Edit History Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49184/EPW14030/ME3XA2** | **Lab Name: Chemtech Consulting Group**

Method: Metals by ICP-AES

Sample	Matrix	Analyte	Data Field	Old Value	New Value	User	Edit Date Time
LCS231	Water	All	Validation Level		S4VEM	Steffanie Tobin	2021-02-11 11:52:33
LCS231	Water	All	Validation Level		S3VEM	Steffanie Tobin	2021-01-23 09:00:02
ME3XA2	Water	All	Validation Level		S4VEM	Steffanie Tobin	2021-02-11 11:52:33
ME3XA2	Water	All	Validation Level		S3VEM	Steffanie Tobin	2021-01-23 09:00:02
ME3XA2	Water	Arsenic	Validation Flag	J	J-	Steffanie Tobin	2021-02-01 09:34:53
ME3XA2D	Water	All	Validation Level		S4VEM	Steffanie Tobin	2021-02-11 11:52:33
ME3XA2D	Water	All	Validation Level		S3VEM	Steffanie Tobin	2021-01-23 09:00:02
ME3XA2L	Water	All	Validation Level		S4VEM	Steffanie Tobin	2021-02-11 11:52:33
ME3XA2L	Water	All	Validation Level		S3VEM	Steffanie Tobin	2021-01-23 09:00:02
ME3XA2S	Water	All	Validation Level		S4VEM	Steffanie Tobin	2021-02-11 11:52:33
ME3XA2S	Water	All	Validation Level		S3VEM	Steffanie Tobin	2021-01-23 09:00:02
ME3XA3	Water	All	Validation Level		S4VEM	Steffanie Tobin	2021-02-11 11:52:33
ME3XA3	Water	All	Validation Level		S3VEM	Steffanie Tobin	2021-01-23 09:00:02
ME3XA3	Water	Arsenic	Validation Flag		J-	Steffanie Tobin	2021-02-01 09:34:53
PBW231	Water	All	Validation Level		S4VEM	Steffanie Tobin	2021-02-11 11:52:33
PBW231	Water	All	Validation Level		S3VEM	Steffanie Tobin	2021-01-23 09:00:02

Data Validation Report

Data Review Results

Tue, 8 Dec 2020 14:38:12

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project

GroupID: 49184/EPW14030/ME3XA2

Lab Name: Chemtech Consulting Group

Submission Group Id: 32112517

Organization: EPA Region 5

SOW: ISM02.4

HoldingTimes_Preservation

NONE FOUND

Data Validation Report

Data Review Results

Tue, 8 Dec 2020 14:38:12

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project

GroupID: 49184/EPW14030/ME3XA2

Lab Name: Chemtech Consulting Group

Submission Group Id: 32112517

Organization: EPA Region 5

SOW: ISM02.4

InitialCalibration

NONE FOUND

Data Validation Report

Data Review Results

Tue, 8 Dec 2020 14:38:12

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project

GroupID: 49184/EPW14030/ME3XA2

Lab Name: Chemtech Consulting Group

Submission Group Id: 32112517

Organization: EPA Region 5

SOW: ISM02.4

ContinuingCalibrationVerification

NONE FOUND

Data Validation Report

Data Review Results

Tue, 8 Dec 2020 14:38:12

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project

GroupID: 49184/EPW14030/ME3XA2

Lab Name: Chemtech Consulting Group

Submission Group Id: 32112517

Organization: EPA Region 5

SOW: ISM02.4

InitialCalibrationVerification

NONE FOUND

Data Validation Report

Data Review Results

Tue, 8 Dec 2020 14:38:12

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project

GroupID: 49184/EPW14030/ME3XA2

Lab Name: Chemtech Consulting Group

Submission Group Id: 32112517

Organization: EPA Region 5

SOW: ISM02.4

Blanks

Method - Metals by ICP-AES

Test Name: EXES-480
Defect Message: The following samples are associated with CCB that has analyte results less than or equal to (-MDLs) but greater than or equal to (-CRQLs). Use Professional Judgement to qualify detects and nondetects.
Associated Samples: ME3XA2, ME3XA3

Defective Analyte	Defective Samples/Analyses
Arsenic	ME3XA2, ME3XA3

Data Validation Report

Data Review Results

Tue, 8 Dec 2020 14:38:12

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project

GroupID: 49184/EPW14030/ME3XA2

Lab Name: Chemtech Consulting Group

Submission Group Id: 32112517

Organization: EPA Region 5

SOW: ISM02.4

InterferenceCheckSample

NONE FOUND

Data Validation Report

Data Review Results

Tue, 8 Dec 2020 14:38:12

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project	**GroupID: 49184/EPW14030/ME3XA2**	**Lab Name: Chemtech Consulting Group**
Submission Group Id: 32112517	**Organization: EPA Region 5**	**SOW: ISM02.4**

LaboratoryControlSample

NONE FOUND

Data Validation Report

Data Review Results

Tue, 8 Dec 2020 14:38:12

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project

GroupID: 49184/EPW14030/ME3XA2

Lab Name: Chemtech Consulting Group

Submission Group Id: 32112517

Organization: EPA Region 5

SOW: ISM02.4

MatrixSpikes

NONE FOUND

Data Validation Report

Data Review Results

Tue, 8 Dec 2020 14:38:12

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project	**GroupID: 49184/EPW14030/ME3XA2**	**Lab Name: Chemtech Consulting Group**
Submission Group Id: 32112517	**Organization: EPA Region 5**	**SOW: ISM02.4**

SerialDilution

NONE FOUND

Data Validation Report

Data Review Results

Tue, 8 Dec 2020 14:38:12

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project

GroupID: 49184/EPW14030/ME3XA2

Lab Name: Chemtech Consulting Group

Submission Group Id: 32112517

Organization: EPA Region 5

SOW: ISM02.4

TargetAnalyteQuantitation

Method - Metals by ICP-AES

Test Name: EXES-790
Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.
Associated Samples: ME3XA2, ME3XA2D, ME3XA2L, ME3XA3

Defective Analyte	Defective Samples/Analyses
Aluminum	ME3XA2, ME3XA2D, ME3XA3
Arsenic	ME3XA2, ME3XA2D
Barium	ME3XA2, ME3XA2D, ME3XA3
Chromium	ME3XA2D, ME3XA3
Manganese	ME3XA2L
Zinc	ME3XA2D, ME3XA3

Data Validation Report

Data Review Results

Tue, 8 Dec 2020 14:38:12

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project	**GroupID: 49184/EPW14030/ME3XA2**	**Lab Name: Chemtech Consulting Group**
Submission Group Id: 32112517	**Organization: EPA Region 5**	**SOW: ISM02.4**

Duplicates

NONE FOUND

Data Validation Report

Data Review Results

Tue, 8 Dec 2020 14:38:12

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project

GroupID: 49184/EPW14030/ME3XA2

Lab Name: Chemtech Consulting Group

Submission Group Id: 32112517

Organization: EPA Region 5

SOW: ISM02.4

SampleAnalysis

NONE FOUND

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49184/EPW14030/ME3XA2** | **Lab Name: Chemtech Consulting Group**

