18-Mar-2015

Kevin Scott
TETRATECH-CHICAGO
1 South Wacker Drive
37th Floor
Chicago, IL 60606

Tel: (312) 201-7479
Fax: (312) 201-0031

Re: ACME Galv. Inc.; Project No.: 103X9026 Work Order: **1503417**

Dear Kevin,

ALS Environmental received 4 samples on 17-Mar-2015 09:02 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.

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

The total number of pages in this report is 27.

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

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ALS Environmental

Date: 18-Mar-15

Client: TETRATECH-CHICAGO
Project: ACME Galv. Inc.; Project No.: 103X9026
Work Order: **1503417**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1503417-01	588-1	Air		3/16/2015 12:00	3/17/2015 09:02	☐
1503417-02	162-2	Air		3/16/2015 12:00	3/17/2015 09:02	☐
1503417-03	183-3	Air		3/16/2015 12:00	3/17/2015 09:02	☐
1503417-04	LIQ-1	Water		3/16/2015 12:00	3/17/2015 09:02	☐

ALS Environmental

Date: 18-Mar-15

Client: TETRATECH-CHICAGO
Project: ACME Galv. Inc.; Project No.: 103X9026
Work Order: 1503417

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

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

ALS Environmental

Date: *18-Mar-15*

Client: TETRATECH-CHICAGO
Project: ACME Galv. Inc.; Project No.: 103X9026 **Work Order:** 1503417
Sample ID: 588-1 **Lab ID:** 1503417-01
Collection Date: 3/16/2015 12:00 PM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,1,2-Trichloroethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,1-Dichloroethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,1-Dichloroethene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,2,4-Trimethylbenzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,2-Dibromoethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,2-Dichloroethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,2-Dichloropropane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,3-Butadiene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,4-Dichlorobenzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,4-Dioxane	ND		1.0	ppbv	1	3/17/2015 04:23 PM
2-Butanone	ND		0.50	ppbv	1	3/17/2015 04:23 PM
2-Hexanone	ND		0.50	ppbv	1	3/17/2015 04:23 PM
2-Propanol	**2.9**		**1.0**	**ppbv**	1	3/17/2015 04:23 PM
4-Ethyltoluene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
4-Methyl-2-pentanone	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Acetone	**12**		**1.0**	**ppbv**	1	3/17/2015 04:23 PM
Benzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Benzyl chloride	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Bromodichloromethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Bromoform	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Bromomethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Carbon disulfide	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Carbon tetrachloride	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Chlorobenzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Chloroethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Chloroform	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Chloromethane	**0.67**		**0.50**	**ppbv**	1	3/17/2015 04:23 PM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Cumene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Cyclohexane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Dibromochloromethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Dichlorodifluoromethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM

Note:

ALS Environmental

Date: *18-Mar-15*

Client: TETRATECH-CHICAGO
Project: ACME Galv. Inc.; Project No.: 103X9026 **Work Order:** 1503417
Sample ID: 588-1 **Lab ID:** 1503417-01
Collection Date: 3/16/2015 12:00 PM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Ethylbenzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Freon 113	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Freon 114	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Heptane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Hexachlorobutadiene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Hexane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
m,p-Xylene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Methylene chloride	ND		0.50	ppbv	1	3/17/2015 04:23 PM
MTBE	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Naphthalene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
o-Xylene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Propene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Styrene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Tetrachloroethene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Tetrahydrofuran	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Toluene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Trichloroethene	ND		0.20	ppbv	1	3/17/2015 04:23 PM
Trichlorofluoromethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Vinyl acetate	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Vinyl chloride	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Surr: Bromofluorobenzene	*97.7*		*60-140*	*%REC*	1	3/17/2015 04:23 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		2.7	µg/m3	1	3/17/2015 04:23 PM
1,1,2,2-Tetrachloroethane	ND		3.4	µg/m3	1	3/17/2015 04:23 PM
1,1,2-Trichloroethane	ND		2.7	µg/m3	1	3/17/2015 04:23 PM
1,1-Dichloroethane	ND		2.0	µg/m3	1	3/17/2015 04:23 PM
1,1-Dichloroethene	ND		2.0	µg/m3	1	3/17/2015 04:23 PM
1,2,4-Trichlorobenzene	ND		3.7	µg/m3	1	3/17/2015 04:23 PM
1,2,4-Trimethylbenzene	ND		2.5	µg/m3	1	3/17/2015 04:23 PM
1,2-Dibromoethane	ND		3.8	µg/m3	1	3/17/2015 04:23 PM
1,2-Dichlorobenzene	ND		3.0	µg/m3	1	3/17/2015 04:23 PM
1,2-Dichloroethane	ND		2.0	µg/m3	1	3/17/2015 04:23 PM
1,2-Dichloropropane	ND		2.3	µg/m3	1	3/17/2015 04:23 PM
1,3,5-Trimethylbenzene	ND		2.5	µg/m3	1	3/17/2015 04:23 PM
1,3-Butadiene	ND		1.1	µg/m3	1	3/17/2015 04:23 PM
1,3-Dichlorobenzene	ND		3.0	µg/m3	1	3/17/2015 04:23 PM
1,4-Dichlorobenzene	ND		3.0	µg/m3	1	3/17/2015 04:23 PM

Note:

