051	0.00030	0.0010
A	1,4-Dichlorobenzene	106-46-7	0.00050	0.00057	0.00030	0.0010
A	2-Butanone	78-93-3	0.0010	0.00098	0.00040	0.0020
A	2-Hexanone	591-78-6	0.0010	0.00084	0.00080	0.0020
A	4-Methyl-2-pentanone	108-10-1	0.0010	0.00093	0.00060	0.0020
A	Acetone	67-64-1	0.0010	0.000099	0.0010	0.0020
A	Benzene	71-43-2	0.00050	0.00052	0.00020	0.0010
A	Bromodichloromethane	75-27-4	0.00050	0.00050	0.00030	0.0010
A	Bromoform	75-25-2	0.00050	0.00049	0.00040	0.0010
A	Bromomethane	74-83-9	0.00050	0.00049	0.0010	0.0010
A	Carbon disulfide	75-15-0	0.0010	0.0011	0.00070	0.0020
A	Carbon tetrachloride	56-23-5	0.0010	0.0010	0.00030	0.0010
A	Chlorobenzene	108-90-7	0.00050	0.00053	0.00020	0.0010
A	Chloroethane	75-00-3	0.00050	0.00069	0.00050	0.0010
A	Chloroform	67-66-3	0.00050	0.00052	0.00030	0.0010
A	Chloromethane	74-87-3	0.00050	0.00046	0.00030	0.0010
A	cis-1,2-Dichloroethene	156-59-2	0.00050	0.00051	0.00040	0.0010
A	cis-1,3-Dichloropropene	10061-01-5	0.00050	0.00046	0.00040	0.0010
A	Cyclohexane	110-82-7	0.0010	0.00045	0.00050	0.0010
A	Dibromochloromethane	124-48-1	0.00050	0.00045	0.00040	0.0010

A	Dichlorodifluoromethane	75-71-8	0.00050	0.00037	0.00030	0.0010
A	Dichloromethane	75-09-2	0.00050	0.00046	0.00050	0.010
A	Ethylbenzene	100-41-4	0.00050	0.00046	0.00030	0.0010
A	Isopropylbenzene	98-82-8	0.00050	0.00045	0.00030	0.0010
A	m,p-Xylene	179601-23-1	0.0010	0.00099	0.00060	0.0020
A	Methyl acetate	79-20-9	0.00050	0.00057	0.00030	0.0010
A	Methyl tert-butyl ether	1634-04-4	0.0010	0.00050	0.00020	0.0010
A	Methylcyclohexane	108-87-2	0.0010	0.00045	0.00040	0.0010
A	o-Xylene	95-47-6	0.00050	0.00050	0.00030	0.0010
A	Styrene	100-42-5	0.00050	0.00048	0.00030	0.0010
A	Tetrachloroethene	127-18-4	0.00050	0.00048	0.00040	0.0010
A	Toluene	108-88-3	0.00050	0.00050	0.00030	0.0010
A	trans-1,2-Dichloroethene	156-60-5	0.00050	0.00051	0.00030	0.0010
A	trans-1,3-Dichloropropene	10061-02-6	0.00050	0.00038	0.00040	0.0010
A	Trichloroethene	79-01-6	0.00050	0.00047	0.00020	0.0010
A	Trichlorofluoromethane	75-69-4	0.00050	0.00045	0.00040	0.0010
A	Vinyl chloride	75-01-4	0.00050	0.00044	0.00040	0.0010
M	Xylenes, Total	1330-20-7	0.0015	0.0015	0.00090	0.0030
S	Surr: 1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	Surr: 4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Surr: Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Surr: Toluene-d8	2037-26-5	0	0	0	0.0010