Sample Number: LCS231	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH: 2	Sample Date:	Sample Time:
% Moisture:		% Solids:	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Spike	451		ug/L	451		1.0	YES	S4VEM
Antimony	Spike	129		ug/L	129		1.0	YES	S4VEM
Arsenic	Spike	20.1		ug/L	20.1		1.0	YES	S4VEM
Barium	Spike	484		ug/L	484		1.0	YES	S4VEM
Beryllium	Spike	11.5		ug/L	11.5		1.0	YES	S4VEM
Cadmium	Spike	10.9		ug/L	10.9		1.0	YES	S4VEM
Calcium	Spike	10900		ug/L	10900		1.0	YES	S4VEM
Chromium	Spike	23.6		ug/L	23.6		1.0	YES	S4VEM
Cobalt	Spike	107		ug/L	107		1.0	YES	S4VEM
Copper	Spike	57.7		ug/L	57.7		1.0	YES	S4VEM
Iron	Spike	232		ug/L	232		1.0	YES	S4VEM
Lead	Spike	21.9		ug/L	21.9		1.0	YES	S4VEM
Magnesium	Spike	11100		ug/L	11100		1.0	YES	S4VEM
Manganese	Spike	34.3		ug/L	34.3		1.0	YES	S4VEM
Nickel	Spike	90.1		ug/L	90.1		1.0	YES	S4VEM
Potassium	Spike	10500		ug/L	10500		1.0	YES	S4VEM
Selenium	Spike	74.0		ug/L	74.0		1.0	YES	S4VEM
Silver	Spike	21.5		ug/L	21.5		1.0	YES	S4VEM
Sodium	Spike	10300		ug/L	10300		1.0	YES	S4VEM
Thallium	Spike	57.6		ug/L	57.6		1.0	YES	S4VEM
Vanadium	Spike	111		ug/L	111		1.0	YES	S4VEM
Zinc	Spike	126		ug/L	126		1.0	YES	S4VEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49184/EPW14030/ME3XA2** | **Lab Name: Chemtech Consulting Group**

Sample Number: ME3XA2	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location: A7-Effluent	pH: 1.3	Sample Date: 11/17/2020	Sample Time: 09:00:00
% Moisture:		% Solids:	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	71.4	J	ug/L	71.4	J	1.0	YES	S4VEM
Antimony	Target	60.0	U	ug/L	60.0	U	1.0	YES	S4VEM
Arsenic	Target	8.2	J-	ug/L	8.2	J	1.0	YES	S4VEM
Barium	Target	49.1	J	ug/L	49.1	J	1.0	YES	S4VEM
Beryllium	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Cadmium	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Calcium	Target	113000		ug/L	113000		1.0	YES	S4VEM
Chromium	Target	10.0	U	ug/L	10.0	U	1.0	YES	S4VEM
Cobalt	Target	50.0	U	ug/L	50.0	U	1.0	YES	S4VEM
Copper	Target	25.0	U	ug/L	25.0	U	1.0	YES	S4VEM
Iron	Target	876		ug/L	876		1.0	YES	S4VEM
Lead	Target	10.0	U	ug/L	10.0	U	1.0	YES	S4VEM
Magnesium	Target	51100		ug/L	51100		1.0	YES	S4VEM
Manganese	Target	75.5		ug/L	75.5		1.0	YES	S4VEM
Nickel	Target	40.0	U	ug/L	40.0	U	1.0	YES	S4VEM
Potassium	Target	5000	U	ug/L	5000	U	1.0	YES	S4VEM
Selenium	Target	35.0	U	ug/L	35.0	U	1.0	YES	S4VEM
Silver	Target	10.0	U	ug/L	10.0	U	1.0	YES	S4VEM
Sodium	Target	43400		ug/L	43400		1.0	YES	S4VEM
Thallium	Target	25.0	U	ug/L	25.0	U	1.0	YES	S4VEM
Vanadium	Target	50.0	U	ug/L	50.0	U	1.0	YES	S4VEM
Zinc	Target	60.0	U	ug/L	60.0	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49184/EPW14030/ME3XA2** | **Lab Name: Chemtech Consulting Group**

Sample Number: ME3XA2D	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH: 1.3	Sample Date: 11/17/2020	Sample Time: 09:00:00
% Moisture:		% Solids:	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	78.9	J	ug/L	78.9	J	1.0	YES	S4VEM
Antimony	Target	60.0	U	ug/L	60.0	U	1.0	YES	S4VEM
Arsenic	Target	8.3	J	ug/L	8.3	J	1.0	YES	S4VEM
Barium	Target	48.9	J	ug/L	48.9	J	1.0	YES	S4VEM
Beryllium	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Cadmium	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Calcium	Target	114000		ug/L	114000		1.0	YES	S4VEM
Chromium	Target	1.7	J	ug/L	1.7	J	1.0	YES	S4VEM
Cobalt	Target	50.0	U	ug/L	50.0	U	1.0	YES	S4VEM
Copper	Target	25.0	U	ug/L	25.0	U	1.0	YES	S4VEM
Iron	Target	904		ug/L	904		1.0	YES	S4VEM
Lead	Target	10.0	U	ug/L	10.0	U	1.0	YES	S4VEM
Magnesium	Target	51400		ug/L	51400		1.0	YES	S4VEM
Manganese	Target	78.2		ug/L	78.2		1.0	YES	S4VEM
Nickel	Target	40.0	U	ug/L	40.0	U	1.0	YES	S4VEM
Potassium	Target	5000	U	ug/L	5000	U	1.0	YES	S4VEM
Selenium	Target	35.0	U	ug/L	35.0	U	1.0	YES	S4VEM
Silver	Target	10.0	U	ug/L	10.0	U	1.0	YES	S4VEM
Sodium	Target	44200		ug/L	44200		1.0	YES	S4VEM
Thallium	Target	25.0	U	ug/L	25.0	U	1.0	YES	S4VEM
Vanadium	Target	50.0	U	ug/L	50.0	U	1.0	YES	S4VEM
Zinc	Target	8.4	J	ug/L	8.4	J	1.0	YES	S4VEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49184/EPW14030/ME3XA2** | **Lab Name: Chemtech Consulting Group**

Sample Number: ME3XA2L	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH: 1.3	Sample Date:	Sample Time:
% Moisture:		% Solids:	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	1000	U	ug/L	1000	U	5.0	YES	S4VEM
Antimony	Target	300	U	ug/L	300	U	5.0	YES	S4VEM
Arsenic	Target	50.0	U	ug/L	50.0	U	5.0	YES	S4VEM
Barium	Target	1000	U	ug/L	1000	U	5.0	YES	S4VEM
Beryllium	Target	25.0	U	ug/L	25.0	U	5.0	YES	S4VEM
Cadmium	Target	25.0	U	ug/L	25.0	U	5.0	YES	S4VEM
Calcium	Target	105000		ug/L	105000		5.0	YES	S4VEM
Chromium	Target	50.0	U	ug/L	50.0	U	5.0	YES	S4VEM
Cobalt	Target	250	U	ug/L	250	U	5.0	YES	S4VEM
Copper	Target	125	U	ug/L	125	U	5.0	YES	S4VEM
Iron	Target	806		ug/L	806		5.0	YES	S4VEM
Lead	Target	50.0	U	ug/L	50.0	U	5.0	YES	S4VEM
Magnesium	Target	47800		ug/L	47800		5.0	YES	S4VEM
Manganese	Target	71.5	J	ug/L	71.5	J	5.0	YES	S4VEM
Nickel	Target	200	U	ug/L	200	U	5.0	YES	S4VEM
Potassium	Target	25000	U	ug/L	25000	U	5.0	YES	S4VEM
Selenium	Target	175	U	ug/L	175	U	5.0	YES	S4VEM
Silver	Target	50.0	U	ug/L	50.0	U	5.0	YES	S4VEM
Sodium	Target	40800		ug/L	40800		5.0	YES	S4VEM
Thallium	Target	125	U	ug/L	125	U	5.0	YES	S4VEM
Vanadium	Target	250	U	ug/L	250	U	5.0	YES	S4VEM
Zinc	Target	300	U	ug/L	300	U	5.0	YES	S4VEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49184/EPW14030/ME3XA2** | **Lab Name: Chemtech Consulting Group**