ALS Environmental

Date: *18-Mar-15*

Client: TETRATECH-CHICAGO
Project: ACME Galv. Inc.; Project No.: 103X9026 **Work Order:** 1503417
Sample ID: 588-1 **Lab ID:** 1503417-01
Collection Date: 3/16/2015 12:00 PM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		3.6	µg/m3	1	3/17/2015 04:23 PM
2-Butanone	ND		1.5	µg/m3	1	3/17/2015 04:23 PM
2-Hexanone	ND		2.0	µg/m3	1	3/17/2015 04:23 PM
2-Propanol	**7.1**		**2.5**	**µg/m3**	1	3/17/2015 04:23 PM
4-Ethyltoluene	ND		2.5	µg/m3	1	3/17/2015 04:23 PM
4-Methyl-2-pentanone	ND		2.0	µg/m3	1	3/17/2015 04:23 PM
Acetone	**29**		**2.4**	**µg/m3**	1	3/17/2015 04:23 PM
Benzene	ND		1.6	µg/m3	1	3/17/2015 04:23 PM
Benzyl chloride	ND		2.6	µg/m3	1	3/17/2015 04:23 PM
Bromodichloromethane	ND		3.4	µg/m3	1	3/17/2015 04:23 PM
Bromoform	ND		5.2	µg/m3	1	3/17/2015 04:23 PM
Bromomethane	ND		1.9	µg/m3	1	3/17/2015 04:23 PM
Carbon disulfide	ND		1.6	µg/m3	1	3/17/2015 04:23 PM
Carbon tetrachloride	ND		3.1	µg/m3	1	3/17/2015 04:23 PM
Chlorobenzene	ND		2.3	µg/m3	1	3/17/2015 04:23 PM
Chloroethane	ND		1.3	µg/m3	1	3/17/2015 04:23 PM
Chloroform	ND		2.4	µg/m3	1	3/17/2015 04:23 PM
Chloromethane	**1.4**		**1.0**	**µg/m3**	1	3/17/2015 04:23 PM
cis-1,2-Dichloroethene	ND		2.0	µg/m3	1	3/17/2015 04:23 PM
cis-1,3-Dichloropropene	ND		2.3	µg/m3	1	3/17/2015 04:23 PM
Cumene	ND		2.5	µg/m3	1	3/17/2015 04:23 PM
Cyclohexane	ND		1.7	µg/m3	1	3/17/2015 04:23 PM
Dibromochloromethane	ND		4.3	µg/m3	1	3/17/2015 04:23 PM
Dichlorodifluoromethane	ND		2.5	µg/m3	1	3/17/2015 04:23 PM
Ethyl acetate	ND		1.8	µg/m3	1	3/17/2015 04:23 PM
Ethylbenzene	ND		2.2	µg/m3	1	3/17/2015 04:23 PM
Freon 113	ND		3.8	µg/m3	1	3/17/2015 04:23 PM
Freon 114	ND		3.5	µg/m3	1	3/17/2015 04:23 PM
Heptane	ND		2.0	µg/m3	1	3/17/2015 04:23 PM
Hexachlorobutadiene	ND		5.3	µg/m3	1	3/17/2015 04:23 PM
Hexane	ND		1.8	µg/m3	1	3/17/2015 04:23 PM
m,p-Xylene	ND		2.2	µg/m3	1	3/17/2015 04:23 PM
Methylene chloride	ND		1.7	µg/m3	1	3/17/2015 04:23 PM
MTBE	ND		1.8	µg/m3	1	3/17/2015 04:23 PM
Naphthalene	ND		2.6	µg/m3	1	3/17/2015 04:23 PM
o-Xylene	ND		2.2	µg/m3	1	3/17/2015 04:23 PM
Propene	ND		0.86	µg/m3	1	3/17/2015 04:23 PM
Styrene	ND		2.1	µg/m3	1	3/17/2015 04:23 PM
Tetrachloroethene	ND		3.4	µg/m3	1	3/17/2015 04:23 PM
Tetrahydrofuran	ND		1.5	µg/m3	1	3/17/2015 04:23 PM

Note:

ALS Environmental

Date: *18-Mar-15*

Client: TETRATECH-CHICAGO
Project: ACME Galv. Inc.; Project No.: 103X9026 **Work Order:** 1503417
Sample ID: 588-1 **Lab ID:** 1503417-01
Collection Date: 3/16/2015 12:00 PM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		1.9	µg/m3	1	3/17/2015 04:23 PM
trans-1,2-Dichloroethene	ND		2.0	µg/m3	1	3/17/2015 04:23 PM
trans-1,3-Dichloropropene	ND		2.3	µg/m3	1	3/17/2015 04:23 PM
Trichloroethene	ND		1.1	µg/m3	1	3/17/2015 04:23 PM
Trichlorofluoromethane	ND		2.8	µg/m3	1	3/17/2015 04:23 PM
Vinyl acetate	ND		1.8	µg/m3	1	3/17/2015 04:23 PM
Vinyl chloride	ND		1.3	µg/m3	1	3/17/2015 04:23 PM
Surr: Bromofluorobenzene	*97.7*		*60-140*	*%REC*	1	3/17/2015 04:23 PM
HYDROGEN CYANIDE BY NIOSH 6010 MOD.			**N6010**			Analyst: **CTS**
Hydrogen cyanide	ND		1.0	µg/sample	1	3/18/2015

Note:

ALS Environmental

Date: *18-Mar-15*

Client: TETRATECH-CHICAGO
Project: ACME Galv. Inc.; Project No.: 103X9026 **Work Order:** 1503417
Sample ID: 162-2 **Lab ID:** 1503417-02
Collection Date: 3/16/2015 12:00 PM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,1,2,2-Tetrachloroethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,1,2-Trichloroethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,1-Dichloroethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,1-Dichloroethene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,2,4-Trichlorobenzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,2,4-Trimethylbenzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,2-Dibromoethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,2-Dichlorobenzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,2-Dichloroethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,2-Dichloropropane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,3,5-Trimethylbenzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,3-Butadiene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,3-Dichlorobenzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,4-Dichlorobenzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,4-Dioxane	ND		10	ppbv	10	3/17/2015 05:03 PM
2-Butanone	ND		5.0	ppbv	10	3/17/2015 05:03 PM
2-Hexanone	ND		5.0	ppbv	10	3/17/2015 05:03 PM
2-Propanol	ND		10	ppbv	10	3/17/2015 05:03 PM
4-Ethyltoluene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
4-Methyl-2-pentanone	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Acetone	**580**		**40**	**ppbv**	40	3/18/2015 12:30 PM
Benzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Benzyl chloride	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Bromodichloromethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Bromoform	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Bromomethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Carbon disulfide	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Carbon tetrachloride	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Chlorobenzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Chloroethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Chloroform	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Chloromethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
cis-1,2-Dichloroethene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
cis-1,3-Dichloropropene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Cumene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Cyclohexane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Dibromochloromethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Dichlorodifluoromethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM

Note:

ALS Environmental

Date: *18-Mar-15*

Client: TETRATECH-CHICAGO
Project: ACME Galv. Inc.; Project No.: 103X9026 **Work Order:** 1503417
Sample ID: 162-2 **Lab ID:** 1503417-02
Collection Date: 3/16/2015 12:00 PM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Ethylbenzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Freon 113	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Freon 114	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Heptane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Hexachlorobutadiene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Hexane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
m,p-Xylene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Methylene chloride	ND		5.0	ppbv	10	3/17/2015 05:03 PM
MTBE	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Naphthalene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
o-Xylene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Propene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Styrene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Tetrachloroethene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Tetrahydrofuran	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Toluene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
trans-1,2-Dichloroethene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
trans-1,3-Dichloropropene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Trichloroethene	ND		2.0	ppbv	10	3/17/2015 05:03 PM
Trichlorofluoromethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Vinyl acetate	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Vinyl chloride	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Surr: Bromofluorobenzene	*97.2*		*60-140*	*%REC*	10	3/17/2015 05:03 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		27	µg/m3	10	3/17/2015 05:03 PM
1,1,2,2-Tetrachloroethane	ND		34	µg/m3	10	3/17/2015 05:03 PM
1,1,2-Trichloroethane	ND		27	µg/m3	10	3/17/2015 05:03 PM
1,1-Dichloroethane	ND		20	µg/m3	10	3/17/2015 05:03 PM
1,1-Dichloroethene	ND		20	µg/m3	10	3/17/2015 05:03 PM
1,2,4-Trichlorobenzene	ND		37	µg/m3	10	3/17/2015 05:03 PM
1,2,4-Trimethylbenzene	ND		25	µg/m3	10	3/17/2015 05:03 PM
1,2-Dibromoethane	ND		38	µg/m3	10	3/17/2015 05:03 PM
1,2-Dichlorobenzene	ND		30	µg/m3	10	3/17/2015 05:03 PM
1,2-Dichloroethane	ND		20	µg/m3	10	3/17/2015 05:03 PM
1,2-Dichloropropane	ND		23	µg/m3	10	3/17/2015 05:03 PM
1,3,5-Trimethylbenzene	ND		25	µg/m3	10	3/17/2015 05:03 PM
1,3-Butadiene	ND		11	µg/m3	10	3/17/2015 05:03 PM
1,3-Dichlorobenzene	ND		30	µg/m3	10	3/17/2015 05:03 PM
1,4-Dichlorobenzene	ND		30	µg/m3	10	3/17/2015 05:03 PM

Note:

ALS Environmental

Date: *18-Mar-15*

Client: TETRATECH-CHICAGO
Project: ACME Galv. Inc.; Project No.: 103X9026 **Work Order:** 1503417
Sample ID: 162-2 **Lab ID:** 1503417-02
Collection Date: 3/16/2015 12:00 PM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		36	µg/m3	10	3/17/2015 05:03 PM
2-Butanone	ND		15	µg/m3	10	3/17/2015 05:03 PM
2-Hexanone	ND		20	µg/m3	10	3/17/2015 05:03 PM
2-Propanol	ND		25	µg/m3	10	3/17/2015 05:03 PM
4-Ethyltoluene	ND		25	µg/m3	10	3/17/2015 05:03 PM
4-Methyl-2-pentanone	ND		20	µg/m3	10	3/17/2015 05:03 PM
Acetone	**1,400**		**95**	**µg/m3**	40	3/18/2015 12:30 PM
Benzene	ND		16	µg/m3	10	3/17/2015 05:03 PM
Benzyl chloride	ND		26	µg/m3	10	3/17/2015 05:03 PM
Bromodichloromethane	ND		34	µg/m3	10	3/17/2015 05:03 PM
Bromoform	ND		52	µg/m3	10	3/17/2015 05:03 PM
Bromomethane	ND		19	µg/m3	10	3/17/2015 05:03 PM
Carbon disulfide	ND		16	µg/m3	10	3/17/2015 05:03 PM
Carbon tetrachloride	ND		31	µg/m3	10	3/17/2015 05:03 PM
Chlorobenzene	ND		23	µg/m3	10	3/17/2015 05:03 PM
Chloroethane	ND		13	µg/m3	10	3/17/2015 05:03 PM
Chloroform	ND		24	µg/m3	10	3/17/2015 05:03 PM
Chloromethane	ND		10	µg/m3	10	3/17/2015 05:03 PM
cis-1,2-Dichloroethene	ND		20	µg/m3	10	3/17/2015 05:03 PM
cis-1,3-Dichloropropene	ND		23	µg/m3	10	3/17/2015 05:03 PM
Cumene	ND		25	µg/m3	10	3/17/2015 05:03 PM
Cyclohexane	ND		17	µg/m3	10	3/17/2015 05:03 PM
Dibromochloromethane	ND		43	µg/m3	10	3/17/2015 05:03 PM
Dichlorodifluoromethane	ND		25	µg/m3	10	3/17/2015 05:03 PM
Ethyl acetate	ND		18	µg/m3	10	3/17/2015 05:03 PM
Ethylbenzene	ND		22	µg/m3	10	3/17/2015 05:03 PM
Freon 113	ND		38	µg/m3	10	3/17/2015 05:03 PM
Freon 114	ND		35	µg/m3	10	3/17/2015 05:03 PM
Heptane	ND		20	µg/m3	10	3/17/2015 05:03 PM
Hexachlorobutadiene	ND		53	µg/m3	10	3/17/2015 05:03 PM
Hexane	ND		18	µg/m3	10	3/17/2015 05:03 PM
m,p-Xylene	ND		22	µg/m3	10	3/17/2015 05:03 PM
Methylene chloride	ND		17	µg/m3	10	3/17/2015 05:03 PM
MTBE	ND		18	µg/m3	10	3/17/2015 05:03 PM
Naphthalene	ND		26	µg/m3	10	3/17/2015 05:03 PM
o-Xylene	ND		22	µg/m3	10	3/17/2015 05:03 PM
Propene	ND		8.6	µg/m3	10	3/17/2015 05:03 PM
Styrene	ND		21	µg/m3	10	3/17/2015 05:03 PM
Tetrachloroethene	ND		34	µg/m3	10	3/17/2015 05:03 PM
Tetrahydrofuran	ND		15	µg/m3	10	3/17/2015 05:03 PM