Sample Number: ME3XA2S	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH: 1.3	Sample Date: 11/17/2020	Sample Time: 09:00:00
% Moisture:		% Solids:	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Spike	2170		ug/L	2170		1.0	YES	S4VEM
Antimony	Spike	105		ug/L	105		1.0	YES	S4VEM
Arsenic	Spike	49.1		ug/L	49.1		1.0	YES	S4VEM
Barium	Spike	2260		ug/L	2260		1.0	YES	S4VEM
Beryllium	Spike	57.6		ug/L	57.6		1.0	YES	S4VEM
Cadmium	Spike	53.5		ug/L	53.5		1.0	YES	S4VEM
Chromium	Spike	226		ug/L	226		1.0	YES	S4VEM
Cobalt	Spike	541		ug/L	541		1.0	YES	S4VEM
Copper	Spike	275		ug/L	275		1.0	YES	S4VEM
Iron	Spike	2030		ug/L	2030		1.0	YES	S4VEM
Lead	Spike	23.6		ug/L	23.6		1.0	YES	S4VEM
Manganese	Spike	615		ug/L	615		1.0	YES	S4VEM
Nickel	Spike	553		ug/L	553		1.0	YES	S4VEM
Selenium	Spike	53.7		ug/L	53.7		1.0	YES	S4VEM
Silver	Spike	55.7		ug/L	55.7		1.0	YES	S4VEM
Thallium	Spike	57.8		ug/L	57.8		1.0	YES	S4VEM
Vanadium	Spike	562		ug/L	562		1.0	YES	S4VEM
Zinc	Spike	573		ug/L	573		1.0	YES	S4VEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49184/EPW14030/ME3XA2** | **Lab Name: Chemtech Consulting Group**

Sample Number: ME3XA3	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location: A7-Influent	pH: 1.3	Sample Date: 11/17/2020	Sample Time: 10:00:00
% Moisture:		% Solids:	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	62.3	J	ug/L	62.3	J	1.0	YES	S4VEM
Antimony	Target	60.0	U	ug/L	60.0	U	1.0	YES	S4VEM
Arsenic	Target	17.1	J-	ug/L	17.1		1.0	YES	S4VEM
Barium	Target	53.7	J	ug/L	53.7	J	1.0	YES	S4VEM
Beryllium	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Cadmium	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Calcium	Target	115000		ug/L	115000		1.0	YES	S4VEM
Chromium	Target	2.1	J	ug/L	2.1	J	1.0	YES	S4VEM
Cobalt	Target	50.0	U	ug/L	50.0	U	1.0	YES	S4VEM
Copper	Target	25.0	U	ug/L	25.0	U	1.0	YES	S4VEM
Iron	Target	4080		ug/L	4080		1.0	YES	S4VEM
Lead	Target	10.0	U	ug/L	10.0	U	1.0	YES	S4VEM
Magnesium	Target	51000		ug/L	51000		1.0	YES	S4VEM
Manganese	Target	78.2		ug/L	78.2		1.0	YES	S4VEM
Nickel	Target	40.0	U	ug/L	40.0	U	1.0	YES	S4VEM
Potassium	Target	5000	U	ug/L	5000	U	1.0	YES	S4VEM
Selenium	Target	35.0	U	ug/L	35.0	U	1.0	YES	S4VEM
Silver	Target	10.0	U	ug/L	10.0	U	1.0	YES	S4VEM
Sodium	Target	40300		ug/L	40300		1.0	YES	S4VEM
Thallium	Target	25.0	U	ug/L	25.0	U	1.0	YES	S4VEM
Vanadium	Target	50.0	U	ug/L	50.0	U	1.0	YES	S4VEM
Zinc	Target	31.4	J	ug/L	31.4	J	1.0	YES	S4VEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49184/EPW14030/ME3XA2** | **Lab Name: Chemtech Consulting Group**

Sample Number: PBW231	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location:	pH: 2	Sample Date:	Sample Time:
% Moisture:		% Solids:	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aluminum	Target	200	U	ug/L	200	U	1.0	YES	S4VEM
Antimony	Target	60.0	U	ug/L	60.0	U	1.0	YES	S4VEM
Arsenic	Target	10.0	U	ug/L	10.0	U	1.0	YES	S4VEM
Barium	Target	200	U	ug/L	200	U	1.0	YES	S4VEM
Beryllium	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Cadmium	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Calcium	Target	5000	U	ug/L	5000	U	1.0	YES	S4VEM
Chromium	Target	10.0	U	ug/L	10.0	U	1.0	YES	S4VEM
Cobalt	Target	50.0	U	ug/L	50.0	U	1.0	YES	S4VEM
Copper	Target	25.0	U	ug/L	25.0	U	1.0	YES	S4VEM
Iron	Target	100	U	ug/L	100	U	1.0	YES	S4VEM
Lead	Target	10.0	U	ug/L	10.0	U	1.0	YES	S4VEM
Magnesium	Target	5000	U	ug/L	5000	U	1.0	YES	S4VEM
Manganese	Target	15.0	U	ug/L	15.0	U	1.0	YES	S4VEM
Nickel	Target	40.0	U	ug/L	40.0	U	1.0	YES	S4VEM
Potassium	Target	5000	U	ug/L	5000	U	1.0	YES	S4VEM
Selenium	Target	35.0	U	ug/L	35.0	U	1.0	YES	S4VEM
Silver	Target	10.0	U	ug/L	10.0	U	1.0	YES	S4VEM
Sodium	Target	5000	U	ug/L	5000	U	1.0	YES	S4VEM
Thallium	Target	25.0	U	ug/L	25.0	U	1.0	YES	S4VEM
Vanadium	Target	50.0	U	ug/L	50.0	U	1.0	YES	S4VEM
Zinc	Target	60.0	U	ug/L	60.0	U	1.0	YES	S4VEM

Techlaw Document Controlled Number: 83139-1-23-604-DV-0035
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND AND EMERGENCY MANAGEMENT DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: January 11, 2021

FROM: Steffanie Tobin, TechLaw Inc.
Contractor, Environmental Services Assistance Team (ESAT)

THROUGH: Michelle Kerr
Region 5 ESAT Contracting Officer's Representative

TO: Data User: CDM Smith
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Stage_4_Validation_Electronic_and_Manual (S4VEM)

We have reviewed the data for the following case:

Site Name: Southeast Rockford Groundwater Contamination (IL)

Case Number: 49184 SDG Number: ME3XA2

Number and Type of Samples: 2 waters (ICP/AES)

Sample Numbers: ME3XA2, ME3XA3

Laboratory: Chemtech Hrs. for Review: _____

Following are our findings:

Case No: 49184 SDG No: ME3XA2
Site Name: Southeast Rockford (IL) Laboratory: CHM

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Two (2) water samples, numbered ME3XA2 and ME3XA3, were collected November 17, 2020. The lab received the samples November 18, 2020 in good condition. All samples were analyzed for metals. All samples were analyzed using the CLP SOW ISM02.4 analysis procedures. The data were reviewed according to the QAPP for Area 7 GMZ Southeast Rockford Groundwater Contamination Site, the January 2017 NFG for ISM02.4 (EPA-540-R-2017-001) and the Region 5 Inorganic CLP Validation SOP, DCN 83074-8-33-607-SO-1138.

The analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

No samples were identified as field blank or field duplicates.

The sample results have been reviewed for compliance with the QAPP and all non-compliances are described in Section 8. – QAPP Compliance.

Case No: 49184 SDG No: ME3XA2
Site Name: Southeast Rockford (IL) Laboratory: CHM

1. PRESERVATION AND HOLDING TIMES:

NONE FOUND.

2. CALIBRATIONS:

NONE FOUND.

3. BLANKS:

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.

Hits less than 5 times the blank are qualified "J-".

Arsenic
ME3XA2, ME3XA3

4. MATRIX SPIKE AND LAB CONTROL SAMPLE:

NONE FOUND.

5. LABORATORY AND FIELD DUPLICATE:

NONE FOUND.

6. ANALYSIS:

NONE FOUND.

7. SAMPLE RESULTS:

EXES-790
The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

Aluminum
ME3XA2, ME3XA3

Arsenic
ME3XA2

Barium
ME3XA2, ME3XA3

Chromium
ME3XA3

Zinc
ME3XA3

8. QAPP COMPLIANCE:

The analytical package fulfilled the component QC requirements of QAPP Worksheets #12, #15, #19, #35, and #36.

Case No: 49184
SDG No: ME3XA2
Site Name: Southeast Rockford (IL)
Laboratory: CHM

Validation Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Reviewed by: Steffanie Tobin /Techlaw-ESAT
Date: February 11, 2021

CASE_NUMBER	SAMPLE_DELIVERY_GROUP	SAMPLE_ID	CAS_NUMBER	ANALYTE
49184	ME3XA2	ME3XA2D	7429-90-5	Aluminum
49184	ME3XA2	ME3XA2D	7440-36-0	Antimony
49184	ME3XA2	ME3XA2D	7440-38-2	Arsenic
49184	ME3XA2	ME3XA2D	7440-39-3	Barium
49184	ME3XA2	ME3XA2D	7440-41-7	Beryllium
49184	ME3XA2	ME3XA2D	7440-43-9	Cadmium
49184	ME3XA2	ME3XA2D	7440-70-2	Calcium
49184	ME3XA2	ME3XA2D	7440-47-3	Chromium
49184	ME3XA2	ME3XA2D	7440-48-4	Cobalt
49184	ME3XA2	ME3XA2D	7440-50-8	Copper
49184	ME3XA2	ME3XA2D	7439-89-6	Iron
49184	ME3XA2	ME3XA2D	7439-92-1	Lead
49184	ME3XA2	ME3XA2D	7439-95-4	Magnesium
49184	ME3XA2	ME3XA2D	7439-96-5	Manganese
49184	ME3XA2	ME3XA2D	7440-02-0	Nickel
49184	ME3XA2	ME3XA2D	7440-09-7	Potassium
49184	ME3XA2	ME3XA2D	7782-49-2	Selenium
49184	ME3XA2	ME3XA2D	7440-22-4	Silver
49184	ME3XA2	ME3XA2D	7440-23-5	Sodium
49184	ME3XA2	ME3XA2D	7440-28-0	Thallium
49184	ME3XA2	ME3XA2D	7440-62-2	Vanadium
49184	ME3XA2	ME3XA2D	7440-66-6	Zinc
49184	ME3XA2	ME3XA2	7429-90-5	Aluminum
49184	ME3XA2	ME3XA2	7440-36-0	Antimony
49184	ME3XA2	ME3XA2	7440-38-2	Arsenic
49184	ME3XA2	ME3XA2	7440-39-3	Barium
49184	ME3XA2	ME3XA2	7440-41-7	Beryllium
49184	ME3XA2	ME3XA2	7440-43-9	Cadmium
49184	ME3XA2	ME3XA2	7440-70-2	Calcium
49184	ME3XA2	ME3XA2	7440-47-3	Chromium
49184	ME3XA2	ME3XA2	7440-48-4	Cobalt
49184	ME3XA2	ME3XA2	7440-50-8	Copper
49184	ME3XA2	ME3XA2	7439-89-6	Iron
49184	ME3XA2	ME3XA2	7439-92-1	Lead
49184	ME3XA2	ME3XA2	7439-95-4	Magnesium
49184	ME3XA2	ME3XA2	7439-96-5	Manganese
49184	ME3XA2	ME3XA2	7440-02-0	Nickel
49184	ME3XA2	ME3XA2	7440-09-7	Potassium
49184	ME3XA2	ME3XA2	7782-49-2	Selenium
49184	ME3XA2	ME3XA2	7440-22-4	Silver
49184	ME3XA2	ME3XA2	7440-23-5	Sodium
49184	ME3XA2	ME3XA2	7440-28-0	Thallium
49184	ME3XA2	ME3XA2	7440-62-2	Vanadium
49184	ME3XA2	ME3XA2	7440-66-6	Zinc
49184	ME3XA2	ME3XA3	7429-90-5	Aluminum
49184	ME3XA2	ME3XA3	7440-36-0	Antimony
49184	ME3XA2	ME3XA3	7440-38-2	Arsenic
49184	ME3XA2	ME3XA3	7440-39-3	Barium
49184	ME3XA2	ME3XA3	7440-41-7	Beryllium
49184	ME3XA2	ME3XA3	7440-43-9	Cadmium
49184	ME3XA2	ME3XA3	7440-70-2	Calcium

49184	ME3XA2	ME3XA3	7440-47-3	Chromium
49184	ME3XA2	ME3XA3	7440-48-4	Cobalt
49184	ME3XA2	ME3XA3	7440-50-8	Copper
49184	ME3XA2	ME3XA3	7439-89-6	Iron
49184	ME3XA2	ME3XA3	7439-92-1	Lead
49184	ME3XA2	ME3XA3	7439-95-4	Magnesium
49184	ME3XA2	ME3XA3	7439-96-5	Manganese
49184	ME3XA2	ME3XA3	7440-02-0	Nickel
49184	ME3XA2	ME3XA3	7440-09-7	Potassium
49184	ME3XA2	ME3XA3	7782-49-2	Selenium
49184	ME3XA2	ME3XA3	7440-22-4	Silver
49184	ME3XA2	ME3XA3	7440-23-5	Sodium
49184	ME3XA2	ME3XA3	7440-28-0	Thallium
49184	ME3XA2	ME3XA3	7440-62-2	Vanadium
49184	ME3XA2	ME3XA3	7440-66-6	Zinc
49184	ME3XA2	LCS231	7429-90-5	Aluminum
49184	ME3XA2	LCS231	7440-36-0	Antimony
49184	ME3XA2	LCS231	7440-38-2	Arsenic
49184	ME3XA2	LCS231	7440-39-3	Barium
49184	ME3XA2	LCS231	7440-41-7	Beryllium
49184	ME3XA2	LCS231	7440-43-9	Cadmium
49184	ME3XA2	LCS231	7440-70-2	Calcium
49184	ME3XA2	LCS231	7440-47-3	Chromium
49184	ME3XA2	LCS231	7440-48-4	Cobalt
49184	ME3XA2	LCS231	7440-50-8	Copper
49184	ME3XA2	LCS231	7439-89-6	Iron
49184	ME3XA2	LCS231	7439-92-1	Lead
49184	ME3XA2	LCS231	7439-95-4	Magnesium
49184	ME3XA2	LCS231	7439-96-5	Manganese
49184	ME3XA2	LCS231	7440-02-0	Nickel
49184	ME3XA2	LCS231	7440-09-7	Potassium
49184	ME3XA2	LCS231	7782-49-2	Selenium
49184	ME3XA2	LCS231	7440-22-4	Silver
49184	ME3XA2	LCS231	7440-23-5	Sodium
49184	ME3XA2	LCS231	7440-28-0	Thallium
49184	ME3XA2	LCS231	7440-62-2	Vanadium
49184	ME3XA2	LCS231	7440-66-6	Zinc
49184	ME3XA2	ME3XA2S	7429-90-5	Aluminum
49184	ME3XA2	ME3XA2S	7440-36-0	Antimony
49184	ME3XA2	ME3XA2S	7440-38-2	Arsenic
49184	ME3XA2	ME3XA2S	7440-39-3	Barium
49184	ME3XA2	ME3XA2S	7440-41-7	Beryllium
49184	ME3XA2	ME3XA2S	7440-43-9	Cadmium
49184	ME3XA2	ME3XA2S	7440-47-3	Chromium
49184	ME3XA2	ME3XA2S	7440-48-4	Cobalt
49184	ME3XA2	ME3XA2S	7440-50-8	Copper
49184	ME3XA2	ME3XA2S	7439-89-6	Iron
49184	ME3XA2	ME3XA2S	7439-92-1	Lead
49184	ME3XA2	ME3XA2S	7439-96-5	Manganese
49184	ME3XA2	ME3XA2S	7440-02-0	Nickel
49184	ME3XA2	ME3XA2S	7782-49-2	Selenium
49184	ME3XA2	ME3XA2S	7440-22-4	Silver

49184	ME3XA2	ME3XA2S	7440-28-0	Thallium
49184	ME3XA2	ME3XA2S	7440-62-2	Vanadium
49184	ME3XA2	ME3XA2S	7440-66-6	Zinc
49184	ME3XA2	PBW231	7429-90-5	Aluminum
49184	ME3XA2	PBW231	7440-36-0	Antimony
49184	ME3XA2	PBW231	7440-38-2	Arsenic
49184	ME3XA2	PBW231	7440-39-3	Barium
49184	ME3XA2	PBW231	7440-41-7	Beryllium
49184	ME3XA2	PBW231	7440-43-9	Cadmium
49184	ME3XA2	PBW231	7440-70-2	Calcium
49184	ME3XA2	PBW231	7440-47-3	Chromium
49184	ME3XA2	PBW231	7440-48-4	Cobalt
49184	ME3XA2	PBW231	7440-50-8	Copper
49184	ME3XA2	PBW231	7439-89-6	Iron
49184	ME3XA2	PBW231	7439-92-1	Lead
49184	ME3XA2	PBW231	7439-95-4	Magnesium
49184	ME3XA2	PBW231	7439-96-5	Manganese
49184	ME3XA2	PBW231	7440-02-0	Nickel
49184	ME3XA2	PBW231	7440-09-7	Potassium
49184	ME3XA2	PBW231	7782-49-2	Selenium
49184	ME3XA2	PBW231	7440-22-4	Silver
49184	ME3XA2	PBW231	7440-23-5	Sodium
49184	ME3XA2	PBW231	7440-28-0	Thallium
49184	ME3XA2	PBW231	7440-62-2	Vanadium
49184	ME3XA2	PBW231	7440-66-6	Zinc

FINAL_RESULT	RESULT_UNITS	FINAL_VALIDATION_QUALIFIER	DATA_VAL_LABEL
78.9	ug/L	J	S4VEM
60.0	ug/L	U	S4VEM
8.3	ug/L	J	S4VEM
48.9	ug/L	J	S4VEM
5.0	ug/L	U	S4VEM
5.0	ug/L	U	S4VEM
114000	ug/L		S4VEM
1.7	ug/L	J	S4VEM
50.0	ug/L	U	S4VEM
25.0	ug/L	U	S4VEM
904	ug/L		S4VEM
10.0	ug/L	U	S4VEM
51400	ug/L		S4VEM
78.2	ug/L		S4VEM
40.0	ug/L	U	S4VEM
5000	ug/L	U	S4VEM
35.0	ug/L	U	S4VEM
10.0	ug/L	U	S4VEM
44200	ug/L		S4VEM
25.0	ug/L	U	S4VEM
50.0	ug/L	U	S4VEM
8.4	ug/L	J	S4VEM
71.4	ug/L	J	S4VEM
60.0	ug/L	U	S4VEM
8.2	ug/L	J-	S4VEM
49.1	ug/L	J	S4VEM
5.0	ug/L	U	S4VEM
5.0	ug/L	U	S4VEM
113000	ug/L		S4VEM
10.0	ug/L	U	S4VEM
50.0	ug/L	U	S4VEM
25.0	ug/L	U	S4VEM
876	ug/L		S4VEM
10.0	ug/L	U	S4VEM
51100	ug/L		S4VEM
75.5	ug/L		S4VEM
40.0	ug/L	U	S4VEM
5000	ug/L	U	S4VEM
35.0	ug/L	U	S4VEM
10.0	ug/L	U	S4VEM
43400	ug/L		S4VEM
25.0	ug/L	U	S4VEM
50.0	ug/L	U	S4VEM
60.0	ug/L	U	S4VEM
62.3	ug/L	J	S4VEM
60.0	ug/L	U	S4VEM
17.1	ug/L	J-	S4VEM
53.7	ug/L	J	S4VEM
5.0	ug/L	U	S4VEM
5.0	ug/L	U	S4VEM
115000	ug/L		S4VEM

2.1	ug/L	J	S4VEM
50.0	ug/L	U	S4VEM
25.0	ug/L	U	S4VEM
4080	ug/L		S4VEM
10.0	ug/L	U	S4VEM
51000	ug/L		S4VEM
78.2	ug/L		S4VEM
40.0	ug/L	U	S4VEM
5000	ug/L	U	S4VEM
35.0	ug/L	U	S4VEM
10.0	ug/L	U	S4VEM
40300	ug/L		S4VEM
25.0	ug/L	U	S4VEM
50.0	ug/L	U	S4VEM
31.4	ug/L	J	S4VEM
451	ug/L		S4VEM
129	ug/L		S4VEM
20.1	ug/L		S4VEM
484	ug/L		S4VEM
11.5	ug/L		S4VEM
10.9	ug/L		S4VEM
10900	ug/L		S4VEM
23.6	ug/L		S4VEM
107	ug/L		S4VEM
57.7	ug/L		S4VEM
232	ug/L		S4VEM
21.9	ug/L		S4VEM
11100	ug/L		S4VEM
34.3	ug/L		S4VEM
90.1	ug/L		S4VEM
10500	ug/L		S4VEM
74.0	ug/L		S4VEM
21.5	ug/L		S4VEM
10300	ug/L		S4VEM
57.6	ug/L		S4VEM
111	ug/L		S4VEM
126	ug/L		S4VEM
2170	ug/L		S4VEM
105	ug/L		S4VEM
49.1	ug/L		S4VEM
2260	ug/L		S4VEM
57.6	ug/L		S4VEM
53.5	ug/L		S4VEM
226	ug/L		S4VEM
541	ug/L		S4VEM
275	ug/L		S4VEM
2030	ug/L		S4VEM
23.6	ug/L		S4VEM
615	ug/L		S4VEM
553	ug/L		S4VEM
53.7	ug/L		S4VEM
55.7	ug/L		S4VEM