Note:

ALS Environmental

Date: *18-Mar-15*

Client: TETRATECH-CHICAGO
Project: ACME Galv. Inc.; Project No.: 103X9026
Work Order: 1503417
Sample ID: 162-2
Lab ID: 1503417-02
Collection Date: 3/16/2015 12:00 PM
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		19	µg/m3	10	3/17/2015 05:03 PM
trans-1,2-Dichloroethene	ND		20	µg/m3	10	3/17/2015 05:03 PM
trans-1,3-Dichloropropene	ND		23	µg/m3	10	3/17/2015 05:03 PM
Trichloroethene	ND		11	µg/m3	10	3/17/2015 05:03 PM
Trichlorofluoromethane	ND		28	µg/m3	10	3/17/2015 05:03 PM
Vinyl acetate	ND		18	µg/m3	10	3/17/2015 05:03 PM
Vinyl chloride	ND		13	µg/m3	10	3/17/2015 05:03 PM
Surr: Bromofluorobenzene	*97.2*		*60-140*	*%REC*	10	3/17/2015 05:03 PM

Note:

ALS Environmental

Date: *18-Mar-15*

Client: TETRATECH-CHICAGO
Project: ACME Galv. Inc.; Project No.: 103X9026
Work Order: 1503417
Sample ID: 183-3
Lab ID: 1503417-03
Collection Date: 3/16/2015 12:00 PM
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
HYDROGEN CYANIDE BY NIOSH 6010 MOD.			**N6010**			Analyst: **CTS**
Hydrogen cyanide	ND		1.0	µg/sample	1	3/18/2015

Note:

ALS Environmental

Date: *18-Mar-15*

Client: TETRATECH-CHICAGO
Project: ACME Galv. Inc.; Project No.: 103X9026 **Work Order:** 1503417
Sample ID: LIQ-1 **Lab ID:** 1503417-04
Collection Date: 3/16/2015 12:00 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7470A**		Prep Date: **3/17/2015**	Analyst: **SLW**
Mercury	ND		0.50	µg/L	1	3/18/2015 09:59 AM
METALS BY ICP			**SW6010B**		Prep Date: **3/17/2015**	Analyst: **VAW**
Aluminum	**1.3**		**0.20**	**mg/L**	1	3/17/2015 04:37 PM
Antimony	**0.025**		**0.0060**	**mg/L**	1	3/17/2015 04:37 PM
Arsenic	ND		0.010	mg/L	1	3/17/2015 04:37 PM
Barium	**0.19**		**0.10**	**mg/L**	1	3/17/2015 04:37 PM
Beryllium	ND		0.0040	mg/L	1	3/17/2015 04:37 PM
Cadmium	**0.072**		**0.0050**	**mg/L**	1	3/17/2015 04:37 PM
Calcium	**88**		**0.20**	**mg/L**	1	3/17/2015 04:37 PM
Chromium	**0.19**		**0.020**	**mg/L**	1	3/17/2015 04:37 PM
Cobalt	ND		0.050	mg/L	1	3/17/2015 04:37 PM
Copper	**0.41**		**0.025**	**mg/L**	1	3/17/2015 04:37 PM
Iron	**10**		**0.20**	**mg/L**	1	3/17/2015 04:37 PM
Lead	**0.33**		**0.015**	**mg/L**	1	3/17/2015 04:37 PM
Magnesium	**14**		**0.20**	**mg/L**	1	3/17/2015 04:37 PM
Manganese	**0.29**		**0.050**	**mg/L**	1	3/17/2015 04:37 PM
Nickel	**0.14**		**0.040**	**mg/L**	1	3/17/2015 04:37 PM
Potassium	**11**		**0.20**	**mg/L**	1	3/17/2015 04:37 PM
Selenium	ND		0.030	mg/L	1	3/17/2015 04:37 PM
Silver	ND		0.010	mg/L	1	3/17/2015 04:37 PM
Sodium	**78**		**0.20**	**mg/L**	1	3/17/2015 04:37 PM
Thallium	ND		0.0020	mg/L	1	3/17/2015 04:37 PM
Vanadium	ND		0.050	mg/L	1	3/17/2015 04:37 PM
Zinc	**8.4**		**0.050**	**mg/L**	1	3/17/2015 04:37 PM
TOTAL CYANIDE			**E335.2**			Analyst: **CTS**
Cyanide, Total	**23**		**20**	**µg/L**	1	3/18/2015
PH			**E9040B**			Analyst: **CTS**
pH	**7.6**			**pH Units**	1	3/18/2015

Note:

ALS Environmental

Date: 18-Mar-15

Client: TETRATECH-CHICAGO

Work Order: 1503417

Project: ACME Galv. Inc.; Project No.: 103X9026

QC BATCH REPORT

Batch ID: **R116670** Instrument ID **VMS3** Method: **ETO-15**

MBLK Sample ID: **MBLK-R116670** Units: **ppbv** Analysis Date: **3/17/2015 03:40 PM**