57.8	ug/L		S4VEM
562	ug/L		S4VEM
573	ug/L		S4VEM
200	ug/L	U	S4VEM
60.0	ug/L	U	S4VEM
10.0	ug/L	U	S4VEM
200	ug/L	U	S4VEM
5.0	ug/L	U	S4VEM
5.0	ug/L	U	S4VEM
5000	ug/L	U	S4VEM
10.0	ug/L	U	S4VEM
50.0	ug/L	U	S4VEM
25.0	ug/L	U	S4VEM
100	ug/L	U	S4VEM
10.0	ug/L	U	S4VEM
5000	ug/L	U	S4VEM
15.0	ug/L	U	S4VEM
40.0	ug/L	U	S4VEM
5000	ug/L	U	S4VEM
35.0	ug/L	U	S4VEM
10.0	ug/L	U	S4VEM
5000	ug/L	U	S4VEM
25.0	ug/L	U	S4VEM
50.0	ug/L	U	S4VEM
60.0	ug/L	U	S4VEM

SAMPLE_ADJUSTED_CRQL	SAMPLE_ADJUSTED_MDL	LAB_RESULT	LAB_QUALIFIERS
200	21.8	78.9	J
60.0	5.8	60.0	U
10.0	4.5	8.3	J
200	10.4	48.9	J
5.0	0.60	5.0	U
5.0	0.54	5.0	U
5000	187	114000	
10.0	0.95	1.7	J
50.0	3.3	50.0	U
25.0	3.9	25.0	U
100	20.5	904	
10.0	2.9	10.0	U
5000	205	51400	
15.0	2.4	78.2	
40.0	3.7	40.0	U
5000	240	5000	U
35.0	7.8	35.0	U
10.0	0.68	10.0	U
5000	338	44200	
25.0	4.1	25.0	U
50.0	5.5	50.0	U
60.0	7.9	8.4	J
200	21.8	71.4	J
60.0	5.8	60.0	U
10.0	4.5	8.2	J
200	10.4	49.1	J
5.0	0.60	5.0	U
5.0	0.54	5.0	U
5000	187	113000	
10.0	0.95	10.0	U
50.0	3.3	50.0	U
25.0	3.9	25.0	U
100	20.5	876	
10.0	2.9	10.0	U
5000	205	51100	
15.0	2.4	75.5	
40.0	3.7	40.0	U
5000	240	5000	U
35.0	7.8	35.0	U
10.0	0.68	10.0	U
5000	338	43400	
25.0	4.1	25.0	U
50.0	5.5	50.0	U
60.0	7.9	60.0	U
200	21.8	62.3	J
60.0	5.8	60.0	U
10.0	4.5	17.1	
200	10.4	53.7	J
5.0	0.60	5.0	U
5.0	0.54	5.0	U
5000	187	115000	

10.0	0.95	2.1	J
50.0	3.3	50.0	U
25.0	3.9	25.0	U
100	20.5	4080	
10.0	2.9	10.0	U
5000	205	51000	
15.0	2.4	78.2	
40.0	3.7	40.0	U
5000	240	5000	U
35.0	7.8	35.0	U
10.0	0.68	10.0	U
5000	338	40300	
25.0	4.1	25.0	U
50.0	5.5	50.0	U
60.0	7.9	31.4	J
200	21.8	451	
60.0	5.8	129	
10.0	4.5	20.1	
200	10.4	484	
5.0	0.60	11.5	
5.0	0.54	10.9	
5000	187	10900	
10.0	0.95	23.6	
50.0	3.3	107	
25.0	3.9	57.7	
100	20.5	232	
10.0	2.9	21.9	
5000	205	11100	
15.0	2.4	34.3	
40.0	3.7	90.1	
5000	240	10500	
35.0	7.8	74.0	
10.0	0.68	21.5	
5000	338	10300	
25.0	4.1	57.6	
50.0	5.5	111	
60.0	7.9	126	
200	21.8	2170	
60.0	5.8	105	
10.0	4.5	49.1	
200	10.4	2260	
5.0	0.60	57.6	
5.0	0.54	53.5	
10.0	0.95	226	
50.0	3.3	541	
25.0	3.9	275	
100	20.5	2030	
10.0	2.9	23.6	
15.0	2.4	615	
40.0	3.7	553	
35.0	7.8	53.7	
10.0	0.68	55.7	

25.0	4.1	57.8	
50.0	5.5	562	
60.0	7.9	573	
200	21.8	200	U
60.0	5.8	60.0	U
10.0	4.5	10.0	U
200	10.4	200	U
5.0	0.60	5.0	U
5.0	0.54	5.0	U
5000	187	5000	U
10.0	0.95	10.0	U
50.0	3.3	50.0	U
25.0	3.9	25.0	U
100	20.5	100	U
10.0	2.9	10.0	U
5000	205	5000	U
15.0	2.4	15.0	U
40.0	3.7	40.0	U
5000	240	5000	U
35.0	7.8	35.0	U
10.0	0.68	10.0	U
5000	338	5000	U
25.0	4.1	25.0	U
50.0	5.5	50.0	U
60.0	7.9	60.0	U

METHOD_CRQL	NONMOISTURE_SAMPLE_ADJUSTED_CRQL	CRQL_UNITS	INSTRUMENT_MDL
200	200	ug/L	21.8
60	60.0	ug/L	5.8
10	10.0	ug/L	4.5
200	200	ug/L	10.4
5	5.0	ug/L	0.60
5	5.0	ug/L	0.54
5000	5000	ug/L	187
10	10.0	ug/L	0.95
50	50.0	ug/L	3.3
25	25.0	ug/L	3.9
100	100	ug/L	20.5
10	10.0	ug/L	2.9
5000	5000	ug/L	205
15	15.0	ug/L	2.4
40	40.0	ug/L	3.7
5000	5000	ug/L	240
35	35.0	ug/L	7.8
10	10.0	ug/L	0.68
5000	5000	ug/L	338
25	25.0	ug/L	4.1
50	50.0	ug/L	5.5
60	60.0	ug/L	7.9
200	200	ug/L	21.8
60	60.0	ug/L	5.8
10	10.0	ug/L	4.5
200	200	ug/L	10.4
5	5.0	ug/L	0.60
5	5.0	ug/L	0.54
5000	5000	ug/L	187
10	10.0	ug/L	0.95
50	50.0	ug/L	3.3
25	25.0	ug/L	3.9
100	100	ug/L	20.5
10	10.0	ug/L	2.9
5000	5000	ug/L	205
15	15.0	ug/L	2.4
40	40.0	ug/L	3.7
5000	5000	ug/L	240
35	35.0	ug/L	7.8
10	10.0	ug/L	0.68
5000	5000	ug/L	338
25	25.0	ug/L	4.1
50	50.0	ug/L	5.5
60	60.0	ug/L	7.9
200	200	ug/L	21.8
60	60.0	ug/L	5.8
10	10.0	ug/L	4.5
200	200	ug/L	10.4
5	5.0	ug/L	0.60
5	5.0	ug/L	0.54
5000	5000	ug/L	187

10	10.0	ug/L	0.95
50	50.0	ug/L	3.3
25	25.0	ug/L	3.9
100	100	ug/L	20.5
10	10.0	ug/L	2.9
5000	5000	ug/L	205
15	15.0	ug/L	2.4
40	40.0	ug/L	3.7
5000	5000	ug/L	240
35	35.0	ug/L	7.8
10	10.0	ug/L	0.68
5000	5000	ug/L	338
25	25.0	ug/L	4.1
50	50.0	ug/L	5.5
60	60.0	ug/L	7.9
200	200	ug/L	21.8
60	60.0	ug/L	5.8
10	10.0	ug/L	4.5
200	200	ug/L	10.4
5	5.0	ug/L	0.60
5	5.0	ug/L	0.54
5000	5000	ug/L	187
10	10.0	ug/L	0.95
50	50.0	ug/L	3.3
25	25.0	ug/L	3.9
100	100	ug/L	20.5
10	10.0	ug/L	2.9
5000	5000	ug/L	205
15	15.0	ug/L	2.4
40	40.0	ug/L	3.7
5000	5000	ug/L	240
35	35.0	ug/L	7.8
10	10.0	ug/L	0.68
5000	5000	ug/L	338
25	25.0	ug/L	4.1
50	50.0	ug/L	5.5
60	60.0	ug/L	7.9
200	200	ug/L	21.8
60	60.0	ug/L	5.8
10	10.0	ug/L	4.5
200	200	ug/L	10.4
5	5.0	ug/L	0.60
5	5.0	ug/L	0.54
10	10.0	ug/L	0.95
50	50.0	ug/L	3.3
25	25.0	ug/L	3.9
100	100	ug/L	20.5
10	10.0	ug/L	2.9
15	15.0	ug/L	2.4
40	40.0	ug/L	3.7
35	35.0	ug/L	7.8
10	10.0	ug/L	0.68

25	25.0	ug/L	4.1
50	50.0	ug/L	5.5
60	60.0	ug/L	7.9
200	200	ug/L	21.8
60	60.0	ug/L	5.8
10	10.0	ug/L	4.5
200	200	ug/L	10.4
5	5.0	ug/L	0.60
5	5.0	ug/L	0.54
5000	5000	ug/L	187
10	10.0	ug/L	0.95
50	50.0	ug/L	3.3
25	25.0	ug/L	3.9
100	100	ug/L	20.5
10	10.0	ug/L	2.9
5000	5000	ug/L	205
15	15.0	ug/L	2.4
40	40.0	ug/L	3.7
5000	5000	ug/L	240
35	35.0	ug/L	7.8
10	10.0	ug/L	0.68
5000	5000	ug/L	338
25	25.0	ug/L	4.1
50	50.0	ug/L	5.5
60	60.0	ug/L	7.9

NONMOISTURE_SAMPLE_ADJUSTED_MDL	MDL_UNITS	PERCENT_SOLIDS	PERCENT_MOISTURE
21.8	ug/L		
5.8	ug/L		
4.5	ug/L		
10.4	ug/L		
0.60	ug/L		
0.54	ug/L		
187	ug/L		
0.95	ug/L		
3.3	ug/L		
3.9	ug/L		
20.5	ug/L		
2.9	ug/L		
205	ug/L		
2.4	ug/L		
3.7	ug/L		
240	ug/L		
7.8	ug/L		
0.68	ug/L		
338	ug/L		
4.1	ug/L		
5.5	ug/L		
7.9	ug/L		
21.8	ug/L		
5.8	ug/L		
4.5	ug/L		
10.4	ug/L		
0.60	ug/L		
0.54	ug/L		
187	ug/L		
0.95	ug/L		
3.3	ug/L		
3.9	ug/L		
20.5	ug/L		
2.9	ug/L		
205	ug/L		
2.4	ug/L		
3.7	ug/L		
240	ug/L		
7.8	ug/L		
0.68	ug/L		
338	ug/L		
4.1	ug/L		
5.5	ug/L		
7.9	ug/L		
21.8	ug/L		
5.8	ug/L		
4.5	ug/L		
10.4	ug/L		
0.60	ug/L		
0.54	ug/L		
187	ug/L		

0.95	ug/L
3.3	ug/L
3.9	ug/L
20.5	ug/L
2.9	ug/L
205	ug/L
2.4	ug/L
3.7	ug/L
240	ug/L
7.8	ug/L
0.68	ug/L
338	ug/L
4.1	ug/L
5.5	ug/L
7.9	ug/L
21.8	ug/L
5.8	ug/L
4.5	ug/L
10.4	ug/L
0.60	ug/L
0.54	ug/L
187	ug/L
0.95	ug/L
3.3	ug/L
3.9	ug/L
20.5	ug/L
2.9	ug/L
205	ug/L
2.4	ug/L
3.7	ug/L
240	ug/L
7.8	ug/L
0.68	ug/L
338	ug/L
4.1	ug/L
5.5	ug/L
7.9	ug/L
21.8	ug/L
5.8	ug/L
4.5	ug/L
10.4	ug/L
0.60	ug/L
0.54	ug/L
0.95	ug/L
3.3	ug/L
3.9	ug/L
20.5	ug/L
2.9	ug/L
2.4	ug/L
3.7	ug/L
7.8	ug/L
0.68	ug/L

4.1	ug/L
5.5	ug/L
7.9	ug/L
21.8	ug/L
5.8	ug/L
4.5	ug/L
10.4	ug/L
0.60	ug/L
0.54	ug/L
187	ug/L
0.95	ug/L
3.3	ug/L
3.9	ug/L
20.5	ug/L
2.9	ug/L
205	ug/L
2.4	ug/L
3.7	ug/L
240	ug/L
7.8	ug/L
0.68	ug/L
338	ug/L
4.1	ug/L
5.5	ug/L
7.9	ug/L

DILUTION_FACTOR	ANALYSIS_FRACTION	ANALYSIS_LEVEL	REPORTING_BASIS
1.0	ICP_AES		Wet
1.0	ICP_AES		Wet
1.0	ICP_AES		Wet
1.0	ICP_AES		Wet
1.0	ICP_AES		Wet
1.0	ICP_AES		Wet
1.0	ICP_AES		Wet
1.0	ICP_AES		Wet
1.0	ICP_AES		Wet
1.0	ICP_AES		Wet
1.0	ICP_AES		Wet
1.0	ICP_AES		Wet
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1.0	ICP_AES		Wet
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1.0	ICP_AES		Wet
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1.0	ICP_AES		Wet
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1.0	ICP_AES		Wet
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1.0	ICP_AES		Wet
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1.0	ICP_AES	Wet
1.0	ICP_AES	Wet
1.0	ICP_AES	Wet
1.0	ICP_AES	Wet
1.0	ICP_AES	Wet
1.0	ICP_AES	Wet
1.0	ICP_AES	Wet
1.0	ICP_AES	Wet

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	PB133231BS	PB133231BSLB112152	P5
	PB133231BS	PB133231BSLB112152	P5
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	PB133231BS	PB133231BSLB112152	P5
	PB133231BS	PB133231BSLB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
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5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
5-111520-210841-0059	L4789-03	L4789-03LB112152	P5
	PB133231BL	PB133231BLLB112152	P5
	PB133231BL	PB133231BLLB112152	P5
	PB133231BL	PB133231BLLB112152	P5
	PB133231BL	PB133231BLLB112152	P5
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	PB133231BL	PB133231BLLB112152	P5
	PB133231BL	PB133231BLLB112152	P5

SAMPLE_ALIQUOT	SAMPLE_ALIQUOT_UNITS	FINAL_VOLUME	FINAL_VOLUME_UNITS
50.0	mL	50	mL
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SOIL_EXTRACT_VOLUME	SOIL_EXTRACT_VOLUME_UNITS	SOIL_ALIQUOT_VOLUME

SOIL_ALIQUOT_VOLUME_UNITS	PURGE_VOLUME	PURGE_VOLUME_UNITS	SPIKE_ADDED

400
120
20
400
10
10
10000
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100
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200
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10000
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80
10000
70
20
10000
50
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120
2000
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2000
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250
1000
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50
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50
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CONCENTRATED_EXTRACT_VOLUME	CONCENTRATED_EXTRACT_VOLUME_UNITS

INJECTION_VOLUME	INJECTION_VOLUME_UNITS	PREPARATION_METHOD	GPC_CLEANUP
		200.7	
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GPC_FACTOR	DECANTED	PH	COLOR_BEFORE	COLOR_AFTER	CLARITY_BEFORE
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CLARITY_AFTER	TEXTURE	ARTIFACTS	COOLER_TEMP	SAMPLE_FRACTION
			2.1	Total
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METHOD_SPECIATION	SAMPLE_SUBMATRIX	SAMPLING_REASON
	Ground Water	Remedial Action
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SAMPLE_COLLECTION_METHOD	EPA_REGION	STATION_LOCATION	LOCATION_DESCRIPTION
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Grab	EPA Region 5	A7-Effluent	
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Grab	EPA Region 5	A7-Effluent	
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Grab	EPA Region 5	A7-Effluent	
Grab	EPA Region 5	A7-Effluent	
Grab	EPA Region 5	A7-Effluent	
Grab	EPA Region 5	A7-Effluent	
Grab	EPA Region 5	A7-Influent	
Grab	EPA Region 5	A7-Influent	
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SCRIBE_SAMPLE_NUMBER	LOCATION_ZONE	LATITUDE	LONGITUDE	DATUM	GEOMETHOD
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SURFACE_ELEVATION SURFACE_ELEVATION_UNITS SURFACE_ELEVATION_METHOD

SURFACE_ELEVATION_DATUM	TOP_DEPTH	BOTTOM_DEPTH	TOP_DEPTH_UNITS

BOTTOM_DEPTH_UNITS	SAMPLER_NAME	SAMPLING_COMPANY_CONTACT
	John Grabs	John Grabs
	John Grabs	John Grabs
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SAMPLING_COMPANY_NAME	PROJECT_NAME
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SITE_PROJECT_CODE	SITE_EVENT_ID	STATE	CITY	CERCLIS
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	1/11/2012 2:42:05 PM	IL	ROCKFORD	ILD981000417
	1/11/2012 2:42:05 PM	IL	ROCKFORD	ILD981000417
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1/11/2012 2:42:05 PM	IL	ROCKFORD	ILD981000417

SCRIBE_SITE_NUMBER	SCRIBE_NET_PROJECT_ID	SCRIBE_SAMPLES_ID	SAMPLE_TAG

SCRIBE_COMMENT	FIELD_SAMPLE_TYPE	VERSION_CODE	DATA_PROVIDER
	Spike	1.0	CLP
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PARENT_SAMPLE_NAME	PARENT_SAMPLE_LOCATION	LAB_REPLICATE_TYPE
ME3XA2	A7-Effluent	D
ME3XA2	A7-Effluent	D
ME3XA2	A7-Effluent	D
ME3XA2	A7-Effluent	D
ME3XA2	A7-Effluent	D
ME3XA2	A7-Effluent	D
ME3XA2	A7-Effluent	D
ME3XA2	A7-Effluent	D
ME3XA2	A7-Effluent	D
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ME3XA2	A7-Effluent	D
ME3XA2	A7-Effluent	D
ME3XA2	A7-Effluent	D

ME3XA2	A7-Effluent
ME3XA2	A7-Effluent
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ME3XA2	A7-Effluent

ME3XA2	A7-Effluent
ME3XA2	A7-Effluent
ME3XA2	A7-Effluent

SAMPLE_SOURCE	ORGANIC_YN	PRESERVATIVE	TEST_BATCH_TYPE	PREP_BATCH_ID
FIELD	N	HNO3	PREP	PB133231
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LAB	N	HNO3	PREP	PB133231
LAB	N	HNO3	PREP	PB133231

ANALYSIS_TYPE	SAMPLE_ANALYSIS_LOCATION	COLUMN_ID	RUN_BATCH_ID
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ANALYSIS_BATCH_ID	ANALYST_NAME	ANALYTE_TYPE	REPORTABLE_RESULT	DETECT_FLAG
CCV075LB112152	BH	Target	YES	Y
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	Y
CCV075LB112152	BH	Target	YES	Y
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	Y
CCV075LB112152	BH	Target	YES	Y
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CCV075LB112152	BH	Target	YES	Y
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N

CCV075LB112152	BH	Target	YES	Y
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
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CCV075LB112152	BH	Spike	YES	Y
CCV075LB112152	BH	Spike	YES	Y
CCV075LB112152	BH	Spike	YES	Y
CCV075LB112152	BH	Spike	YES	Y
CCV075LB112152	BH	Spike	YES	Y
CCV075LB112152	BH	Spike	YES	Y
CCV075LB112152	BH	Spike	YES	Y

CCV075LB112152	BH	Spike	YES	Y
CCV075LB112152	BH	Spike	YES	Y
CCV075LB112152	BH	Spike	YES	Y
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N
CCV075LB112152	BH	Target	YES	N

TIC_RETENTION_TIME	TIC_RETENTION_TIME_UNITS	EXPECTED_VALUE	QC_ORIGINAL_CONC

71.4
0.0
8.2
49.1
0.0
0.0
0.0
0.0
0.0
876
0.0
75.5
0.0
0.0
0.0

0.0
0.0
0.0

QC_SPIKE_MEASURED	QC_SPIKE_RECOVERY	QC_DUP_ORIGINAL_CONC
		71.4
		0.0
		8.2
		49.1
		0.0
		0.0
		113000
		0.0
		0.0
		0.0
		876
		0.0
		51100
		75.5
		0.0
		0.0
		0.0
		0.0
		43400
		0.0
		0.0
		0.0

451	113
129	108
20.1	101
484	121
11.5	115
10.9	109
10900	109
23.6	118
107	107
57.7	115
232	116
21.9	110
11100	111
34.3	114
90.1	113
10500	105
74.0	106
21.5	108
10300	103
57.6	115
111	111
126	105
2170	105
105	105
49.1	102
2260	111
57.6	115
53.5	107
226	113
541	108
275	110
2030	116
23.6	118
615	108
553	111
53.7	107
55.7	111

57.8	116
562	112
573	115

QC_DUP_SPIKE_ADDED	QC_DUP_SPIKE_MEASURED	QC_DUP_SPIKE_RECOVERY	QC_RPD
	78.9		
	0.0		
	8.3		
	48.9		
	0.0		
	0.0		
	114000		
	1.7		
	0.0		
	0.0		
	904		
	0.0		
	51400		
	78.2		
	0.0		
	0.0		
	0.0		
	0.0		
	44200		
	0.0		
	0.0		
	8.4		

QC_SPIKE_LCL	QC_SPIKE_UCL	QC_RPD_CL	QC_SPIKE_STATUS_FLAG

70	130
50	150
70	130
70	130
70	130
70	130
70	130
70	130
70	130
70	130
70	130
70	130
70	130
70	130
70	130
70	130
70	130
50	150
70	130
70	130
70	130
70	130
75	125
75	125
75	125
75	125
75	125
75	125
75	125
75	125
75	125
75	125
75	125
75	125
75	125
75	125
75	125
75	125

75	125
75	125
75	125

QC_DUP_SPIKE_STATUS_FLAG	QC_RPD_STATUS	SAMPLE_RUN	PARAMID	PAR_VAL_UNCERT
*				
*				

RESULT_ERROR_DELTA INTERPRETED_QUALIFIERS SYS_LOC_CODE TASK_CODE

COLLECTION_QUARTER	SAMPLE_CLASS	COMPOSITE_DESC	LEACH_LOT	LEACHATE_METHOD

LEACHATE_DATE	LEACHATE_TIME	RESP	CUSTOM_FIELD_1	CUSTOM_FIELD_2

CUSTOM_FIELD_3 COMMENT