Client ID: Run ID: **VMS3_150317A** SeqNo: **1018316** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	0.50								
1,1,2,2-Tetrachloroethane	ND	0.50								
1,1,2-Trichloroethane	ND	0.50								
1,1-Dichloroethane	ND	0.50								
1,1-Dichloroethene	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.50								
1,2,4-Trimethylbenzene	ND	0.50								
1,2-Dibromoethane	ND	0.50								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.50								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.50								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.50								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	0.50								
2-Hexanone	ND	0.50								
2-Propanol	ND	1.0								
4-Ethyltoluene	ND	0.50								
4-Methyl-2-pentanone	ND	0.50								
Acetone	ND	1.0								
Benzene	ND	0.50								
Benzyl chloride	ND	0.50								
Bromodichloromethane	ND	0.50								
Bromoform	ND	0.50								
Bromomethane	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.50								
Chlorobenzene	ND	0.50								
Chloroethane	ND	0.50								
Chloroform	ND	0.50								
Chloromethane	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50								
cis-1,3-Dichloropropene	ND	0.50								
Cumene	ND	0.50								
Cyclohexane	ND	0.50								
Dibromochloromethane	ND	0.50								
Dichlorodifluoromethane	ND	0.50								
Ethyl acetate	ND	0.50								
Ethylbenzene	ND	0.50								

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

Client: TETRATECH-CHICAGO
Work Order: 1503417
Project: ACME Galv. Inc.; Project No.: 103X9026

QC BATCH REPORT

Batch ID: **R116670** Instrument ID **VMS3** Method: **ETO-15**

Freon 113	ND	0.50					
Freon 114	ND	0.50					
Heptane	ND	0.50					
Hexachlorobutadiene	ND	0.50					
Hexane	ND	0.50					
m,p-Xylene	ND	0.50					
Methylene chloride	ND	0.50					
MTBE	ND	0.50					
Naphthalene	ND	0.50					
o-Xylene	ND	0.50					
Propene	ND	0.50					
Styrene	ND	0.50					
Tetrachloroethene	ND	0.50					
Tetrahydrofuran	ND	0.50					
Toluene	ND	0.50					
trans-1,2-Dichloroethene	ND	0.50					
trans-1,3-Dichloropropene	ND	0.50					
Trichloroethene	ND	0.20					
Trichlorofluoromethane	ND	0.50					
Vinyl acetate	ND	0.50					
Vinyl chloride	ND	0.50					
Surr: Bromofluorobenzene	9.37	0	*10*	0	*93.7*	*60-140*	0

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

Client: TETRATECH-CHICAGO
Work Order: 1503417
Project: ACME Galv. Inc.; Project No.: 103X9026

QC BATCH REPORT

Batch ID: **R116670** Instrument ID **VMS3** Method: **ETO-15**

LCS Sample ID: **LCS-R116670** Units: **ppbv** Analysis Date: **3/17/2015 02:59 PM**
Client ID: Run ID: **VMS3_150317A** SeqNo: **1018315** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	10.99	0.50	10	0	110	58.8-163	0			
1,1,2,2-Tetrachloroethane	10.48	0.50	10	0	105	60-140	0			
1,1,2-Trichloroethane	11.58	0.50	10	0	116	60-140	0			
1,1-Dichloroethane	11.06	0.50	10	0	111	60-140	0			
1,1-Dichloroethene	10.92	0.50	10	0	109	60-140	0			
1,2,4-Trichlorobenzene	8.44	0.50	10	0	84.4	49.3-150	0			
1,2,4-Trimethylbenzene	10.84	0.50	10	0	108	50.1-162	0			
1,2-Dibromoethane	11.74	0.50	10	0	117	60-140	0			
1,2-Dichlorobenzene	10.27	0.50	10	0	103	41.9-141	0			
1,2-Dichloroethane	10.73	0.50	10	0	107	60-140	0			
1,2-Dichloropropane	11.56	0.50	10	0	116	60-140	0			
1,3,5-Trimethylbenzene	10.82	0.50	10	0	108	60-140	0			
1,3-Butadiene	10.06	0.50	10	0	101	50.6-140	0			
1,3-Dichlorobenzene	10.1	0.50	10	0	101	60-140	0			
1,4-Dichlorobenzene	10.05	0.50	10	0	100	55.1-145	0			
1,4-Dioxane	9.89	1.0	10	0	98.9	60-140	0			
2-Butanone	10.05	0.50	10	0	100	60-140	0			
2-Hexanone	10.01	0.50	10	0	100	56.2-162	0			
2-Propanol	9.43	1.0	10	0	94.3	60-140	0			
4-Ethyltoluene	11.03	0.50	10	0	110	60-140	0			
4-Methyl-2-pentanone	10.71	0.50	10	0	107	60-140	0			
Acetone	9.17	1.0	10	0	91.7	60-140	0			
Benzene	11.28	0.50	10	0	113	60-140	0			
Benzyl chloride	8.81	0.50	10	0	88.1	31.9-174	0			
Bromodichloromethane	11.29	0.50	10	0	113	60-140	0			
Bromoform	11.33	0.50	10	0	113	60-140	0			
Bromomethane	11.06	0.50	10	0	111	60-140	0			
Carbon disulfide	10.84	0.50	10	0	108	60-140	0			
Carbon tetrachloride	11.25	0.50	10	0	112	60-140	0			
Chlorobenzene	11.09	0.50	10	0	111	60-140	0			
Chloroethane	11.03	0.50	10	0	110	60-140	0			
Chloroform	11.1	0.50	10	0	111	60-140	0			
Chloromethane	10.35	0.50	10	0	104	60-140	0			
cis-1,2-Dichloroethene	11.18	0.50	10	0	112	60-140	0			
cis-1,3-Dichloropropene	11.7	0.50	10	0	117	60-140	0			
Cumene	11.16	0.50	10	0	112	60-140	0			
Cyclohexane	11.81	0.50	10	0	118	60-140	0			
Dibromochloromethane	11.58	0.50	10	0	116	60-140	0			
Dichlorodifluoromethane	10	0.50	10	0	100	60-140	0			
Ethyl acetate	10.88	0.50	10	0	109	60-140	0			
Ethylbenzene	11.5	0.50	10	0	115	60-140	0			
Freon 113	10.79	0.50	10	0	108	60-140	0			

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

Client: TETRATECH-CHICAGO
Work Order: 1503417
Project: ACME Galv. Inc.; Project No.: 103X9026

QC BATCH REPORT

Batch ID: **R116670** Instrument ID **VMS3** Method: **ETO-15**

Freon 114	10.87	0.50	10	0	109	60-140	0
Heptane	11.23	0.50	10	0	112	60-140	0
Hexachlorobutadiene	9.35	0.50	10	0	93.5	60-140	0
Hexane	11.07	0.50	10	0	111	60-140	0
m,p-Xylene	22.61	0.50	20	0	113	60-140	0
Methylene chloride	9.8	0.50	10	0	98	60-140	0
MTBE	10.76	0.50	10	0	108	60.8-151	0
o-Xylene	11.38	0.50	10	0	114	60-140	0
Propene	9.04	0.50	10	0	90.4	34.4-139	0
Styrene	11.83	0.50	10	0	118	60-140	0
Tetrachloroethene	11.49	0.50	10	0	115	60-140	0
Tetrahydrofuran	11.09	0.50	10	0	111	60-140	0
Toluene	11.58	0.50	10	0	116	60-140	0
trans-1,2-Dichloroethene	11.3	0.50	10	0	113	60-140	0
trans-1,3-Dichloropropene	11.47	0.50	10	0	115	60-140	0
Trichloroethene	11.02	0.20	10	0	110	60-140	0
Trichlorofluoromethane	10.09	0.50	10	0	101	60-140	0
Vinyl acetate	11.49	0.50	10	0	115	48.4-145	0
Vinyl chloride	11.09	0.50	10	0	111	60-140	0
Surr: Bromofluorobenzene	10.06	0	*10*	0	*101*	*60-140*	0

The following samples were analyzed in this batch: 1503417-01A 1503417-02A

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

Client: TETRATECH-CHICAGO
Work Order: 1503417
Project: ACME Galv. Inc.; Project No.: 103X9026

QC BATCH REPORT

Batch ID: **27310** Instrument ID **HG1** Method: **SW7470A**

MBLK Sample ID: **MBLK-27310-27310** Units: **µg/L** Analysis Date: **3/18/2015 09:49 AM**
Client ID: Run ID: **HG1_150318A** SeqNo: **1018264** Prep Date: **3/17/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.50								

LCS Sample ID: **LCS-27310-27310** Units: **µg/L** Analysis Date: **3/18/2015 09:45 AM**
Client ID: Run ID: **HG1_150318A** SeqNo: **1018262** Prep Date: **3/17/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.95	0.50	5	0	99	80-120	0			

LCSD Sample ID: **LCSD-27310-27310** Units: **µg/L** Analysis Date: **3/18/2015 09:47 AM**
Client ID: Run ID: **HG1_150318A** SeqNo: **1018263** Prep Date: **3/17/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.19	0.50	5	0	83.8	80-120	4.95	16.6	20	

MS Sample ID: **1503393-01C MS** Units: **µg/L** Analysis Date: **3/18/2015 09:53 AM**
Client ID: Run ID: **HG1_150318A** SeqNo: **1018266** Prep Date: **3/17/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.81	0.50	5	-0.12	98.6	75-125	0			

MSD Sample ID: **1503393-01C MSD** Units: **µg/L** Analysis Date: **3/18/2015 09:55 AM**
Client ID: Run ID: **HG1_150318A** SeqNo: **1018267** Prep Date: **3/17/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.91	0.50	5	-0.12	101	75-125	4.81	2.06	20	

The following samples were analyzed in this batch: 1503417-04A

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

Client: TETRATECH-CHICAGO
Work Order: 1503417
Project: ACME Galv. Inc.; Project No.: 103X9026

QC BATCH REPORT

Batch ID: **27304** Instrument ID **ICP3** Method: **SW6010B**

MBLK Sample ID: **mblk-27304-27304** Units: **mg/L** Analysis Date: **3/17/2015 03:58 PM**
Client ID: Run ID: **ICP3_150317C** SeqNo: **1017768** Prep Date: **3/17/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.20								
Antimony	ND	0.030								
Arsenic	ND	0.010								
Barium	ND	0.10								
Beryllium	ND	0.00040								
Cadmium	ND	0.0050								
Calcium	ND	0.20								
Chromium	ND	0.020								
Cobalt	ND	0.025								
Copper	ND	0.025								
Iron	ND	0.20								
Lead	ND	0.015								
Magnesium	ND	0.20								
Manganese	ND	0.050								
Nickel	ND	0.050								
Potassium	ND	0.20								
Selenium	ND	0.030								
Silver	ND	0.010								
Sodium	ND	0.20								
Thallium	ND	0.0020								
Vanadium	ND	0.050								
Zinc	ND	0.050								

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

Client: TETRATECH-CHICAGO
Work Order: 1503417
Project: ACME Galv. Inc.; Project No.: 103X9026

QC BATCH REPORT

Batch ID: **27304** Instrument ID **ICP3** Method: **SW6010B**

LCS Sample ID: **lcs-27304-27304** Units: **mg/L** Analysis Date: **3/17/2015 04:01 PM**
Client ID: Run ID: **ICP3_150317C** SeqNo: **1017769** Prep Date: **3/17/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.093	0.20	1.1	0	99.4	80-120	0			
Antimony	1.047	0.030	1.1	0	95.2	80-120	0			
Arsenic	1.091	0.010	1.1	0	99.2	80-120	0			
Barium	1.032	0.10	1.1	0	93.8	80-120	0			
Beryllium	1.028	0.00040	1.1	0	93.4	80-120	0			
Cadmium	1.115	0.0050	1.1	0	101	80-120	0			
Calcium	1.077	0.20	1.1	0	97.9	80-120	0			
Chromium	1.087	0.020	1.1	0	98.8	80-120	0			
Cobalt	1.032	0.025	1.1	0	93.8	80-120	0			
Copper	1.04	0.025	1.1	0	94.6	80-120	0			
Iron	1.123	0.20	1.1	0	102	80-120	0			
Lead	1.091	0.015	1.1	0	99.2	80-120	0			
Magnesium	1.126	0.20	1.1	0	102	80-120	0			
Manganese	1.049	0.050	1.1	0	95.3	80-120	0			
Nickel	1.047	0.050	1.1	0	95.2	80-120	0			
Potassium	10.92	0.20	11	0	99.3	80-120	0			
Selenium	1.061	0.030	1.1	0	96.4	80-120	0			
Silver	1.068	0.010	1.1	0	97.1	80-120	0			
Sodium	1.122	0.20	1.1	0	102	80-120	0			
Thallium	1.051	0.0020	1.1	0	95.6	80-120	0			
Vanadium	1.067	0.050	1.1	0	97	80-120	0			
Zinc	1.041	0.050	1.1	0	94.6	80-120	0			

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

Client: TETRATECH-CHICAGO
Work Order: 1503417
Project: ACME Galv. Inc.; Project No.: 103X9026

QC BATCH REPORT

Batch ID: **27304** Instrument ID **ICP3** Method: **SW6010B**

LCSD Sample ID: **lcsd-27304-27304** Units: **mg/L** Analysis Date: **3/17/2015 04:04 PM**
Client ID: Run ID: **ICP3_150317C** SeqNo: **1017770** Prep Date: **3/17/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.102	0.20	1.1	0	100	80-120	1.093	0.852	20	
Antimony	1.055	0.030	1.1	0	95.9	80-120	1.047	0.764	20	
Arsenic	1.096	0.010	1.1	0	99.6	80-120	1.091	0.412	20	
Barium	1.033	0.10	1.1	0	94	80-120	1.032	0.149	20	
Beryllium	1.033	0.00040	1.1	0	93.9	80-120	1.028	0.523	20	
Cadmium	1.118	0.0050	1.1	0	102	80-120	1.115	0.197	20	
Calcium	1.088	0.20	1.1	0	98.9	80-120	1.077	0.986	20	
Chromium	1.094	0.020	1.1	0	99.5	80-120	1.087	0.676	20	
Cobalt	1.035	0.025	1.1	0	94.1	80-120	1.032	0.362	20	
Copper	1.05	0.025	1.1	0	95.5	80-120	1.04	0.926	20	
Iron	1.131	0.20	1.1	0	103	80-120	1.123	0.683	20	
Lead	1.095	0.015	1.1	0	99.6	80-120	1.091	0.392	20	
Magnesium	1.109	0.20	1.1	0	101	80-120	1.126	1.57	20	
Manganese	1.061	0.050	1.1	0	96.4	80-120	1.049	1.14	20	
Nickel	1.051	0.050	1.1	0	95.6	80-120	1.047	0.356	20	
Potassium	11.08	0.20	11	0	101	80-120	10.92	1.39	20	
Selenium	1.067	0.030	1.1	0	97	80-120	1.061	0.6	20	
Silver	1.076	0.010	1.1	0	97.8	80-120	1.068	0.677	20	
Sodium	1.137	0.20	1.1	0	103	80-120	1.122	1.36	20	
Thallium	1.056	0.0020	1.1	0	96	80-120	1.051	0.418	20	
Vanadium	1.076	0.050	1.1	0	97.8	80-120	1.067	0.914	20	
Zinc	1.047	0.050	1.1	0	95.2	80-120	1.041	0.569	20	

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

Client: TETRATECH-CHICAGO
Work Order: 1503417
Project: ACME Galv. Inc.; Project No.: 103X9026

QC BATCH REPORT

Batch ID: **27304** Instrument ID **ICP3** Method: **SW6010B**

MS Sample ID: **1503393-02c ms** Units: **mg/L** Analysis Date: **3/17/2015 04:16 PM**
Client ID: Run ID: **ICP3_150317C** SeqNo: **1017774** Prep Date: **3/17/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.263	0.20	1.1	0.1318	103	75-125	0			
Antimony	1.063	0.030	1.1	-0.003108	96.9	75-125	0			
Arsenic	1.113	0.010	1.1	0.001013	101	75-125	0			
Barium	1.115	0.10	1.1	0.09527	92.7	75-125	0			
Beryllium	1.029	0.00040	1.1	-0.0009955	93.6	75-125	0			
Cadmium	1.112	0.0050	1.1	-0.0006897	101	75-125	0			
Calcium	134.6	0.20	1.1	138.3	-330	75-125	0			SO
Chromium	1.08	0.020	1.1	0.009456	97.3	75-125	0			
Cobalt	0.9975	0.025	1.1	0.001706	90.5	75-125	0			
Copper	1.074	0.025	1.1	0.001592	97.5	75-125	0			
Iron	1.727	0.20	1.1	0.6581	97.2	75-125	0			
Lead	1.07	0.015	1.1	0.004475	96.8	75-125	0			
Magnesium	59.53	0.20	1.1	60.41	-80	75-125	0			SO
Manganese	1.24	0.050	1.1	0.2175	92.9	75-125	0			
Nickel	1.012	0.050	1.1	0.005775	91.4	75-125	0			
Potassium	18.62	0.20	11	7.653	99.7	75-125	0			
Selenium	1.106	0.030	1.1	0.0005841	100	75-125	0			
Silver	1.086	0.010	1.1	-0.0006666	98.8	75-125	0			
Sodium	23.24	0.20	1.1	22.86	35	75-125	0			SO
Thallium	1.045	0.0020	1.1	-0.0006468	95.1	75-125	0			
Vanadium	1.082	0.050	1.1	-0.00478	98.8	75-125	0			
Zinc	1.023	0.050	1.1	0.02172	91.1	75-125	0			

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

Client: TETRATECH-CHICAGO
Work Order: 1503417
Project: ACME Galv. Inc.; Project No.: 103X9026

QC BATCH REPORT

Batch ID: **27304** Instrument ID **ICP3** Method: **SW6010B**

MSD Sample ID: **1503393-02c msd** Units: **mg/L** Analysis Date: **3/17/2015 04:19 PM**
Client ID: Run ID: **ICP3_150317C** SeqNo: **1017775** Prep Date: **3/17/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.273	0.20	1.1	0.1318	104	75-125	1.263	0.781	20	
Antimony	1.078	0.030	1.1	-0.003108	98.3	75-125	1.063	1.45	20	
Arsenic	1.131	0.010	1.1	0.001013	103	75-125	1.113	1.57	20	
Barium	1.128	0.10	1.1	0.09527	93.8	75-125	1.115	1.08	20	
Beryllium	1.046	0.00040	1.1	-0.0009955	95.2	75-125	1.029	1.64	20	
Cadmium	1.128	0.0050	1.1	-0.0006897	103	75-125	1.112	1.38	20	
Calcium	135.8	0.20	1.1	138.3	-220	75-125	134.6	0.895	20	SO
Chromium	1.1	0.020	1.1	0.009456	99.1	75-125	1.08	1.84	20	
Cobalt	1.012	0.025	1.1	0.001706	91.9	75-125	0.9975	1.48	20	
Copper	1.095	0.025	1.1	0.001592	99.4	75-125	1.074	1.9	20	
Iron	1.708	0.20	1.1	0.6581	95.5	75-125	1.727	1.09	20	
Lead	1.083	0.015	1.1	0.004475	98.1	75-125	1.07	1.26	20	
Magnesium	59.47	0.20	1.1	60.41	-86	75-125	59.53	0.111	20	SO
Manganese	1.253	0.050	1.1	0.2175	94.1	75-125	1.24	1.06	20	
Nickel	1.027	0.050	1.1	0.005775	92.9	75-125	1.012	1.53	20	
Potassium	18.77	0.20	11	7.653	101	75-125	18.62	0.765	20	
Selenium	1.118	0.030	1.1	0.0005841	102	75-125	1.106	1.09	20	
Silver	1.107	0.010	1.1	-0.0006666	101	75-125	1.086	1.86	20	
Sodium	23.29	0.20	1.1	22.86	39	75-125	23.24	0.189	20	SO
Thallium	1.061	0.0020	1.1	-0.0006468	96.5	75-125	1.045	1.49	20	
Vanadium	1.09	0.050	1.1	-0.00478	99.6	75-125	1.082	0.78	20	
Zinc	1.046	0.050	1.1	0.02172	93.1	75-125	1.023	2.2	20	

The following samples were analyzed in this batch: 1503417-04a

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

Client: TETRATECH-CHICAGO
Work Order: 1503417
Project: ACME Galv. Inc.; Project No.: 103X9026

QC BATCH REPORT

Batch ID: **R116673** Instrument ID **WETCHEM** Method: **N6010**

MBLK Sample ID: **MB-R116673-R116673** Units: **µg/sample** Analysis Date: **3/18/2015**
Client ID: Run ID: **WETCHEM_150318A** SeqNo: **1018341** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen cyanide	ND	1.0								

LCS Sample ID: **LCS-R116673-R116673** Units: **µg/sample** Analysis Date: **3/18/2015**
Client ID: Run ID: **WETCHEM_150318A** SeqNo: **1018342** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen cyanide	2.36	1.0	2.31	0	102	50-150	0			

LCSD Sample ID: **LCSD-R116673** Units: **µg/sample** Analysis Date: **3/18/2015**
Client ID: Run ID: **WETCHEM_150318A** SeqNo: **1018348** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen cyanide	2.26	1.0	2.31	0	97.8	50-150	2.36	4.33		

The following samples were analyzed in this batch: 1503417-01A 1503417-03A

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

Client: TETRATECH-CHICAGO
Work Order: 1503417
Project: ACME Galv. Inc.; Project No.: 103X9026

QC BATCH REPORT

Batch ID: **R116684** Instrument ID **WETCHEM** Method: **E335.2**

MBLK Sample ID: **MB-R116684-R116684** Units: **µg/L** Analysis Date: **3/18/2015**
Client ID: Run ID: **WETCHEM_150318C** SeqNo: **1018490** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	ND	20								

LCS Sample ID: **LCS-R116684-R116684** Units: **µg/L** Analysis Date: **3/18/2015**
Client ID: Run ID: **WETCHEM_150318C** SeqNo: **1018491** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	178.8	20	185	0	96.6	85-115	0			

MS Sample ID: **1503263-01C MS** Units: **µg/L** Analysis Date: **3/18/2015**
Client ID: Run ID: **WETCHEM_150318C** SeqNo: **1018496** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	158	20	185	0	85.4	75-125	0			

MSD Sample ID: **1503263-01C MSD** Units: **µg/L** Analysis Date: **3/18/2015**
Client ID: Run ID: **WETCHEM_150318C** SeqNo: **1018497** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	145.9	20	185	0	78.9	75-125	158	7.96	20	

The following samples were analyzed in this batch: 1503417-04A

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

ALS Environmental

Date: 18-Mar-15

Client: TETRATECH-CHICAGO
Project: ACME Galv. Inc.; Project No.: 103X9026
WorkOrder: **1503417**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/L	
µg/m3	
µg/sample	
mg/L	
pH Units	
ppbv	

ALS Environmental

Sample Receipt Checklist

Client Name: TETRATECH-CHICAGO

Date/Time Received: 17-Mar-15 09:02

Work Order: 1503417

Received by: JNW

Checklist completed by Jan Wilcox (eSignature) 17-Mar-15 (Date)

Reviewed by: Jan Wilcox (eSignature) 17-Mar-15 (Date)

Matrices:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	Not Present ☐
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	11.8		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:	-		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: