

Appendix F

December 14, 2018

Troy Bussey Jr.
Pioneer Technologies Corporation
5205 Corporate Ctr. Ct. SE
Suite A
Olympia, WA 98503-5901

**RE: Port of Tacoma, Washington
Ex-situ Stabilization/Treatability Study for Arsenic**

Troy:

The following letter report is a summary of the ex-situ stabilization/treatability study conducted by Free Flow Technologies, Ltd. (Free Flow).

Pioneer Technologies Corporation (Pioneer) submitted four (4) soil samples to Free Flow for the completion of a treatability study for Arsenic. The four samples received were as follows:

- PTC-102 Upper Aquifer (PTC-102 Upper)
- PTC-102 First Aquitard (PTC-102 First)
- PTC-103 Upper Aquifer (PTC-103 Upper)
- PTC-103 First Aquitard (PTC-103 First)

All samples generated as part of this treatability study were submitted to Pace Analytical Laboratories in Minneapolis, Minnesota. This facility holds a Washington State laboratory certification.

The treatability study was completed in steps or phases as follows:

- Submit a grab sample from each Pioneer sample to the laboratory for analysis of Total Arsenic, TCLP Arsenic and pH. (initial UNTREATED samples). The results of this analysis showed that all four Pioneer samples were hazardous for Arsenic.
- Upon receipt of the untreated analytical results, Free Flow prepared a sample from each Pioneer sample with a dosage of 3% and 6% by weight of the FF100-FS treatment reagent (TREATED FF100-FS 3% and TREATED FF100-FS 6%). The laboratory analytical results showed the following:
 - o The FF100-FS at 3% and 6% by weight was able to reduce the TCLP Arsenic concentration in samples PTC-102 First and PTC-103 First, but not below the hazardous waste characteristic level for Arsenic (5.0 mg/L);

- The FF100-FS at 3% and 6% by weight was able to reduce the TCLP Arsenic concentration in sample PTC-103 Upper to less than 5.0 mg/L; and
- The FF100-FS at 3% and 6% by weight had no treatment effect on the TCLP Arsenic concentration in sample PTC-102 Upper.
- Upon receipt of this first set of treatment results Free Flow contacted Troy Bussey to discuss the results and the potential treatment using one of Free Flow's other treatment reagents (FF-FS). From this conversation, Pioneer gave Free Flow approval to submit a treated sample from Pioneer samples PTC-102 First, PTC-102 Upper and PTC-103 First.
- Free Flow proceeded to prepare a sample from Pioneer samples PTC-102 First, PTC-102 Upper and PTC-103 First with a dosage of 7% by weight of the FF-FS treatment reagent (TREATED FF-FS 7%). The laboratory analytical results showed the following:
 - The FF-FS at 7% by weight was able to reduce the TCLP Arsenic concentration in samples PTC-102 First and PTC-103 First, but not below the hazardous waste characteristic level for Arsenic (5.0 mg/L); and,
 - The FF-FS at 7% by weight had no treatment effect on the TCLP Arsenic concentration in sample PTC-102 Upper.

A summary table of all the laboratory analytical results is included in Attachment A and copies of the laboratory analytical reports are included in Attachment B.

Free Flow greatly appreciates the opportunity to be of service to Pioneer Technologies Corporation.

If you have any questions, please feel free to contact me at 815/636-0166 (office) or cproctor@freeflowtech.com.

Sincerely,



Cristopher Proctor, PE
Sr. Project Manager

Attachments:

- A. Summary Table of Results
- B. Laboratory Analytical Reports

Attachment A

**Pioneer Technologies Corporation
Port of Tacoma, Washington
Ex-situ Stabilization/Treatability Study for Arsenic**

SAMPLE ID	PTC-102 FIRST	PTC-102 UPPER	PTC-103 FIRST	PTC-103 UPPER
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UNTREATED				
TCLP Arsenic (mg/L)	181	97.3	139	8.2
Total Arsenic (mg/kg)	9070	35000	8060	1090
pH	8.2	8.5	7.9	8.4

TREATED (FF100-FS) - 3%				
TCLP Arsenic (mg/L)	49.8	128	42.9	0.19
pH	8.9	9.2	9	10.2
% change from untreated	-72.5%	31.6%	-69.1%	-97.7%

TREATED (FF100-FS) - 6%				
TCLP Arsenic (mg/L)	25.7	142	48.1	0.21
pH	9.7	8.6	9	11.2
% change from untreated	-85.8%	45.9%	-65.4%	-97.4%

TREATED (FF-FS) - 7%				
TCLP Arsenic (mg/L)	24.8	137	10.5	-----
pH	9.3	9.6	9.5	-----
% change from untreated	-86.3%	40.8%	-92.5%	-----

Treatment Criteria	
RCRA TCLP Level for Arsenic	5.0 mg/L

Attachment B

October 10, 2018

Cris Proctor
Free Flow Technologies
4920 Forest Hills Rd
Loves Park, IL 61111

RE: Project: 476.03 PTC
Pace Project No.: 10450017

Dear Cris Proctor:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Jared Dickinson
jared.dickinson@pacelabs.com
(612)607-1700
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 476.03 PTC

Pace Project No.: 10450017

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: 476.03 PTC

Pace Project No.: 10450017

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10450017001	PTC-102 FIRST	Solid	10/02/18 13:56	10/03/18 07:30
10450017002	PTC-102 UPPER	Solid	10/02/18 13:53	10/03/18 07:30
10450017003	PTC-103 FIRST	Solid	10/02/18 13:41	10/03/18 07:30
10450017004	PTC-103 UPPER	Solid	10/02/18 13:38	10/03/18 07:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 476.03 PTC

Pace Project No.: 10450017

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10450017001	PTC-102 FIRST	EPA 6010D	DM	1	PASI-M
		EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 9045D	AR3	1	PASI-M
10450017002	PTC-102 UPPER	EPA 6010D	DM	1	PASI-M
		EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 9045D	AR3	1	PASI-M
10450017003	PTC-103 FIRST	EPA 6010D	DM	1	PASI-M
		EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 9045D	AR3	1	PASI-M
10450017004	PTC-103 UPPER	EPA 6010D	DM	1	PASI-M
		EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 9045D	AR3	1	PASI-M

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ANALYTICAL RESULTS

Project: 476.03 PTC

Pace Project No.: 10450017

Sample: PTC-102 FIRST **Lab ID: 10450017001** Collected: 10/02/18 13:56 Received: 10/03/18 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 10/05/18 09:57 Initial pH: 8.88; Final pH: 1.79								
Arsenic	181	mg/L	0.50	5	10/05/18 13:33	10/08/18 17:04	7440-38-2	
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050								
Arsenic	9070	mg/kg	15.8	10	10/05/18 05:37	10/10/18 11:48	7440-38-2	M6
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Percent Moisture	38.7	%	0.10	1		10/08/18 15:50		
9045D pH								
Analytical Method: EPA 9045D								
pH at 25 Degrees C	8.2	Std. Units	0.10	1		10/05/18 12:47		

Sample: PTC-102 UPPER **Lab ID: 10450017002** Collected: 10/02/18 13:53 Received: 10/03/18 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 10/05/18 09:57 Initial pH: 9.37; Final pH: 1.77								
Arsenic	97.3	mg/L	0.50	5	10/05/18 13:33	10/08/18 17:05	7440-38-2	
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050								
Arsenic	35000	mg/kg	117	100	10/05/18 05:37	10/10/18 13:37	7440-38-2	
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Percent Moisture	17.8	%	0.10	1		10/08/18 15:50		
9045D pH								
Analytical Method: EPA 9045D								
pH at 25 Degrees C	8.5	Std. Units	0.10	1		10/05/18 12:46		

Sample: PTC-103 FIRST **Lab ID: 10450017003** Collected: 10/02/18 13:41 Received: 10/03/18 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 10/05/18 09:57 Initial pH: 8.87; Final pH: 1.79								
Arsenic	139	mg/L	0.50	5	10/05/18 13:33	10/08/18 17:07	7440-38-2	
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050								
Arsenic	8060	mg/kg	19.5	10	10/05/18 05:37	10/10/18 13:40	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 476.03 PTC

Pace Project No.: 10450017

Sample: PTC-103 FIRST **Lab ID: 10450017003** Collected: 10/02/18 13:41 Received: 10/03/18 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974								
Percent Moisture	53.0	%	0.10	1		10/08/18 15:51		
9045D pH Analytical Method: EPA 9045D								
pH at 25 Degrees C	7.9	Std. Units	0.10	1		10/05/18 12:45		

Sample: PTC-103 UPPER **Lab ID: 10450017004** Collected: 10/02/18 13:38 Received: 10/03/18 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP Analytical Method: EPA 6010D Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 10/05/18 09:57 Initial pH: 8.03; Final pH: 1.61								
Arsenic	8.2	mg/L	0.10	1	10/05/18 13:33	10/08/18 13:10	7440-38-2	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050								
Arsenic	1090	mg/kg	1.2	1	10/05/18 05:37	10/08/18 20:37	7440-38-2	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974								
Percent Moisture	17.1	%	0.10	1		10/08/18 15:51		
9045D pH Analytical Method: EPA 9045D								
pH at 25 Degrees C	8.4	Std. Units	0.10	1		10/05/18 12:42		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 476.03 PTC
Pace Project No.: 10450017

QC Batch: 567473 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010 Analysis Description: 6010D TCLP
Associated Lab Samples: 10450017001, 10450017002, 10450017003, 10450017004

METHOD BLANK: 3079330 Matrix: Water
Associated Lab Samples: 10450017001, 10450017002, 10450017003, 10450017004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.019	0.10	10/08/18 12:22	

METHOD BLANK: 3077607 Matrix: Water
Associated Lab Samples: 10450017001, 10450017002, 10450017003, 10450017004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.019	0.10	10/08/18 13:12	

METHOD BLANK: 3077608 Matrix: Water
Associated Lab Samples: 10450017001, 10450017002, 10450017003, 10450017004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.019	0.10	10/08/18 13:13	

METHOD BLANK: 3079192 Matrix: Water
Associated Lab Samples: 10450017001, 10450017002, 10450017003, 10450017004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.019	0.10	10/08/18 13:15	

LABORATORY CONTROL SAMPLE: 3079331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	5	5.1	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3079332 3079333

Parameter	Units	10446325002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	5	5	5.1	5.2	102	103	75-125	1	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 476.03 PTC

Pace Project No.: 10450017

QC Batch: 567077

Analysis Method: EPA 6010D

QC Batch Method: EPA 3050

Analysis Description: 6010D Solids

Associated Lab Samples: 10450017001, 10450017002, 10450017003, 10450017004

METHOD BLANK: 3077143

Matrix: Solid

Associated Lab Samples: 10450017001, 10450017002, 10450017003, 10450017004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.20	0.99	10/08/18 20:05	

LABORATORY CONTROL SAMPLE: 3077144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	49.5	48.5	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3077145 3077146

Parameter	Units	3077145		3077146		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10450017001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic	mg/kg	9070	74.9	77	8900	10100	-220	1390	75-125	13	20 M6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 476.03 PTC

Pace Project No.: 10450017

QC Batch: 567865

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight / %M by ASTM D2974

Associated Lab Samples: 10450017001, 10450017002, 10450017003, 10450017004

SAMPLE DUPLICATE: 3081947

Parameter	Units	10449975001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.7	6.4	4	30	

SAMPLE DUPLICATE: 3081948

Parameter	Units	10450072002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.8	28.1	5	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 476.03 PTC

Pace Project No.: 10450017

QC Batch: 567405 Analysis Method: EPA 9045D

QC Batch Method: EPA 9045D Analysis Description: 9045D pH

Associated Lab Samples: 10450017001, 10450017002, 10450017003, 10450017004

LABORATORY CONTROL SAMPLE: 3079171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.0	100	98-102	

SAMPLE DUPLICATE: 3079172

Parameter	Units	10450284001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	11.4	11.4	1	3	

SAMPLE DUPLICATE: 3079173

Parameter	Units	10450284002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	1	3	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 476.03 PTC
Pace Project No.: 10450017

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 476.03 PTC

Pace Project No.: 10450017

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10450017001	PTC-102 FIRST	EPA 3010	567473	EPA 6010D	567779
10450017002	PTC-102 UPPER	EPA 3010	567473	EPA 6010D	567779
10450017003	PTC-103 FIRST	EPA 3010	567473	EPA 6010D	567779
10450017004	PTC-103 UPPER	EPA 3010	567473	EPA 6010D	567779
10450017001	PTC-102 FIRST	EPA 3050	567077	EPA 6010D	567524
10450017002	PTC-102 UPPER	EPA 3050	567077	EPA 6010D	567524
10450017003	PTC-103 FIRST	EPA 3050	567077	EPA 6010D	567524
10450017004	PTC-103 UPPER	EPA 3050	567077	EPA 6010D	567524
10450017001	PTC-102 FIRST	ASTM D2974	567865		
10450017002	PTC-102 UPPER	ASTM D2974	567865		
10450017003	PTC-103 FIRST	ASTM D2974	567865		
10450017004	PTC-103 UPPER	ASTM D2974	567865		
10450017001	PTC-102 FIRST	EPA 9045D	567405		
10450017002	PTC-102 UPPER	EPA 9045D	567405		
10450017003	PTC-103 FIRST	EPA 9045D	567405		
10450017004	PTC-103 UPPER	EPA 9045D	567405		

REPORT OF LABORATORY ANALYSIS

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WO#: 10450017



10450017

CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=D1 Water F=Methanol G=NaOH
 H= Sodium Bisulfate Solution I= Sodium Thiosulfate J=Other

PACE LAB #	CLIENT FIELD ID	MS/MSD <input type="checkbox"/> On your sample (billable) <input type="checkbox"/> EPA Level III (billable) <input type="checkbox"/> EPA Level IV	Matrix Codes W= Water DW= Drinking Water GW= Ground Water SW= Surface Water S= Soil SI= Sludge WP= Wipe	COLLECTION		MATRIX	ANALYSES REQUESTED	V/T	Pick Letter	FILTERED? (YES/NO)	PRESERVATION (CODE)*
				DATE	TIME						
	PTC-102 FIRST	<input type="checkbox"/> On your sample (billable) <input type="checkbox"/> NOT needed on your sample		11/18/13	1356	S	TOTAL AS TCLD AS PH				
	PTC-102 UPPER			11/18/13	1353	U					
	PTC-103 FIRST			11/18/13	1341	U					
	PTC-103 UPPER			11/18/13	1358	U					

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	Same
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	
CLIENT COMMENTS	
LAB COMMENTS (Lab Use Only)	001
	002
	003
	004

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: *Chris Proctor* Date/Time: 10/23/18 7:30
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____

Received By: *Angie Veda Pace* Date/Time: 10/23/18 7:30
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

Receipt Temp = 19.6 °C

Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present
 Intact / Not Intact

PAGE Project No. _____

Sample Condition Upon Receipt

Client Name: FREE FLOW TECH Project #: WO#: 10450017

Courier: Fed Ex UPS USPS Client
 Commercial Pace Speedee Other:
 Tracking Number: 8130 2003 6071

WO#: 10450017
 PM: CT1 Due Date: 10/10/18
 CLIENT: FreeFlowTech

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No
 Optional: Proj. Due Date: Proj. Name:

Packing Material: Bubble Wrap Bubble Bags None Other: PB Temp Blank? Yes No

Thermometer Used: G87A9170600254 G87A9155100842 Type of Ice: Wet Blue None Dry Melted

Cooler Temp Read (°C): 19.4 Cooler Temp Corrected (°C): 19.6 Biological Tissue Frozen? Yes No N/A
 Temp should be above freezing to 6°C Correction Factor: +0.2 Date and Initials of Person Examining Contents: GPT 10/03/18

USDA Regulated Soil (N/A, water sample) Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? Matrix: <u>SL</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. <u>NO DATE + TIME ON CONTAINERS</u>
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: Lot # of added preservative:
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Pace Trip Blank Lot # (if purchased): <u>N/A</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____ Field Data Required? Yes No
 Comments/Resolution: _____

Project Manager Review:

 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).
 Date: 10/3/18

LABELLED BY: EPT

November 01, 2018

Cris Proctor
Free Flow Technologies
4920 Forest Hills Rd
Loves Park, IL 61111

RE: Project: 476.03 PTC
Pace Project No.: 10452645

Dear Cris Proctor:

Enclosed are the analytical results for sample(s) received by the laboratory on October 23, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Jared Dickinson
jared.dickinson@pacelabs.com
(612)607-1700
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 476.03 PTC

Pace Project No.: 10452645

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: 476.03 PTC

Pace Project No.: 10452645

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10452645001	PTC 102 FIRST + 3%	Solid	10/22/18 00:00	10/23/18 06:55
10452645002	PTC 102 FIRST + 6%	Solid	10/22/18 00:00	10/23/18 06:55
10452645003	PTC 102 UPPER + 3%	Solid	10/22/18 00:00	10/23/18 06:55
10452645004	PTC 102 UPPER + 6%	Solid	10/22/18 00:00	10/23/18 06:55
10452645005	PTC 103 FIRST + 3%	Solid	10/22/18 00:00	10/23/18 06:55
10452645006	PTC 103 FIRST + 6%	Solid	10/22/18 00:00	10/23/18 06:55
10452645007	PTC 103 UPPER + 3%	Solid	10/22/18 00:00	10/23/18 06:55
10452645008	PTC 103 UPPER + 6%	Solid	10/22/18 00:00	10/23/18 06:55

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SAMPLE ANALYTE COUNT

Project: 476.03 PTC

Pace Project No.: 10452645

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10452645001	PTC 102 FIRST + 3%	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 9045D	AJS	1	PASI-M
10452645002	PTC 102 FIRST + 6%	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 9045D	AJS	1	PASI-M
10452645003	PTC 102 UPPER + 3%	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 9045D	AJS	1	PASI-M
10452645004	PTC 102 UPPER + 6%	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 9045D	AJS	1	PASI-M
10452645005	PTC 103 FIRST + 3%	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 9045D	AJS	1	PASI-M
10452645006	PTC 103 FIRST + 6%	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 9045D	AJS	1	PASI-M
10452645007	PTC 103 UPPER + 3%	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 9045D	AR3	1	PASI-M
10452645008	PTC 103 UPPER + 6%	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 9045D	AR3	1	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 476.03 PTC

Pace Project No.: 10452645

Sample: PTC 102 FIRST + 3% **Lab ID: 10452645001** Collected: 10/22/18 00:00 Received: 10/23/18 06:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 10/25/18 12:07 Initial pH: 9.39; Final pH: 1.82								
Arsenic	49.8	mg/L	0.10	1	10/25/18 13:41	10/26/18 09:53	7440-38-2	
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Percent Moisture	35.8	%	0.10	1		10/25/18 12:54		
9045D pH								
Analytical Method: EPA 9045D								
pH at 25 Degrees C	8.9	Std. Units	0.10	1		10/25/18 12:22		

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ANALYTICAL RESULTS

Project: 476.03 PTC

Pace Project No.: 10452645

Sample: PTC 102 FIRST + 6% **Lab ID: 10452645002** Collected: 10/22/18 00:00 Received: 10/23/18 06:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 10/25/18 12:07 Initial pH: 9.95; Final pH: 1.98								
Arsenic	25.7	mg/L	0.10	1	10/25/18 13:41	10/26/18 09:54	7440-38-2	
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Percent Moisture	29.7	%	0.10	1		10/25/18 12:55		
9045D pH								
Analytical Method: EPA 9045D								
pH at 25 Degrees C	9.7	Std. Units	0.10	1		10/25/18 12:23		

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ANALYTICAL RESULTS

Project: 476.03 PTC

Pace Project No.: 10452645

Sample: PTC 102 UPPER + 3% **Lab ID: 10452645003** Collected: 10/22/18 00:00 Received: 10/23/18 06:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 10/25/18 12:07 Initial pH: 9.35; Final pH: 2								
Arsenic	128	mg/L	0.50	5	10/25/18 13:41	10/26/18 10:20	7440-38-2	
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Percent Moisture	21.9	%	0.10	1		10/25/18 12:55		
9045D pH								
Analytical Method: EPA 9045D								
pH at 25 Degrees C	9.2	Std. Units	0.10	1		10/25/18 12:24		

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ANALYTICAL RESULTS

Project: 476.03 PTC

Pace Project No.: 10452645

Sample: PTC 102 UPPER + 6% **Lab ID: 10452645004** Collected: 10/22/18 00:00 Received: 10/23/18 06:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 10/25/18 12:07 Initial pH: 8.89; Final pH: 1.78								
Arsenic	142	mg/L	0.50	5	10/25/18 13:41	10/26/18 10:21	7440-38-2	
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Percent Moisture	18.3	%	0.10	1		10/25/18 12:55		
9045D pH								
Analytical Method: EPA 9045D								
pH at 25 Degrees C	8.6	Std. Units	0.10	1		10/25/18 12:25		

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ANALYTICAL RESULTS

Project: 476.03 PTC

Pace Project No.: 10452645

Sample: PTC 103 FIRST + 3% **Lab ID: 10452645005** Collected: 10/22/18 00:00 Received: 10/23/18 06:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 10/25/18 12:07 Initial pH: 9.26; Final pH: 2.05								
Arsenic	42.9	mg/L	0.10	1	10/25/18 13:41	10/26/18 09:59	7440-38-2	
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Percent Moisture	42.1	%	0.10	1		10/25/18 12:55		
9045D pH								
Analytical Method: EPA 9045D								
pH at 25 Degrees C	9.0	Std. Units	0.10	1		10/25/18 12:26		

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ANALYTICAL RESULTS

Project: 476.03 PTC

Pace Project No.: 10452645

Sample: PTC 103 FIRST + 6% **Lab ID: 10452645006** Collected: 10/22/18 00:00 Received: 10/23/18 06:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 10/25/18 12:07 Initial pH: 9.03; Final pH: 1.94								
Arsenic	48.1	mg/L	0.10	1	10/25/18 13:41	10/26/18 10:01	7440-38-2	
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Percent Moisture	55.8	%	0.10	1		10/25/18 12:55		
9045D pH								
Analytical Method: EPA 9045D								
pH at 25 Degrees C	9.0	Std. Units	0.10	1		10/25/18 12:27		

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ANALYTICAL RESULTS

Project: 476.03 PTC

Pace Project No.: 10452645

Sample: PTC 103 UPPER + 3% **Lab ID: 10452645007** Collected: 10/22/18 00:00 Received: 10/23/18 06:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 10/25/18 12:07 Initial pH: 6.28; Final pH: 1.76								
Arsenic	0.19	mg/L	0.10	1	10/25/18 13:41	10/26/18 10:03	7440-38-2	
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Percent Moisture	17.9	%	0.10	1		10/25/18 12:56		
9045D pH								
Analytical Method: EPA 9045D								
pH at 25 Degrees C	10.2	Std. Units	0.10	1		10/30/18 10:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 476.03 PTC

Pace Project No.: 10452645

Sample: PTC 103 UPPER + 6% **Lab ID: 10452645008** Collected: 10/22/18 00:00 Received: 10/23/18 06:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 10/25/18 12:07 Initial pH: 6.85; Final pH: 1.87								
Arsenic	0.21	mg/L	0.10	1	10/25/18 13:41	10/26/18 10:04	7440-38-2	
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Percent Moisture	17.8	%	0.10	1		10/25/18 12:56		
9045D pH								
Analytical Method: EPA 9045D								
pH at 25 Degrees C	11.2	Std. Units	0.10	1		10/30/18 10:47		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 476.03 PTC
Pace Project No.: 10452645

QC Batch: 571517 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010 Analysis Description: 6010D TCLP
Associated Lab Samples: 10452645001, 10452645002, 10452645003, 10452645004, 10452645005, 10452645006, 10452645007, 10452645008

METHOD BLANK: 3100576 Matrix: Water
Associated Lab Samples: 10452645001, 10452645002, 10452645003, 10452645004, 10452645005, 10452645006, 10452645007, 10452645008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.10	10/26/18 09:27	

METHOD BLANK: 3099198 Matrix: Water
Associated Lab Samples: 10452645001, 10452645002, 10452645003, 10452645004, 10452645005, 10452645006, 10452645007, 10452645008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.10	10/26/18 10:23	

METHOD BLANK: 3099199 Matrix: Water
Associated Lab Samples: 10452645001, 10452645002, 10452645003, 10452645004, 10452645005, 10452645006, 10452645007, 10452645008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.10	10/26/18 10:25	

LABORATORY CONTROL SAMPLE: 3100577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3100578 3100579

Parameter	Units	10450602004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	5	5	5.1	5.1	101	101	75-125	0	30	

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QUALITY CONTROL DATA

Project: 476.03 PTC

Pace Project No.: 10452645

QC Batch:	571415	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
Associated Lab Samples:	10452645001, 10452645002, 10452645003, 10452645004, 10452645005, 10452645006, 10452645007, 10452645008		

SAMPLE DUPLICATE: 3100195

Parameter	Units	10452324001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.6	14.7	1	30	

SAMPLE DUPLICATE: 3100439

Parameter	Units	10452645001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	35.8	35.6	1	30	

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QUALITY CONTROL DATA

Project: 476.03 PTC
Pace Project No.: 10452645

QC Batch: 571171 Analysis Method: EPA 9045D
QC Batch Method: EPA 9045D Analysis Description: 9045D pH
Associated Lab Samples: 10452645001, 10452645002, 10452645003, 10452645004, 10452645005, 10452645006

LABORATORY CONTROL SAMPLE: 3098911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.0	101	98-102	

SAMPLE DUPLICATE: 3098912

Parameter	Units	10452623001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	12.0	12.0	0	3	

SAMPLE DUPLICATE: 3098913

Parameter	Units	10452623002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.3	8.2	1	3	

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QUALITY CONTROL DATA

Project: 476.03 PTC

Pace Project No.: 10452645

QC Batch: 571987 Analysis Method: EPA 9045D

QC Batch Method: EPA 9045D Analysis Description: 9045D pH

Associated Lab Samples: 10452645007, 10452645008

LABORATORY CONTROL SAMPLE: 3103744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.1	101	98-102	

SAMPLE DUPLICATE: 3103745

Parameter	Units	10452607002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	1	3	

SAMPLE DUPLICATE: 3103746

Parameter	Units	10453276001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	11.9	12.0	0	3	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 476.03 PTC

Pace Project No.: 10452645

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 476.03 PTC

Pace Project No.: 10452645

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10452645001	PTC 102 FIRST + 3%	EPA 3010	571517	EPA 6010D	571673
10452645002	PTC 102 FIRST + 6%	EPA 3010	571517	EPA 6010D	571673
10452645003	PTC 102 UPPER + 3%	EPA 3010	571517	EPA 6010D	571673
10452645004	PTC 102 UPPER + 6%	EPA 3010	571517	EPA 6010D	571673
10452645005	PTC 103 FIRST + 3%	EPA 3010	571517	EPA 6010D	571673
10452645006	PTC 103 FIRST + 6%	EPA 3010	571517	EPA 6010D	571673
10452645007	PTC 103 UPPER + 3%	EPA 3010	571517	EPA 6010D	571673
10452645008	PTC 103 UPPER + 6%	EPA 3010	571517	EPA 6010D	571673
10452645001	PTC 102 FIRST + 3%	ASTM D2974	571415		
10452645002	PTC 102 FIRST + 6%	ASTM D2974	571415		
10452645003	PTC 102 UPPER + 3%	ASTM D2974	571415		
10452645004	PTC 102 UPPER + 6%	ASTM D2974	571415		
10452645005	PTC 103 FIRST + 3%	ASTM D2974	571415		
10452645006	PTC 103 FIRST + 6%	ASTM D2974	571415		
10452645007	PTC 103 UPPER + 3%	ASTM D2974	571415		
10452645008	PTC 103 UPPER + 6%	ASTM D2974	571415		
10452645001	PTC 102 FIRST + 3%	EPA 9045D	571171		
10452645002	PTC 102 FIRST + 6%	EPA 9045D	571171		
10452645003	PTC 102 UPPER + 3%	EPA 9045D	571171		
10452645004	PTC 102 UPPER + 6%	EPA 9045D	571171		
10452645005	PTC 103 FIRST + 3%	EPA 9045D	571171		
10452645006	PTC 103 FIRST + 6%	EPA 9045D	571171		
10452645007	PTC 103 UPPER + 3%	EPA 9045D	571987		
10452645008	PTC 103 UPPER + 6%	EPA 9045D	571987		

REPORT OF LABORATORY ANALYSIS

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WO#: 10452645

UPPER MIDWEST RE
MN: 612-607-1700



CHAIN OF CUSTODY

Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Table with columns: Mail To Contact, Mail To Company, Mail To Address, Invoice To Contact, Invoice To Company, Invoice To Address, Invoice To Phone, CLIENT COMMENTS, LAB COMMENTS (Lab Use Only), Profile #

Table with columns: Y/N, Pick/Letter, Analytes Requested (As, Biota, Charcoal, Oil, Soil, Sludge, Water, Ww, WP)

Table with columns: FILTERED?, PRESERVATION (CODE)*, Matrix Codes, CLIENT FIELD ID, DATE, TIME, MATRIX

Administrative section including: Rush Turnaround Time Requested - Prelims, Date Needed, Transmit Prelim Rush Results by, Relinquished By, Received By, Date/Time, Receipt Temp, Sample Receipt pH, Cooler Custody Seal, Intact / Not Intact

Project Information section: Company Name (FREE FLOW TECH), Branch/Location (IL), Project Contact (CRIS PROCTOR), Project State (WASHINGTON), Sampled By (Print/Sign) (Lino Proctor)

Data Package Options section: EPA Level III, EPA Level IV, MS/MSD, Matrix Codes (Air, Water, Soil, Sludge, etc.)

Sample Condition Upon Receipt **Client Name:** Free Flow Tech **Project #** **WO#: 10452645**

Courier: Fed Ex UPS USPS Client
 Commercial Pace Speedee Other: _____

Tracking Number: 8130 2003 6049 **PM:** JDD **Due Date:** 10/30/18
CLIENT: FreeFlowTech

Custody Seal on Cooler/Box Present? Yes No **Seals Intact?** Yes No **Optional:** **Proj. Due Date:** **Proj. Name:**

Packing Material: Bubble Wrap Bubble Bags None Other: _____ **Temp Blank?** Yes No

Thermometer 687A9170600254 **Type of Ice:** Wet Blue None Dry Melted
Used: 687A9155100842

Cooler Temp Read (°C): 19.9 **Cooler Temp Corrected (°C):** 20.1 **Biological Tissue Frozen?** Yes No N/A
Temp should be above freezing to 6°C **Correction Factor:** +0.2 **Date and Initials of Person Examining Contents:** HE 10/23/18

USDA Regulated Soil (N/A, water sample)
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No
If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Matrix: <u>SL</u>	12. <u>NO TIME ON COC OR SAMPLE LABELS.</u>
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>NA</u>	

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ **Field Data Required?** Yes No
 Comments/Resolution: _____ Date/Time: _____

Project Manager Review: _____ **Date:** 10/23/18
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).
LABELLED BY: GPT

November 19, 2018

Cris Proctor
Free Flow Technologies
4920 Forest Hills Rd
Loves Park, IL 61111

RE: Project: 476.03 PTC
Pace Project No.: 10455177

Dear Cris Proctor:

Enclosed are the analytical results for sample(s) received by the laboratory on November 10, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Jared Dickinson
jared.dickinson@pacelabs.com
(612)607-1700
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 476.03 PTC

Pace Project No.: 10455177

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 476.03 PTC

Pace Project No.: 10455177

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10455177001	PTC102 FIRST+7%	Solid	11/09/18 00:00	11/10/18 10:00
10455177002	PTC103 FIRST+7%	Solid	11/09/18 00:00	11/10/18 10:00
10455177003	PTC102 UPPER+7%	Solid	11/09/18 00:00	11/10/18 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 476.03 PTC

Pace Project No.: 10455177

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10455177001	PTC102 FIRST+7%	EPA 6010D	DM	1	PASI-M
		EPA 9045D	AR3	1	PASI-M
10455177002	PTC103 FIRST+7%	EPA 6010D	DM	1	PASI-M
		EPA 9045D	AR3	1	PASI-M
10455177003	PTC102 UPPER+7%	EPA 6010D	DM	1	PASI-M
		EPA 9045D	AR3	1	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 476.03 PTC

Pace Project No.: 10455177

Sample: PTC102 FIRST+7% **Lab ID: 10455177001** Collected: 11/09/18 00:00 Received: 11/10/18 10:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 11/15/18 10:46 Initial pH: 9.98; Final pH: 2.57								
Arsenic	24.8	mg/L	0.50	1	11/15/18 12:39	11/16/18 10:28	7440-38-2	
9045D pH								
Analytical Method: EPA 9045D								
pH at 25 Degrees C	9.3	Std. Units	0.10	1		11/13/18 16:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 476.03 PTC

Pace Project No.: 10455177

Sample: PTC103 FIRST+7% **Lab ID: 10455177002** Collected: 11/09/18 00:00 Received: 11/10/18 10:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 11/15/18 10:46 Initial pH: 10.16; Final pH: 2.36								
Arsenic	10.5	mg/L	0.50	1	11/15/18 12:39	11/16/18 10:29	7440-38-2	
9045D pH								
Analytical Method: EPA 9045D								
pH at 25 Degrees C	9.5	Std. Units	0.10	1		11/13/18 16:32		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 476.03 PTC

Pace Project No.: 10455177

Sample: PTC102 UPPER+7% **Lab ID: 10455177003** Collected: 11/09/18 00:00 Received: 11/10/18 10:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 11/15/18 10:46 Initial pH: 9.68; Final pH: 2.43								
Arsenic	137	mg/L	2.5	5	11/15/18 12:39	11/16/18 10:47	7440-38-2	
9045D pH								
Analytical Method: EPA 9045D								
pH at 25 Degrees C	9.6	Std. Units	0.10	1		11/19/18 15:02		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 476.03 PTC

Pace Project No.: 10455177

QC Batch: 575776 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010 Analysis Description: 6010D TCLP
 Associated Lab Samples: 10455177001, 10455177002, 10455177003

METHOD BLANK: 3124443 Matrix: Water
 Associated Lab Samples: 10455177001, 10455177002, 10455177003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.50	11/16/18 10:03	

METHOD BLANK: 3123448 Matrix: Water
 Associated Lab Samples: 10455177001, 10455177002, 10455177003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.50	11/16/18 10:48	

METHOD BLANK: 3123449 Matrix: Water
 Associated Lab Samples: 10455177001, 10455177002, 10455177003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.50	11/16/18 10:50	

METHOD BLANK: 3124435 Matrix: Water
 Associated Lab Samples: 10455177001, 10455177002, 10455177003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.50	11/16/18 10:52	

LABORATORY CONTROL SAMPLE: 3124444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	5	4.6	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3124445 3124446

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	5	5	5.0	4.8	99	96	75-125	3	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 476.03 PTC

Pace Project No.: 10455177

QC Batch: 575145 Analysis Method: EPA 9045D

QC Batch Method: EPA 9045D Analysis Description: 9045D pH

Associated Lab Samples: 10455177001, 10455177002

LABORATORY CONTROL SAMPLE: 3121916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.0	99	98-102	

SAMPLE DUPLICATE: 3121917

Parameter	Units	10454916001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	10.2	10.3	1	3	

SAMPLE DUPLICATE: 3121918

Parameter	Units	10454916002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	9.0	9.0	0	3	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 476.03 PTC

Pace Project No.: 10455177

QC Batch: 576167 Analysis Method: EPA 9045D

QC Batch Method: EPA 9045D Analysis Description: 9045D pH

Associated Lab Samples: 10455177003

LABORATORY CONTROL SAMPLE: 3126356

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.0	100	98-102	

SAMPLE DUPLICATE: 3126357

Parameter	Units	10454510001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	11.6	11.6	0	3	

SAMPLE DUPLICATE: 3126358

Parameter	Units	10455243001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	12.4	12.5	1	3	E

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 476.03 PTC

Pace Project No.: 10455177

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 476.03 PTC

Pace Project No.: 10455177

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10455177001	PTC102 FIRST+7%	EPA 3010	575776	EPA 6010D	575971
10455177002	PTC103 FIRST+7%	EPA 3010	575776	EPA 6010D	575971
10455177003	PTC102 UPPER+7%	EPA 3010	575776	EPA 6010D	575971
10455177001	PTC102 FIRST+7%	EPA 9045D	575145		
10455177002	PTC103 FIRST+7%	EPA 9045D	575145		
10455177003	PTC102 UPPER+7%	EPA 9045D	576167		

REPORT OF LABORATORY ANALYSIS

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Company Name: TREE FLOWERS
Branch/Location: IL
Project Contact: Chris Proulx
Phone: 815 636 0166
Project Number: 476.03
Project Name: PTC
Project State: WASHINGTON
Sampled By (Print): *Chris Proulx*
Sampled By (Sign): *Chris Proulx*
PO #: 476.03

DATA PACKAGE OPTIONS
 EPA Level III (billable)
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

MATRIX CODES
 W = Water
 A = Air
 B = Biot
 C = Charcoal
 DW = Drinking Water
 GW = Ground Water
 SW = Surface Water
 MW = Waste Water
 SI = Sludge
 WP = Wipe

CLIENT FIELD ID
 DATE
 TIME
 MATRIX

FACE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX	ANALYSES REQUESTED	RECEIVED BY	DATE/TIME	RELINQUISHED BY	DATE/TIME
	PTC 102 FIRST + 7%	11/9/18	11	S	PTCP ARSENIC PH	<i>Chris Proulx</i>	11/9/18 1130	<i>Chris Proulx</i>	
	PTC 103 FIRST + 7%	11/9/18	11	S		<i>Chris Proulx</i>		<i>Chris Proulx</i>	
	PTC 102 UPPER + 7%	11/9/18	11	S		<i>Chris Proulx</i>		<i>Chris Proulx</i>	

CHAIN OF CUSTODY
 WQ#: 10455177
 10455177

H=None B=HCL C=H2SO4 D=HNO3 E=D Water F=Methanol G=NaOH
 I=Sodium Bisulfate Solution L=Sodium Thiosulfate J=Other

Quote #:
 Mail To Contact:
 Mail To Company:
 Mail To Address:
 Contact:
 Company:
 Address:

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:

Rush Turnaround Time Requested - Prelims
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:

Relinquished By: *Chris Proulx* Date/Time: 11/9/18 1130
 Received By: *Chris Proulx* Date/Time: 11/9/18 1130
 Relinquished By: *Chris Proulx* Date/Time: 11/9/18 1130
 Received By: *Chris Proulx* Date/Time: 11/9/18 1130
 Relinquished By: *Chris Proulx* Date/Time: 11/9/18 1130
 Received By: *Chris Proulx* Date/Time: 11/9/18 1130
 Relinquished By: *Chris Proulx* Date/Time: 11/9/18 1130
 Received By: *Chris Proulx* Date/Time: 11/9/18 1130

PACE Project No.
 Sample Receipt pH
 Receipt Temp = 11.8 °C
 OK / Adjusted
 Cooler Custody Seal Present / Not Present
 Intact / Not Intact





Document Name: **Sample Condition Upon Receipt Form** Document Revised: 31Oct2018
 Document No.: **F-MN-L-213-rev.24** Page 1 of 2
 Issuing Authority: **Pace Minnesota Quality Office**

Sample Condition Upon Receipt **Client Name:** Free Flowtech **Project #:** **WO#: 10455177**
Courier: Fed Ex UPS USPS Client
 Commercial Pace Speedee Other:
Tracking Number: 813020036060

PM: JDD **Due Date: 11/19/18**
CLIENT: FreeFlowTech

Custody Seal on Cooler/Box Present? Yes No **Seals Intact?** Yes No **Optional:** **Proj. Due Date:** Yes No **Proj. Name:**


Packing Material: Bubble Wrap None Other: **Temp Blank?** Yes No
Thermometer G87A9170600254 **Type of Ice:** Wet Blue None Dry Melted
Used: G87A9155100842

Cooler Temp Read (°C): 11.8 **Cooler Temp Corrected (°C):** 11.8 **Biological Tissue Frozen?** Yes No N/A
Temp should be above freezing to 6°C **Correction Factor:** 0.0 **Date and Initials of Person Examining Contents:** 11/19/18 JDD

USDA Regulated Soil (N/A, water sample) **Did samples originate from a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?** Yes No
If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork. **Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?** Yes No

COMMENTS:	
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sufficient Volume?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Is sufficient information available to reconcile the samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRG/8015 (water) and Dioxin/PFAS	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Pace Trip Blank Lot # (if purchased):	

CLIENT NOTIFICATION/RESOLUTION
Person Contacted: _____ **Date/Time:** _____ **Field Data Required?** Yes No
Comments/Resolution: _____

Project Manager Review:  **Date:** 11/12/18
Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).
Labeled by: JDD



1204 Springdale Street
Mount Horeb, WI 53572
(608) 437-7413

February 22, 2019

Mr. Troy Bussey
PIONEER Technologies Corporation
5205 Corporate Ctr. Ct. SE, Ste. A
Olympia, WA 98503-5901

**Subject: Bench Level Treatability Study Report for the Former Arkema
Manufacturing Site, Tacoma, WA.**

Mr. Bussey:

Ursus Remediation Testing & Technologies, LLC (Ursus) is pleased to provide Pioneer this bench level treatability study report for the Former Arkema Manufacturing Site.

BACKGROUND

Bench level treatability testing was performed on soils from the Former Arkema Manufacturing Site, Tacoma, WA. The purpose of the study was to treat soil for off-site non-hazardous waste disposal. The primary metal of concern is arsenic but the 8 RCRA metals, including arsenic, barium, chromium, cadmium, lead, mercury, selenium and silver were also monitored during the study.

Treatment of site soil with EnviroBlend® found stabilization alone was not effective in meeting arsenic disposal criteria (Appendix A). EnviroBlend® is a line of treatment chemistries. It does not conceal metal contamination via encapsulation or solidification; rather, it stabilizes metals of concern by regulating pH and forming insoluble compounds that will not leach into the environment.

The historical source of arsenic at the site was sodium arsenite, and it is suspected that a significant amount of arsenite was present in the samples submitted for this study. Arsenite (As(III)) is a reduced form of arsenic and is not readily treated by traditional stabilization. Arsenic in the form arsenate (As(V)) (oxidized form of arsenic) is readily treated by traditional stabilization.

Oxidizing arsenite to arsenate, combined with traditional stabilization amendments, was the approach in this phase of testing. The Eh pH diagram shown in Figure 1 illustrates various arsenic species. The objective was to generate conditions where arsenate dominate. As shown in the diagram, an Eh of > 0.2 and pH levels greater than neutral are conditions where arsenate will predominate. Therefore, oxidant dosages and buffer additions were formulated to achieve those conditions. To estimate the amount of oxidant necessary to

oxidize arsenite to arsenate, a Total Oxidant Demand (TOD) study was performed (Appendix B).

OBJECTIVE

The objective of the study was to determine the following:

1. Determine the effectiveness of chemical oxidants to convert arsenite to more readily stabilized arsenate in site soil.
2. Treat soils with an oxidant and metal stabilization amendments to meet the Toxicity Characteristic Leaching Procedure (TCLP) non-hazardous disposal criteria.
3. Optimize amendment dosage for the different site soils.

SAMPLES

Four soil samples were received by Ursus. Samples received, descriptions, and comments are shown in Table 1.

**Table 1.
 Samples Received for Testing**

Sample	Sample Date	Date Received	Sample Matrix	Sample Comments
PTC-102 Upper Aquifer	9/25/2018	9/27/2018	Soil	None
PTC-102 First Aquitard	9/25/2018	9/27/2018	Soil	None
PTC-103 Upper Aquifer	9/25/2018	9/27/2018	Soil	None
PTC-103 First Aquitard	9/25/2018	9/27/2018	Soil	None

MATERIALS AND METHODOLOGY

Materials

Sodium Persulfate – Na₂S₂O₈. Fisher reagent grade.

Potassium Permanganate – KMnO₄. JT Baker reagent grade.

EnviroBlend® HX – Provided by Premier Magnesia LLC.

EnviroBlend® CS – Provided by Premier Magnesia LLC.

Methodology

The 8 RCRA TCLP metals were analyzed during the study with arsenic as the primary metal of concern. The ORP and final pH of the TCLP leaching were also reported.

TCLP metal testing was performed using screening methodologies. The TCLP screening methodology employed uses the same guidelines as prescribed by EPA Method SW-846 1311, except the amount of sample is scaled down to one-tenth the prescribed sample weight and extraction solution volume. A scaled down TCLP was performed to maximize the number of treated samples prepared and minimize filtering time associated with the procedure.

Screening results are not intended for regulatory compliance.

RESULTS

- A semi-quantitative proof of concept testing was performed to examine the efficacy of treating the soils with a combination of oxidizers and metal stabilizers (data not shown). Testing found the combination was indeed effective in lowering TCLP arsenic concentrations. Testing also found potassium permanganate more effective than sodium persulfate in controlling soil pH and lowering TCLP arsenic concentrations. Therefore, potassium permanganate was used in subsequent testing.
- TOD data was used to estimate the amount of oxidant required to convert arsenite to arsenate. TOD testing found a lower demand than what was required in the TCLP testing; presumably the TCLP leaching solution (acetic acid/sodium hydroxide) is placing an oxidant demand on the oxidant that was not accounted for in the TOD study.
- All samples received for testing were greater than TCLP hazardous criterion for arsenic of 5.0 mg/L (Untreated results) (Table 2). All other RCRA metals did not exceed their respective TCLP limit in untreated tests.
- Numerous dosages of potassium permanganate (KMnO₄) and metals stabilizers (EnviroBlend® HX and EnviroBlend® CS) were tested with varying results. The two aquifer soil samples (PTC-102 Upper Aquifer and PTC-103 Upper Aquifer) required a minimum KMnO₄ dosage of 1% for effective treatment (Table 2). The aquitard samples (PTC-102 First Aquitard and PTC-103 First Aquitard) required a minimum KMnO₄ dosage of 7% for effective treatment. The higher oxidant demand in the aquitard samples was also observed in the TOD study. The aquitard samples were of a clay matrix while the aquifer samples were a granular soil. Therefore, it's not unexpected to have different oxidant requirements due to different soil matrices.
- A 3% EnviroBlend® HX and 5% EnviroBlend® CS showed the greatest treatment effectiveness for all samples tested. This blend provided the necessary metals stabilization and pH control to lower TCLP arsenic concentrations while minimizing leachability of other RCRA metals.

Pioneer Technologies Corporation
Bench Level Treatability Study - Former Arkema Manufacturing Site, Tacoma, WA
February 22, 2019

- Sample PTC-102 Upper Aquifer had TCLP mercury and/or selenium exceedances in some treated samples. As opposed to arsenic, where oxidized forms are more readily stabilized, selenium forms more stable compounds in a reduced form. Thus, in some situations, addition of too much oxidizer could mobilize selenium. Untreated mercury for sample PTC-102 Upper Aquifer was near the mercury TCLP criterion of 0.2 mg/L. No apparent mercury treatment was observed with various amendments and dosages. Some treated samples failed TCLP mercury, and some passed TCLP mercury, suggesting sample variability.

Sincerely,

A handwritten signature in black ink that reads "Andrew Wenzel". The signature is written in a cursive style with a large initial 'A'.

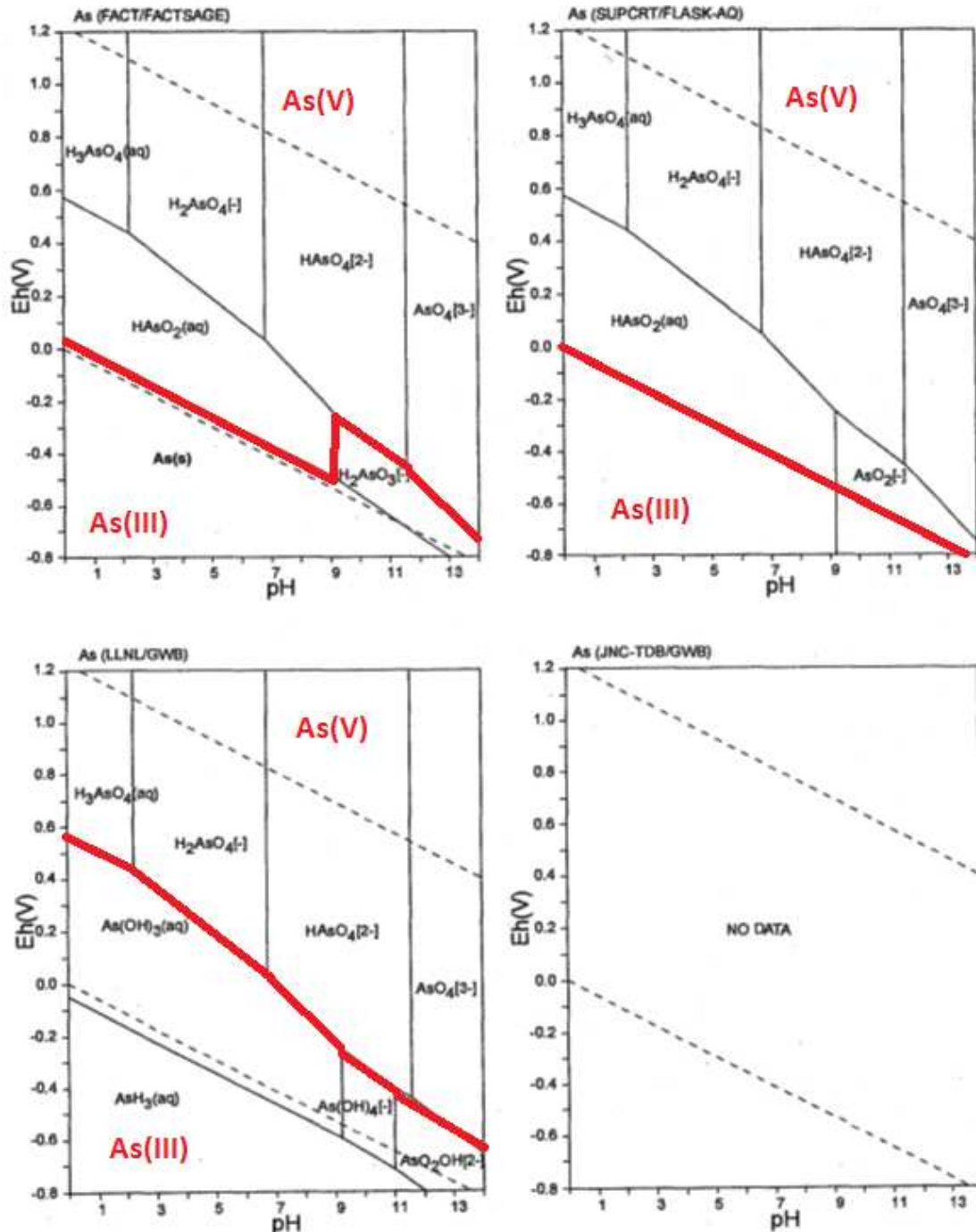


Figure 1. Eh pH Arsenic Diagram.

**Table 2.
 TCLP Results**

TCLP Leaching Results														
Sample Name	Amendment® Dosage		Screening Leaching Test Results, mg/L											
	Chemical	Percentage wt/wt	Initial pH	Solution	Final pH	Eh (V)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
TCLP Limit	-	-	-	-	-	-	5	100	1	5	5	0.2	1	5
PTC-102 Upper Aquifer	Untreated	-	1.56	TCLP 1	5.05	-	62.7	0.014	<0.024*	<0.005	0.4	0.16	0.11	<0.005
	KMnO ₄	5%	-	TCLP 1	9.45	0.65	0.46	<0.001	0.28	0.066	<0.067	0.11	0.74	0.019
	EnviroBlend® HX	5%												
	EnviroBlend® CS	5%												
	KMnO ₄	3%	-	TCLP 1	8.34	0.41	0.54	<0.001	<0.024	0.043	<0.067	0.081	0.69	0.018
	EnviroBlend® HX	5%												
	EnviroBlend® CS	5%												
	KMnO ₄	3%	-	TCLP 1	5.07	0.75	1.63	0.008	0.33	0.037	0.093	0.54	0.49	0.017
	EnviroBlend® HX	3%												
	EnviroBlend® CS	3%												
	KMnO ₄	2%	-	TCLP 1	8.90	0.41	0.54	<0.001	<0.024	0.039	<0.067	0.12	1.20	0.009
	EnviroBlend® HX	5%												
EnviroBlend® CS	5%													

Pioneer Technologies Corporation
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TCLP Leaching Results														
Sample Name	Amendment [®] Dosage		Screening Leaching Test Results, mg/L											
	Chemical	Percentage wt/wt	Initial pH	Solution	Final pH	Eh (V)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
TCLP Limit	-	-	-	-	-	-	5	100	1	5	5	0.2	1	5
PTC-102 Upper Aquifer	KMnO ₄	1%	-	TCLP 1	9.69	0.46	3.34	<0.001	0.052	0.031	<0.067	0.18	0.82	<0.005
	EnviroBlend [®] HX	3%												
	EnviroBlend [®] CS	5%												
	KMnO ₄	3%	-	TCLP 1	8.26	0.47	0.31	<0.001	0.008	0.039	<0.067	0.16	1.20	0.016
	EnviroBlend [®] HX	5%												
	EnviroBlend [®] CS	5%												
	EnviroBlend [®] C-PAC	1%												
	KMnO ₄	5%	-	TCLP 1	5.99	0.82	0.15	0.006	0.16	0.042	<0.067	0.23	1.20	0.018
	EnviroBlend [®] HX	10%												
EnviroBlend [®] CS	5%													

Pioneer Technologies Corporation
 Bench Level Treatability Study - Former Arkema Manufacturing Site, Tacoma, WA
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TCLP Leaching Results														
Sample Name	Amendment® Dosage		Screening Leaching Test Results, mg/L											
	Chemical	Percentage wt/wt	Initial pH	Solution	Final pH	Eh (V)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
TCLP Limit	-	-	-	-	-	-	5	100	1	5	5	0.2	1	5
PTC-102 First Aquitard	Untreated	-	1.53	TCLP 1	5	-	156	0.042	<0.024*	0.016	<0.067	<0.050	<0.030	<0.005
	KMnO ₄	1%	-	TCLP 1	8.12	0.29	11.5	0.002	0.090	0.014	<0.067	<0.050	<0.030	<0.005
	EnviroBlend® HX	3%												
	EnviroBlend® CS	5%												
	KMnO ₄	3%	-	TCLP 1	8.17	0.17	13.0	<0.001	0.074	0.041	<0.067	<0.050	<0.030	<0.005
	EnviroBlend® HX	3%												
	EnviroBlend® CS	5%												
	KMnO ₄	7%	-	TCLP 1	8.85	0.32	2.35	<0.001	0.088	0.12	<0.067	<0.050	<0.030	<0.005
	EnviroBlend® HX	3%												
	EnviroBlend® CS	5%												
	KMnO ₄	10%	-	TCLP 1	8.70	0.45	1.52	<0.001	0.012	0.13	<0.067	<0.050	<0.030	0.011
	EnviroBlend® HX	3%												
EnviroBlend® CS	5%													

Pioneer Technologies Corporation
 Bench Level Treatability Study - Former Arkema Manufacturing Site, Tacoma, WA
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TCLP Leaching Results														
Sample Name	Amendment® Dosage		Screening Leaching Test Results, mg/L											
	Chemical	Percentage wt/wt	Initial pH	Solution	Final pH	Eh (V)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
TCLP Limit	-	-	-	-	-	-	5	100	1	5	5	0.2	1	5
PTC-103 Upper Aquifer	Untreated	-	1.5	TCLP 1	4.97	-	9.6	0.014	<0.024*	0.005	<0.067	<0.050	<0.030	<0.005
	KMnO ₄	1%	-	TCLP 1	5.09	0.63	0.13	<0.001	<0.024	0.14	<0.067	<0.050	0.054	<0.005
	EnviroBlend® HX	3%												
	EnviroBlend® CS	5%												
PTC-103 First Aquitard	Untreated	-	1.5	TCLP 1	4.99	-	135	0.012	<0.024*	0.014	0.069	<0.050	<0.030	<0.005
	KMnO ₄	1%	-	TCLP 1	5.11	0.3	4.74	<0.001	0.030	0.005	<0.067	<0.050	<0.030	<0.005
	EnviroBlend® HX	3%												
	EnviroBlend® CS	5%												
	KMnO ₄	3%	-	TCLP 1	8.74	0.17	5.46	<0.001	0.032	0.056	<0.067	<0.050	<0.030	<0.005
	EnviroBlend® HX	3%												
	EnviroBlend® CS	5%												
	KMnO ₄	7%	-	TCLP 1	8.94	0.31	2.38	<0.001	0.053	0.11	<0.067	<0.050	<0.030	<0.005
	EnviroBlend® HX	3%												
	EnviroBlend® CS	5%												
	KMnO ₄	10%	-	TCLP 1	8.62	0.43	1.05	<0.001	0.008	0.21	<0.067	<0.050	0.032	<0.005
	EnviroBlend® HX	3%												
EnviroBlend® CS	5%													

*Concentration is estimated. Interference present.

Premier Magnesia, LLC

Appendix A: Pioneer Technologies – Former Arkema Manufacturing Site Stabilization Report

October 23, 2018

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Appendix A Stabilization Study

October 23, 2018

Ms. Charis Gehret
Premier Magnesia, LLC
1275 Drummers Ln
Wayne, PA 19373

Subject: Pioneer Technologies – Former Arkema Manufacturing Site.

Ms. Gehret:

Ursus Remediation Testing & Technologies, LLC (Ursus) is pleased to provide Premier Magnesia LLC, (Premier) this report for treatability testing of soil from the Pioneer Technologies – Former Arkema Manufacturing Site, Tacoma, WA.

OBJECTIVE

The objective of the study was to evaluate the effectiveness of EnviroBlend® to stabilize arsenic (and any other metals as necessary) in soil for disposal in a non-hazardous waste landfill. Arsenic is the primary metal of concern.

BACKGROUND

Four soil samples were received for the study on September 27, 2018. A description of the samples and comments are shown in Table 1.

**Table 1.
Sample Received for Treatability Testing**

Sample Name	Sample Date	Matrix	Comments
PTC-102 Upper Aquifer	Unknown	Soil	Untreated Material
PTC-102 First Aquitard	Unknown	Soil	Untreated Material
PTC-103 Upper Aquifer	Unknown	Soil	Untreated Material
PTC-103 First Aquitard	Unknown	Soil	Untreated Material

MATERIAL & METHODOLOGY

TCLP metal testing was performed using screening methodologies. The TCLP screening methodology employed uses the same guidelines as prescribed by EPA Method SW-846 1311, except the amount of sample is scaled down to one-tenth the prescribed sample weight and extraction solution volume.

Screening results are not intended for regulatory compliance.

RESULTS

The 8 RCRA metals were analyzed during the study with arsenic as the primary metal of concern. Total metals for the samples received are shown in Table 2.

Soil was tested untreated and treated with various EnviroBlend® products and leached by TCLP (Table 3). All untreated samples exceeded the TCLP arsenic criterion of 5.0 mg/L. Sample PTC-102 Upper Aquifer also had detections of TCLP lead and mercury. Only samples PTC-102 Upper Aquifer and PTC-102 First Aquitard were treated with EnviroBlend® during the study.

An effective EnviroBlend® product and dosage was not found to meet the TCLP arsenic criterion. The historical source of arsenic at the site was sodium arsenite, and it is suspected that a significant amount of arsenite was present in the samples submitted for this study. Arsenite is more problematic to treat than its oxidized form of arsenate and likely the reason effective treatment with EnviroBlend® was not achieved.

Sincerely,



Andrew Wenzel
Principal

**Table 2.
 Total Metals**

Total Metals (mg/kg)									
Sample Name	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Solids
PTC-102 Upper Aquifer	10,300	2.31	<10.9*	18.2	473	856	297	<2.26	83%
PTC-102 First Aquitard	7,690	2.98	<8.94*	19.1	<25.0	<16.8	<11.2	<1.86	63%
PTC-103 Upper Aquifer	1,420	1.70	<11.0*	31.1	<30.8	<23.0	43.3	<2.31	81%
PTC-103 First Aquitard	6,470	3.24	<11.0*	15.9	<30.6	<22.9	<13.7	<2.28	60%

**Table 3.
TCLP Metals**

TCLP Leaching Results													
Sample Name	EnviroBlend® Dosage		Screening Leaching Test Results, mg/L										
	Chemical	Percentage	Initial pH	Solution	Final pH	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
TCLP Limit	-	-	-	-	-	5.0	100	1.0	5.0	5.0	0.2	1.0	5.0
PTC-102 Upper Aquifer	Untreated	-	1.56	TCLP 1	5.05	62.7	0.014	<0.024*	<0.005	0.40	0.16	0.11	<0.005
	EnviroBlend® 1	4%	-	TCLP 1	6.57	89.0	0.008	<0.024*	0.011	<0.067	<0.050	<0.030	<0.005
		5%	-	TCLP 1	8.56	94.2	0.004	<0.024*	<0.005	<0.067	<0.050	0.074	<0.005
		6%	-	TCLP 1	9.47	118	0.002	<0.024*	<0.005	<0.067	<0.050	<0.030	<0.005
	EnviroBlend® 2	5%	-	TCLP 1	4.84	67.9	0.011	<0.024*	<0.005	<0.067	<0.050	<0.030	<0.005
		6%	-	TCLP 1	4.82	68.9	0.011	<0.024*	<0.005	<0.067	<0.050	<0.030	<0.005
		7%	-	TCLP 1	4.78	68.4	0.010	<0.024*	<0.005	<0.067	<0.050	<0.030	<0.005
	EnviroBlend® 3	2%	-	TCLP 1	4.91	120	0.011	<0.024*	<0.005	0.15	0.068	<0.030	<0.005
		3%	-	TCLP 1	4.83	135	0.012	<0.024*	<0.005	0.23	<0.050	<0.030	<0.005
		4%	-	TCLP 1	4.74	153	0.011	<0.024*	<0.005	0.37	<0.050	<0.030	<0.005
PTC-102 First Aquitard	Untreated	-	1.53	TCLP 1	5.00	156	0.042	<0.024*	0.016	<0.067	<0.050	<0.030	<0.005
	EnviroBlend® CR20	3%	-	TCLP 1	6.60	119	0.014	<0.024*	<0.005	<0.067	<0.050	<0.030	<0.005
		4%	-	TCLP 1	7.53	97.8	0.005	<0.024*	<0.005	<0.067	<0.050	<0.030	<0.005
		5%	-	TCLP 1	5.60	128	0.004	<0.024*	<0.005	<0.067	<0.050	<0.030	<0.005
	EnviroBlend® HXM	4%	-	TCLP 1	4.81	58.8	0.007	<0.024*	<0.005	<0.067	<0.050	<0.030	<0.005
		5%	-	TCLP 1	4.79	45.7	0.007	<0.024*	<0.005	<0.067	<0.050	<0.030	<0.005
		6%	-	TCLP 1	4.75	36.8	0.006	<0.024*	<0.005	<0.067	<0.050	<0.030	<0.005
	EnviroBlend® HXM	2%	-	TCLP 1	4.91	104	0.013	<0.024*	<0.005	<0.067	<0.050	<0.030	<0.005
		3%	-	TCLP 1	4.83	82.8	0.009	<0.024*	<0.005	<0.067	<0.050	<0.030	<0.005
		4%	-	TCLP 1	4.73	56.7	0.007	<0.024*	<0.005	<0.067	<0.050	<0.030	<0.005
PTC-103 Upper Aquifer	Untreated	-	1.50	TCLP 1	4.97	9.60	0.014	<0.024*	0.005	<0.067	<0.050	<0.030	<0.005
PTC-103 First Aquitard	Untreated	-	1.50	TCLP 1	4.99	135	0.012	<0.024*	0.014	0.069	<0.050	<0.030	<0.005

*Concentration is estimated. Interference present.

Appendix B TOD Report

December 6, 2018

Mr. Troy Bussey
PIONEER Technologies Corporation
5205 Corporate Ctr. Ct. SE, Ste. A
Olympia, WA 98503-5901

Subject: Persulfate and Permanganate TOD Testing Report for the Former Arkema Manufacturing Site, Tacoma, WA.

Mr. Bussey:

Ursus Remediation Testing & Technologies, LLC (Ursus) is pleased to provide Pioneer this report for Total Oxidant Demand (TOD) testing for the Former Arkema Manufacturing Site.

OBJECTIVE

The objective of the study was to determine the amount of sodium persulfate and permanganate required to overcome the oxidant demand in site soil.

BACKGROUND

The purpose of the TOD study is to determine the oxidant demand of site soils. The TOD provides the information needed to know the amount of oxidant required to oxidize readily available organic matter, reduced metals, and other matrix oxidant demand. The TOD study is in support of the arsenic stabilization bench tests.

It is suspected that a significant amount of arsenic in the samples submitted for the stabilization bench tests is in a reduced form (arsenite), which is not readily stabilized. Oxidizing arsenite to an oxidized form (arsenate), where conventional treatment amendments can be applied that are more effective in treating arsenate than arsenite, is the goal. Therefore, the TOD estimates the amount of oxidant required to produce an oxidizing environment and presumably, oxidize arsenite to arsenate.

Ursus tested two oxidants; persulfate (in the form of sodium persulfate) and permanganate (in the form of potassium permanganate). Ursus performed persulfate analytical procedures as described in Peroxychem/FMC's Klozur™ Treatability Protocol Template and Haselow et. al 2003. Permanganate TOD testing followed methodologies similar to those outlined by Haselow et. al 2003 and the USEPA. The TOD was measured after 24 hours reactive time.

Four soil samples were received by Ursus. Samples received, descriptions, and comments are shown in Table 1.

Table 1.
Samples Received for TOD Testing

Sample	Sample Date	Date Received	Sample Matrix	Sample Comments
PTC-102 Upper Aquifer	9/25/2018	9/27/2018	Soil	None
PTC-102 First Aquitard	9/25/2018	9/27/2018	Soil	None
PTC-103 Upper Aquifer	9/25/2018	9/27/2018	Soil	None
PTC-103 First Aquitard	9/25/2018	9/27/2018	Soil	None

MATERIALS AND METHODOLOGY

Materials

Sodium Persulfate – Na₂S₂O₈. Fisher reagent grade.

Potassium Permanganate – KMnO₄. JT Baker reagent grade.

Methodology

The oxidant was mixed with deionized water for testing and each soil was slurried with the deionized water containing the oxidant. Persulfate and permanganate dosages of 2.5g/kg soil, 5.0 g/kg soil, and 7.5g/kg soil were tested. Persulfate was not activated for the study. A soil to liquid ratio of 1:4 (25 g soil/100 mls solution) was used.

Samples were exposed to ambient laboratory conditions in tightly capped reaction jars with periodic mixing. The TOD for each oxidant was measured at 24 hours.

RESULTS

Persulfate and permanganate TOD were set up on November 28, 2018. The 24 hour persulfate and permanganate TOD (TOD_{24Hr}) was measured on November 29, 2018.

At 24 hours, the soil slurry was allowed to settle, and an aliquot of the liquid fraction was decanted and analyzed for residual persulfate and permanganate. The TOD data are shown in Table 3.

TOD results are discussed below.

1. Both persulfate and permanganate oxidants had a low to moderate TOD. Low to moderate TOD's likely make these oxidants economically feasible as candidate oxidants.
2. The higher the persulfate or permanganate dosage, the higher the TOD. This is commonly observed with these oxidants.

3. Persulfate and permanganate TOD showed similar results. For both oxidants, PTC-102 First Aquitard and PTC-103 First Aquitard showed the highest TOD and samples PTC-102 Upper Aquifer and PTC-103 Upper Aquifer showed the lowest TOD.
4. Permanganate produced a greater TOD than persulfate. This is commonly observed in soils when these two oxidants are compared side by side.
5. Permanganate TOD is reported as the permanganate ion. Permanganate TOD can be converted to potassium permanganate or sodium permanganate TOD by multiplying the permanganate TOD by 1.33 and 1.19, respectively.

Table 3.
Persulfate and Permanganate TOD_{24Hr} Results

Sample	Dosage g/kg	TOD _{24Hr}	
		Permanganate g/kg as MnO ₄	Sodium Persulfate, g/kg
PTC-102 Upper Aquitard	2.5	1.9	1.0
	5.0	3.4	1.7
	7.5	4.6	3.2
PTC-102 First Aquitard	2.5	> 2.5	> 2.5
	5.0	> 5.0	4.3
	7.5	> 7.5	4.5
PTC-103 Upper Aquitard	2.5	1.1	0.8
	5.0	2.9	0.9
	7.5	4.4	1.4
PTC-103 First Aquitard	2.5	> 2.5	> 2.5
	5.0	4.8	3.0
	7.5	7.0	2.5

REFERENCES

Peroxychem/FMC. Klozur™ Activated Persulfate Treatability Protocol Template.

Haselow, J, S., Siegrist, R, L., Crimi, M., and Jarosch, T. 2003. Estimating the Total Oxidant Demand for In Situ Chemical Oxidation Design. Remediation Autumn 2003.

US EPA. Standard Test Method for Determining the Permanganate Soil Oxidant Demand (Screening Phase, PSOD-1)

Premier Magnesia, LLC
Appendix B: Pioneer Technologies – Former Arkema Manufacturing Site TOD Report
December 6, 2018
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Sincerely,

A handwritten signature in black ink that reads "Andrew Wenzel". The signature is written in a cursive, flowing style.

Andrew Wenzel
Principal

Appendix G

Table G-1: 2017 Pore Water Results

	Sample ID:	PW-119+25-ST1-100417	PW-119+25-ST1-100417-(20)	PW-120+75-ST1-100517	PW-120+75-ST1-100517-(20)	PW-120+75-ST1-DS-111-517	PW-120+75-ST1-DS-111517-(20)
	Site ID:	119+25-ST1	119+25-ST1	120+75-ST1	120+75-ST1	120+75-ST1-DS	120+75-ST1-DS
	Sample Date:	10/04/17	10/04/17	10/05/17	10/05/17	11/15/17	11/15/17
Constituent	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3			488.00		917.00		109.00
Alkalinity, Carb.As CaCO3			1.00 U		1.00 U		1.00U
Alkalinity, Total			488.00		917.00		109.00
Bromine anion (Br-)			41.90		25.30		54.30
Calcium			349.00		206.00		353.00
Chloride			18000.00		14200.00		16300.00
Dissolved Organic Carbon			10.40		21.80		2.56
Fluoride			10.00 U		10.00 U		1.00U
Hydroxide Alkalinity			1.00 U		1.00 U		1.00U
Nitrate			10.00 UJ		10.00 UJ		1.00U
Nitrite			50.00 UJ		50.00 UJ		1.00U
Potassium			317.00		201.00		318.00
Sodium			9490.00		8010.00		8810.00
Sulfate			1780.00		866.00		2360.00
Total Dissolved Solids			26600.00		22700.00		26600.00
Dissolved Metals (ug/L)							
Aluminum			81.60 U		81.60 U		81.60U
Arsenate Ion - As(O4)3-			4.11		34.80		2.25
Arsenic, Inorganic			7.87		279.00		3.17
Arsenite Ion - As(O3)3-			3.86		55.90		1.41
Cacodylic Acid			1.05 U		1.05 U		1.05U
Copper			2.69 U		2.69 U		3.71U
Iron			1360.00		32.50 J		163.00U
Lead and Compounds			0.61 U		0.61 U		0.30U

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

	Sample ID:	PW-119+25-ST1-100417	PW-119+25-ST1-100417-(20)	PW-120+75-ST1-100517	PW-120+75-ST1-100517-(20)	PW-120+75-ST1-DS-111517	PW-120+75-ST1-DS-111517-(20)
	Site ID:	119+25-ST1	119+25-ST1	120+75-ST1	120+75-ST1	120+75-ST1-DS	120+75-ST1-DS
	Sample Date:	10/04/17	10/04/17	10/05/17	10/05/17	11/15/17	11/15/17
Constituent	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Magnesium			962000.00		536000.00		1040000.00
Manganese			306.00		40.40		7.54
Mercury (elemental)			0.0003 J		0.0007		0.0008J
Methylarsonic acid			1.15 U		1.15 U		1.15U
Nickel Soluble Salts			0.34 J		0.85 J		0.61U
Silicon			10500.00		13100.00		4490.00U
Sum of arsenic species			7.97		90.70		3.66
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P			10.00 UJ		10.00 UJ		
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0.03		0.02		7.40	
Oxidation Reduction Potential (ORP) (mV)		-117.80		-261.70		27.10	
Specific Conductivity (uS/cm)		42171.00		34465.10		34522.00	
Temperature (Celsius) (C)		14.30		13.21		9.60	
Turbidity (NTU)		1.59		0.80		125.00	
pH ()		7.12		7.66		6.05	
Field TDS and Sulfide (mg/L)							
Sulfide		0		0.70 >		0.01	
Total Dissolved Solids		27000.00		22000.00		31590.00	
Total Metals (ug/L)							
Arsenic, Inorganic		7.31		278.00		7.81	
Copper		2.69 U		2.69 U		7.81	
Lead and Compounds		0.61 U		0.61 U		7.49 J	
Mercury (elemental)		0.0003 J		0.0008		0.01	
Nickel Soluble Salts		0.44 J		1.03 J		3.38 J	

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

Constituent	Sample ID:	PW-119+25-ST1-100417	PW-119+25-ST1-100417-(20)	PW-120+75-ST1-100517	PW-120+75-ST1-100517-(20)	PW-120+75-ST1-DS-111517	PW-120+75-ST1-DS-111517-(20)
	Site ID:	119+25-ST1	119+25-ST1	120+75-ST1	120+75-ST1	120+75-ST1-DS	120+75-ST1-DS
	Sample Date:	10/04/17	10/04/17	10/05/17	10/05/17	11/15/17	11/15/17
	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Field Ferrous Iron (ug/L)							
Ferrous Iron		1350.00		0		110.00	
VOCs (ug/L)							
Chloroform		0.20 U		0.20 U		0.20 U	
Tetrachloroethylene		0.20 U		0.20 U		0.20 U	
Trichloroethylene		0.20 U		0.20 U		0.20 U	
Vinyl Chloride		0.20 U		0.20 U		0.20 U	

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

	Sample ID:	PW-122+60-0-DS-11151 7	PW-122+60-0-DS-11151 7-(20)	PW-123+25-ST1-100517	PW-123+25-ST1-100517- (20)	PW-124+00-0-DS-11151 7	PW-124+00-0-DS-11151 7-(20)
	Site ID:	122+60-0-DS	122+60-0-DS	123+25-ST1	123+25-ST1	124+00-0-DS	124+00-0-DS
	Sample Date:	11/15/17	11/15/17	10/05/17	10/05/17	11/15/17	11/15/17
Constituent	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3			139.00		109.00		106.00
Alkalinity, Carb.As CaCO3			1.00 U		1.00 U		1.00U
Alkalinity, Total			139.00		109.00		106.00
Bromine anion (Br-)			43.90		48.20		48.40
Calcium			266.00		384.00		318.00
Chloride			13300.00		16700.00		14500.00
Dissolved Organic Carbon			3.25		1.84		1.95
Fluoride			1.00 U		10.00 U		1.00U
Hydroxide Alkalinity			1.00 U		1.00 U		1.00U
Nitrate			1.00 U		10.00 U		1.00U
Nitrite			1.00 U		50.00 UJ		1.00U
Potassium			254.00		360.00		278.00
Sodium			6580.00		8430.00		7710.00
Sulfate			1900.00		2290.00		2120.00
Total Dissolved Solids			21800.00		25700.00		23500.00
Dissolved Metals (ug/L)							
Aluminum			81.60 U		81.60 U		81.60U
Arsenate Ion - As(O4)3-			2.43		83.50		3.53
Arsenic, Inorganic			5.63		155.00		4.55
Arsenite Ion - As(O3)3-			0.32 J		76.70		1.00U
Cacodylic Acid			1.05 U		1.05 U		1.05U
Copper			2.69 U		2.69 U		3.41U
Iron			52.20 J		55.10		163.00U
Lead and Compounds			0.30 U		0.61 U		0.30U

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

	Sample ID:	PW-122+60-0-DS-11151 7	PW-122+60-0-DS-11151 7-(20)	PW-123+25-ST1-100517 (20)	PW-123+25-ST1-100517- (20)	PW-124+00-0-DS-11151 7	PW-124+00-0-DS-11151 7-(20)
	Site ID:	122+60-0-DS	122+60-0-DS	123+25-ST1	123+25-ST1	124+00-0-DS	124+00-0-DS
	Sample Date:	11/15/17	11/15/17	10/05/17	10/05/17	11/15/17	11/15/17
Constituent	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Magnesium			747000.00		1120000.00		913000.00
Manganese			7390.00		61.70		5.70
Mercury (elemental)			0.001 J		0.0004 J		0.001J
Methylarsonic acid			1.15 U		1.15 U		1.15U
Nickel Soluble Salts			13.90 J		0.69 J		0.61U
Silicon			10900.00		4610.00		3040.00J
Sum of arsenic species			2.75 J		160.20		3.53
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P					10.00 U		
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		12.90		2.65		7.01	
Oxidation Reduction Potential (ORP) (mV)		34.20		-15.90		35.60	
Specific Conductivity (uS/cm)		28943.00		38265.00		32289.00	
Temperature (Celsius) (C)		10.03		13.20		10.43	
Turbidity (NTU)		540.00		22.10		11.32	
pH ()		6.11		7.61		6.18	
Field TDS and Sulfide (mg/L)							
Sulfide				0.10		0.09	
Total Dissolved Solids		17170.00		26000.00		24070.00	
Total Metals (ug/L)							
Arsenic, Inorganic		13.70		33.70 J		5.22	
Copper		23.70		5.06		5.52	
Lead and Compounds		8.98 J		0.72		0.30 U	
Mercury (elemental)		0.02		0.02		0.006 J	
Nickel Soluble Salts		16.90		2.92		8.85	

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

Constituent	Sample ID:	PW-122+60-0-DS-11151 7	PW-122+60-0-DS-11151 7-(20)	PW-123+25-ST1-100517 (20)	PW-123+25-ST1-100517- (20)	PW-124+00-0-DS-11151 7	PW-124+00-0-DS-11151 7-(20)
	Site ID:	122+60-0-DS	122+60-0-DS	123+25-ST1	123+25-ST1	124+00-0-DS	124+00-0-DS
	Sample Date:	11/15/17	11/15/17	10/05/17	10/05/17	11/15/17	11/15/17
	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Field Ferrous Iron (ug/L)							
Ferrous Iron		30000.00 >		200.00		610.00	
VOCs (ug/L)							
Chloroform		0.20 U		0.20 U		0.20 U	
Tetrachloroethylene		0.20 U		0.20 U		0.20 U	
Trichloroethylene		0.20 U		0.20 U		0.20 U	
Vinyl Chloride		0.20 U		0.20 U		0.20 U	

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

	Sample ID:	PW-125+00-ST1-100517	PW-125+00-ST1-100517- (20)	PW-125+00-ST1-DS-111 517	PW-125+00-ST1-DS-111 517-(20)	PW-125+50-0-DS-11151 7	PW-125+50-0-DS-11151 7-(20)
	Site ID:	125+00-ST1	125+00-ST1	125+00-ST1-DS	125+00-ST1-DS	125+50-0-DS	125+50-0-DS
	Sample Date:	10/05/17	10/05/17	11/15/17	11/15/17	11/15/17	11/15/17
Constituent	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3			131.00		111.00		105.00
Alkalinity, Carb.As CaCO3			1.00 U		1.00 U		1.00U
Alkalinity, Total			131.00		111.00		105.00
Bromine anion (Br-)			44.60		55.60		49.90
Calcium			374.00		358.00		335.00
Chloride			15900.00		16800.00		15400.00
Dissolved Organic Carbon			1.51		1.56		1.78
Fluoride			10.00 U		1.00 U		1.00U
Hydroxide Alkalinity			1.00 U		1.00 U		1.00U
Nitrate			10.00 U		1.00 U		1.00U
Nitrite			50.00 UJ		1.00 U		1.00U
Potassium			340.00		323.00		295.00
Sodium			8290.00		8980.00		8300.00
Sulfate			2140.00		2450.00		2220.00
Total Dissolved Solids			25100.00		27500.00		24400.00
Dissolved Metals (ug/L)							
Aluminum			81.60 U		81.60 U		81.60U
Arsenate Ion - As(O4)3-			18.40		1.80		41.80
Arsenic, Inorganic			21.30		6.38		39.40
Arsenite Ion - As(O3)3-			1.26		1.00 U		1.00U
Cacodylic Acid			1.05 U		1.05 U		1.05U
Copper			0.96 J		2.69 U		2.69U
Iron			73.40		322.00		163.00U
Lead and Compounds			0.61 U		0.30 U		0.30U

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

	Sample ID:	PW-125+00-ST1-100517	PW-125+00-ST1-100517- (20)	PW-125+00-ST1-DS-111 517	PW-125+00-ST1-DS-111 517-(20)	PW-125+50-0-DS-11151 7	PW-125+50-0-DS-11151 7-(20)
	Site ID:	125+00-ST1	125+00-ST1	125+00-ST1-DS	125+00-ST1-DS	125+50-0-DS	125+50-0-DS
	Sample Date:	10/05/17	10/05/17	11/15/17	11/15/17	11/15/17	11/15/17
Constituent	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Magnesium			1080000.00		1060000.00		976000.00
Manganese			94.10		34.90		11.60
Mercury (elemental)			0.002		0.0004 U		0.002J
Methylarsonic acid			1.15 U		1.15 U		1.15U
Nickel Soluble Salts			0.92 J		0.61 U		0.61U
Silicon			4440.00		4490.00 U		4490.00U
Sum of arsenic species			19.66		1.80		41.80
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P			10.00 U				
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0.20		9.32		5.87	
Oxidation Reduction Potential (ORP) (mV)		-9.70		28.20		25.60	
Specific Conductivity (uS/cm)		36926.80		35630.00		33391.00	
Temperature (Celsius) (C)		15.28		10.39		11.04	
Turbidity (NTU)		3.09		18.55		10.13	
pH ()		7.43		6.59		6.71	
Field TDS and Sulfide (mg/L)							
Sulfide		0.01				0.04	
Total Dissolved Solids		24000.00		32110.00		29590.00	
Total Metals (ug/L)							
Arsenic, Inorganic		22.10		10.70		32.20	
Copper		1.55 J		3.52 J		5.71	
Lead and Compounds		0.61 U		19.10 J		0.30 U	
Mercury (elemental)		0.005		0.01		0.006 J	
Nickel Soluble Salts		1.04 J		1.72		0.61 U	

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

Constituent	Sample ID:	PW-125+00-ST1-100517	PW-125+00-ST1-100517-(20)	PW-125+00-ST1-DS-111517	PW-125+00-ST1-DS-111517-(20)	PW-125+50-0-DS-111517	PW-125+50-0-DS-111517-(20)
	Site ID:	125+00-ST1	125+00-ST1	125+00-ST1-DS	125+00-ST1-DS	125+50-0-DS	125+50-0-DS
	Sample Date:	10/05/17	10/05/17	11/15/17	11/15/17	11/15/17	11/15/17
	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Field Ferrous Iron (ug/L)							
Ferrous Iron		100.00		30000.00 >		240.00	
VOCs (ug/L)							
Chloroform		0.20 U		0.20 U		0.20 U	
Tetrachloroethylene		0.20 U		0.20 U		0.20 U	
Trichloroethylene		0.20 U		0.20 U		0.20 U	
Vinyl Chloride		0.20 U		0.20 U		0.20 U	

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

	Sample ID:	PW-126+80-ST1-100617	PW-126+80-ST1-100617- (20)	PW-126+90-0-DS-11151 7	PW-126+90-0-DS-11151 7-(20)	PW-128+30-0-DS-11151 7	PW-128+30-0-DS-11151 7-(20)
	Site ID:	126+80-ST1	126+80-ST1	126+90-0-DS	126+90-0-DS	128+30-0-DS	128+30-0-DS
	Sample Date:	10/06/17	10/06/17	11/15/17	11/15/17	11/15/17	11/15/17
Constituent	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO ₃			103.00		103.00		123.00
Alkalinity, Carb.As CaCO ₃			1.00 U		1.00 U		1.00U
Alkalinity, Total			103.00		103.00		123.00
Bromine anion (Br-)			49.50		50.30		47.70
Calcium			405.00		319.00		309.00
Chloride			17100.00		15500.00		14400.00
Dissolved Organic Carbon			1.18		1.82		1.94
Fluoride			10.00 U		1.00 U		1.00U
Hydroxide Alkalinity			1.00 U		1.00 U		1.00U
Nitrate			10.00 U		1.00 U		1.00U
Nitrite			50.00 U		1.00 U		1.00U
Potassium			374.00		316.00		206.00
Sodium			9080.00		7960.00		7660.00
Sulfate			2360.00		2280.00		2070.00
Total Dissolved Solids			26800.00		24200.00		23800.00
Dissolved Metals (ug/L)							
Aluminum			81.60 U		81.60 U		81.60U
Arsenate Ion - As(O ₄) ₃ -			2.01		25.90		4.51
Arsenic, Inorganic			2.31		20.20		3.39J
Arsenite Ion - As(O ₃) ₃ -			1.00 U		1.00 U		1.00U
Cacodylic Acid			1.05 U		1.05 U		1.05U
Copper			2.69 U		2.29 J		2.72J
Iron			19.10 J		408.00 U		408.00U
Lead and Compounds			0.61 U		0.30 U		0.30U

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

	Sample ID:	PW-126+80-ST1-100617	PW-126+80-ST1-100617- (20)	PW-126+90-0-DS-11151 7	PW-126+90-0-DS-11151 7-(20)	PW-128+30-0-DS-11151 7	PW-128+30-0-DS-11151 7-(20)
	Site ID:	126+80-ST1	126+80-ST1	126+90-0-DS	126+90-0-DS	128+30-0-DS	128+30-0-DS
	Sample Date:	10/06/17	10/06/17	11/15/17	11/15/17	11/15/17	11/15/17
Constituent	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Magnesium			1190000.00		926000.00		884000.00
Manganese			23.60		7.34		15.60
Mercury (elemental)			0.0002 J		0.0006 J		0.0010 J
Methylarsonic acid			1.15 U		1.15 U		1.15 U
Nickel Soluble Salts			0.48 J		0.61 U		12.90 J
Silicon			1890.00		3970.00		3320.00
Sum of arsenic species			2.01		25.90		4.51
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO ₄ }, as P			10.00 U				
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		4.18		5.75		6.50	
Oxidation Reduction Potential (ORP) (mV)		35.30		24.90		23.10	
Specific Conductivity (uS/cm)		40229.00		34105.00		32498.00	
Temperature (Celsius) (C)		12.43		11.06		10.74	
Turbidity (NTU)		2.97		12.03		31.20	
pH ()		7.59		6.78		6.84	
Field TDS and Sulfide (mg/L)							
Sulfide		0		0.11		0.10	
Total Dissolved Solids		26000.00		30180.00		29030.00	
Total Metals (ug/L)							
Arsenic, Inorganic		2.47		27.20		6.99	
Copper		1.49 J		5.85		9.02	
Lead and Compounds		0.30 J		6.29 J		0.30 U	
Mercury (elemental)		0.0008		0.004 J		0.004 J	
Nickel Soluble Salts		0.89 J		3.76 J		13.20	

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

Constituent	Sample ID:	PW-126+80-ST1-100617	PW-126+80-ST1-100617-(20)	PW-126+90-0-DS-111517	PW-126+90-0-DS-111517-(20)	PW-128+30-0-DS-111517	PW-128+30-0-DS-111517-(20)
	Site ID:	126+80-ST1	126+80-ST1	126+90-0-DS	126+90-0-DS	128+30-0-DS	128+30-0-DS
	Sample Date:	10/06/17	10/06/17	11/15/17	11/15/17	11/15/17	11/15/17
	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Field Ferrous Iron (ug/L)							
Ferrous Iron		0		590.00		290.00	
VOCs (ug/L)							
Chloroform		0.20 U		0.20 U		0.20 U	
Tetrachloroethylene		0.20 U		0.20 U		0.20 U	
Trichloroethylene		0.20 U		0.20 U		0.20 U	
Vinyl Chloride		0.20 U		0.20 U		0.20 U	

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

	Sample ID:	PW-128+50-ST1-100617	PW-128+50-ST1-100617- (20)	PW-128+50-ST1-DS-111 517	PW-128+50-ST1-DS-111 517-(20)	PW-130+75-ST1-100617	PW-130+75-ST1-10061 7-(20)
	Site ID:	128+50-ST1	128+50-ST1	128+50-ST1-DS	128+50-ST1-DS	130+75-ST1	130+75-ST1
	Sample Date:	10/06/17	10/06/17	11/15/17	11/15/17	10/06/17	10/06/17
Constituent	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3			104.00		138.00		1040.00
Alkalinity, Carb.As CaCO3			1.00 U		1.00 U		1.00U
Alkalinity, Total			104.00		138.00		1040.00
Bromine anion (Br-)			49.20		53.90		50.60
Calcium			391.00		349.00		400.00
Chloride			16800.00		16200.00		17000.00
Dissolved Organic Carbon			1.31		1.67		1.24
Fluoride			10.00 U		1.00 U		10.00U
Hydroxide Alkalinity			1.00 U		1.00 U		1.00U
Nitrate			10.00 U		1.00 U		10.00U
Nitrite			50.00 U		1.00 U		50.00U
Potassium			362.00		242.00		366.00
Sodium			9020.00		8760.00		8620.00
Sulfate			2300.00		2380.00		2330.00
Total Dissolved Solids			26200.00		26700.00		26700.00
Dissolved Metals (ug/L)							
Aluminum			81.60 U		81.60 U		81.60U
Arsenate Ion - As(O4)3-			2.15		4.05		1.64
Arsenic, Inorganic			3.10		5.63		2.16
Arsenite Ion - As(O3)3-			0.31 J		14.30		0.28J
Cacodylic Acid			1.05 U		1.05 U		1.05U
Copper			0.95 J		1.10 J		2.69J
Iron			55.50		46.60 J		21.10J
Lead and Compounds			0.61 U		0.30 U		0.61U

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

	Sample ID:	PW-128+50-ST1-100617	PW-128+50-ST1-100617- (20)	PW-128+50-ST1-DS-111 517	PW-128+50-ST1-DS-111 517-(20)	PW-130+75-ST1-100617	PW-130+75-ST1-10061 7-(20)
	Site ID:	128+50-ST1	128+50-ST1	128+50-ST1-DS	128+50-ST1-DS	130+75-ST1	130+75-ST1
	Sample Date:	10/06/17	10/06/17	11/15/17	11/15/17	10/06/17	10/06/17
Constituent	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Magnesium			1050000.00		1020000.00		1170000.00
Manganese			34.70		76.70		28.10
Mercury (elemental)			0.0003 J		0.0008 J		0.0002J
Methylarsonic acid			1.15 U		1.15 U		1.15U
Nickel Soluble Salts			0.74 J		0.61 U		0.58J
Silicon			2450.00		3000.00		2070.00
Sum of arsenic species			2.46 J		18.35		1.92J
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P			10.00 U				10.00U
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		4.13		7.03		3.34	
Oxidation Reduction Potential (ORP) (mV)		15.30		23.90		27.80	
Specific Conductivity (uS/cm)		39279.00		36135.00		39617.70	
Temperature (Celsius) (C)		13.87		10.92		15.34	
Turbidity (NTU)		3.97		5.53		0.04	
pH ()		7.59		6.83		7.59	
Field TDS and Sulfide (mg/L)							
Sulfide		0		0.17		2.34	
Total Dissolved Solids		26000.00		32120.00		26000.00	
Total Metals (ug/L)							
Arsenic, Inorganic		3.63		15.30		2.68	
Copper		2.16 J		5.99		2.18 J	
Lead and Compounds		0.26 J		0.30 U		0.37 J	
Mercury (elemental)		0.0008		0.006 J		0.001 J	
Nickel Soluble Salts		0.90 J		0.61 U		0.88 J	

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

Constituent	Sample ID:	PW-128+50-ST1-100617	PW-128+50-ST1-100617-(20)	PW-128+50-ST1-DS-111-517	PW-128+50-ST1-DS-111-517-(20)	PW-130+75-ST1-100617	PW-130+75-ST1-100617-(20)
	Site ID:	128+50-ST1	128+50-ST1	128+50-ST1-DS	128+50-ST1-DS	130+75-ST1	130+75-ST1
	Sample Date:	10/06/17	10/06/17	11/15/17	11/15/17	10/06/17	10/06/17
	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Field Ferrous Iron (ug/L)							
Ferrous Iron		110.00		660.00		160.00	
VOCs (ug/L)							
Chloroform		0.20 U		0.20 U		0.20 U	
Tetrachloroethylene		0.20 U		0.20 U		0.20 U	
Trichloroethylene		0.20 U		0.20 U		0.20 U	
Vinyl Chloride		0.20 U		0.20 U		0.20 U	

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

Sample ID:						
Site ID:						
Sample Date:	//	//	//	//	//	//
Media:						
Constituent						
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3						
Alkalinity, Carb.As CaCO3						
Alkalinity, Total						
Bromine anion (Br-)						
Calcium						
Chloride						
Dissolved Organic Carbon						
Fluoride						
Hydroxide Alkalinity						
Nitrate						
Nitrite						
Potassium						
Sodium						
Sulfate						
Total Dissolved Solids						
Dissolved Metals (ug/L)						
Aluminum						
Arsenate Ion - As(O4)3-						
Arsenic, Inorganic						
Arsenite Ion - As(O3)3-						
Cacodylic Acid						
Copper						
Iron						
Lead and Compounds						

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

Sample ID:						
Site ID:						
Sample Date:	//	//	//	//	//	//
Media:						
Constituent						
Magnesium						
Manganese						
Mercury (elemental)						
Methylarsonic acid						
Nickel Soluble Salts						
Silicon						
Sum of arsenic species						
Dissolved Ortho-Phosphorus (mg/L)						
o-Phosphate {PO4}, as P						
Field Parameters and/or Alkalinity						
Dissolved Oxygen (DO) (mg/L)						
Oxidation Reduction Potential (ORP) (mV)						
Specific Conductivity (uS/cm)						
Temperature (Celsius) (C)						
Turbidity (NTU)						
pH ()						
Field TDS and Sulfide (mg/L)						
Sulfide						
Total Dissolved Solids						
Total Metals (ug/L)						
Arsenic, Inorganic						
Copper						
Lead and Compounds						
Mercury (elemental)						
Nickel Soluble Salts						

Blank cells indicate that no analysis was performed.

Table G-1: 2017 Pore Water Results

Sample ID: Site ID: Sample Date: // // // // // Media:						
Constituent						
Field Ferrous Iron (ug/L)						
Ferrous Iron						
VOCs (ug/L)						
Chloroform						
Tetrachloroethylene						
Trichloroethylene						
Vinyl Chloride						

Blank cells indicate that no analysis was performed.

Table G-2: 2017 Surface Water Results

	Sample ID:	SW-120+75-SW-111517	SW-120+75-SW-111517-(20)	SW-125+00-SW-111517	SW-125+00-SW-111517-(20)	SW-128+50-SW-111517	SW-128+50-SW-111517-(20)
	Site ID:	120+75-SW	120+75-SW	125+00-SW	125+00-SW	128+50-SW	128+50-SW
	Sample Date:	11/15/17	11/15/17	11/15/17	11/15/17	11/15/17	11/15/17
Constituent	Media:	Surfacewater	Surfacewater	Surfacewater	Surfacewater	Surfacewater	Surfacewater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3			102.00		102.00		103.00
Alkalinity, Carb.As CaCO3			1.00 U		1.00 U		1.00U
Alkalinity, Total			102.00		102.00		103.00
Bromine anion (Br-)			55.30		56.40		56.10
Calcium			356.00		363.00		357.00
Chloride			17000.00		16900.00		17200.00
Dissolved Organic Carbon			1.56		1.32		1.54
Fluoride			1.00 U		1.00 U		1.00U
Hydroxide Alkalinity			1.00 U		1.00 U		1.00U
Nitrate			1.00 U		1.00 U		1.00U
Nitrite			1.00 U		1.00 U		1.00U
Potassium			315.00		329.00		313.00
Sodium			8980.00		9040.00		8950.00
Sulfate			2480.00		2460.00		2520.00
Total Dissolved Solids			27500.00		26300.00		27900.00
Dissolved Metals (ug/L)							
Aluminum			81.60 U		81.60 U		81.60U
Arsenate Ion - As(O4)3-			2.06		2.05		1.99
Arsenic, Inorganic			2.92		2.55		2.36J
Arsenite Ion - As(O3)3-			1.00 U		1.00 U		1.00U
Cacodylic Acid			1.05 U		1.05 U		1.05U
Copper			2.50 J		2.13 J		4.27J
Iron			163.00 U		163.00 U		408.00U
Lead and Compounds			0.30 U		0.30 U		0.30U

Blank cells indicate that no analysis was performed.

Table G-2: 2017 Surface Water Results

	Sample ID:	SW-120+75-SW-111517	SW-120+75-SW-111517-(20)	SW-125+00-SW-111517	SW-125+00-SW-111517-(20)	SW-128+50-SW-111517	SW-128+50-SW-111517-(20)
	Site ID:	120+75-SW	120+75-SW	125+00-SW	125+00-SW	128+50-SW	128+50-SW
	Sample Date:	11/15/17	11/15/17	11/15/17	11/15/17	11/15/17	11/15/17
Constituent	Media:	Surfacewater	Surfacewater	Surfacewater	Surfacewater	Surfacewater	Surfacewater
Magnesium			1050000.00		1070000.00		1050000.00
Manganese			7.44		5.43		9.12
Mercury (elemental)			0.0004 U		0.0004 U		0.0004U
Methylarsonic acid			1.15 U		1.15 U		1.15U
Nickel Soluble Salts			0.61 U		0.61 U		0.61U
Silicon			4490.00 U		4490.00 U		2150.00
Sum of arsenic species			2.06		2.05		1.99
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		6.98		6.47		5.16	
Oxidation Reduction Potential (ORP) (mV)		33.90		26.20		23.70	
Specific Conductivity (uS/cm)		35687.00		36185.00		36932.00	
Temperature (Celsius) (C)		10.38		10.69		11.04	
Turbidity (NTU)		28.50		9.22		7.20	
pH ()		6.00		6.78		6.91	
Field TDS and Sulfide (mg/L)							
Sulfide		0.09		0.09		0.04	
Total Dissolved Solids		32180.00				32740.00	
Total Metals (ug/L)							
Arsenic, Inorganic		4.36		4.24		3.64 J	
Copper		5.37		6.03		4.67	
Lead and Compounds		5.25 J		0.30 U		0.30 U	
Mercury (elemental)		0.01		0.003 J		0.002 J	
Nickel Soluble Salts		0.61 U		0.61 U		0.61 U	
Field Ferrous Iron (ug/L)							
Ferrous Iron		680.00		360.00		160.00	

Blank cells indicate that no analysis was performed.

Table G-2: 2017 Surface Water Results

	Sample ID:	SW-120+75-SW-111517	SW-120+75-SW-111517-(20)	SW-125+00-SW-111517	SW-125+00-SW-111517-(20)	SW-128+50-SW-111517	SW-128+50-SW-111517-(20)
	Site ID:	120+75-SW	120+75-SW	125+00-SW	125+00-SW	128+50-SW	128+50-SW
	Sample Date:	11/15/17	11/15/17	11/15/17	11/15/17	11/15/17	11/15/17
Constituent	Media:	Surfacewater	Surfacewater	Surfacewater	Surfacewater	Surfacewater	Surfacewater
VOCs (ug/L)							
Chloroform		0.20 U		0.20 U		0.20 U	
Tetrachloroethylene		0.20 U		0.20 U		0.20 U	
Trichloroethylene		0.20 U		0.20 U		0.20 U	
Vinyl Chloride		0.20 U		0.20 U		0.20 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-120+75-2-103117	GW-120+75-2-103117-(20)	GW-121+80-1-110317	GW-121+80-1-110317-(20)	GW-121+80-2-103017	GW-121+80-2-103017-(20)
	Site ID:	120+75-2	120+75-2	121+80-1	121+80-1	121+80-2	121+80-2
	Sample Date:	10/31/17	10/31/17	11/03/17	11/03/17	10/30/17	10/30/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3			1720.00		101.00		1330.00
Alkalinity, Carb.As CaCO3			1.00 U		303.00		611.00
Alkalinity, Total			1720.00		404.00		1940.00
Bromine anion (Br-)			13.70		0.11		6.56
Calcium			169.00		3.41		9.69
Chloride			16000.00		138.00		4470.00
Dissolved Organic Carbon			34.60		4.77		205.00
Fluoride			1.07		0.31		2.89
Hydroxide Alkalinity			1.00 U		1.00 U		1.00U
Nitrate			0.10 U		0.10 U		0.10U
Nitrite			0.10 U		0.10 U		0.10U
Potassium			203.00		5.28		39.20
Sodium			10400.00		264.00		4010.00U
Sulfate			1.18		16.50		5.97
Total Dissolved Solids			23800.00		795.00		8480.00
Dissolved Metals (ug/L)							
Aluminum			81.60 U		35.70 J		242.00
Arsenate Ion - As(O4)3-			12.40		91.90		496.00
Arsenic, Inorganic			64.90		735.00		81.70
Arsenite Ion - As(O3)3-			22.90		417.00		22.30
Cacodylic Acid			1.05 U		1.05 U		2.13
Copper			2.69 U		1.78 J		2.69U
Iron			914.00		256.00		545.00
Lead and Compounds			0.30 U		0.63		0.70

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-120+75-2-103117	GW-120+75-2-103117-(20)	GW-121+80-1-110317	GW-121+80-1-110317-(20)	GW-121+80-2-103017	GW-121+80-2-103017-(20)
	Site ID:	120+75-2	120+75-2	121+80-1	121+80-1	121+80-2	121+80-2
	Sample Date:	10/31/17	10/31/17	11/03/17	11/03/17	10/30/17	10/30/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium			341000.00		711.00		3460.00
Manganese			1040.00		3.25		18.90
Mercury (elemental)			0.0004 J		0.04		0.007
Methylarsonic acid			1.15 U		1.15 U		1.15U
Nickel Soluble Salts			0.75		1.12		17.40
Silicon			35400.00		57500.00		79000.00
Sum of arsenic species			35.30		508.90		518.30
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P			3.12 J		0.52		8.41
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)		0.05		0.21		0	
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)		-145.60		-88.20		-334.00	
Specific Conductivity (uS/cm)		33082.70		1207.80		14752.00	
Temperature (Celsius) (C)		15.12		13.71		15.47	
Turbidity (NTU)		5.19		6.97			
pH ()		6.88		9.93		8.90	
Field TDS and Sulfide (mg/L)							
Sulfide		0.10		0.43			
Total Dissolved Solids		22000.00		690.00		9590.00	
Total Metals (ug/L)							
Arsenic, Inorganic		86.50		767.00		118.00	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-120+75-2-103117	GW-120+75-2-103117-(20)	GW-121+80-1-110317	GW-121+80-1-110317-(20)	GW-121+80-2-103017	GW-121+80-2-103017-(20)
	Site ID:	120+75-2	120+75-2	121+80-1	121+80-1	121+80-2	121+80-2
	Sample Date:	10/31/17	10/31/17	11/03/17	11/03/17	10/30/17	10/30/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper		1.55 J		66.90		2.70	
Lead and Compounds		2.16		14.20		1.11	
Mercury (elemental)		0.003		0.11		0.008	
Nickel Soluble Salts		1.06		6.62		19.80	
Field Ferrous Iron (ug/L)							
Ferrous Iron		830.00		100.00			
VOCs (ug/L)							
Chloroform		2.00 UJ		0.20 U		2.00 U	
Tetrachloroethylene		2.00 UJ		0.29		2.00 U	
Trichloroethylene		2.00 UJ		0.57		2.00 U	
Vinyl Chloride		2.00 UJ		0.68		2.00 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-122+60-0-110317	GW-122+60-0-110317-(20)	GW-122+60-1-110317	GW-122+60-1-110317-(20)	GW-122+60-2-110217	GW-122+60-2-110217-(20)
	Site ID: 122+60-0	122+60-0	122+60-1	122+60-1	122+60-2	122+60-2
	Sample Date: 11/03/17	11/03/17	11/03/17	11/03/17	11/02/17	11/02/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3		127.00		109.00		1490.00
Alkalinity, Carb.As CaCO3		1.00 U		1.00 U		1.00U
Alkalinity, Total		127.00		109.00		1490.00
Bromine anion (Br-)		42.30		34.80		18.10
Calcium		299.00		228.00		166.00
Chloride		11900.00		9990.00		10200.00
Dissolved Organic Carbon		2.33		2.02		37.80
Fluoride		0.64		0.69		0.50U
Hydroxide Alkalinity		1.00 U		1.00 U		1.00U
Nitrate		0.50 U		0.50 U		0.50U
Nitrite		0.50 U		0.50 U		0.50U
Potassium		273.00		222.00		171.00
Sodium		6680.00		5550.00		7330.00
Sulfate		1730.00		1490.00		183.00
Total Dissolved Solids		19600.00		15500.00		16500.00
Dissolved Metals (ug/L)						
Aluminum		81.60 U		81.60 U		81.60U
Arsenate Ion - As(O4)3-		9.01		20.80		50.40
Arsenic, Inorganic		9.71		15.00		3340.00
Arsenite Ion - As(O3)3-		1.00 U		0.22 J		710.00
Cacodylic Acid		1.05 U		1.05 U		1.05U
Copper		5.90		4.37		2.69U
Iron		18.90 J		82.50		46.90
Lead and Compounds		0.30 U		0.30 U		0.30U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-122+60-0-110317	GW-122+60-0-110317-(20)	GW-122+60-1-110317	GW-122+60-1-110317-(20)	GW-122+60-2-110217	GW-122+60-2-110217-(20)
Constituent	Site ID: 122+60-0	122+60-0	122+60-1	122+60-1	122+60-2	122+60-2
	Sample Date: 11/03/17	11/03/17	11/03/17	11/03/17	11/02/17	11/02/17
	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		785000.00		617000.00		283000.00
Manganese		6.77		97.30		23.20
Mercury (elemental)		0.002		0.001		0.001
Methylarsonic acid		1.15 U		1.15 U		1.15U
Nickel Soluble Salts		515.00		335.00		45.60
Silicon		6930.00		14600.00		42600.00
Sum of arsenic species		9.01		21.02 J		760.40
Dissolved Ortho-Phosphorus (mg/L)						
o-Phosphate {PO4}, as P		0.50 U		0.50 U		8.40J
Field Parameters and/or Alkalinity						
Alkalinity, Bicarb. As CaCO3 (mg/L)						
Alkalinity, Carb.As CaCO3 (mg/L)						
Alkalinity, Total (mg/L)						
Dissolved Oxygen (DO) (mg/L)	6.89		6.46		0.70	
Hydroxide Alkalinity (mg/L)						
Oxidation Reduction Potential (ORP) (mV)	46.00		39.50		-100.80	
Specific Conductivity (uS/cm)	36476.00		29484.80		30506.00	
Temperature (Celsius) (C)	7.44		9.92		15.30	
Turbidity (NTU)	5.18		2375.00		2.71	
pH ()	7.60		7.36		8.32	
Field TDS and Sulfide (mg/L)						
Sulfide	0				0.06	
Total Dissolved Solids	23000.00		19000.00		19820.00	
Total Metals (ug/L)						
Arsenic, Inorganic	10.00		5310.00		3240.00	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-122+60-0-110317	GW-122+60-0-110317-(20)	GW-122+60-1-110317	GW-122+60-1-110317-(20)	GW-122+60-2-110217	GW-122+60-2-110217-(20)
	Site ID:	122+60-0	122+60-0	122+60-1	122+60-1	122+60-2	122+60-2
	Sample Date:	11/03/17	11/03/17	11/03/17	11/03/17	11/02/17	11/02/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper		6.02		398.00		2.00 J	
Lead and Compounds		0.30 U		6.43		0.14 J	
Mercury (elemental)		0.002		0.05		0.001	
Nickel Soluble Salts		490.00		2170.00		79.50	
Field Ferrous Iron (ug/L)							
Ferrous Iron		50.00		30400.00		120.00	
VOCs (ug/L)							
Chloroform		0.20 U		0.20 U		1.00 U	
Tetrachloroethylene		0.20 U		0.20 U		1.00 U	
Trichloroethylene		0.20 U		0.20 U		1.00 U	
Vinyl Chloride		0.20 U		0.20 U		1.00 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-122+60-3-110317	GW-122+60-3-110317-(20)	GW-124+00-0-103117	GW-124+00-0-103117-(20)	GW-124+00-1-103117	GW-124+00-1-103117-(20)
	Site ID:	122+60-3	122+60-3	124+00-0	124+00-0	124+00-1	124+00-1
	Sample Date:	11/03/17	11/03/17	10/31/17	10/31/17	10/31/17	10/31/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3			705.00		109.00		328.00
Alkalinity, Carb.As CaCO3			1.00 U		1.00 U		1.00U
Alkalinity, Total			705.00		109.00		328.00
Bromine anion (Br-)			3.60		48.00		43.80
Calcium			149.00		338.00		327.00
Chloride			1670.00		14000.00		13400.00
Dissolved Organic Carbon			4.95		1.67		9.45
Fluoride			0.10 U		0.57		1.29
Hydroxide Alkalinity			1.00 U		1.00 U		1.00U
Nitrate			0.10 U		0.10 U		0.50U
Nitrite			0.10 U		0.10 U		0.50U
Potassium			51.60		275.00		263.00
Sodium			899.00		7410.00 J		7560.00J
Sulfate			155.00		2070.00		1840.00
Total Dissolved Solids			3020.00		23000.00		22100.00
Dissolved Metals (ug/L)							
Aluminum			81.60 U		81.60 U		81.60U
Arsenate Ion - As(O4)3-			0.32 J		6.16		131.00
Arsenic, Inorganic			2.32 J		7.65		3130.00
Arsenite Ion - As(O3)3-			1.00 U		1.00 U		1840.00
Cacodylic Acid			1.05 U		1.05 U		2.10U
Copper			2.69 U		4.34		3.18
Iron			133.00		34.70 U		3330.00
Lead and Compounds			0.30 U		0.16 U		0.16U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-122+60-3-110317	GW-122+60-3-110317-(20)	GW-124+00-0-103117	GW-124+00-0-103117-(20)	GW-124+00-1-103117	GW-124+00-1-103117-(20)
	Site ID:	122+60-3	122+60-3	124+00-0	124+00-0	124+00-1	124+00-1
	Sample Date:	11/03/17	11/03/17	10/31/17	10/31/17	10/31/17	10/31/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium			210000.00		882000.00		854000.00
Manganese			134.00		5.33		968.00
Mercury (elemental)			0.0004 U		0.0007		0.003
Methylarsonic acid			1.15 U		1.15 U		2.30U
Nickel Soluble Salts			0.47 J		311.00		65.20
Silicon			22200.00		4260.00		13100.00
Sum of arsenic species			0.32 J		6.16		1971.00
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P			0.40		0.50 U		0.50UJ
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)	0.09					0.14	
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)	-95.40					-144.40	
Specific Conductivity (uS/cm)	5196.50					29847.10	
Temperature (Celsius) (C)	12.86					13.42	
Turbidity (NTU)	25.00			3.19		23.60	
pH ()	7.64					6.58	
Field TDS and Sulfide (mg/L)							
Sulfide	0			0.02		0.33	
Total Dissolved Solids	3380.00					19000.00	
Total Metals (ug/L)							
Arsenic, Inorganic	1.63 U			8.60		2520.00	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-122+60-3-110317	GW-122+60-3-110317-(20)	GW-124+00-0-103117	GW-124+00-0-103117-(20)	GW-124+00-1-103117	GW-124+00-1-103117-(20)
	Site ID:	122+60-3	122+60-3	124+00-0	124+00-0	124+00-1	124+00-1
	Sample Date:	11/03/17	11/03/17	10/31/17	10/31/17	10/31/17	10/31/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper		5.66		5.09		9.26	
Lead and Compounds		0.30 U		0.16 U		0.94	
Mercury (elemental)		0.0004 U		0.001		0.02	
Nickel Soluble Salts		38.50		321.00		61.80	
Field Ferrous Iron (ug/L)							
Ferrous Iron		330.00		410.00		1500.00	
VOCs (ug/L)							
Chloroform		0.20 U		0.20 U		0.20 U	
Tetrachloroethylene		0.20 U		0.20 U		0.20 U	
Trichloroethylene		0.20 U		0.20 U		0.16 J	
Vinyl Chloride		0.20 U		0.20 U		0.20 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-124+00-2-103017	GW-124+00-2-103017-(20)	GW-124+00-3-110317	GW-124+00-3-110317-(20)	GW-125+50-0-103117	GW-125+50-0-103117-(20)
	Site ID:	124+00-2	124+00-2	124+00-3	124+00-3	125+50-0	125+50-0
	Sample Date:	10/30/17	10/30/17	11/03/17	11/03/17	10/31/17	10/31/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO ₃			2000.00		303.00		100.00
Alkalinity, Carb.As CaCO ₃			37.30		1.00 U		1.00U
Alkalinity, Total			2040.00		303.00		100.00
Bromine anion (Br-)			16.60		2.29		43.10
Calcium			75.50		60.90		294.00
Chloride			10800.00		606.00		11900.00
Dissolved Organic Carbon			405.00		2.36		1.83
Fluoride			1.11		0.12		0.69
Hydroxide Alkalinity			1.00 U		1.00 U		1.00U
Nitrate			0.10 U		0.10 U		0.10U
Nitrite			0.10 UJ		0.10 U		0.10U
Potassium			143.00		24.60		268.00
Sodium			7530.00 J		273.00		6530.00J
Sulfate			395.00		0.80		1730.00
Total Dissolved Solids			19200.00		1260.00		19500.00
Dissolved Metals (ug/L)							
Aluminum			66.90 J		81.60 U		81.60U
Arsenate Ion - As(O ₄) ₃ -			7940.00		0.23 J		60.20
Arsenic, Inorganic			39200.00		1.63 U		74.70
Arsenite Ion - As(O ₃) ₃ -			48600.00		1.40		2.41
Cacodylic Acid			105.00 U		1.05 U		1.05U
Copper			2.69 U		2.69 U		5.00
Iron			464.00		852.00		292.00
Lead and Compounds			0.14 J		0.30 U		0.16U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-124+00-2-103017	GW-124+00-2-103017-(20)	GW-124+00-3-110317	GW-124+00-3-110317-(20)	GW-125+50-0-103117	GW-125+50-0-103117-(20)
	Site ID:	124+00-2	124+00-2	124+00-3	124+00-3	125+50-0	125+50-0
	Sample Date:	10/30/17	10/30/17	11/03/17	11/03/17	10/31/17	10/31/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium			179000.00		75900.00		776000.00
Manganese			81.80		52.20		34.50
Mercury (elemental)			0.01		0.0004 U		0.005
Methylarsonic acid			115.00 U		1.15 U		1.15U
Nickel Soluble Salts			18.40		0.20 J		616.00
Silicon			19900.00		22000.00		7440.00
Sum of arsenic species			56540.00		1.63 J		62.61
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P			6.55		0.39		0.50UJ
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)		0		0.07		5.37	
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)		-224.80		-104.80		-36.40	
Specific Conductivity (uS/cm)		25947.40		1982.20		26150.90	
Temperature (Celsius) (C)		14.64		11.81		13.76	
Turbidity (NTU)		0.37		19.70		2.53	
pH ()		8.39		7.47		7.08	
Field TDS and Sulfide (mg/L)							
Sulfide				0.11		0.02	
Total Dissolved Solids		17000.00		1290.00		17000.00	
Total Metals (ug/L)							
Arsenic, Inorganic		34400.00		5.63		87.00	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-124+00-2-103017	GW-124+00-2-103017-(20)	GW-124+00-3-110317	GW-124+00-3-110317-(20)	GW-125+50-0-103117	GW-125+50-0-103117-(20)
	Site ID:	124+00-2	124+00-2	124+00-3	124+00-3	125+50-0	125+50-0
	Sample Date:	10/30/17	10/30/17	11/03/17	11/03/17	10/31/17	10/31/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper		2.69 U		5.72		10.20	
Lead and Compounds		0.22		0.75		0.16 U	
Mercury (elemental)		0.02		0.001		0.008	
Nickel Soluble Salts		18.90		7.13		634.00	
Field Ferrous Iron (ug/L)							
Ferrous Iron		400.00		3300.00		270.00	
VOCs (ug/L)							
Chloroform		2.00 U		0.20 U		0.20 U	
Tetrachloroethylene		2.00 U		0.50		0.20 U	
Trichloroethylene		2.00 U		0.20 U		0.20 U	
Vinyl Chloride		0.93 J		0.20 U		0.20 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-125+50-1-103117	GW-125+50-1-103117-(20)	GW-125+50-2-103017	GW-125+50-2-103017-(20)	GW-125+50-3-110317	GW-125+50-3-110317-(20)
	Site ID:	125+50-1	125+50-1	125+50-2	125+50-2	125+50-3	125+50-3
	Sample Date:	10/31/17	10/31/17	10/30/17	10/30/17	11/03/17	11/03/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3			100.00		103.00		399.00
Alkalinity, Carb.As CaCO3			1.00 U		1.00 U		1.00U
Alkalinity, Total			100.00		103.00		399.00
Bromine anion (Br-)			36.80		45.40		2.64
Calcium			239.00		168.00		99.70
Chloride			10400.00		13100.00		827.00
Dissolved Organic Carbon			1.85		1.41		3.42
Fluoride			0.71		0.50 U		0.11
Hydroxide Alkalinity			1.00 U		1.00 U		1.00U
Nitrate			0.10 UJ		0.10 U		0.10U
Nitrite			0.18 J		0.10 U		0.10U
Potassium			233.00		131.00		31.40
Sodium			5510.00 J		6480.00 J		263.00
Sulfate			1500.00		1850.00		0.76
Total Dissolved Solids			17500.00		21500.00		1580.00
Dissolved Metals (ug/L)							
Aluminum			81.60 U		81.60 U		81.60U
Arsenate Ion - As(O4)3-			66.50		25.00		0.45J
Arsenic, Inorganic			82.60		375.00		4.93
Arsenite Ion - As(O3)3-			1.00 U		613.00		4.64
Cacodylic Acid			1.05 U		1.05 U		1.05U
Copper			4.60		2.69 U		2.69U
Iron			1620.00		2200.00		1290.00
Lead and Compounds			0.16 U		0.16 U		0.30U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-125+50-1-103117	GW-125+50-1-103117-(20)	GW-125+50-2-103017	GW-125+50-2-103017-(20)	GW-125+50-3-110317	GW-125+50-3-110317-(20)
	Site ID:	125+50-1	125+50-1	125+50-2	125+50-2	125+50-3	125+50-3
	Sample Date:	10/31/17	10/31/17	10/30/17	10/30/17	11/03/17	11/03/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium			652000.00		830000.00		148000.00
Manganese			115.00		56.60		193.00
Mercury (elemental)			0.005		0.0005		0.0004U
Methylarsonic acid			1.15 U		1.15 U		1.15U
Nickel Soluble Salts			462.00		2.82 U		0.39J
Silicon			8990.00		16300.00		22700.00
Sum of arsenic species			66.50		638.00		5.09J
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P			0.50 UJ		0.50 U		0.25
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)		7.62		0.06		0.06	
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)		-80.30		-187.20		-55.20	
Specific Conductivity (uS/cm)		29726.00		35717.00		2642.80	
Temperature (Celsius) (C)		12.58		15.50		11.75	
Turbidity (NTU)		6.53		3.47		7.54	
pH ()		7.76		7.19		7.08	
Field TDS and Sulfide (mg/L)							
Sulfide		0.02		0.05		0.06	
Total Dissolved Solids		18330.00		23200.00		1720.00	
Total Metals (ug/L)							
Arsenic, Inorganic		93.90		732.00		9.56	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-125+50-1-103117	GW-125+50-1-103117-(20)	GW-125+50-2-103017	GW-125+50-2-103017-(20)	GW-125+50-3-110317	GW-125+50-3-110317-(20)
	Site ID:	125+50-1	125+50-1	125+50-2	125+50-2	125+50-3	125+50-3
	Sample Date:	10/31/17	10/31/17	10/30/17	10/30/17	11/03/17	11/03/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper		22.90		2.69 U		1.20 J	
Lead and Compounds		0.16 U		0.16 U		0.23 J	
Mercury (elemental)		0.007		0.002		0.005	
Nickel Soluble Salts		439.00		2.82 U		1.44	
Field Ferrous Iron (ug/L)							
Ferrous Iron		1840.00		2700.00		1160.00	
VOCs (ug/L)							
Chloroform		0.03 J		0.20 U		0.20 U	
Tetrachloroethylene		0.20 U		0.20 U		0.31	
Trichloroethylene		0.20 U		0.17 J		0.20 U	
Vinyl Chloride		0.20 U		0.20 U		0.20 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-126+90-0-103117	GW-126+90-0-103117-(20)	GW-126+90-1-110217	GW-126+90-1-110217-(20)	GW-126+90-2-103017	GW-126+90-2-103017-(20)
	Site ID:	126+90-0	126+90-0	126+90-1	126+90-1	126+90-2	126+90-2
	Sample Date:	10/31/17	10/31/17	11/02/17	11/02/17	10/30/17	10/30/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3			103.00		119.00		135.00
Alkalinity, Carb.As CaCO3			1.00 U		1.00 U		1.00U
Alkalinity, Total			103.00		119.00		135.00
Bromine anion (Br-)			33.00		43.50		33.40
Calcium			205.00		330.00		367.00
Chloride			9410.00		13000.00		14000.00
Dissolved Organic Carbon			2.32		2.26		2.14
Fluoride			0.53		0.60		0.53
Hydroxide Alkalinity			1.00 U		1.00 U		1.00U
Nitrate			0.37		0.50 U		0.10U
Nitrite			0.10 U		0.50 U		0.10U
Potassium			201.00		299.00		252.00
Sodium			4750.00 J		7190.00		7020.00J
Sulfate			1370.00		1940.00		1870.00
Total Dissolved Solids			15100.00		18700.00		21600.00
Dissolved Metals (ug/L)							
Aluminum			81.60 U		81.60 U		81.60U
Arsenate Ion - As(O4)3-			22.00		52.90		11.60
Arsenic, Inorganic			24.80		30.10		1130.00
Arsenite Ion - As(O3)3-			0.24 J		0.28 J		775.00
Cacodylic Acid			1.05 U		1.05 U		1.05U
Copper			6.99		5.58		2.69U
Iron			34.70 U		203.00		265.00
Lead and Compounds			0.16 U		0.30 U		0.16U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-126+90-0-103117	GW-126+90-0-103117-(20)	GW-126+90-1-110217	GW-126+90-1-110217-(20)	GW-126+90-2-103017	GW-126+90-2-103017-(20)
	Site ID:	126+90-0	126+90-0	126+90-1	126+90-1	126+90-2	126+90-2
	Sample Date:	10/31/17	10/31/17	11/02/17	11/02/17	10/30/17	10/30/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium			538000.00		831000.00		886000.00
Manganese			2.02		107.00		25.90
Mercury (elemental)			0.002		0.01		0.001
Methylarsonic acid			1.15 U		1.15 U		1.15U
Nickel Soluble Salts			316.00		463.00		1.16J
Silicon			6380.00		5890.00		30800.00
Sum of arsenic species			22.24 J		53.18 J		786.60
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P			0.50 UJ		0.50 UJ		0.50UJ
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)		7.75		8.60		0.07	
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)		36.20		12.80		-156.60	
Specific Conductivity (uS/cm)		19382.00		28094.70		29263.70	
Temperature (Celsius) (C)		11.04		10.16		15.41	
Turbidity (NTU)		19.10		3.85		0.75	
pH ()		7.08		6.39		7.38	
Field TDS and Sulfide (mg/L)							
Sulfide		0.10		0.02		0.23	
Total Dissolved Solids		13000.00		15000.00		19000.00	
Total Metals (ug/L)							
Arsenic, Inorganic		31.20		1190.00		1120.00	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-126+90-0-103117	GW-126+90-0-103117-(20)	GW-126+90-1-110217	GW-126+90-1-110217-(20)	GW-126+90-2-103017	GW-126+90-2-103017-(20)
	Site ID:	126+90-0	126+90-0	126+90-1	126+90-1	126+90-2	126+90-2
	Sample Date:	10/31/17	10/31/17	11/02/17	11/02/17	10/30/17	10/30/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper		11.10		632.00		2.69 U	
Lead and Compounds		0.16 U		0.48		0.16 U	
Mercury (elemental)		0.004		0.16		0.001	
Nickel Soluble Salts		320.00		623.00		1.17 J	
Field Ferrous Iron (ug/L)							
Ferrous Iron		2580.00		400.00		270.00	
VOCs (ug/L)							
Chloroform		0.03 J		0.20 U		0.20 U	
Tetrachloroethylene		0.20 U		0.20 U		0.20 U	
Trichloroethylene		0.20 U		0.20 U		0.09 J	
Vinyl Chloride		0.20 U		0.20 U		0.20 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-126+90-3-103117-(20)_DC	GW-126+90-3-103117_D C	GW-128+30-0-103017	GW-128+30-0-103017-(20)	GW-128+30-1-103117	GW-128+30-1-103117-(20)
	Site ID:	126+90-3	126+90-3	128+30-0	128+30-0	128+30-1	128+30-1
	Sample Date:	10/31/17	10/31/17	10/30/17	10/30/17	10/31/17	10/31/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3		297.50			100.00		89.10
Alkalinity, Carb.As CaCO3		1.00 U			1.00 U		1.00U
Alkalinity, Total		297.50			100.00		89.10
Bromine anion (Br-)		1.43			42.60		36.10
Calcium		63.70			302.00		290.00
Chloride		356.50			12200.00		11300.00
Dissolved Organic Carbon		2.59			1.80		2.33
Fluoride		0.50 U			0.54		0.74
Hydroxide Alkalinity		1.00 U			1.00 U		1.00U
Nitrate		0.10 U			0.10 U		0.50UJ
Nitrite		0.10 U			0.10 U		0.50UJ
Potassium		17.10			280.00		251.00
Sodium		133.50			6540.00 J		6710.00J
Sulfate		0.10 U			1760.00		1510.00
Total Dissolved Solids		887.00			21000.00		17900.00
Dissolved Metals (ug/L)							
Aluminum		81.60 U			81.60 U		81.60U
Arsenate Ion - As(O4)3-		0.61 J			12.00		3.30
Arsenic, Inorganic		2.91			14.00		7.93
Arsenite Ion - As(O3)3-		5.41			0.27 J		2.21
Cacodylic Acid		1.05 U			1.05 U		1.05U
Copper		2.69 U			8.28		670.00
Iron		243.00			46.70		53700.00
Lead and Compounds		0.30 U			0.16 U		0.16U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: Site ID: Sample Date: Media:	GW-126+90-3-103117-(20)_DC 126+90-3 10/31/17 Groundwater	GW-126+90-3-103117_D C 126+90-3 10/31/17 Groundwater	GW-128+30-0-103017 128+30-0 10/30/17 Groundwater	GW-128+30-0-103017-(20) 128+30-0 10/30/17 Groundwater	GW-128+30-1-103117 128+30-1 10/31/17 Groundwater	GW-128+30-1-103117-(20) 128+30-1 10/31/17 Groundwater
Constituent							
Magnesium		64100.00			773000.00		757000.00
Manganese		60.45			20.40		3100.00
Mercury (elemental)		0.0003 J			0.002		0.0010
Methylarsonic acid		1.15 U			1.15 U		1.15U
Nickel Soluble Salts		0.24 J			434.00		8310.00
Silicon		22200.00			5750.00		10700.00
Sum of arsenic species		6.02 J			12.27 J		5.51
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		0.50 UJ			0.50 U		0.50UJ
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.05	5.76		2.04	
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-151.40	63.30		14.60	
Specific Conductivity (uS/cm)			1646.10	26443.90		32114.00	
Temperature (Celsius) (C)			13.44	13.83		16.06	
Turbidity (NTU)			11.70	3.82		107.50	
pH ()			8.09	6.90		6.32	
Field TDS and Sulfide (mg/L)							
Sulfide			0.11	0.02		0.47	
Total Dissolved Solids			1070.00	17000.00		21250.00	
Total Metals (ug/L)							
Arsenic, Inorganic			39.70	14.20		2610.00	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

Constituent	Sample ID:	GW-126+90-3-103117-(20)_DC	GW-126+90-3-103117_D C	GW-128+30-0-103017	GW-128+30-0-103017-(20)	GW-128+30-1-103117	GW-128+30-1-103117-(20)
	Site ID:	126+90-3	126+90-3	128+30-0	128+30-0	128+30-1	128+30-1
	Sample Date:	10/31/17	10/31/17	10/30/17	10/30/17	10/31/17	10/31/17
	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			2.52 J	10.20		2000.00	
Lead and Compounds			0.63	0.16 U		1.24	
Mercury (elemental)			0.03	0.002		0.007	
Nickel Soluble Salts			2.04	455.00		11900.00	
Field Ferrous Iron (ug/L)							
Ferrous Iron			230.00	260.00		40000.00	
VOCs (ug/L)							
Chloroform			0.20 UJ	0.20 U		0.20 U	
Tetrachloroethylene			0.20 UJ	0.20 U		0.20 U	
Trichloroethylene			0.20 UJ	0.20 U		0.20 U	
Vinyl Chloride			0.20 UJ	0.20 U		0.20 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-128+30-2-103017	GW-128+30-2-103017-(20)	GW-128+30-3-110317	GW-128+30-3-110317-(20)	GW-129+65-0-103017	GW-129+65-0-103017-(20)
	Site ID:	128+30-2	128+30-2	128+30-3	128+30-3	129+65-0	129+65-0
	Sample Date:	10/30/17	10/30/17	11/03/17	11/03/17	10/30/17	10/30/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3			593.00		285.00		92.40
Alkalinity, Carb.As CaCO3			1.00 U		1.00 U		1.00U
Alkalinity, Total			593.00		285.00		92.40
Bromine anion (Br-)			16.80		1.38		34.20
Calcium			70.50		35.60		236.00
Chloride			5740.00		390.00		10200.00
Dissolved Organic Carbon			12.40		2.72		1.91
Fluoride			0.14		0.11		0.57
Hydroxide Alkalinity			1.00 U		1.00 U		1.00U
Nitrate			0.10 U		0.10 U		0.10
Nitrite			0.10 U		0.10 U		0.10U
Potassium			117.00		14.30		224.00
Sodium			3840.00 J		226.00		5420.00J
Sulfate			613.00		0.74		1430.00
Total Dissolved Solids			10000.00		931.00		16600.00
Dissolved Metals (ug/L)							
Aluminum			81.60 U		81.60 U		81.60U
Arsenate Ion - As(O4)3-			2.79		1.00 U		1.27
Arsenic, Inorganic			91.70		1.63 U		2.00
Arsenite Ion - As(O3)3-			17.30		1.00 U		1.00U
Cacodylic Acid			1.05 U		1.05 U		1.05U
Copper			2.69 U		2.69 U		3.82
Iron			34.70 U		648.00		34.70U
Lead and Compounds			0.16 U		0.30 U		0.16U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-128+30-2-103017	GW-128+30-2-103017-(20)	GW-128+30-3-110317	GW-128+30-3-110317-(20)	GW-129+65-0-103017	GW-129+65-0-103017-(20)
	Site ID:	128+30-2	128+30-2	128+30-3	128+30-3	129+65-0	129+65-0
	Sample Date:	10/30/17	10/30/17	11/03/17	11/03/17	10/30/17	10/30/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium			195000.00		45400.00		631000.00
Manganese			5.42		31.80		4.84
Mercury (elemental)			0.002		0.0004 U		0.001
Methylarsonic acid			1.15 U		1.15 U		1.15U
Nickel Soluble Salts			1.43 J		0.22 J		769.00
Silicon			26500.00		22700.00		6040.00
Sum of arsenic species			20.09		2.00 U		1.27
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P			1.59		0.41		0.50U
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)		0.04		0.07		8.08	
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)		-309.40		-120.70		47.20	
Specific Conductivity (uS/cm)		17830.00		1753.00		19159.50	
Temperature (Celsius) (C)		14.57		10.03		14.26	
Turbidity (NTU)		0.87		16.00		0.86	
pH ()		8.29		7.90		6.84	
Field TDS and Sulfide (mg/L)							
Sulfide		6.90		0.59		0.05	
Total Dissolved Solids		11580.00		1000.00		12000.00	
Total Metals (ug/L)							
Arsenic, Inorganic		190.00		4.83		1.81 J	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-128+30-2-103017	GW-128+30-2-103017-(20)	GW-128+30-3-110317	GW-128+30-3-110317-(20)	GW-129+65-0-103017	GW-129+65-0-103017-(20)
	Site ID:	128+30-2	128+30-2	128+30-3	128+30-3	129+65-0	129+65-0
	Sample Date:	10/30/17	10/30/17	11/03/17	11/03/17	10/30/17	10/30/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper		2.69 U		25.40		4.85	
Lead and Compounds		0.16 U		3.55		0.16 U	
Mercury (elemental)		0.002		0.01		0.002	
Nickel Soluble Salts		2.41 J		15.50		638.00	
Field Ferrous Iron (ug/L)							
Ferrous Iron		50.00		550.00		30.00	
VOCs (ug/L)							
Chloroform		0.20 U		0.20 U		0.04 J	
Tetrachloroethylene		0.20 U		0.22		0.20 U	
Trichloroethylene		0.06 J		0.20 U		0.20 U	
Vinyl Chloride		0.20 U		0.20 U		0.20 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-129+65-1-103017-(20)	GW-129+65-1-103117	GW-129+65-1-103117-(20)	GW-129+65-2-103017	GW-129+65-2-103017-(20)	GW-129+65-3-110317
	Site ID:	129+65-1	129+65-1	129+65-1	129+65-2	129+65-2	129+65-3
	Sample Date:	10/30/17	10/31/17	10/31/17	10/30/17	10/30/17	11/03/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3				91.30		339.00	
Alkalinity, Carb.As CaCO3				1.00 U		1.00 U	
Alkalinity, Total				91.30		339.00	
Bromine anion (Br-)				36.10		33.10	
Calcium				199.00		240.00	
Chloride				10200.00		9800.00	
Dissolved Organic Carbon	1.96					8.89	
Fluoride				0.64		0.50 U	
Hydroxide Alkalinity				1.00 U		1.00 U	
Nitrate				0.50 UJ		0.10 U	
Nitrite				0.50 UJ		0.10 U	
Potassium				197.00		191.00	
Sodium				4920.00 J		5190.00 J	
Sulfate				1460.00		1280.00	
Total Dissolved Solids				17200.00		16400.00	
Dissolved Metals (ug/L)							
Aluminum				81.60 U		81.60 U	
Arsenate Ion - As(O4)3-				0.91 J		0.73 J	
Arsenic, Inorganic				5.69		3.85 J	
Arsenite Ion - As(O3)3-				0.22 J		1.00 U	
Cacodylic Acid				1.05 U		1.05 U	
Copper				52.90		6.73 U	
Iron				2050.00		408.00 U	
Lead and Compounds				0.09 J		0.30 J	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-129+65-1-103017-(20)	GW-129+65-1-103117	GW-129+65-1-103117-(20)	GW-129+65-2-103017	GW-129+65-2-103017-(20)	GW-129+65-3-110317
	Site ID:	129+65-1	129+65-1	129+65-1	129+65-2	129+65-2	129+65-3
	Sample Date:	10/30/17	10/31/17	10/31/17	10/30/17	10/30/17	11/03/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium				561000.00		657000.00	
Manganese				165.00		18.60	
Mercury (elemental)				0.006		0.0002 J	
Methylarsonic acid				1.15 U		1.15 U	
Nickel Soluble Salts				890.00		0.99 J	
Silicon				6460.00		23900.00	
Sum of arsenic species				1.13 J		0.73 J	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P				0.50 UJ		0.52	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)					0.02		0.08
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)					-327.30		-94.50
Specific Conductivity (uS/cm)					22541.00		5852.40
Temperature (Celsius) (C)					14.99		9.84
Turbidity (NTU)					1.45		5.82
pH ()					7.12		7.76
Field TDS and Sulfide (mg/L)							
Sulfide					22.00		0.02
Total Dissolved Solids					15000.00		4000.00
Total Metals (ug/L)							
Arsenic, Inorganic			250.00		4.23		2.67J

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-129+65-1-103017-(20)	GW-129+65-1-103117	GW-129+65-1-103117-(20)	GW-129+65-2-103017	GW-129+65-2-103017-(20)	GW-129+65-3-110317
	Site ID:	129+65-1	129+65-1	129+65-1	129+65-2	129+65-2	129+65-3
	Sample Date:	10/30/17	10/31/17	10/31/17	10/30/17	10/30/17	11/03/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			689.00		2.69 U		1.27J
Lead and Compounds			0.23		0.16 U		0.13J
Mercury (elemental)			0.25		0.0002 J		0.002
Nickel Soluble Salts			999.00		1.03 J		3.43
Field Ferrous Iron (ug/L)							
Ferrous Iron					50.00		640.00
VOCs (ug/L)							
Chloroform			0.20 U		0.20 U		0.20U
Tetrachloroethylene			0.20 U		0.20 U		0.18J
Trichloroethylene			0.20 U		0.20 U		0.20U
Vinyl Chloride			0.20 U		0.20 U		0.20U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-129+65-3-110317-(20)	GW-131+00-1-102717	GW-131+00-1-102717-(20)	GW-131+00-2-102717	GW-131+00-2-102717-(20)	GW-131+00-3-110317
	Site ID: 129+65-3	131+00-1	131+00-1	131+00-2	131+00-2	131+00-3
	Sample Date: 11/03/17	10/27/17	10/27/17	10/27/17	10/27/17	11/03/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	581.00		414.00		1180.00	
Alkalinity, Carb.As CaCO3	1.00 U		1.00 U		87.00	
Alkalinity, Total	581.00		414.00		1260.00	
Bromine anion (Br-)	3.53		2.97		24.30	
Calcium	161.00		118.00		79.90	
Chloride	1650.00		844.00		9460.00	
Dissolved Organic Carbon	4.26		3.74		115.00	
Fluoride	0.10 U		0.10 U		0.50	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	0.10 U		0.10 U		0.10 UJ	
Nitrite	0.10 U		0.10 U		0.10 UJ	
Potassium	35.70		28.40		121.00	
Sodium	737.00		302.00 J		6130.00 J	
Sulfate	0.84		0.10 U		545.00	
Total Dissolved Solids	3010.00		1700.00		15800.00	
Dissolved Metals (ug/L)						
Aluminum	81.60 U		81.60 U		81.60 U	
Arsenate Ion - As(O4)3-	1.00 U		0.33 J		2.75	
Arsenic, Inorganic	1.63 U		1.63 U		1.66	
Arsenite Ion - As(O3)3-	1.00 U		1.00 U		5.31	
Cacodylic Acid	1.05 U		1.05 U		1.05 U	
Copper	2.69 U		0.91 U		2.69 U	
Iron	694.00		884.00		416.00	
Lead and Compounds	0.30 U		0.30 U		0.16 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-129+65-3-110317-(20)	GW-131+00-1-102717	GW-131+00-1-102717-(20)	GW-131+00-2-102717	GW-131+00-2-102717-(20)	GW-131+00-3-110317
	Site ID:	129+65-3	131+00-1	131+00-1	131+00-2	131+00-2	131+00-3
	Sample Date:	11/03/17	10/27/17	10/27/17	10/27/17	10/27/17	11/03/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		190000.00		126000.00		166000.00	
Manganese		107.00		128.00		41.10	
Mercury (elemental)		0.0004 U		0.0004 U		0.004 U	
Methylarsonic acid		1.15 U		1.15 U		1.15 U	
Nickel Soluble Salts		0.21 J		0.30 J		128.00	
Silicon		32000.00		23100.00		34300.00	
Sum of arsenic species		2.00 U		0.33 J		8.06	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		0.32		0.10 U		2.30 J	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.08		0.23		0.08
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-133.90		-119.20		-118.50
Specific Conductivity (uS/cm)			3201.90		12806.20		2695.50
Temperature (Celsius) (C)			14.48		14.67		10.83
Turbidity (NTU)			8.01		15.10		3.91
pH ()			7.82		8.31		7.58
Field TDS and Sulfide (mg/L)							
Sulfide			0.05		0.80		0.01
Total Dissolved Solids			2080.00		8000.00		1740.00
Total Metals (ug/L)							
Arsenic, Inorganic			1.46 J		26.90		1.63J

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

Constituent	Sample ID:	GW-129+65-3-110317-(20)	GW-131+00-1-102717	GW-131+00-1-102717-(20)	GW-131+00-2-102717	GW-131+00-2-102717-(20)	GW-131+00-3-110317
	Site ID:	129+65-3	131+00-1	131+00-1	131+00-2	131+00-2	131+00-3
	Sample Date:	11/03/17	10/27/17	10/27/17	10/27/17	10/27/17	11/03/17
	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			2.68		2.11 J		2.69J
Lead and Compounds			0.23 J		0.19		0.30J
Mercury (elemental)			0.0009		0.001		0.0004J
Nickel Soluble Salts			1.82		33.70		0.35J
Field Ferrous Iron (ug/L)							
Ferrous Iron			750.00		770.00		780.00
VOCs (ug/L)							
Chloroform			0.20 U		2.00 U		0.20J
Tetrachloroethylene			0.20 U		2.00 U		0.13J
Trichloroethylene			0.20 U		2.00 U		0.20J
Vinyl Chloride			0.20 U		2.00 U		0.20J

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-131+00-3-110317-(20)	GW-1B4-1-102617-2.9-7.9	GW-1B4-1-102617-2.9-7.9-(20)	GW-1C1-3-110317	GW-1C1-3-110317-(20)	GW-1C2-2-101117-13.8-23.6
	Site ID: 131+00-3	1B4-1	1B4-1	1C1-3	1C1-3	1C2-2
	Sample Date: 11/03/17	10/26/17	10/26/17	11/03/17	11/03/17	10/11/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	425.00		509.00		302.00	
Alkalinity, Carb.As CaCO3	1.00 U		1.00 U		1.00 U	
Alkalinity, Total	425.00		509.00		302.00	
Bromine anion (Br-)	2.85		0.12		2.83	
Calcium	120.00		104.00		71.80	
Chloride	844.00		15.60		876.00	
Dissolved Organic Carbon	3.28		15.20		2.65	
Fluoride	0.50 U		0.82		0.50 U	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	0.50 U		0.10 U		0.50 U	
Nitrite	0.50 U		0.10 U		0.50 U	
Potassium	30.10		4.16		50.10	
Sodium	309.00		50.90 J		376.00	
Sulfate	1.01		66.30		1.14	
Total Dissolved Solids	1680.00		648.00		1690.00	
Dissolved Metals (ug/L)						
Aluminum	81.60 U		17.00 J		50.00 U	
Arsenate Ion - As(O4)3-	1.00 U		41.60		0.82 J	
Arsenic, Inorganic	1.63 U		52.10		1.26	
Arsenite Ion - As(O3)3-	1.00 U		15.20		0.45 J	
Cacodylic Acid	1.05 U		1.05 U		1.05 U	
Copper	2.69 U		14.50		1.00 U	
Iron	921.00		407.00		1280.00	
Lead and Compounds	0.30 U		0.10 U		0.20 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-131+00-3-110317-(20)	GW-1B4-1-102617-2.9-7.9	GW-1B4-1-102617-2.9-7.9-(20)	GW-1C1-3-110317	GW-1C1-3-110317-(20)	GW-1C2-2-101117-13.8-23.6
	Site ID:	131+00-3	1B4-1	1B4-1	1C1-3	1C1-3	1C2-2
	Sample Date:	11/03/17	10/26/17	10/26/17	11/03/17	11/03/17	10/11/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		128000.00		61400.00		96800.00	
Manganese		149.00		117.00		142.00	
Mercury (elemental)		0.0004 U		0.10 U		0.10 U	
Methylarsonic acid		1.15 U		1.15 U		1.15 U	
Nickel Soluble Salts		0.18 J		18.40		5.53	
Silicon		22200.00		16700.00		17600.00	
Sum of arsenic species		2.00 U		56.80		1.27 J	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		0.50 U		0.10 U		0.69	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			2.59		0.07		0.01
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			5.40		-139.40		-106.80
Specific Conductivity (uS/cm)			860.40		3224.60		21055.90
Temperature (Celsius) (C)			15.33		12.37		13.77
Turbidity (NTU)			4.01		3.80		17.90
pH ()			6.93		7.78		6.56
Field TDS and Sulfide (mg/L)							
Sulfide			0.04		0		0.04
Total Dissolved Solids			1000.00		2000.00		14000.00
Total Metals (ug/L)							
Arsenic, Inorganic			129.00		1.58		5.02

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-131+00-3-110317-(20)	GW-1B4-1-102617-2.9-7.9	GW-1B4-1-102617-2.9-7.9-(20)	GW-1C1-3-110317	GW-1C1-3-110317-(20)	GW-1C2-2-101117-13.8-23.6
	Site ID:	131+00-3	1B4-1	1B4-1	1C1-3	1C1-3	1C2-2
	Sample Date:	11/03/17	10/26/17	10/26/17	11/03/17	11/03/17	10/11/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			21.50		1.00 U		10.00U
Lead and Compounds			1.50		0.20 U		2.00U
Mercury (elemental)			0.10 U		0.10 U		0.20U
Nickel Soluble Salts			21.80		4.83		2.22U
Field Ferrous Iron (ug/L)							
Ferrous Iron			720.00		890.00		9900.00
VOCs (ug/L)							
Chloroform			0.20 U		0.20 U		0.20U
Tetrachloroethylene			0.20 U		0.10 J		0.20U
Trichloroethylene			0.20 U		0.20 U		0.20U
Vinyl Chloride			0.20 U		0.20 U		0.20U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-1C2-2-101117-13.8-23.6-(20)	GW-1C3-1-101117-3.5-8.5	GW-1C3-1-101117-3.5-8.5-(20)	GW-1D1-1-101217-9.6-14.6	GW-1D1-1-101217-9.6-14.6-(20)	GW-2A1-1-101317-9-14
	Site ID:	1C2-2	1C3-1	1C3-1	1D1-1	1D1-1	2A1-1
	Sample Date:	10/11/17	10/11/17	10/11/17	10/12/17	10/12/17	10/13/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3		1470.00		996.00		700.00	
Alkalinity, Carb.As CaCO3		1.00 U		1.00 U		262.00	
Alkalinity, Total		1470.00		996.00		962.00	
Bromine anion (Br-)		5.22 J					
Calcium		137.00		31.30		2.08	
Chloride		8240.00		247.00		1010.00	
Dissolved Organic Carbon		88.50		38.20		51.20	
Fluoride		5.00 U		3.93		2.61	
Hydroxide Alkalinity		1.00 U		1.00 U		1.00 U	
Nitrate		5.00 U		1.00 U		1.00 UJ	
Nitrite							
Potassium		165.00		11.50		5.17	
Sodium		5500.00		563.00		1150.00	
Sulfate		5.87		6.95		7.67	
Total Dissolved Solids		12800.00		1520.00		2570.00	
Dissolved Metals (ug/L)							
Aluminum		29.00 J		29.70 J		48.70 J	
Arsenate Ion - As(O4)3-		2.13		145.00		10.30	
Arsenic, Inorganic		5.24		751.00		24.00	
Arsenite Ion - As(O3)3-		1.24		584.00		6.36	
Cacodylic Acid		1.05 U		1.05 U		1.05 U	
Copper		10.00 U		2.50 U		14.80	
Iron		76800.00		20700.00		567.00	
Lead and Compounds		2.00 U		0.50 U		3.58	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-1C2-2-101117-13.8-23.6-(20)	GW-1C3-1-101117-3.5-8.5	GW-1C3-1-101117-3.5-8.5-(20)	GW-1D1-1-101217-9.6-14.6	GW-1D1-1-101217-9.6-14.6-(20)	GW-2A1-1-101317-9-14
	Site ID:	1C2-2	1C3-1	1C3-1	1D1-1	1D1-1	2A1-1
	Sample Date:	10/11/17	10/11/17	10/11/17	10/12/17	10/12/17	10/13/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		246000.00		36200.00		170.00	
Manganese		618.00		744.00		5.60	
Mercury (elemental)		0.10 U		0.10 U		0.10 U	
Methylarsonic acid		1.15 U		1.15 U		0.23 J	
Nickel Soluble Salts		2.10 J		1.38 J		22.20	
Silicon		21300.00		22800.00		40600.00	
Sum of arsenic species		3.37		729.00		16.66	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		5.00 U		1.49		7.17 J	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.02		0.01		0.05
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-174.70		-67.90		-50.00
Specific Conductivity (uS/cm)			2162.70		4571.50		1830.20
Temperature (Celsius) (C)			16.98		15.51		15.56
Turbidity (NTU)			15.70		7.20		4.82
pH ()			7.29		9.24		6.82
Field TDS and Sulfide (mg/L)							
Sulfide			0.06		0.27		0.08
Total Dissolved Solids			1000.00		3000.00		1000.00
Total Metals (ug/L)							
Arsenic, Inorganic			741.00		26.40		87.90

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-1C2-2-101117-13.8-23.6-(20)	GW-1C3-1-101117-3.5-8.5	GW-1C3-1-101117-3.5-8.5-(20)	GW-1D1-1-101217-9.6-14.6	GW-1D1-1-101217-9.6-14.6-(20)	GW-2A1-1-101317-9-14
	Site ID:	1C2-2	1C3-1	1C3-1	1D1-1	1D1-1	2A1-1
	Sample Date:	10/11/17	10/11/17	10/11/17	10/12/17	10/12/17	10/13/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			2.50 U		17.50		6.36
Lead and Compounds			0.50 U		4.49		0.94
Mercury (elemental)			0.20 U		0.20 U		0.10U
Nickel Soluble Salts			1.53 J		24.80		4.43
Field Ferrous Iron (ug/L)							
Ferrous Iron			3000.00		380.00		7700.00
VOCs (ug/L)							
Chloroform			0.20 U		0.20 U		0.03J
Tetrachloroethylene			0.20 U		0.20 U		0.13J
Trichloroethylene			0.20 U		0.98		0.92
Vinyl Chloride			0.20 U		0.10 J		0.20U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-2A1-1-101317-9-14-(20)	GW-2B1-1-101317-3-10	GW-2B1-1-101317-3-10-(20)	GW-2B2-2-101317-30.8-35.8	GW-2B2-2-101317-30.8-35.8-(20)	GW-2C1-1R-101117-5.1-10.1
	Site ID: 2A1-1	2B1-1	2B1-1	2B2-2	2B2-2	2C1-1R
	Sample Date: 10/13/17	10/13/17	10/13/17	10/13/17	10/13/17	10/11/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	538.00		804.00		1330.00	
Alkalinity, Carb.As CaCO3	1.00 U		1.00 U		1.00 U	
Alkalinity, Total	538.00		804.00		1330.00	
Bromine anion (Br-)	0.32		3.95		33.80	
Calcium	118.00		106.00		232.00	
Chloride	238.00 J		5270.00		100000.00	
Dissolved Organic Carbon	11.90		160.00		65.20	
Fluoride	1.47		2.00 U		10.00 U	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	0.10 U		2.00 U		10.00 U	
Nitrite	0.10 U		2.00 U		10.00 U	
Potassium	7.14		28.30		375.00	
Sodium	253.00		3650.00		70400.00	
Sulfate	212.00		6.21		1440.00	
Total Dissolved Solids	1210.00		8760.00		157000.00	
Dissolved Metals (ug/L)						
Aluminum	100.00 U		957.00		2500.00 U	
Arsenate Ion - As(O4)3-	12.10		96.80		0.36 J	
Arsenic, Inorganic	90.10		147.00		14.80 J	
Arsenite Ion - As(O3)3-	72.80		55.60		0.65 J	
Cacodylic Acid	1.05 U		1.05 U		1.05 U	
Copper	1.00 U		13.30		10.00 U	
Iron	9360.00		38500.00		24800.00	
Lead and Compounds	0.20 U		9.50		2.00 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-2A1-1-101317-9-14-(20)	GW-2B1-1-101317-3-10	GW-2B1-1-101317-3-10-(20)	GW-2B2-2-101317-30.8-35.8	GW-2B2-2-101317-30.8-35.8-(20)	GW-2C1-1R-101117-5.1-10.1
	Site ID:	2A1-1	2B1-1	2B1-1	2B2-2	2B2-2	2C1-1R
	Sample Date:	10/13/17	10/13/17	10/13/17	10/13/17	10/13/17	10/11/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		57000.00		48600.00		173000.00	
Manganese		78.10		354.00		5600.00	
Mercury (elemental)		0.20 U		0.20 U		0.20 U	
Methylarsonic acid		1.15 U		0.29 J		1.15 U	
Nickel Soluble Salts		4.09		10.60		10.00 U	
Silicon		17800.00		17200.00		9930.00	
Sum of arsenic species		84.90		152.40		1.01 J	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		0.21		6.11		10.00 U	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.01		0.02		0.01
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-144.40		-65.60		-154.50
Specific Conductivity (uS/cm)			17040.00		169951.80		3640.90
Temperature (Celsius) (C)			16.02		14.23		21.87
Turbidity (NTU)			1.12		1.67		3.88
pH ()			6.22		6.20		7.17
Field TDS and Sulfide (mg/L)							
Sulfide			0.30		0		0.63
Total Dissolved Solids			11000.00		111000.00		2000.00
Total Metals (ug/L)							
Arsenic, Inorganic			146.00		7.88		287.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

Constituent	Sample ID:	GW-2A1-1-101317-9-14-(20)	GW-2B1-1-101317-3-10	GW-2B1-1-101317-3-10-(20)	GW-2B2-2-101317-30.8-35.8	GW-2B2-2-101317-30.8-35.8-(20)	GW-2C1-1R-101117-5.1-10.1
	Site ID:	2A1-1	2B1-1	2B1-1	2B2-2	2B2-2	2C1-1R
	Sample Date:	10/13/17	10/13/17	10/13/17	10/13/17	10/13/17	10/11/17
	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			9.78 J		10.00 U		21.20
Lead and Compounds			7.56		2.00 U		68.70
Mercury (elemental)			0.10 U		0.20 U		0.20U
Nickel Soluble Salts			8.22 J		1.02 J		5.73
Field Ferrous Iron (ug/L)							
Ferrous Iron			14800.00		43800.00		7400.00
VOCs (ug/L)							
Chloroform			0.04 J		2.67		0.20U
Tetrachloroethylene			0.20 U		0.20 U		0.20U
Trichloroethylene			0.20 U		0.20 U		0.20U
Vinyl Chloride			0.15 J		0.20 U		0.20U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-2C1-1R-101117-5.1-10.1-(20)	GW-2C2-2-101117-20.6-25.6	GW-2C2-2-101117-20.6-25.6-(20)	GW-2D1-1-101217-7.5-12.5	GW-2D1-1-101217-7.5-12.5-(20)	GW-2D3-2-101217-26.5-31.5
	Site ID:	2C1-1R	2C2-2	2C2-2	2D1-1	2D1-1	2D3-2
	Sample Date:	10/11/17	10/11/17	10/11/17	10/12/17	10/12/17	10/12/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3		859.00		518.00		599.00	
Alkalinity, Carb.As CaCO3		1.00 U		1.00 U		1.00 U	
Alkalinity, Total		859.00		518.00		599.00	
Bromine anion (Br-)							
Calcium		6.57		383.00		5.41	
Chloride		582.00		28600.00		1090.00	
Dissolved Organic Carbon		151.00		20.30		35.80	
Fluoride		4.22		10.00 U		5.64	
Hydroxide Alkalinity		1.00 U		1.00 U		1.00 U	
Nitrate		1.00 U		10.00 U		2.00 U	
Nitrite							
Potassium		5.31		238.00		13.50	
Sodium		787.00		16900.00		1080.00	
Sulfate		7.59		311.00		5.36	
Total Dissolved Solids		2110.00		40600.00		2360.00	
Dissolved Metals (ug/L)							
Aluminum		1850.00		250.00 U		322.00	
Arsenate Ion - As(O4)3-		223.00		6.10		1.88	
Arsenic, Inorganic		288.00		8.70		3.61	
Arsenite Ion - As(O3)3-		81.70		1.63		1.97	
Cacodylic Acid		1.05 U		1.05 U		1.05 U	
Copper		14.90		10.00 U		1.86 J	
Iron		9400.00		112000.00		7230.00	
Lead and Compounds		36.20		2.00 U		0.99	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-2C1-1R-101117-5.1-10.1-(20)	GW-2C2-2-101117-20.6-25.6	GW-2C2-2-101117-20.6-25.6-(20)	GW-2D1-1-101217-7.5-12.5	GW-2D1-1-101217-7.5-12.5-(20)	GW-2D3-2-101217-26.5-31.5
	Site ID:	2C1-1R	2C2-2	2C2-2	2D1-1	2D1-1	2D3-2
	Sample Date:	10/11/17	10/11/17	10/11/17	10/12/17	10/12/17	10/12/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		2730.00		247000.00		894.00	
Manganese		226.00		2930.00		309.00	
Mercury (elemental)		0.10 U		0.10 U		0.10 U	
Methylarsonic acid		0.49 J		1.15 U		1.15 U	
Nickel Soluble Salts		3.48		1.36 J		1.20 J	
Silicon		24300.00		6850.00		22200.00	
Sum of arsenic species		304.70		7.73		3.85	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		9.57		10.00 U		8.85	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.04		0.07		0.03
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-96.40		-127.80		-73.40
Specific Conductivity (uS/cm)			61476.90		3253.40		70618.00
Temperature (Celsius) (C)			15.04		18.36		14.40
Turbidity (NTU)			2.15		4.88		17.80
pH ()			6.11		7.12		6.26
Field TDS and Sulfide (mg/L)							
Sulfide			0.08		0.14		0.02
Total Dissolved Solids			40000.00		2000.00		46000.00
Total Metals (ug/L)							
Arsenic, Inorganic			9.22		2.57		2.32J

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

Constituent	Sample ID:	GW-2C1-1R-101117-5.1-10.1-(20)	GW-2C2-2-101117-20.6-25.6	GW-2C2-2-101117-20.6-25.6-(20)	GW-2D1-1-101217-7.5-12.5	GW-2D1-1-101217-7.5-12.5-(20)	GW-2D3-2-101217-26.5-31.5
	Site ID:	2C1-1R	2C2-2	2C2-2	2D1-1	2D1-1	2D3-2
	Sample Date:	10/11/17	10/11/17	10/11/17	10/12/17	10/12/17	10/12/17
	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			12.80		1.79 J		10.00U
Lead and Compounds			1.76 J		8.15		2.00U
Mercury (elemental)			0.20 U		0.20 U		0.20U
Nickel Soluble Salts			3.68 J		0.98 J		1.24U
Field Ferrous Iron (ug/L)							
Ferrous Iron			8000.00		700.00		6500.00
VOCs (ug/L)							
Chloroform			0.20 UJ		0.20 U		0.20U
Tetrachloroethylene			0.20 UJ		0.20 U		0.20U
Trichloroethylene			0.20 UJ		0.20 U		0.20U
Vinyl Chloride			0.20 UJ		0.20 U		0.20U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-2D3-2-101217-26.5-31.5-(20)	GW-3A1-3R-110217	GW-3A1-3R-110217-(20)	GW-3A2-2R-101617-22.3-27.3	GW-3A2-2R-101617-22.3-27.3-(20)	GW-3A3-1R-101617-8.2-13.2
	Site ID:	2D3-2	3A1-3R	3A1-3R	3A2-2R	3A2-2R	3A3-1R
	Sample Date:	10/12/17	11/02/17	11/02/17	10/16/17	10/16/17	10/16/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3		1660.00		342.00		1660.00	
Alkalinity, Carb.As CaCO3		1.00 U		1.00 U		1.00 U	
Alkalinity, Total		1660.00		342.00		1660.00	
Bromine anion (Br-)				2.72		17.00	
Calcium		449.00		70.80		362.00	
Chloride		31900.00		810.00		34000.00	
Dissolved Organic Carbon		54.60		2.77		34.10	
Fluoride		10.00 U		0.50 U		1.49	
Hydroxide Alkalinity		1.00 U		1.00 U		1.00 U	
Nitrate		10.00 U		0.50 U		1.00 U	
Nitrite				0.50 U		1.00 U	
Potassium		430.00		35.00		355.00	
Sodium		20200.00		346.00		20200.00	
Sulfate		1710.00		1.00		715.00	
Total Dissolved Solids		48800.00		1650.00		51700.00	
Dissolved Metals (ug/L)							
Aluminum		250.00 U		81.60 U		81.60 U	
Arsenate Ion - As(O4)3-		1.00 U		1.00 U		0.62 J	
Arsenic, Inorganic		2.46 J		1.63 U		3.38	
Arsenite Ion - As(O3)3-		1.00 U		0.24 J		1.01	
Cacodylic Acid		1.05 U		1.05 U		1.05 U	
Copper		10.00 U		2.69 U		2.69 U	
Iron		122000.00		515.00		7920.00	
Lead and Compounds		2.00 U		0.30 U		0.61 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-2D3-2-101217-26.5-31.5-(20)	GW-3A1-3R-110217	GW-3A1-3R-110217-(20)	GW-3A2-2R-101617-22.3-27.3	GW-3A2-2R-101617-22.3-27.3-(20)	GW-3A3-1R-101617-8.2-13.2
	Site ID:	2D3-2	3A1-3R	3A1-3R	3A2-2R	3A2-2R	3A3-1R
	Sample Date:	10/12/17	11/02/17	11/02/17	10/16/17	10/16/17	10/16/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		619000.00		107000.00		587000.00	
Manganese		2650.00		129.00		1630.00	
Mercury (elemental)		0.10 U		0.0004 U		0.0005	
Methylarsonic acid		1.15 U		1.15 U		1.15 U	
Nickel Soluble Salts		10.00 U		0.61 U		0.61	
Silicon		20700.00		21600.00		19700.00	
Sum of arsenic species		2.00 U		0.24 J		1.63 J	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		10.00 U		0.55 J		1.00 U	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.04		0.07		9.04
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-117.50		-92.00		1.40
Specific Conductivity (uS/cm)			3132.20		3773.00		108.50
Temperature (Celsius) (C)			13.04		15.98		19.90
Turbidity (NTU)			1.81		2.37		1.76
pH ()			7.77		7.01		7.31
Field TDS and Sulfide (mg/L)							
Sulfide			0.03		0		0.04
Total Dissolved Solids			2000.00		2000.00		0
Total Metals (ug/L)							
Arsenic, Inorganic			1.63 U		4.54		54.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-2D3-2-101217-26.5-31.5-(20)	GW-3A1-3R-110217	GW-3A1-3R-110217-(20)	GW-3A2-2R-101617-22.3-27.3	GW-3A2-2R-101617-22.3-27.3-(20)	GW-3A3-1R-101617-8.2-13.2
	Site ID:	2D3-2	3A1-3R	3A1-3R	3A2-2R	3A2-2R	3A3-1R
	Sample Date:	10/12/17	11/02/17	11/02/17	10/16/17	10/16/17	10/16/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			2.69 U		2.69 U		1.58J
Lead and Compounds			0.30 U		0.61 U		0.61U
Mercury (elemental)			0.0004 U		0.0006		0.005
Nickel Soluble Salts			0.34 J		0.66		5.69
Field Ferrous Iron (ug/L)							
Ferrous Iron			530.00		6500.00		8200.00
VOCs (ug/L)							
Chloroform			0.20 U		0.20 U		0.20U
Tetrachloroethylene			0.20 U		0.20 U		0.11U
Trichloroethylene			0.20 U		0.20 U		0.20
Vinyl Chloride			0.20 U		0.15 J		0.54

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-3A3-1R-101617-8.2-13.2-(20)	GW-3A6-2R-101617	GW-3A6-2R-101617-(20)	GW-3A7-1R-101617	GW-3A7-1R-101617-(20)	GW-3C1-1-101217-3-8
	Site ID:	3A3-1R	3A6-2R	3A6-2R	3A7-1R	3A7-1R	3C1-1
	Sample Date:	10/16/17	10/16/17	10/16/17	10/16/17	10/16/17	10/12/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3		824.00		1360.00		399.00	
Alkalinity, Carb.As CaCO3		1.00 U		1.00 U		1.00 U	
Alkalinity, Total		824.00		1360.00		399.00	
Bromine anion (Br-)				25.30		1.30	
Calcium		61.60		462.00		5.84	
Chloride		879.00		53500.00		236.00	
Dissolved Organic Carbon		27.90		42.20		149.00	
Fluoride		5.78		2.00 U		3.63	
Hydroxide Alkalinity		1.00 U		1.00 U		1.00 U	
Nitrate		0.10 UJ		2.00 UJ		0.10 U	
Nitrite		0.10 UJJ		2.00 UJJ		0.10 U	
Potassium		7.68		352.00		8.26	
Sodium		800.00		32300.00		329.00	
Sulfate		251.00		626.00		7.19	
Total Dissolved Solids		2480.00		80800.00		1030.00	
Dissolved Metals (ug/L)							
Aluminum		40.10 J		22.70 J		1510.00	
Arsenate Ion - As(O4)3-		29.40		1.63		28.70	
Arsenic, Inorganic		57.80		4.24		42.10	
Arsenite Ion - As(O3)3-		29.30		1.81		11.10	
Cacodylic Acid		1.05 U		1.05 U		1.05 U	
Copper		1.25 J		2.69 U		20.70	
Iron		10600.00		24800.00		12300.00	
Lead and Compounds		0.61 U		0.61 U		43.70	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-3A3-1R-101617-8.2-13.2-(20)	GW-3A6-2R-101617	GW-3A6-2R-101617-(20)	GW-3A7-1R-101617	GW-3A7-1R-101617-(20)	GW-3C1-1-101217-3-8
	Site ID:	3A3-1R	3A6-2R	3A6-2R	3A7-1R	3A7-1R	3C1-1
	Sample Date:	10/16/17	10/16/17	10/16/17	10/16/17	10/16/17	10/12/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		70800.00		538000.00		3600.00	
Manganese		249.00		3140.00		46.70	
Mercury (elemental)		0.004		0.001		0.05	
Methylarsonic acid		1.15 U		1.15 U		1.15 U	
Nickel Soluble Salts		5.55		3.75		6.22	
Silicon		24000.00		12800.00		23600.00	
Sum of arsenic species		58.70		3.44		39.80	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		0.57		2.00 UJ		9.54	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.08		0.01		0.01
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-18.30		-157.00		-180.40
Specific Conductivity (uS/cm)			95944.40		1242.90		7183.00
Temperature (Celsius) (C)			14.72		18.82		16.20
Turbidity (NTU)			8.28		5.42		
pH ()			6.39		8.58		8.04
Field TDS and Sulfide (mg/L)							
Sulfide			0.03		0.45		3.10
Total Dissolved Solids			62000.00		1000.00		5000.00
Total Metals (ug/L)							
Arsenic, Inorganic			4.13		62.40		178.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-3A3-1R-101617-8.2-13.2-(20)	GW-3A6-2R-101617	GW-3A6-2R-101617-(20)	GW-3A7-1R-101617	GW-3A7-1R-101617-(20)	GW-3C1-1-101217-3-8
	Site ID:	3A3-1R	3A6-2R	3A6-2R	3A7-1R	3A7-1R	3C1-1
	Sample Date:	10/16/17	10/16/17	10/16/17	10/16/17	10/16/17	10/12/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			2.69 U		67.90		90.40
Lead and Compounds			0.61 U		122.00		20.60
Mercury (elemental)			0.002		0.09		0.52
Nickel Soluble Salts			3.61		9.06		69.90
Field Ferrous Iron (ug/L)							
Ferrous Iron			9000.00		7900.00		8500.00
VOCs (ug/L)							
Chloroform			5.43		0.20 U		0.51
Tetrachloroethylene			0.20 U		0.20 U		0.29
Trichloroethylene			0.20 U		0.20 U		0.22
Vinyl Chloride			0.16 J		0.06 J		2.27

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-3C1-1-101217-3-8-(20)	GW-3C2-1-101217-7.5-12	GW-3C2-1-101217-7.5-12-(20)	GW-3C5-2-101217-17.5-22.5	GW-3C5-2-101217-17.5-22.5-(20)	GW-3C6-1R-101117-4.5-9.5
	Site ID:	3C1-1	3C2-1	3C2-1	3C5-2	3C5-2	3C6-1R
	Sample Date:	10/12/17	10/12/17	10/12/17	10/12/17	10/12/17	10/11/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3		797.00		542.00		829.00	
Alkalinity, Carb.As CaCO3		1.00 U		552.00		1.00 U	
Alkalinity, Total		797.00		1090.00		829.00	
Bromine anion (Br-)						26.00 J	
Calcium		13.30		8.32		655.00	
Chloride		2890.00		3110.00		111000.00	
Dissolved Organic Carbon		666.00		98.20		25.80	
Fluoride		2.64		2.39		10.00 U	
Hydroxide Alkalinity		1.00 U		1.00 U		1.00 U	
Nitrate		2.00 U		2.00 UJ		10.00 U	
Nitrite							
Potassium		13.90		20.40		638.00	
Sodium		2310.00		2550.00		71000.00	
Sulfate		4.63		48.60		1050.00	
Total Dissolved Solids		5420.00		5320.00		138000.00	
Dissolved Metals (ug/L)							
Aluminum		2110.00		28.90 J		1000.00 U	
Arsenate Ion - As(O4)3-		91.10		7.21		5.72	
Arsenic, Inorganic		70.10		42.60		7.30 J	
Arsenite Ion - As(O3)3-		50.70		4.73		13.30	
Cacodylic Acid		2.12		0.30 J		0.36 J	
Copper		28.60		10.00 U		25.00 U	
Iron		13600.00		134.00		194000.00	
Lead and Compounds		6.72		2.06		5.00 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-3C1-1-101217-3-8-(20)	GW-3C2-1-101217-7.5-12	GW-3C2-1-101217-7.5-12-(20)	GW-3C5-2-101217-17.5-22.5	GW-3C5-2-101217-17.5-22.5-(20)	GW-3C6-1R-101117-4.5-9.5
	Site ID:	3C1-1	3C2-1	3C2-1	3C5-2	3C5-2	3C6-1R
	Sample Date:	10/12/17	10/12/17	10/12/17	10/12/17	10/12/17	10/11/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		2120.00		639.00		830000.00	
Manganese		957.00		2.50		6550.00	
Mercury (elemental)		0.15		0.10 U		0.10 U	
Methylarsonic acid		14.30		0.38 J		0.46 J	
Nickel Soluble Salts		37.50		12.40		2.50	
Silicon		42400.00		23500.00		13700.00	
Sum of arsenic species		141.80		11.94		19.02	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		10.00		6.03 J		10.00 U	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.04		0.03		0
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-166.80		-81.50		-142.60
Specific Conductivity (uS/cm)			10452.40		164598.00		10430.00
Temperature (Celsius) (C)			15.93		13.78		18.74
Turbidity (NTU)			2.16		15.30		0.10
pH ()			9.81		6.01		6.52
Field TDS and Sulfide (mg/L)							
Sulfide			3.10		0.07		1.50
Total Dissolved Solids			7000.00		107000.00		7000.00
Total Metals (ug/L)							
Arsenic, Inorganic			43.90		23.80		32.10

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-3C1-1-101217-3-8-(20)	GW-3C2-1-101217-7.5-12	GW-3C2-1-101217-7.5-12-(20)	GW-3C5-2-101217-17.5-22.5	GW-3C5-2-101217-17.5-22.5-(20)	GW-3C6-1R-101117-4.5-9.5
	Site ID:	3C1-1	3C2-1	3C2-1	3C5-2	3C5-2	3C6-1R
	Sample Date:	10/12/17	10/12/17	10/12/17	10/12/17	10/12/17	10/11/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			10.00 U		54.60		105.00
Lead and Compounds			2.54		13.50		20.90
Mercury (elemental)			0.20 U		0.20 U		0.24
Nickel Soluble Salts			15.30		41.00		16.40
Field Ferrous Iron (ug/L)							
Ferrous Iron			1000.00		7500.00		1180.00
VOCs (ug/L)							
Chloroform			3630.00 J		6.40 J		1.00U
Tetrachloroethylene			16400.00 J		0.60 J		1.00U
Trichloroethylene			588.00 J		0.14 J		1.00U
Vinyl Chloride			789.00 J		0.90 J		1.00U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-3C6-1R-101117-4.5-9.5-(20)	GW-3C7-2R-101117-24.3-29.3	GW-3C7-2R-101117-24.3-29.3-(20)	GW-3D1-1-101217-4.5-12.5	GW-3D1-1-101217-4.5-12.5-(20)	GW-3E1-1-101217-5-10
	Site ID:	3C6-1R	3C7-2R	3C7-2R	3D1-1	3D1-1	3E1-1
	Sample Date:	10/11/17	10/11/17	10/11/17	10/12/17	10/12/17	10/12/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3		563.00		1490.00		244.00	
Alkalinity, Carb.As CaCO3		1.00 U		1.00 U		1.00 U	
Alkalinity, Total		563.00		1490.00		244.00	
Bromine anion (Br-)				20.60 J		0.61 J	
Calcium		3.72		623.00		115.00	
Chloride		3560.00		48900.00			
Dissolved Organic Carbon		236.00		20.00		12.80	
Fluoride		8.02		10.00 U		0.57	
Hydroxide Alkalinity		1.00 U		1.00 U		1.00 U	
Nitrate		2.00 UJ		10.00 U		0.20 U	
Nitrite							
Potassium		7.84		491.00		15.20	
Sodium		2700.00		29000.00		89.80	
Sulfate		4.17		168.00		128.00	
Total Dissolved Solids		6340.00		69200.00		687.00	
Dissolved Metals (ug/L)							
Aluminum		4740.00		500.00 U		50.00 U	
Arsenate Ion - As(O4)3-		9.73		1.00 U		8.48	
Arsenic, Inorganic		14.20		3.84 J		37.50	
Arsenite Ion - As(O3)3-		5.31		1.00 U		32.70	
Cacodylic Acid		1.05 U		1.05 U		1.05 U	
Copper		25.70		10.00 U		0.50 U	
Iron		20800.00		15500.00		14200.00	
Lead and Compounds		10.90		2.00 U		0.10 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-3C6-1R-101117-4.5-9.5-(20)	GW-3C7-2R-101117-24.3-29.3	GW-3C7-2R-101117-24.3-29.3-(20)	GW-3D1-1-101217-4.5-12.5	GW-3D1-1-101217-4.5-12.5-(20)	GW-3E1-1-101217-5-10
	Site ID:	3C6-1R	3C7-2R	3C7-2R	3D1-1	3D1-1	3E1-1
	Sample Date:	10/11/17	10/11/17	10/11/17	10/12/17	10/12/17	10/12/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		2070.00		927000.00		4690.00	
Manganese		187.00		2930.00		172.00	
Mercury (elemental)		0.10 U		0.10 U		0.10 U	
Methylarsonic acid		0.42 J		1.15 U		1.15 U	
Nickel Soluble Salts		6.66 J		10.00 U		0.61	
Silicon		29700.00		15900.00		42200.00	
Sum of arsenic species		15.04		2.00 U		41.18	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		20.40 J		10.00 U		0.20 U	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.05		0.29		0.04
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-75.90		-115.00		-75.90
Specific Conductivity (uS/cm)			95690.70		875.50		772.00
Temperature (Celsius) (C)			15.58		16.35		15.69
Turbidity (NTU)			16.70		39.80		8.28
pH ()			6.54		7.18		6.79
Field TDS and Sulfide (mg/L)							
Sulfide			0		0.04		0.10
Total Dissolved Solids			62000.00		1000.00		1000.00
Total Metals (ug/L)							
Arsenic, Inorganic			3.38 J		37.30		148.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-3C6-1R-101117-4.5-9.5-(20)	GW-3C7-2R-101117-24.3-29.3	GW-3C7-2R-101117-24.3-29.3-(20)	GW-3D1-1-101217-4.5-12.5	GW-3D1-1-101217-4.5-12.5-(20)	GW-3E1-1-101217-5-10
	Site ID:	3C6-1R	3C7-2R	3C7-2R	3D1-1	3D1-1	3E1-1
	Sample Date:	10/11/17	10/11/17	10/11/17	10/12/17	10/12/17	10/12/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			10.00 U		0.95		2.99
Lead and Compounds			2.00 U		0.33 J		0.67
Mercury (elemental)			0.20 U		0.10 U		0.20U
Nickel Soluble Salts			10.00 U		0.67		0.73
Field Ferrous Iron (ug/L)							
Ferrous Iron			5900.00		9500.00		1700.00
VOCs (ug/L)							
Chloroform			0.20 UJ		0.20 U		0.20U
Tetrachloroethylene			0.20 UJ		0.16 J		0.20U
Trichloroethylene			0.20 UJ		13.60		0.25
Vinyl Chloride			0.20 UJ		1.29		0.20U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-3E1-1-101217-5-10-(20)	GW-3E1-2-101317-17.5-22.5	GW-3E1-2-101317-17.5-22.5-(20)	GW-4B1-3-110217	GW-4B1-3-110217-(20)	GW-4B2-2-101317-22.5-27.5
	Site ID: 3E1-1	3E1-2	3E1-2	4B1-3	4B1-3	4B2-2
	Sample Date: 10/12/17	10/13/17	10/13/17	11/02/17	11/02/17	10/13/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	369.00		1190.00		531.00	
Alkalinity, Carb.As CaCO3	1.00 U		1.00 U		1.00 U	
Alkalinity, Total	369.00		1190.00		531.00	
Bromine anion (Br-)	0.76 J		12.80		7.31	
Calcium	2.06		179.00		118.00	
Chloride	25.00		7670.00		5370.00	
Dissolved Organic Carbon	10.90		25.40		6.01	
Fluoride	1.48		1.00 U		0.10 U	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	0.10 U		1.00 U		0.10 U	
Nitrite			1.00 U		0.10 U	
Potassium	7.98		266.00		134.00	
Sodium	209.00		5060.00		3010.00	
Sulfate	50.20		133.00		59.80	
Total Dissolved Solids	572.00		11700.00		8220.00	
Dissolved Metals (ug/L)						
Aluminum	40.10 J		100.00 U		50.00 U	
Arsenate Ion - As(O4)3-	28.70		0.34 J		1.00 U	
Arsenic, Inorganic	154.00		2.42 J		0.83 J	
Arsenite Ion - As(O3)3-	142.00		0.26 J		1.00 U	
Cacodylic Acid	1.05 U		1.05 U		1.05 U	
Copper	1.08		10.00 U		2.50 U	
Iron	2670.00		29700.00		5250.00	
Lead and Compounds	0.24		2.00 U		0.50 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-3E1-1-101217-5-10-(20)	GW-3E1-2-101317-17.5-22.5	GW-3E1-2-101317-17.5-22.5-(20)	GW-4B1-3-110217	GW-4B1-3-110217-(20)	GW-4B2-2-101317-22.5-27.5
	Site ID:	3E1-1	3E1-2	3E1-2	4B1-3	4B1-3	4B2-2
	Sample Date:	10/12/17	10/13/17	10/13/17	11/02/17	11/02/17	10/13/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		5490.00		389000.00		195000.00	
Manganese		42.40		2580.00		424.00	
Mercury (elemental)		0.10 U		0.20 U		0.10 U	
Methylarsonic acid		1.15 U		1.15 U		1.15 U	
Nickel Soluble Salts		0.63		10.00 U		2.50 U	
Silicon		26300.00		25400.00		17500.00	
Sum of arsenic species		170.70		0.61 J		2.00 U	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		1.41		1.00 U		0.10 UJ	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.03		0.07		0.02
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-41.20		-100.60		-63.50
Specific Conductivity (uS/cm)			21332.80		13454.00		66081.60
Temperature (Celsius) (C)			13.59		13.77		14.18
Turbidity (NTU)			11.20		2.05		13.90
pH ()			6.50		6.84		6.40
Field TDS and Sulfide (mg/L)							
Sulfide			0.02		0.03		0.09
Total Dissolved Solids			14000.00		8680.00		43000.00
Total Metals (ug/L)							
Arsenic, Inorganic			4.10		0.75 J		4.62

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

Constituent	Sample ID: Site ID: Sample Date: Media:	GW-3E1-1-101217-5-10-(20) 3E1-1 10/12/17 Groundwater	GW-3E1-2-101317-17.5- 22.5 3E1-2 10/13/17 Groundwater	GW-3E1-2-101317-17.5- 22.5-(20) 3E1-2 10/13/17 Groundwater	GW-4B1-3-110217 4B1-3 11/02/17 Groundwater	GW-4B1-3-110217-(20) 4B1-3 11/02/17 Groundwater	GW-4B2-2-101317-22.5- 27.5 4B2-2 10/13/17 Groundwater
Copper			10.00 U		2.50 U		10.00U
Lead and Compounds			2.00 U		0.50 U		2.00U
Mercury (elemental)			0.10 U		0.10 U		0.10U
Nickel Soluble Salts			10.00 U		2.50 U		2.34U
Field Ferrous Iron (ug/L)							
Ferrous Iron			24300.00		4100.00		27600.00
VOCs (ug/L)							
Chloroform			0.05 J		19.30		451.00
Tetrachloroethylene			0.20 U		0.90		0.84
Trichloroethylene			0.20 U		6.41		0.51
Vinyl Chloride			0.20 U		16.50		6.61

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-4B2-2-101317-22.5-27.5-(20)	GW-4B2-3-110217	GW-4B2-3-110217-(20)	GW-4B3-1-101317-4.5-1 0.5	GW-4B3-1-101317-4.5-1 0.5-(20)	GW-4B3-2-101317-17.5-27.5
	Site ID: 4B2-2	4B2-3	4B2-3	4B3-1	4B3-1	4B3-2
	Sample Date: 10/13/17	11/02/17	11/02/17	10/13/17	10/13/17	10/13/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	1200.00		1040.00		232.00	
Alkalinity, Carb.As CaCO3	1.00 U		1.00 U		1.00 U	
Alkalinity, Total	1200.00		1040.00		232.00	
Bromine anion (Br-)	21.20		14.50		0.30	
Calcium	351.00		185.00		0.15	
Chloride	29500.00		16800.00		39.20	
Dissolved Organic Carbon	40.80		13.20		13.20	
Fluoride	2.00 U		0.50		0.86	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	2.00 U		0.50 U		0.20 U	
Nitrite	2.00 U		0.50 U		0.20 U	
Potassium	362.00		163.00		0.98	
Sodium	19700.00		10700.00		154.00	
Sulfate	1290.00		21.10		31.70	
Total Dissolved Solids	44900.00		25700.00		437.00	
Dissolved Metals (ug/L)						
Aluminum	500.00 U		81.60 U		257.00	
Arsenate Ion - As(O4)3-	0.20 J		1.00 U		46.50	
Arsenic, Inorganic	6.34		1.63 U		223.00	
Arsenite Ion - As(O3)3-	0.47 J		1.00 U		191.00	
Cacodylic Acid	1.05 U		1.05 U		1.05 U	
Copper	10.00 U		2.69 U		3.15	
Iron	44100.00		21.40 J		2330.00	
Lead and Compounds	2.00 U		0.30 U		2.61	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-4B2-2-101317-22.5-27.5-(20)	GW-4B2-3-110217	GW-4B2-3-110217-(20)	GW-4B3-1-101317-4.5-10.5	GW-4B3-1-101317-4.5-10.5-(20)	GW-4B3-2-101317-17.5-27.5
	Site ID:	4B2-2	4B2-3	4B2-3	4B3-1	4B3-1	4B3-2
	Sample Date:	10/13/17	11/02/17	11/02/17	10/13/17	10/13/17	10/13/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		557000.00		397000.00		189.00	
Manganese		2520.00		449.00		25.50	
Mercury (elemental)		0.20 U		0.0001 J		0.20 U	
Methylarsonic acid		1.15 U		1.15 U		1.15 U	
Nickel Soluble Salts		10.00 U		0.20 J		2.77	
Silicon		17500.00		24300.00		26300.00	
Sum of arsenic species		0.67 J		2.00 U		237.50	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		2.00 U		2.81 J		2.87	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.05		0.03		0.07
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-209.70		-105.10		-43.10
Specific Conductivity (uS/cm)			45736.50		558.30		47032.00
Temperature (Celsius) (C)			13.91		17.91		14.99
Turbidity (NTU)			1.04		46.10		19.80
pH ()			7.01		7.39		6.37
Field TDS and Sulfide (mg/L)							
Sulfide			1.00		0.17		0.02
Total Dissolved Solids			30000.00		0		31000.00
Total Metals (ug/L)							
Arsenic, Inorganic			1.63 U		208.00		1.92J

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-4B2-2-101317-22.5-27.5-(20)	GW-4B2-3-110217	GW-4B2-3-110217-(20)	GW-4B3-1-101317-4.5-10.5	GW-4B3-1-101317-4.5-10.5-(20)	GW-4B3-2-101317-17.5-27.5
	Site ID:	4B2-2	4B2-3	4B2-3	4B3-1	4B3-1	4B3-2
	Sample Date:	10/13/17	11/02/17	11/02/17	10/13/17	10/13/17	10/13/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			2.69 U		35.60		10.00U
Lead and Compounds			0.30 U		14.00		2.00U
Mercury (elemental)			0.0004 U		0.10 U		0.10U
Nickel Soluble Salts			0.25 J		6.70		10.00U
Field Ferrous Iron (ug/L)							
Ferrous Iron			0		3300.00		20800.00
VOCs (ug/L)							
Chloroform			0.20 U		0.20 U		0.06J
Tetrachloroethylene			0.20 U		0.20 U		0.20U
Trichloroethylene			0.20 U		0.57		0.06J
Vinyl Chloride			0.20 U		0.20 U		0.20U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-4B3-2-101317-17.5-27.5-(20)	GW-4B4-1-101617	GW-4B4-1-101617-(20)	GW-4B4-2-101617-(20)_DC	GW-4B4-2-101617_DC	GW-4C1-1-101717
	Site ID:	4B3-2	4B4-1	4B4-1	4B4-2	4B4-2	4C1-1
	Sample Date:	10/13/17	10/16/17	10/16/17	10/16/17	10/16/17	10/17/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3		1690.00		133.00	1440.00		
Alkalinity, Carb.As CaCO3		1.00 U		1.00 U	1.00 U		
Alkalinity, Total		1690.00		133.00	1440.00		
Bromine anion (Br-)		21.80		0.35	6.52		
Calcium		444.00		42.30	420.00		
Chloride		19800.00		96.00	46100.00		
Dissolved Organic Carbon		22.90		8.04	35.40		
Fluoride		2.00 U		0.13	0.50 U		
Hydroxide Alkalinity		1.00 U		1.00 U	1.00 U		
Nitrate		2.00 U		0.10 U	0.50 U		
Nitrite		2.00 U		0.10 U	0.50 U		
Potassium		452.00		4.42	329.00		
Sodium		12300.00		27.70	26750.00		
Sulfate		479.00		2.68	466.50		
Total Dissolved Solids		30700.00		333.00	61450.00		
Dissolved Metals (ug/L)							
Aluminum		250.00 U		81.60 U	20.50 J		
Arsenate Ion - As(O4)3-		1.00 U		6.19	0.84 J		
Arsenic, Inorganic		3.82 J		45.40	3.78		
Arsenite Ion - As(O3)3-		1.00 U		47.20	1.44		
Cacodylic Acid		1.05 U		1.05 U	1.05 U		
Copper		10.00 U		2.69 U	2.69 U		
Iron		18900.00		3630.00	21850.00		
Lead and Compounds		2.00 U		0.61 U	0.61 U		

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-4B3-2-101317-17.5-27.5-(20)	GW-4B4-1-101617	GW-4B4-1-101617-(20)	GW-4B4-2-101617-(20)_DC	GW-4B4-2-101617_DC	GW-4C1-1-101717
	Site ID:	4B3-2	4B4-1	4B4-1	4B4-2	4B4-2	4C1-1
	Sample Date:	10/13/17	10/16/17	10/16/17	10/16/17	10/16/17	10/17/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		997000.00		19200.00	645500.00		
Manganese		1050.00		35.00	1885.00		
Mercury (elemental)		0.20 U		0.0003 J	0.0002 J		
Methylarsonic acid		1.15 U		1.15 U	1.15 U		
Nickel Soluble Salts		10.00 U		0.82	0.64 J		
Silicon		18800.00		9270.00	16200.00		
Sum of arsenic species		2.00 U		53.39	2.27 J		
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		2.00 U		0.10 U	0.50 U		
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.09		0.03		0.02
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-82.00		-76.70		-110.00
Specific Conductivity (uS/cm)			502.20		101026.00		3605.00
Temperature (Celsius) (C)			18.74		15.40		16.78
Turbidity (NTU)			0.54		9.32		1.96
pH ()			7.22		6.91		10.27
Field TDS and Sulfide (mg/L)							
Sulfide			0.04		0.03		5.00
Total Dissolved Solids			0		66000.00		2000.00
Total Metals (ug/L)							
Arsenic, Inorganic			49.00		3.72		163.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-4B3-2-101317-17.5-27.5-(20)	GW-4B4-1-101617	GW-4B4-1-101617-(20)	GW-4B4-2-101617-(20)_DC	GW-4B4-2-101617_DC	GW-4C1-1-101717
	Site ID:	4B3-2	4B4-1	4B4-1	4B4-2	4B4-2	4C1-1
	Sample Date:	10/13/17	10/16/17	10/16/17	10/16/17	10/16/17	10/17/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			2.69 U			2.69 U	24.90
Lead and Compounds			0.61 U			0.61 U	18.80
Mercury (elemental)			0.0006			0.0002 J	0.10U
Nickel Soluble Salts			0.84			1.22	17.00
Field Ferrous Iron (ug/L)							
Ferrous Iron			4500.00			16400.00	0
VOCs (ug/L)							
Chloroform			0.20 U			0.20 U	0.20U
Tetrachloroethylene			0.20 U			0.20 U	0.20U
Trichloroethylene			0.09 J			0.08 J	0.20U
Vinyl Chloride			0.20 U			0.08 J	0.20U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-4C1-1-101717-(20)	GW-4C2-1-102017	GW-4C2-1-102017-(20)	GW-4D1-1-101817	GW-4D1-1-101817-(20)	GW-4D2-1-101217-4.3-9.3
	Site ID: 4C1-1	4C2-1	4C2-1	4D1-1	4D1-1	4D2-1
	Sample Date: 10/17/17	10/20/17	10/20/17	10/18/17	10/18/17	10/12/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	1.00 U		171.00		1.00 U	
Alkalinity, Carb.As CaCO3	1340.00		417.00		2820.00	
Alkalinity, Total	1350.00		589.00		3610.00	
Bromine anion (Br-)	1.92		2.02		8.38	
Calcium	1.90		0.76		3.27	
Chloride	641.00		286.00		2080.00	
Dissolved Organic Carbon	69.70		11.80		259.00	
Fluoride	4.90		0.74		3.76	
Hydroxide Alkalinity	15.90		1.00 U		787.00	
Nitrate	0.10 UJ		0.10 U		0.20 U	
Nitrite	0.10 UJ		0.10 U		0.20 U	
Potassium	20.80		7.47		79.10	
Sodium	1060.00		454.00		3190.00	
Sulfate	48.10		19.50		108.00	
Total Dissolved Solids	3080.00		1250.00		8240.00	
Dissolved Metals (ug/L)						
Aluminum	158.00 J		22.80 J		106.00 J	
Arsenate Ion - As(O4)3-	66.20		1.61		2210.00	
Arsenic, Inorganic	111.00		13.20		4690.00	
Arsenite Ion - As(O3)3-	1.57		2.39		31.60	
Cacodylic Acid	1.05 U		1.05 U		10.50 U	
Copper	10.00 U		2.47		183.00	
Iron	4260.00		204.00		1190.00	
Lead and Compounds	5.02		1.76		75.80	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-4C1-1-101717-(20)	GW-4C2-1-102017	GW-4C2-1-102017-(20)	GW-4D1-1-101817	GW-4D1-1-101817-(20)	GW-4D2-1-101217-4.3-9.3
	Site ID:	4C1-1	4C2-1	4C2-1	4D1-1	4D1-1	4D2-1
	Sample Date:	10/17/17	10/20/17	10/20/17	10/18/17	10/18/17	10/12/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		250.00 U		178.00		141.00 J	
Manganese		5.00 U		8.60		10.10	
Mercury (elemental)		0.10 U		0.10 U		0.17	
Methylarsonic acid		0.51 J		1.15 U		2.61 J	
Nickel Soluble Salts		11.20		1.31		109.00	
Silicon		214000.00		59900.00		248000.00	
Sum of arsenic species		67.77		4.00		2241.60	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		13.30		0.82		6.85 J	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.01		0		0.04
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-75.50		-197.20		-168.80
Specific Conductivity (uS/cm)			1743.70		9184.00		2469.00
Temperature (Celsius) (C)			18.45		16.02		19.33
Turbidity (NTU)			1.45		0.21		2.16
pH ()			10.56		11.10		8.86
Field TDS and Sulfide (mg/L)							
Sulfide			4.90		14.00 >		0.62
Total Dissolved Solids			1000.00		6000.00		2000.00
Total Metals (ug/L)							
Arsenic, Inorganic			12.90		4620.00		290.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-4C1-1-101717-(20)	GW-4C2-1-102017	GW-4C2-1-102017-(20)	GW-4D1-1-101817	GW-4D1-1-101817-(20)	GW-4D2-1-101217-4.3-9.3
	Site ID:	4C1-1	4C2-1	4C2-1	4D1-1	4D1-1	4D2-1
	Sample Date:	10/17/17	10/20/17	10/20/17	10/18/17	10/18/17	10/12/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			3.54		175.00		12.10
Lead and Compounds			2.33		74.70		9.29
Mercury (elemental)			0.10 U		0.20 U		0.20U
Nickel Soluble Salts			1.56		99.10		3.04
Field Ferrous Iron (ug/L)							
Ferrous Iron			800.00		0		200.00
VOCs (ug/L)							
Chloroform			0.22		0.20 U		0.27
Tetrachloroethylene			0.32		0.20 U		0.49
Trichloroethylene			3.14		0.20 U		0.72
Vinyl Chloride			0.41		0.32		0.35

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: 3-(20) Site ID: 4D2-1 Sample Date: 10/12/17 Media: Groundwater	GW-4E1-2-101817 4E1-2 10/18/17 Groundwater	GW-4E1-2-101817-(20) 4E1-2 10/18/17 Groundwater	GW-4F1-1-101317-4.5-9. 5 4F1-1 10/13/17 Groundwater	GW-4F1-1-101317-4.5-9. 5-(20) 4F1-1 10/13/17 Groundwater	GW-4F1-2-101817-(20)_ DC 4F1-2 10/18/17 Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	622.00		3030.00		105.00	1420.00
Alkalinity, Carb.As CaCO3	69.50		1.00 U		1.00 U	1.00U
Alkalinity, Total	692.00		3030.00		105.00	1420.00
Bromine anion (Br-)	1.72		13.30		0.14	12.85
Calcium	2.57		241.00		9.60	141.00
Chloride	431.00		9130.00		19.00	5760.00
Dissolved Organic Carbon	18.80		42.70		8.98	55.50
Fluoride	1.60		0.10 U		1.32	0.24
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	1.00U
Nitrate	1.00 U		0.10 U		0.10 U	0.10U
Nitrite	1.00 U		0.10 U		0.10 U	0.12
Potassium	13.20		269.00		8.24	199.50
Sodium	569.00		6330.00		38.80	4010.00
Sulfate	18.80		137.00		13.70	795.50
Total Dissolved Solids	1370.00		18000.00		221.00	11500.00
Dissolved Metals (ug/L)						
Aluminum	51.90		250.00 U		462.00	64.45J
Arsenate Ion - As(O4)3-	116.00		1.00 U		13.10	1.29J
Arsenic, Inorganic	332.00		3.00 J		34.10	6.25
Arsenite Ion - As(O3)3-	63.30		0.26 J		20.80	2.57
Cacodylic Acid	1.05 U		1.05 U		1.05 U	1.05U
Copper	4.73		10.00 U		1.46	10.00U
Iron	235.00		2810.00		11400.00	29750.00
Lead and Compounds	4.21		2.00 U		0.20 U	2.00U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-4D2-1-101217-4.3-9.	GW-4E1-2-101817	GW-4E1-2-101817-(20)	GW-4F1-1-101317-4.5-9.	GW-4F1-1-101317-4.5-9.	GW-4F1-2-101817-(20)_
	Site ID:	3-(20)	4E1-2	4E1-2	5	5-(20)	DC
	Sample Date:	4D2-1	4E1-2	4E1-2	4F1-1	4F1-1	4F1-2
	Media:	10/12/17	10/18/17	10/18/17	10/13/17	10/13/17	10/18/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		3960.00		676000.00		3800.00	336500.00
Manganese		12.10		711.00		196.00	1435.00
Mercury (elemental)		0.10 U		0.10 U		0.20 U	0.10 U
Methylarsonic acid		1.15 U		1.15 U		1.15 U	1.15 U
Nickel Soluble Salts		2.98		10.00 U		8.82	10.00 U
Silicon		12200.00		20500.00		30600.00	26450.00
Sum of arsenic species		179.30		0.26 J		33.90	3.86 J
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		1.94		1.06		0.73	1.37
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.03		0.19		
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-53.60		80.60		
Specific Conductivity (uS/cm)			22876.00		290.90		
Temperature (Celsius) (C)			13.81		17.45		
Turbidity (NTU)			20.20		9.75		
pH ()			6.89		5.34		
Field TDS and Sulfide (mg/L)							
Sulfide			0.03		0.05		
Total Dissolved Solids			15000.00		0		
Total Metals (ug/L)							
Arsenic, Inorganic			4.20		35.30		

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-4D2-1-101217-4.3-9.	GW-4E1-2-101817	GW-4E1-2-101817-(20)	GW-4F1-1-101317-4.5-9.	GW-4F1-1-101317-4.5-9.	GW-4F1-2-101817-(20)_
	Site ID:	3-(20)	4E1-2	4E1-2	5	5-(20)	DC
	Sample Date:	10/12/17	10/18/17	10/18/17	10/13/17	10/13/17	10/18/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			10.00 U		11.00		
Lead and Compounds			2.00 U		0.54		
Mercury (elemental)			0.10 U		0.10 U		
Nickel Soluble Salts			10.00 U		11.80		
Field Ferrous Iron (ug/L)							
Ferrous Iron			3900.00		13400.00		
VOCs (ug/L)							
Chloroform			0.20 UJ		4.71		
Tetrachloroethylene			0.20 UJ		0.20 U		
Trichloroethylene			0.20 UJ		0.20 U		
Vinyl Chloride			0.20 UJ		0.20 U		

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-4F1-2-101817_DC	GW-4G1-1-110117	GW-4G1-1-110117-(20)	GW-4G2-2-110117	GW-4G2-2-110117-(20)	GW-4H3-1-110117
	Site ID:	4F1-2	4G1-1	4G1-1	4G2-2	4G2-2	4H3-1
	Sample Date:	10/18/17	11/01/17	11/01/17	11/01/17	11/01/17	11/01/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3				452.00		867.00	
Alkalinity, Carb.As CaCO3				1.00 U		1.00 U	
Alkalinity, Total				452.00		867.00	
Bromine anion (Br-)				0.52		5.01	
Calcium				9.18		47.60	
Chloride				82.70		1230.00	
Dissolved Organic Carbon				22.60		21.80	
Fluoride				0.86		0.79	
Hydroxide Alkalinity				1.00 U		1.00 U	
Nitrate				0.50 UJ		0.50 UJ	
Nitrite				0.50 UJ		0.50 UJ	
Potassium				5.43		42.20	
Sodium				239.00		784.00	
Sulfate				2.67		1.42	
Total Dissolved Solids				676.00		2830.00	
Dissolved Metals (ug/L)							
Aluminum				132.00		67.80 J	
Arsenate Ion - As(O4)3-				14.20		2.46	
Arsenic, Inorganic				145.00		10.40	
Arsenite Ion - As(O3)3-				110.00		5.26	
Cacodylic Acid				1.05 U		1.05 U	
Copper				2.27		1.00 U	
Iron				1030.00		8200.00	
Lead and Compounds				0.95		0.20 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-4F1-2-101817_DC	GW-4G1-1-110117	GW-4G1-1-110117-(20)	GW-4G2-2-110117	GW-4G2-2-110117-(20)	GW-4H3-1-110117
	Site ID:	4F1-2	4G1-1	4G1-1	4G2-2	4G2-2	4H3-1
	Sample Date:	10/18/17	11/01/17	11/01/17	11/01/17	11/01/17	11/01/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium				8320.00		64400.00	
Manganese				165.00		468.00	
Mercury (elemental)				0.10 U		0.10 U	
Methylarsonic acid				1.15 U		1.15 U	
Nickel Soluble Salts				1.95		0.81 J	
Silicon				20200.00		21600.00	
Sum of arsenic species				124.20		7.72	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P				1.19		1.16	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)		0.03	0.05		0.03		0.02
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)		-39.80	-136.90		-106.10		-444.80
Specific Conductivity (uS/cm)		15423.00	833.90		2806.90		19401.30
Temperature (Celsius) (C)		14.31	13.45		12.21		12.64
Turbidity (NTU)		6.44	3.88		4.16		
pH ()		6.32	7.20		6.55		11.59
Field TDS and Sulfide (mg/L)							
Sulfide		0.09	0.14		0.05		35.00
Total Dissolved Solids		10000.00	1000.00		2000.00		13000.00
Total Metals (ug/L)							
Arsenic, Inorganic		159.05	159.00		12.30		456.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-4F1-2-101817_DC	GW-4G1-1-110117	GW-4G1-1-110117-(20)	GW-4G2-2-110117	GW-4G2-2-110117-(20)	GW-4H3-1-110117
	Site ID:	4F1-2	4G1-1	4G1-1	4G2-2	4G2-2	4H3-1
	Sample Date:	10/18/17	11/01/17	11/01/17	11/01/17	11/01/17	11/01/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper		10.00 U	10.10		2.41		10.30J
Lead and Compounds		2.00 U	1.91		0.63		2.50J
Mercury (elemental)		0.10 U	0.10 U		0.10 U		1.00J
Nickel Soluble Salts		1.36 J	2.99		1.10		138.00
Field Ferrous Iron (ug/L)							
Ferrous Iron		21700.00	980.00		8300.00		0
VOCs (ug/L)							
Chloroform		0.40 UJ	0.20 U		0.20 U		2.00J
Tetrachloroethylene		0.18 J	0.20 U		0.20 U		2.00J
Trichloroethylene		0.40 UJ	0.20 U		0.20 U		2.00J
Vinyl Chloride		0.40 UJ	0.20 U		0.20 U		2.00J

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-4H3-1-110117-(20)	GW-4H4-2-110117	GW-4H4-2-110117-(20)	GW-5B1-1R-101617	GW-5B1-1R-101617-(20)	GW-5B1-2R-101617
	Site ID: 4H3-1	4H4-2	4H4-2	5B1-1R	5B1-1R	5B1-2R
	Sample Date: 11/01/17	11/01/17	11/01/17	10/16/17	10/16/17	10/16/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3			2080.00		204.00	
Alkalinity, Carb.As CaCO3			1.00 U		394.00	
Alkalinity, Total			2080.00		598.00	
Bromine anion (Br-)	5.79		18.60		1.61	
Calcium	7.89 J		81.60		1.52	
Chloride	1190.00		3980.00		493.00	
Dissolved Organic Carbon			103.00		15.80	
Fluoride	11.70		0.82		0.68	
Hydroxide Alkalinity			1.00 U		1.00 U	
Nitrate	5.00 U		0.50 U		0.10 U	
Nitrite	5.00 U		0.50 U		0.10 U	
Potassium	158.00		162.00		8.03	
Sodium	10900.00		2860.00		613.00	
Sulfate	33.90		8.38		16.90	
Total Dissolved Solids	46800.00		8040.00		1590.00	
Dissolved Metals (ug/L)						
Aluminum	39800.00		19.60 J		23.50 J	
Arsenate Ion - As(O4)3-	303.00		1.00 UJ		109.00	
Arsenic, Inorganic	516.00		19.10		1040.00	
Arsenite Ion - As(O3)3-	2.83		0.39 J		76.50	
Cacodylic Acid	2.55		0.62 J		1.05 U	
Copper	16.50		2.50 U		9.83	
Iron	2530.00 J		94.20 J		248.00	
Lead and Compounds	2.50 U		0.50 U		3.97	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-4H3-1-110117-(20)	GW-4H4-2-110117	GW-4H4-2-110117-(20)	GW-5B1-1R-101617	GW-5B1-1R-101617-(20)	GW-5B1-2R-101617
	Site ID: 4H3-1	4H4-2	4H4-2	5B1-1R	5B1-1R	5B1-2R
	Sample Date: 11/01/17	11/01/17	11/01/17	10/16/17	10/16/17	10/16/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium	10000.00 U		258000.00		347.00 U	
Manganese	132.00 J		65.50		7.94	
Mercury (elemental)	1.00 U		0.10 U		0.04	
Methylarsonic acid	1.22		1.15 U		0.88 J	
Nickel Soluble Salts	135.00		0.84 J		3.61	
Silicon	13800000.00		20500.00		63700.00	
Sum of arsenic species	305.83		0.39 J		185.50	
Dissolved Ortho-Phosphorus (mg/L)						
o-Phosphate {PO4}, as P	31.40		1.39		0.99	
Field Parameters and/or Alkalinity						
Alkalinity, Bicarb. As CaCO3 (mg/L)						
Alkalinity, Carb.As CaCO3 (mg/L)						
Alkalinity, Total (mg/L)						
Dissolved Oxygen (DO) (mg/L)		0.03		0.06		0.04
Hydroxide Alkalinity (mg/L)						
Oxidation Reduction Potential (ORP) (mV)		-124.50		-104.10		-109.20
Specific Conductivity (uS/cm)		11677.80		2202.60		42297.00
Temperature (Celsius) (C)		12.21		18.00		15.08
Turbidity (NTU)		1.50		1.60		30.30
pH ()		6.50		9.94		7.69
Field TDS and Sulfide (mg/L)						
Sulfide		0.27		4.30		0.03
Total Dissolved Solids		8000.00		1000.00		27000.00
Total Metals (ug/L)						
Arsenic, Inorganic		19.30		1040.00		1.00J

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-4H3-1-110117-(20)	GW-4H4-2-110117	GW-4H4-2-110117-(20)	GW-5B1-1R-101617	GW-5B1-1R-101617-(20)	GW-5B1-2R-101617
	Site ID:	4H3-1	4H4-2	4H4-2	5B1-1R	5B1-1R	5B1-2R
	Sample Date:	11/01/17	11/01/17	11/01/17	10/16/17	10/16/17	10/16/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			2.50 U		13.70		2.69U
Lead and Compounds			0.50 U		5.37		0.61U
Mercury (elemental)			0.10 U		0.04		0.0004U
Nickel Soluble Salts			1.31 J		3.79		0.61U
Field Ferrous Iron (ug/L)							
Ferrous Iron			90.00		70.00		16700.00
VOCs (ug/L)							
Chloroform			1.00 U		0.20 U		0.20U
Tetrachloroethylene			1.00 U		0.20 U		0.20U
Trichloroethylene			1.00 U		0.08 J		0.20U
Vinyl Chloride			1.00 U		0.32		0.20U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-5B1-2R-101617-(20)	GW-5B1-3R-110217	GW-5B1-3R-110217-(20)	GW-5C10-2-101717	GW-5C10-2-101717-(20)	GW-5C12-1-101717
	Site ID: 5B1-2R	5B1-3R	5B1-3R	5C10-2	5C10-2	5C12-1
	Sample Date: 10/16/17	11/02/17	11/02/17	10/17/17	10/17/17	10/17/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	1600.00		424.00		1200.00	
Alkalinity, Carb.As CaCO3	1.00 U		1.00 U		1.00 U	
Alkalinity, Total	1600.00		424.00		1200.00	
Bromine anion (Br-)	20.60		3.24		8.99	
Calcium	560.00		71.10		53.00	
Chloride	11400.00		1010.00		5910.00	
Dissolved Organic Carbon	20.90		3.33		524.00	
Fluoride	1.36		0.50 U		6.10	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	0.50 U		0.50 U		0.50 U	
Nitrite	0.50 U		0.50 U		0.50 U	
Potassium	251.00		38.40		129.00	
Sodium	8840.00		504.00		4470.00	
Sulfate	2800.00				4.29	
Total Dissolved Solids	27300.00		2040.00		10700.00	
Dissolved Metals (ug/L)						
Aluminum	81.60 U		81.60 U		1580.00	
Arsenate Ion - As(O4)3-	0.38 J		1.00 U		678.00	
Arsenic, Inorganic	0.80 J		1.63 U		873.00	
Arsenite Ion - As(O3)3-	0.38 J		1.00 U		161.00	
Cacodylic Acid	1.05 U		1.05 U		0.96 J	
Copper	2.69 U		2.69 U		56.70	
Iron	15200.00		396.00		48600.00	
Lead and Compounds	0.61 U		0.30 U		6.32	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5B1-2R-101617-(20)	GW-5B1-3R-110217	GW-5B1-3R-110217-(20)	GW-5C10-2-101717	GW-5C10-2-101717-(20)	GW-5C12-1-101717
	Site ID:	5B1-2R	5B1-3R	5B1-3R	5C10-2	5C10-2	5C12-1
	Sample Date:	10/16/17	11/02/17	11/02/17	10/17/17	10/17/17	10/17/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		1120000.00		111000.00		104000.00	
Manganese		566.00		113.00		594.00	
Mercury (elemental)		0.0004 U		0.0004 U		0.10 U	
Methylarsonic acid		1.15 U		1.15 U		0.65 J	
Nickel Soluble Salts		0.24 J		0.27 J		22.20	
Silicon		21500.00		22000.00		25400.00	
Sum of arsenic species		0.76 J		2.00 U		839.00	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		1.63		0.50 UJ		3.42	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.05		0		0.04
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-56.10		-189.10		-169.40
Specific Conductivity (uS/cm)			3112.70		14875.00		5805.60
Temperature (Celsius) (C)			13.39		14.68		18.25
Turbidity (NTU)			1.97				1.44
pH ()			7.44		7.35		11.65
Field TDS and Sulfide (mg/L)							
Sulfide			0.02		2.50		2.70
Total Dissolved Solids			2030.00		10000.00		4000.00
Total Metals (ug/L)							
Arsenic, Inorganic			1.63 U		1000.00		938.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5B1-2R-101617-(20)	GW-5B1-3R-110217	GW-5B1-3R-110217-(20)	GW-5C10-2-101717	GW-5C10-2-101717-(20)	GW-5C12-1-101717
	Site ID:	5B1-2R	5B1-3R	5B1-3R	5C10-2	5C10-2	5C12-1
	Sample Date:	10/16/17	11/02/17	11/02/17	10/17/17	10/17/17	10/17/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			2.69 U		74.10		3.08
Lead and Compounds			0.30 U		10.80		0.90
Mercury (elemental)			0.0001 J		0.10 U		0.10U
Nickel Soluble Salts			0.85		29.90		5.68
Field Ferrous Iron (ug/L)							
Ferrous Iron			320.00		29600.00		0
VOCs (ug/L)							
Chloroform			0.20 U		0.20 U		0.20U
Tetrachloroethylene			0.20 U		0.20 U		0.06J
Trichloroethylene			0.20 U		0.20 U		0.80
Vinyl Chloride			0.20 U		0.30		6.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-5C12-1-101717-(20)	GW-5C13-1-101717	GW-5C13-1-101717-(20)	GW-5C14-2-101717	GW-5C14-2-101717-(20)	GW-5C16-1R-101717-(20)_DC
	Site ID: 5C12-1	5C13-1	5C13-1	5C14-2	5C14-2	5C16-1R
	Sample Date: 10/17/17	10/17/17	10/17/17	10/17/17	10/17/17	10/17/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	1.00 U		744.00		1980.00	307.50
Alkalinity, Carb.As CaCO3	1070.00		143.00		1.00 U	1.00U
Alkalinity, Total	1370.00		887.00		1980.00	307.50
Bromine anion (Br-)	1.92		1.11		13.40	0.45
Calcium	29.50		5.54		89.40	54.30
Chloride	1000.00		1410.00		9380.00	424.00
Dissolved Organic Carbon	12.10		18.20		42.80	9.35
Fluoride	0.85		1.04		2.59	0.31
Hydroxide Alkalinity	304.00		1.00 U		1.00 U	1.00U
Nitrate	0.10 U		0.10 UJ		1.58	0.10U
Nitrite	0.10 U		0.10 UJ		1.83	0.10U
Potassium	44.40		34.20		204.00	9.90
Sodium	1270.00		1450.00		6130.00	339.50
Sulfate	52.60		162.00		5.48	18.10
Total Dissolved Solids	3780.00		3800.00		14400.00	1040.00
Dissolved Metals (ug/L)						
Aluminum	140.00 J		84.30		100.00 U	50.00U
Arsenate Ion - As(O4)3-	772.00		958.00		251.00	19.75
Arsenic, Inorganic	1020.00		1640.00		236.00	479.50
Arsenite Ion - As(O3)3-	1.89		499.00		8.02	407.00
Cacodylic Acid	1.05 U		0.29 J		1.05 U	1.05U
Copper	2.50 U		5.00 U		10.00 U	1.00U
Iron	169.00 J		2840.00		719.00	140.50
Lead and Compounds	0.20 U		1.07		2.00 U	0.20U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5C12-1-101717-(20)	GW-5C13-1-101717	GW-5C13-1-101717-(20)	GW-5C14-2-101717	GW-5C14-2-101717-(20)	GW-5C16-1R-101717-(20)_DC
	Site ID:	5C12-1	5C13-1	5C13-1	5C14-2	5C14-2	5C16-1R
	Sample Date:	10/17/17	10/17/17	10/17/17	10/17/17	10/17/17	10/17/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		13100.00		4950.00		241000.00	12400.00
Manganese		9.30 J		15.20		144.00	6.50
Mercury (elemental)		0.10 U		0.10 U		0.10 U	0.10 U
Methylarsonic acid		0.24 J		0.93 J		1.15 U	1.15 U
Nickel Soluble Salts		5.12		3.67 J		2.84 J	0.87 J
Silicon		434000.00		56000.00		23700.00	20300.00
Sum of arsenic species		773.89		1457.00		259.02	426.75
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		1.23		8.88 J		1.51	0.39
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.01		0.04		
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-98.50		-2.70		
Specific Conductivity (uS/cm)			8126.60		24486.30		
Temperature (Celsius) (C)			18.70		15.52		
Turbidity (NTU)			2.35		2.19		
pH ()			10.90		9.13		
Field TDS and Sulfide (mg/L)							
Sulfide			0.35		0.05		
Total Dissolved Solids			5000.00		16000.00		
Total Metals (ug/L)							
Arsenic, Inorganic			1960.00		270.00		

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5C12-1-101717-(20)	GW-5C13-1-101717	GW-5C13-1-101717-(20)	GW-5C14-2-101717	GW-5C14-2-101717-(20)	GW-5C16-1R-101717-(20)_DC
	Site ID:	5C12-1	5C13-1	5C13-1	5C14-2	5C14-2	5C16-1R
	Sample Date:	10/17/17	10/17/17	10/17/17	10/17/17	10/17/17	10/17/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			2.14 J		10.00 U		
Lead and Compounds			1.56		2.00 U		
Mercury (elemental)			0.10 U		0.10 U		
Nickel Soluble Salts			5.05		5.94 J		
Field Ferrous Iron (ug/L)							
Ferrous Iron			690.00		460.00		
VOCs (ug/L)							
Chloroform			0.20 UJ		0.20 U		
Tetrachloroethylene			0.20 UJ		0.20 U		
Trichloroethylene			0.27 J		0.07 J		
Vinyl Chloride			1.87 J		0.61		

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5C16-1R-101717_D C	GW-5C16-2R-101717	GW-5C16-2R-101717-(20)	GW-5C21-2-102017	GW-5C21-2-102017-(20)	GW-5D1-3-110117
	Site ID:	5C16-1R	5C16-2R	5C16-2R	5C21-2	5C21-2	5D1-3
	Sample Date:	10/17/17	10/17/17	10/17/17	10/20/17	10/20/17	11/01/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3				938.00		1070.00	
Alkalinity, Carb.As CaCO3				1.00 U		1.00 U	
Alkalinity, Total				938.00		1070.00	
Bromine anion (Br-)				6.25		9.71	
Calcium				57.00		66.10	
Chloride				6160.00		6230.00	
Dissolved Organic Carbon				27.90		120.00	
Fluoride				0.10 U		2.87	
Hydroxide Alkalinity				1.00 U		1.00 U	
Nitrate				0.17		0.10 U	
Nitrite				0.10 U		0.10 U	
Potassium				134.00		123.00	
Sodium				5350.00		4500.00	
Sulfate				7.30		9.09	
Total Dissolved Solids				11900.00		11600.00	
Dissolved Metals (ug/L)							
Aluminum				100.00 U		65.70 J	
Arsenate Ion - As(O4)3-				338.00		1370.00	
Arsenic, Inorganic				736.00		1680.00	
Arsenite Ion - As(O3)3-				444.00		977.00	
Cacodylic Acid				0.44 J		10.50 U	
Copper				10.00 U		6.79	
Iron				80800.00		125000.00	
Lead and Compounds				2.00 U		1.00 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5C16-1R-101717_D C	GW-5C16-2R-101717	GW-5C16-2R-101717-(20)	GW-5C21-2-102017	GW-5C21-2-102017-(20)	GW-5D1-3-110117
	Site ID:	5C16-1R	5C16-2R	5C16-2R	5C21-2	5C21-2	5D1-3
	Sample Date:	10/17/17	10/17/17	10/17/17	10/20/17	10/20/17	11/01/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium				107000.00		146000.00	
Manganese				864.00		1180.00	
Mercury (elemental)				0.10 U		0.10 U	
Methylarsonic acid				1.15 U		11.50 U	
Nickel Soluble Salts				10.00 U		5.06	
Silicon				41600.00		27500.00	
Sum of arsenic species				782.00		2347.00	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P				0.10 U		2.91	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)	0.06	0.04		0.02			0.10
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)	-109.50	-118.10		-140.30			-109.70
Specific Conductivity (uS/cm)	1676.00	21957.60		18157.90			24944.80
Temperature (Celsius) (C)	16.58	14.26		14.80			14.64
Turbidity (NTU)	0.48	13.30		26.10			34.10
pH ()	8.26	7.25		6.81			6.71
Field TDS and Sulfide (mg/L)							
Sulfide	0.18	0.05		0.34			0.03
Total Dissolved Solids	1000.00	14000.00		12000.00			16000.00
Total Metals (ug/L)							
Arsenic, Inorganic	423.00	771.00		2650.00			19.70

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5C16-1R-101717_D C	GW-5C16-2R-101717	GW-5C16-2R-101717-(20)	GW-5C21-2-102017	GW-5C21-2-102017-(20)	GW-5D1-3-110117
	Site ID:	5C16-1R	5C16-2R	5C16-2R	5C21-2	5C21-2	5D1-3
	Sample Date:	10/17/17	10/17/17	10/17/17	10/20/17	10/20/17	11/01/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper		2.50 U	2.50 U		6.15		10.00U
Lead and Compounds		0.50 U	0.50 U		1.00 U		2.00U
Mercury (elemental)		0.10 U	0.10 U		0.10 U		0.10U
Nickel Soluble Salts		0.51 J	0.74 J		4.50 J		10.00U
Field Ferrous Iron (ug/L)							
Ferrous Iron		80.00	53000.00		24750.00		6000.00
VOCs (ug/L)							
Chloroform		0.20 U	0.20 U		0.03 J		1.00UJ
Tetrachloroethylene		0.20 U	0.20 U		0.20 UJ		1.00UJ
Trichloroethylene		0.10 J	0.20 U		0.27 J		1.00UJ
Vinyl Chloride		0.27	0.48		3.21 J		1.00UJ

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-5D1-3-110117-(20)	GW-5D2-1R-102517	GW-5D2-1R-102517-(20)	GW-5D5-1-101917	GW-5D5-1-101917-(20)	GW-5D7-1R-101917
	Site ID: 5D1-3	5D2-1R	5D2-1R	5D5-1	5D5-1	5D7-1R
	Sample Date: 11/01/17	10/25/17	10/25/17	10/19/17	10/19/17	10/19/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	1540.00		1.00 U		699.00	
Alkalinity, Carb.As CaCO3	1.00 U		1880.00		1.00 U	
Alkalinity, Total	1540.00		2260.00		699.00	
Bromine anion (Br-)	13.40		5.00 U		3.74	
Calcium	215.00		2.20		66.60	
Chloride	10300.00		1280.00		4830.00	
Dissolved Organic Carbon	22.30		28.40		10.00	
Fluoride	1.00		5.00 U		1.12	
Hydroxide Alkalinity	1.00 U		376.00		1.00 U	
Nitrate	0.50 U		5.00 U		0.10 U	
Nitrite	0.50 U		5.00 U		0.10 U	
Potassium	259.00		22.60		95.60	
Sodium	6380.00		1800.00		3140.00	
Sulfate	443.00		41.50		32.20	
Total Dissolved Solids	17600.00		6160.00		7840.00	
Dissolved Metals (ug/L)						
Aluminum	58.30 J		156.00 J		100.00 U	
Arsenate Ion - As(O4)3-	5.27		2240.00		19900.00	
Arsenic, Inorganic	16.70		3990.00		44500.00	
Arsenite Ion - As(O3)3-	9.93		15.40 J		22600.00	
Cacodylic Acid	1.05 U		21.00 U		420.00 U	
Copper	10.00 U		32.10		10.00 U	
Iron	10700.00		263.00 J		126000.00	
Lead and Compounds	2.00 U		6.04		2.00 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5D1-3-110117-(20)	GW-5D2-1R-102517	GW-5D2-1R-102517-(20)	GW-5D5-1-101917	GW-5D5-1-101917-(20)	GW-5D7-1R-101917
	Site ID:	5D1-3	5D2-1R	5D2-1R	5D5-1	5D5-1	5D7-1R
	Sample Date:	11/01/17	10/25/17	10/25/17	10/19/17	10/19/17	10/19/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		469000.00		500.00 U		71100.00	
Manganese		652.00		5.20 J		741.00	
Mercury (elemental)		0.10 U		0.10 U		0.10 U	
Methylarsonic acid		1.15 U		8.39 J		460.00 U	
Nickel Soluble Salts		10.00 U		14.10		10.00 U	
Silicon		19700.00		58400.00		33700.00	
Sum of arsenic species		15.20		2255.40 J		42500.00	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		2.22		5.00 U		0.10 U	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.02		0.03		0.14
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-137.60		-139.00		-108.10
Specific Conductivity (uS/cm)			6207.10		12810.00		1025.00
Temperature (Celsius) (C)			17.90		18.30		17.67
Turbidity (NTU)			2.70		72.40		6.26
pH ()			10.42		6.67		7.73
Field TDS and Sulfide (mg/L)							
Sulfide			3.60		0.03		0.03
Total Dissolved Solids			4000.00		8000.00		1000.00
Total Metals (ug/L)							
Arsenic, Inorganic			3940.00		48100.00		97100.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5D1-3-110117-(20)	GW-5D2-1R-102517	GW-5D2-1R-102517-(20)	GW-5D5-1-101917	GW-5D5-1-101917-(20)	GW-5D7-1R-101917
	Site ID:	5D1-3	5D2-1R	5D2-1R	5D5-1	5D5-1	5D7-1R
	Sample Date:	11/01/17	10/25/17	10/25/17	10/19/17	10/19/17	10/19/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			53.60		1.85		20.90
Lead and Compounds			10.50		0.34		2.44
Mercury (elemental)			0.11		0.10 U		1.41
Nickel Soluble Salts			15.70		0.55		1.23J
Field Ferrous Iron (ug/L)							
Ferrous Iron			20.00		60000.00 >		4000.00
VOCs (ug/L)							
Chloroform			1.00 U		0.20 U		0.20U
Tetrachloroethylene			0.45 J		0.20 U		0.50
Trichloroethylene			2.04		0.07 J		0.53
Vinyl Chloride			24.60		0.20 U		0.20U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-5D7-1R-101917-(20)	GW-5D8-2-101717	GW-5D8-2-101717-(20)	GW-5E1-1-101817	GW-5E1-1-101817-(20)	GW-5E1-2-101817
	Site ID: 5D7-1R	5D8-2	5D8-2	5E1-1	5E1-1	5E1-2
	Sample Date: 10/19/17	10/17/17	10/17/17	10/18/17	10/18/17	10/18/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	265.00		1310.00		208.00	
Alkalinity, Carb.As CaCO3	1.00 U		1.00 U		1.00 U	
Alkalinity, Total	265.00		1310.00		208.00	
Bromine anion (Br-)	0.19		9.16		0.19	
Calcium	3.72		117.00		29.40	
Chloride	196.00		7580.00		27.10	
Dissolved Organic Carbon	6.43		21.90		5.01	
Fluoride	0.80		0.19		0.37	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	0.10 U		0.10 UJ		0.10 U	
Nitrite	0.10 U		0.10 UJ		0.10 U	
Potassium	4.60		210.00		7.56	
Sodium	246.00		4940.00		46.10	
Sulfate	26.40		49.60		3.20	
Total Dissolved Solids	787.00		13000.00		326.00	
Dissolved Metals (ug/L)						
Aluminum	250.00 U		100.00 U		50.00 U	
Arsenate Ion - As(O4)3-	8030.00		1.14 J		133.00	
Arsenic, Inorganic	90900.00		2.92 J		671.00	
Arsenite Ion - As(O3)3-	82600.00		0.49 J		576.00	
Cacodylic Acid	1050.00 U		1.05 U		1.05 U	
Copper	10.00 U		10.00 U		1.00 U	
Iron	3020.00		16300.00		39900.00	
Lead and Compounds	2.00 U		2.00 U		0.20 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-5D7-1R-101917-(20)	GW-5D8-2-101717	GW-5D8-2-101717-(20)	GW-5E1-1-101817	GW-5E1-1-101817-(20)	GW-5E1-2-101817
	Site ID: 5D7-1R	5D8-2	5D8-2	5E1-1	5E1-1	5E1-2
	Sample Date: 10/19/17	10/17/17	10/17/17	10/18/17	10/18/17	10/18/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium	3310.00		294000.00		9090.00	
Manganese	26.80		994.00		297.00	
Mercury (elemental)	0.33		0.10 U		0.10 U	
Methylarsonic acid	1150.00 U		1.15 U		1.15 U	
Nickel Soluble Salts	10.00 U		10.00 U		0.90 J	
Silicon	33600.00		22400.00		41800.00	
Sum of arsenic species	90630.00		1.63 J		709.00	
Dissolved Ortho-Phosphorus (mg/L)						
o-Phosphate {PO4}, as P	0.63		0.10 UJ		0.10 U	
Field Parameters and/or Alkalinity						
Alkalinity, Bicarb. As CaCO3 (mg/L)						
Alkalinity, Carb.As CaCO3 (mg/L)						
Alkalinity, Total (mg/L)						
Dissolved Oxygen (DO) (mg/L)		-0.03		0.09		0.03
Hydroxide Alkalinity (mg/L)						
Oxidation Reduction Potential (ORP) (mV)		-58.20		-24.80		-67.80
Specific Conductivity (uS/cm)		18142.00		470.70		15994.00
Temperature (Celsius) (C)		15.03		17.32		14.84
Turbidity (NTU)		21.80		20.80		47.80
pH ()		6.71		7.00		6.57
Field TDS and Sulfide (mg/L)						
Sulfide		0.02		0.05		0.02
Total Dissolved Solids		12000.00		0		10000.00
Total Metals (ug/L)						
Arsenic, Inorganic		2.72 J		645.00		0.05J

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5D7-1R-101917-(20)	GW-5D8-2-101717	GW-5D8-2-101717-(20)	GW-5E1-1-101817	GW-5E1-1-101817-(20)	GW-5E1-2-101817
	Site ID:	5D7-1R	5D8-2	5D8-2	5E1-1	5E1-1	5E1-2
	Sample Date:	10/19/17	10/17/17	10/17/17	10/18/17	10/18/17	10/18/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			10.00 U		2.50 U		0.50U
Lead and Compounds			2.00 U		0.50 U		0.10U
Mercury (elemental)			0.10 U		0.10 U		0.10U
Nickel Soluble Salts			10.00 U		1.55 J		0.50U
Field Ferrous Iron (ug/L)							
Ferrous Iron			10700.00		11800.00		60000.00
VOCs (ug/L)							
Chloroform			0.20 UJ		0.20 U		0.20U
Tetrachloroethylene			0.20 UJ		0.20 U		0.20U
Trichloroethylene			0.21 J		0.20 U		0.20U
Vinyl Chloride			0.28 J		0.20 U		6.02

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-5E1-2-101817-(20)	GW-5E2-1-101817	GW-5E2-1-101817-(20)	GW-5E4-1-101917	GW-5E4-1-101917-(20)	GW-5E8-1-101817
	Site ID: 5E1-2	5E2-1	5E2-1	5E4-1	5E4-1	5E8-1
	Sample Date: 10/18/17	10/18/17	10/18/17	10/19/17	10/19/17	10/18/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO ₃	893.00		394.00		765.00	
Alkalinity, Carb.As CaCO ₃	1.00 U		1.00 U		48.20	
Alkalinity, Total	893.00		394.00		813.00	
Bromine anion (Br-)	8.54		0.39		0.81	
Calcium	0.007 J		13.10		12.20	
Chloride	6470.00		577.00		2200.00	
Dissolved Organic Carbon	1.00 U		70.60		58.90	
Fluoride	0.33		1.64		1.51	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	0.10 U		0.10 U		0.10 U	
Nitrite	0.10 U		0.10 U		0.10 U	
Potassium	0.50 U		11.60		17.70	
Sodium	0.22 J		580.00		1770.00	
Sulfate	15.80		3.71		8.08	
Total Dissolved Solids	10500.00		1590.00		4480.00	
Dissolved Metals (ug/L)						
Aluminum	50.00 U		809.00		236.00 J	
Arsenate Ion - As(O ₄) ₃ -	261.00		117.00		3030.00	
Arsenic, Inorganic	0.40 U		353.00		96700.00	
Arsenite Ion - As(O ₃) ₃ -	42.40		266.00		101000.00	
Cacodylic Acid	1.05 U		1.05 U		1050.00 U	
Copper	1.00 U		3.05		65.10	
Iron	1.70 J		4580.00		1250.00	
Lead and Compounds	0.20 U		1.03		32.70	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5E1-2-101817-(20)	GW-5E2-1-101817	GW-5E2-1-101817-(20)	GW-5E4-1-101917	GW-5E4-1-101917-(20)	GW-5E8-1-101817
	Site ID:	5E1-2	5E2-1	5E2-1	5E4-1	5E4-1	5E8-1
	Sample Date:	10/18/17	10/18/17	10/18/17	10/19/17	10/19/17	10/18/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		50.00 U		4050.00		4330.00	
Manganese		1.00 U		138.00		33.70	
Mercury (elemental)		0.10 U		0.10		1.03	
Methylarsonic acid		1.15 U		1.15 U		1150.00 U	
Nickel Soluble Salts		1.00 U		1.56 J		3.84 J	
Silicon		19.10 J		25200.00		19500.00	
Sum of arsenic species		303.40		383.00		104030.00	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		0.10 U		2.97 J		4.35	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.05		0		0.07
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-85.30		-200.00		-100.40
Specific Conductivity (uS/cm)			2166.00		6462.00		496.20
Temperature (Celsius) (C)			18.60		17.85		17.63
Turbidity (NTU)			2.29		2.15		3.37
pH ()			7.82		8.95		7.72
Field TDS and Sulfide (mg/L)							
Sulfide			0.32		0.22		0.04
Total Dissolved Solids			1000.00		4000.00		0
Total Metals (ug/L)							
Arsenic, Inorganic			431.00		93600.00		432.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5E1-2-101817-(20)	GW-5E2-1-101817	GW-5E2-1-101817-(20)	GW-5E4-1-101917	GW-5E4-1-101917-(20)	GW-5E8-1-101817
	Site ID:	5E1-2	5E2-1	5E2-1	5E4-1	5E4-1	5E8-1
	Sample Date:	10/18/17	10/18/17	10/18/17	10/19/17	10/19/17	10/18/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			17.60		89.90		2.50U
Lead and Compounds			3.48		47.30		0.50U
Mercury (elemental)			0.10 U		0.44		0.10U
Nickel Soluble Salts			4.34 J		5.42 J		0.82J
Field Ferrous Iron (ug/L)							
Ferrous Iron			3100.00		8900.00		1600.00
VOCs (ug/L)							
Chloroform			0.20 UJ		0.20 U		0.20U
Tetrachloroethylene			0.20 UJ		0.20 U		0.20U
Trichloroethylene			0.20 UJ		0.31		0.20U
Vinyl Chloride			0.20 UJ		0.08 J		0.20U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-5E8-1-101817-(20)	GW-5F1-1-101817	GW-5F1-1-101817-(20)	GW-5G1-1-102017	GW-5G1-1-102017-(20)	GW-5G1-3-110117
	Site ID: 5E8-1	5F1-1	5F1-1	5G1-1	5G1-1	5G1-3
	Sample Date: 10/18/17	10/18/17	10/18/17	10/20/17	10/20/17	11/01/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	190.00		815.00		837.00	
Alkalinity, Carb.As CaCO3	1.00 U		1.00 U		1.00 U	
Alkalinity, Total	190.00		815.00		837.00	
Bromine anion (Br-)	0.10 U		4.39		0.74	
Calcium	12.40		127.00		3.70	
Chloride	87.80		7540.00		1470.00	
Dissolved Organic Carbon	7.23		35.10		167.00	
Fluoride	0.50		1.10		2.80	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	0.10 U		1.06		0.10 U	
Nitrite	0.10 U		0.10 U		0.10 U	
Potassium	4.18		122.00		12.90	
Sodium	115.00		5220.00		1350.00	
Sulfate	20.90		5.77		4.44	
Total Dissolved Solids	370.00		12600.00		3350.00	
Dissolved Metals (ug/L)						
Aluminum	11.10 J		68.00 J		520.00	
Arsenate Ion - As(O4)3-	131.00		98.00		202.00	
Arsenic, Inorganic	448.00		98.40		526.00	
Arsenite Ion - As(O3)3-	311.00		8.65		161.00	
Cacodylic Acid	1.05 U		1.05 U		1.05 U	
Copper	0.71 J		10.00 U		22.60	
Iron	2060.00		4450.00		4150.00	
Lead and Compounds	0.20 U		2.00 U		2.57	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-5E8-1-101817-(20)	GW-5F1-1-101817	GW-5F1-1-101817-(20)	GW-5G1-1-102017	GW-5G1-1-102017-(20)	GW-5G1-3-110117
	Site ID: 5E8-1	5F1-1	5F1-1	5G1-1	5G1-1	5G1-3
	Sample Date: 10/18/17	10/18/17	10/18/17	10/20/17	10/20/17	11/01/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium	7240.00		106000.00		821.00	
Manganese	53.30		450.00		67.10	
Mercury (elemental)	0.10 U		0.10 U		0.10 U	
Methylarsonic acid	1.15 U		1.15 U		0.26 J	
Nickel Soluble Salts	0.81 J		1.16 J		11.70	
Silicon	30200.00		20300.00		32700.00	
Sum of arsenic species	442.00		106.65		363.00	
Dissolved Ortho-Phosphorus (mg/L)						
o-Phosphate {PO4}, as P	1.25		5.54		4.16	
Field Parameters and/or Alkalinity						
Alkalinity, Bicarb. As CaCO3 (mg/L)						
Alkalinity, Carb.As CaCO3 (mg/L)						
Alkalinity, Total (mg/L)						
Dissolved Oxygen (DO) (mg/L)		0.05		0.11		0.06
Hydroxide Alkalinity (mg/L)						
Oxidation Reduction Potential (ORP) (mV)		-71.90		-54.70		-199.80
Specific Conductivity (uS/cm)		18187.00		6104.90		10303.50
Temperature (Celsius) (C)		16.52		16.52		13.14
Turbidity (NTU)		7.49		0.20		2.38
pH ()		6.74		6.77		6.73
Field TDS and Sulfide (mg/L)						
Sulfide		0.13		0.77		0.69
Total Dissolved Solids		12000.00		4000.00		7000.00
Total Metals (ug/L)						
Arsenic, Inorganic		121.00		465.00		1.11

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5E8-1-101817-(20)	GW-5F1-1-101817	GW-5F1-1-101817-(20)	GW-5G1-1-102017	GW-5G1-1-102017-(20)	GW-5G1-3-110117
	Site ID:	5E8-1	5F1-1	5F1-1	5G1-1	5G1-1	5G1-3
	Sample Date:	10/18/17	10/18/17	10/18/17	10/20/17	10/20/17	11/01/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			10.00 U		23.00		2.50U
Lead and Compounds			2.00 U		2.43		0.50U
Mercury (elemental)			0.10 U		0.10 U		0.10U
Nickel Soluble Salts			1.30 J		13.10		2.50U
Field Ferrous Iron (ug/L)							
Ferrous Iron			6500.00		3800.00		90.00
VOCs (ug/L)							
Chloroform			0.20 UJ		0.20 UJ		0.20U
Tetrachloroethylene			0.20 UJ		0.20 UJ		0.20U
Trichloroethylene			0.20 UJ		0.20 UJ		0.20U
Vinyl Chloride			0.20 UJ		0.20 UJ		0.20U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-5G1-3-110117-(20)	GW-5H1-1-110117	GW-5H1-1-110117-(20)	GW-5H2-2-110117	GW-5H2-2-110117-(20)	GW-5I2-1-110117
	Site ID: 5G1-3	5H1-1	5H1-1	5H2-2	5H2-2	5I2-1
	Sample Date: 11/01/17	11/01/17	11/01/17	11/01/17	11/01/17	11/01/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	991.00		375.00		1520.00	
Alkalinity, Carb.As CaCO3	1.00 U		1.00 U		1.00 U	
Alkalinity, Total	991.00		375.00		1520.00	
Bromine anion (Br-)	12.00		0.50 U		14.80	
Calcium	134.00		36.90		122.00	
Chloride	3470.00		37.50		3810.00	
Dissolved Organic Carbon	11.60		10.40		30.80	
Fluoride	0.50		1.29		0.91	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	0.50 UJ		0.50 UJ		0.50 UJ	
Nitrite	0.50 UJ		0.50 UJ		0.50 UJ	
Potassium	122.00		3.50		107.00	
Sodium	2140.00		136.00		2570.00	
Sulfate	327.00		33.30		88.00	
Total Dissolved Solids	6640.00		541.00		7300.00	
Dissolved Metals (ug/L)						
Aluminum	100.00 U		73.70		22.80 J	
Arsenate Ion - As(O4)3-	1.00 U		7.66		1.00 U	
Arsenic, Inorganic	0.92 J		56.10		1.53	
Arsenite Ion - As(O3)3-	1.00 U		31.20		1.00 U	
Cacodylic Acid	1.05 U		1.05 U		1.05 U	
Copper	2.50 U		4.38		2.50 U	
Iron	222.00		11300.00		2490.00	
Lead and Compounds	0.50 U		0.61		0.50 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-5G1-3-110117-(20)	GW-5H1-1-110117	GW-5H1-1-110117-(20)	GW-5H2-2-110117	GW-5H2-2-110117-(20)	GW-5I2-1-110117
	Site ID: 5G1-3	5H1-1	5H1-1	5H2-2	5H2-2	5I2-1
	Sample Date: 11/01/17	11/01/17	11/01/17	11/01/17	11/01/17	11/01/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium	348000.00		18400.00		260000.00	
Manganese	306.00		3040.00		1030.00	
Mercury (elemental)	0.10 U		0.10 U		0.10 U	
Methylarsonic acid	1.15 U		1.15 U		1.15 U	
Nickel Soluble Salts	2.50 U		4.71		0.39 J	
Silicon	21800.00		28300.00		20400.00	
Sum of arsenic species	2.00 U		38.86		2.00 U	
Dissolved Ortho-Phosphorus (mg/L)						
o-Phosphate {PO4}, as P	1.65		0.77		1.24	
Field Parameters and/or Alkalinity						
Alkalinity, Bicarb. As CaCO3 (mg/L)						
Alkalinity, Carb.As CaCO3 (mg/L)						
Alkalinity, Total (mg/L)						
Dissolved Oxygen (DO) (mg/L)		0.22		0.10		0
Hydroxide Alkalinity (mg/L)						
Oxidation Reduction Potential (ORP) (mV)		-95.70		-108.00		-386.90
Specific Conductivity (uS/cm)		945.13		13490.00		11327.00
Temperature (Celsius) (C)		14.04		12.99		13.32
Turbidity (NTU)		4.83		5.78		
pH ()		6.50		6.76		11.49
Field TDS and Sulfide (mg/L)						
Sulfide		0.13		0.04		41.00
Total Dissolved Solids		610.00		8760.00		12560.00
Total Metals (ug/L)						
Arsenic, Inorganic		46.80		2.97		153.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5G1-3-110117-(20)	GW-5H1-1-110117	GW-5H1-1-110117-(20)	GW-5H2-2-110117	GW-5H2-2-110117-(20)	GW-5I2-1-110117
	Site ID:	5G1-3	5H1-1	5H1-1	5H2-2	5H2-2	5I2-1
	Sample Date:	11/01/17	11/01/17	11/01/17	11/01/17	11/01/17	11/01/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			7.38		2.50 U		46.00
Lead and Compounds			0.94		0.50 U		7.95
Mercury (elemental)			0.10 U		0.10 U		1.00U
Nickel Soluble Salts			4.86		0.33 J		115.00
Field Ferrous Iron (ug/L)							
Ferrous Iron			11280.00		2240.00		0
VOCs (ug/L)							
Chloroform			0.20 U		0.20 U		2.00U
Tetrachloroethylene			0.20 U		0.20 U		2.00U
Trichloroethylene			0.20 U		0.20 U		2.00U
Vinyl Chloride			0.20 U		0.20 U		2.00U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5I2-1-110117-(20)	GW-6B19-2-102417-(20)	GW-6B19-2-102417_DC	GW-6D14-1-102517	GW-6D14-1-102517-(20)	GW-6D25-1-102517
	Site ID:	5I2-1	6B19-2	6B19-2	6D14-1	6D14-1	6D25-1
	Sample Date:	11/01/17	10/24/17	10/24/17	10/25/17	10/25/17	10/25/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3			561.50			386.00	
Alkalinity, Carb.As CaCO3			1.00 U			1.00 U	
Alkalinity, Total			561.50			386.00	
Bromine anion (Br-)	5.00		1.82			2.33	
Calcium	6.76		37.90			73.20	
Chloride	732.00		3585.00			4830.00	
Dissolved Organic Carbon	897.00		14.50			9.97	
Fluoride	6.98		2.43			0.10 U	
Hydroxide Alkalinity			1.00 U			1.00 U	
Nitrate	5.00 U		0.10 U			0.10 U	
Nitrite	5.00 U		0.10 U			0.10 U	
Potassium	141.00		92.45			108.00	
Sodium	6910.00		2465.00			2830.00	
Sulfate	41.30		28.35			496.00	
Total Dissolved Solids	24100.00		4210.00			8300.00	
Dissolved Metals (ug/L)							
Aluminum	4480.00 J		50.00 U			100.00 U	
Arsenate Ion - As(O4)3-	84.30		692.00			17800.00	
Arsenic, Inorganic	139.00		2680.00			49600.00	
Arsenite Ion - As(O3)3-	1.28		2415.00			30900.00	
Cacodylic Acid	1.14		21.00 U			210.00 U	
Copper	43.10		2.03 J			5.00 U	
Iron	2470.00 J		2550.00			323000.00	
Lead and Compounds	7.75		0.50 U			1.00 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5I2-1-110117-(20)	GW-6B19-2-102417-(20)	GW-6B19-2-102417_DC	GW-6D14-1-102517	GW-6D14-1-102517-(20)	GW-6D25-1-102517
	Site ID:	5I2-1	6B19-2	6B19-2	6D14-1	6D14-1	6D25-1
	Sample Date:	11/01/17	10/24/17	10/24/17	10/25/17	10/25/17	10/25/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		5000.00 U	70600.00			35400.00	
Manganese		54.80 J	86.75			1400.00	
Mercury (elemental)		0.10 U	0.10 U			0.10 U	
Methylarsonic acid		1.54	23.00 U			230.00 U	
Nickel Soluble Salts		113.00	3.25			5.21	
Silicon		5780000.00	34350.00			39200.00	
Sum of arsenic species		85.58	3107.00			48700.00	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		37.50	0.55			0.10 U	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)				0.09	0.08		0.20
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)				-157.20	-122.10		253.50
Specific Conductivity (uS/cm)				11303.00	15289.00		2449.70
Temperature (Celsius) (C)				15.03	15.24		17.99
Turbidity (NTU)				6.52	89.40		3.85
pH ()				7.54	6.31		8.85
Field TDS and Sulfide (mg/L)							
Sulfide				0.07	0.05		0.44
Total Dissolved Solids				7340.00	9870.00		1580.00
Total Metals (ug/L)							
Arsenic, Inorganic				2965.00	49100.00		5890.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-5I2-1-110117-(20)	GW-6B19-2-102417-(20)	GW-6B19-2-102417_DC	GW-6D14-1-102517	GW-6D14-1-102517-(20)	GW-6D25-1-102517
	Site ID:	5I2-1	6B19-2	6B19-2	6D14-1	6D14-1	6D25-1
	Sample Date:	11/01/17	10/24/17	10/24/17	10/25/17	10/25/17	10/25/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper				1.87 J	5.00 U		0.40J
Lead and Compounds				2.00 U	1.00 U		0.28
Mercury (elemental)				0.10 U	0.10 U		0.10U
Nickel Soluble Salts				3.04	5.65		2.85
Field Ferrous Iron (ug/L)							
Ferrous Iron				6200.00	3300.00		0
VOCs (ug/L)							
Chloroform				0.06 J	1.35		0.20U
Tetrachloroethylene				0.84 J	0.96		0.43
Trichloroethylene				0.45 J	1.77		4.72
Vinyl Chloride				0.64 J	0.20 U		5.72

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-6D25-1-102517-(20)	GW-6D25-2-102417	GW-6D25-2-102417-(20)	GW-6E1-1-102517	GW-6E1-1-102517-(20)	GW-6E12-2-102317
	Site ID: 6D25-1	6D25-2	6D25-2	6E1-1	6E1-1	6E12-2
	Sample Date: 10/25/17	10/24/17	10/24/17	10/25/17	10/25/17	10/23/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	498.00		468.00		338.00	
Alkalinity, Carb.As CaCO3	1.00 U		545.00		1.00 U	
Alkalinity, Total	498.00		1010.00		338.00	
Bromine anion (Br-)	0.20		0.60		0.22	
Calcium	23.50		2.04		28.30	
Chloride	408.00		1160.00		272.00	
Dissolved Organic Carbon	5.66		61.90		5.82	
Fluoride	0.44		1.20		0.56	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	0.10 U		0.10 U		0.12	
Nitrite	0.10 U		0.10 U		0.10 U	
Potassium	11.30		37.30		7.62	
Sodium	429.00		1280.00		283.00	
Sulfate	25.80		4.91		37.00	
Total Dissolved Solids	1270.00		2880.00		937.00	
Dissolved Metals (ug/L)						
Aluminum	18.20 J		61.10		28.60 J	
Arsenate Ion - As(O4)3-	375.00		2760.00		11100.00	
Arsenic, Inorganic	5780.00		10500.00		35700.00	
Arsenite Ion - As(O3)3-	4810.00		2600.00		27200.00	
Cacodylic Acid	105.00 U		21.00 U		420.00 U	
Copper	1.00 U		127.00		3.60	
Iron	661.00		932.00		312.00	
Lead and Compounds	0.10 U		8.10		0.50 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-6D25-1-102517-(20)	GW-6D25-2-102417	GW-6D25-2-102417-(20)	GW-6E1-1-102517	GW-6E1-1-102517-(20)	GW-6E12-2-102317
	Site ID:	6D25-1	6D25-2	6D25-2	6E1-1	6E1-1	6E12-2
	Sample Date:	10/25/17	10/24/17	10/24/17	10/25/17	10/25/17	10/23/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		16700.00		69.20		21000.00	
Manganese		159.00		6.00		63.50	
Mercury (elemental)		0.10 U		0.10 U		0.92	
Methylarsonic acid		115.00 U		23.00 U		460.00 U	
Nickel Soluble Salts		1.94		6.45 J		3.63	
Silicon		44900.00		63800.00		33900.00	
Sum of arsenic species		5185.00		5360.00		38300.00	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		0.32		4.46		0.26	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.04		0.28		0
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-154.60		-16.10		-43.50
Specific Conductivity (uS/cm)			4934.10		1542.10		37959.20
Temperature (Celsius) (C)			15.03		16.47		14.68
Turbidity (NTU)			7.13		2.24		2.97
pH ()			9.66		7.09		7.03
Field TDS and Sulfide (mg/L)							
Sulfide			24.40		0.02		0.90
Total Dissolved Solids			3220.00		1000.00		25000.00
Total Metals (ug/L)							
Arsenic, Inorganic			9450.00		35300.00		10800.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-6D25-1-102517-(20)	GW-6D25-2-102417	GW-6D25-2-102417-(20)	GW-6E1-1-102517	GW-6E1-1-102517-(20)	GW-6E12-2-102317
	Site ID:	6D25-1	6D25-2	6D25-2	6E1-1	6E1-1	6E12-2
	Sample Date:	10/25/17	10/24/17	10/24/17	10/25/17	10/25/17	10/23/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			105.00 J		6.24		10.00U
Lead and Compounds			7.08		1.28		2.00U
Mercury (elemental)			0.10 U		1.78		0.10U
Nickel Soluble Salts			10.20		4.64		3.36J
Field Ferrous Iron (ug/L)							
Ferrous Iron			700.00		0		7700.00
VOCs (ug/L)							
Chloroform			0.05 J		0.14 J		0.20U
Tetrachloroethylene			0.79		1.17		0.20U
Trichloroethylene			0.38		0.77		0.20U
Vinyl Chloride			0.59		0.20 U		0.20U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-6E12-2-102317-(20)	GW-6E2-1-102417	GW-6E2-1-102417-(20)	GW-6E3-2-103017	GW-6E3-2-103017-(20)	GW-6E5-1-102017
	Site ID: 6E12-2	6E2-1	6E2-1	6E3-2	6E3-2	6E5-1
	Sample Date: 10/23/17	10/24/17	10/24/17	10/30/17	10/30/17	10/20/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	2460.00		410.00		680.00	
Alkalinity, Carb.As CaCO3	1.00 U		1.00 U		1.00 U	
Alkalinity, Total	2460.00		410.00		680.00	
Bromine anion (Br-)	18.80		0.83		8.94	
Calcium	286.00		13.90		351.00	
Chloride	17800.00		1880.00		16900.00	
Dissolved Organic Carbon	1.00 U		4.76		110.00	
Fluoride	0.10 U		0.18		2.63	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	0.10 U		0.10 U		0.10 U	
Nitrite	0.10 U		0.10 U		0.10 U	
Potassium	357.00		42.00		222.00	
Sodium	10600.00		1280.00		9350.00	
Sulfate	37.10		127.00		647.00	
Total Dissolved Solids	26700.00		3470.00		26800.00	
Dissolved Metals (ug/L)						
Aluminum	250.00 U		50.00 U		500.00 U	
Arsenate Ion - As(O4)3-	4670.00		1740.00		17200.00	
Arsenic, Inorganic	9250.00		10700.00		100000.00	
Arsenite Ion - As(O3)3-	5640.00		11800.00		39400.00	
Cacodylic Acid	105.00 U		210.00 U		105.00 U	
Copper	10.00 U		2.50 U		10.00 U	
Iron	413.00		34100.00		580000.00	
Lead and Compounds	2.00 U		0.50 U		2.00 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-6E12-2-102317-(20)	GW-6E2-1-102417	GW-6E2-1-102417-(20)	GW-6E3-2-103017	GW-6E3-2-103017-(20)	GW-6E5-1-102017
	Site ID: 6E12-2	6E2-1	6E2-1	6E3-2	6E3-2	6E5-1
	Sample Date: 10/23/17	10/24/17	10/24/17	10/30/17	10/30/17	10/20/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium	898000.00		11200.00		445000.00	
Manganese	367.00		247.00		4340.00	
Mercury (elemental)	0.10 U		0.10 U		0.10 U	
Methylarsonic acid	22.90 J		230.00 U		115.00 U	
Nickel Soluble Salts	3.14 J		11.00		68.30	
Silicon	40300.00		32100.00		21900.00	
Sum of arsenic species	10310.00		13540.00		56600.00	
Dissolved Ortho-Phosphorus (mg/L)						
o-Phosphate {PO4}, as P	2.82		0.10 U		0.50 U	
Field Parameters and/or Alkalinity						
Alkalinity, Bicarb. As CaCO3 (mg/L)						
Alkalinity, Carb.As CaCO3 (mg/L)						
Alkalinity, Total (mg/L)						
Dissolved Oxygen (DO) (mg/L)		0.22		3.31		0.13
Hydroxide Alkalinity (mg/L)						
Oxidation Reduction Potential (ORP) (mV)		-53.20		-41.00		-136.10
Specific Conductivity (uS/cm)		6522.20		28972.60		3886.90
Temperature (Celsius) (C)		14.38		16.75		17.51
Turbidity (NTU)		26.50		1446.00		9.33
pH ()		6.42		6.19		6.98
Field TDS and Sulfide (mg/L)						
Sulfide		0.06		14.00 >		0.03
Total Dissolved Solids		4000.00		20000.00		3000.00
Total Metals (ug/L)						
Arsenic, Inorganic		21500.00		247000.00		30400.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-6E12-2-102317-(20)	GW-6E2-1-102417	GW-6E2-1-102417-(20)	GW-6E3-2-103017	GW-6E3-2-103017-(20)	GW-6E5-1-102017
	Site ID:	6E12-2	6E2-1	6E2-1	6E3-2	6E3-2	6E5-1
	Sample Date:	10/23/17	10/24/17	10/24/17	10/30/17	10/30/17	10/20/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			1.00 U		18.70		1.73
Lead and Compounds			0.50 U		2.02		0.95
Mercury (elemental)			0.10 U		0.10 U		0.10 U
Nickel Soluble Salts			22.80		131.00		1.41
Field Ferrous Iron (ug/L)							
Ferrous Iron			22100.00				24100.00
VOCs (ug/L)							
Chloroform			0.54		1.59		0.20 U
Tetrachloroethylene			5.90		1.56		0.20 U
Trichloroethylene			2.42		6.65		0.11 U
Vinyl Chloride			0.20 U		5.77		0.20 U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-6E5-1-102017-(20)	GW-6E6-1-102417	GW-6E6-1-102417-(20)	GW-6E7-3-110117	GW-6E7-3-110117-(20)	GW-6E8-3-110217
	Site ID: 6E5-1	6E6-1	6E6-1	6E7-3	6E7-3	6E8-3
	Sample Date: 10/20/17	10/24/17	10/24/17	11/01/17	11/01/17	11/02/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO ₃	804.00		1.00 U		391.00	
Alkalinity, Carb.As CaCO ₃	1.00 U		2110.00		1.00 U	
Alkalinity, Total	804.00		2590.00		391.00	
Bromine anion (Br-)	0.49		7.84		3.41	
Calcium	27.70		2.10		61.10	
Chloride	1170.00		3410.00		1010.00	
Dissolved Organic Carbon	23.40		117.00		4.06	
Fluoride	1.13		5.00 U		0.50 U	
Hydroxide Alkalinity	1.00 U		480.00		1.00 U	
Nitrate	0.10 U		5.00 U		0.50 U	
Nitrite	0.10 U		5.00 U		0.50 U	
Potassium	16.30		33.70		50.90	
Sodium	926.00		3500.00		550.00	
Sulfate	14.80		154.00		1.88	
Total Dissolved Solids	2770.00		8420.00		1950.00	
Dissolved Metals (ug/L)						
Aluminum	100.00 U		553.00		50.00 U	
Arsenate Ion - As(O ₄) ₃ -	3520.00		1280.00		66.50	
Arsenic, Inorganic	29100.00		4760.00		229.00	
Arsenite Ion - As(O ₃) ₃ -	38400.00		93.50 J		142.00	
Cacodylic Acid	420.00 U		210.00 U		1.05 U	
Copper	0.38 J		69.60		1.00 U	
Iron	25200.00		1960.00		414.00	
Lead and Compounds	20.00 U		20.60		0.20 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-6E5-1-102017-(20)	GW-6E6-1-102417	GW-6E6-1-102417-(20)	GW-6E7-3-110117	GW-6E7-3-110117-(20)	GW-6E8-3-110217
Constituent	Site ID: 6E5-1 Sample Date: 10/20/17 Media: Groundwater	6E6-1 10/24/17 Groundwater	6E6-1 10/24/17 Groundwater	6E7-3 11/01/17 Groundwater	6E7-3 11/01/17 Groundwater	6E8-3 11/02/17 Groundwater
Magnesium	24300.00		183.00 J		106000.00	
Manganese	287.00		26.70		33.40	
Mercury (elemental)	0.10 U		0.63		0.10 U	
Methylarsonic acid	460.00 U		230.00 U		1.15 U	
Nickel Soluble Salts	0.81		18.50 J		0.28 J	
Silicon	43000.00		415000.00		24700.00	
Sum of arsenic species	41920.00		1373.50 J		208.50	
Dissolved Ortho-Phosphorus (mg/L)						
o-Phosphate {PO4}, as P	0.43		5.00 U		0.63	
Field Parameters and/or Alkalinity						
Alkalinity, Bicarb. As CaCO3 (mg/L)						
Alkalinity, Carb.As CaCO3 (mg/L)						
Alkalinity, Total (mg/L)						
Dissolved Oxygen (DO) (mg/L)		0		0.10		0.11
Hydroxide Alkalinity (mg/L)						
Oxidation Reduction Potential (ORP) (mV)		-254.40		-126.80		-72.90
Specific Conductivity (uS/cm)		11888.00		3826.70		2046.00
Temperature (Celsius) (C)		15.71		14.90		12.87
Turbidity (NTU)		1.81				1.33
pH ()		10.80		7.65		7.92
Field TDS and Sulfide (mg/L)						
Sulfide		28.00 >				0.01
Total Dissolved Solids		8000.00		2490.00		1000.00
Total Metals (ug/L)						
Arsenic, Inorganic		5310.00		273.00		0.55

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-6E5-1-102017-(20)	GW-6E6-1-102417	GW-6E6-1-102417-(20)	GW-6E7-3-110117	GW-6E7-3-110117-(20)	GW-6E8-3-110217
	Site ID:	6E5-1	6E6-1	6E6-1	6E7-3	6E7-3	6E8-3
	Sample Date:	10/20/17	10/24/17	10/24/17	11/01/17	11/01/17	11/02/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			78.80		0.93 J		0.50J
Lead and Compounds			25.10		0.20 U		0.16
Mercury (elemental)			0.77		0.10 U		0.10U
Nickel Soluble Salts			24.00		0.35 J		0.48J
Field Ferrous Iron (ug/L)							
Ferrous Iron			0				150.00
VOCs (ug/L)							
Chloroform			0.63 J		0.20 U		0.20U
Tetrachloroethylene			10.80		0.20 U		0.20U
Trichloroethylene			1.44 J		0.20 U		0.20U
Vinyl Chloride			2.00 U		0.20 U		0.20U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-6E8-3-110217-(20)	GW-6E9-2-102517	GW-6E9-2-102517-(20)	GW-6F1-2-102017	GW-6F1-2-102017-(20)	GW-6F2-1-102017
	Site ID: 6E8-3	6E9-2	6E9-2	6F1-2	6F1-2	6F2-1
	Sample Date: 11/02/17	10/25/17	10/25/17	10/20/17	10/20/17	10/20/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	298.00		1200.00		895.00	
Alkalinity, Carb.As CaCO3	1.00 U		1.00 U		1.00 U	
Alkalinity, Total	298.00		1200.00		895.00	
Bromine anion (Br-)	1.59		3.11		9.59	
Calcium	98.80		22.50		328.00	
Chloride	484.00		4990.00		10800.00	
Dissolved Organic Carbon	2.75		169.00		34.00	
Fluoride	0.50 U		2.69		0.56	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	0.50 U		0.50 U		0.10 U	
Nitrite	0.50 U		0.50 U		0.10 U	
Potassium	18.70		70.60		254.00	
Sodium	188.00		3600.00		5520.00	
Sulfate	0.50 U		4.84		6.99	
Total Dissolved Solids	1140.00		8320.00		16400.00	
Dissolved Metals (ug/L)						
Aluminum	50.00 U		80.70 J		250.00 U	
Arsenate Ion - As(O4)3-	1.00 U		571.00		0.26 J	
Arsenic, Inorganic	0.18 J		3000.00		1.92 J	
Arsenite Ion - As(O3)3-	1.00 U		2160.00		1.00 U	
Cacodylic Acid	1.05 U		21.00 U		1.05 U	
Copper	0.50 U		10.00 U		5.00 U	
Iron	135.00		11500.00		211000.00	
Lead and Compounds	0.10 U		2.00 U		1.00 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-6E8-3-110217-(20)	GW-6E9-2-102517	GW-6E9-2-102517-(20)	GW-6F1-2-102017	GW-6F1-2-102017-(20)	GW-6F2-1-102017
Constituent	Site ID: 6E8-3 Sample Date: 11/02/17 Media: Groundwater	6E9-2 10/25/17 Groundwater	6E9-2 10/25/17 Groundwater	6F1-2 10/20/17 Groundwater	6F1-2 10/20/17 Groundwater	6F2-1 10/20/17 Groundwater
Magnesium	62000.00		26700.00		720000.00	
Manganese	47.90		99.20		3130.00	
Mercury (elemental)	0.10 U		0.10 U		0.10 U	
Methylarsonic acid	1.15 U		23.00 U		1.15 U	
Nickel Soluble Salts	0.08 J		9.78 J		5.00 U	
Silicon	19600.00		25200.00		23400.00	
Sum of arsenic species	2.00 U		2731.00		0.26 J	
Dissolved Ortho-Phosphorus (mg/L)						
o-Phosphate {PO4}, as P	0.68 J		5.74		0.10 U	
Field Parameters and/or Alkalinity						
Alkalinity, Bicarb. As CaCO3 (mg/L)						
Alkalinity, Carb.As CaCO3 (mg/L)						
Alkalinity, Total (mg/L)						
Dissolved Oxygen (DO) (mg/L)		0.02		0.03		3.79
Hydroxide Alkalinity (mg/L)						
Oxidation Reduction Potential (ORP) (mV)		-235.40		-68.80		33.10
Specific Conductivity (uS/cm)		15143.00		24618.00		404.60
Temperature (Celsius) (C)		14.68		14.36		13.40
Turbidity (NTU)		0.09		20.80		3.79
pH ()		7.69		6.30		7.94
Field TDS and Sulfide (mg/L)						
Sulfide		0.55		0.01		0.11
Total Dissolved Solids		9840.00		16000.00		0
Total Metals (ug/L)						
Arsenic, Inorganic		2970.00		2.60		60.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-6E8-3-110217-(20)	GW-6E9-2-102517	GW-6E9-2-102517-(20)	GW-6F1-2-102017	GW-6F1-2-102017-(20)	GW-6F2-1-102017
	Site ID:	6E8-3	6E9-2	6E9-2	6F1-2	6F1-2	6F2-1
	Sample Date:	11/02/17	10/25/17	10/25/17	10/20/17	10/20/17	10/20/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			4.84 J		5.00 U		61.50
Lead and Compounds			1.00 U		1.00 U		0.58
Mercury (elemental)			0.10 U		0.10 U		0.22
Nickel Soluble Salts			12.50		0.52 J		5.20
Field Ferrous Iron (ug/L)							
Ferrous Iron			0		55700.00		5900.00
VOCs (ug/L)							
Chloroform			1.00 UJ		0.20 UJ		0.03J
Tetrachloroethylene			1.00 UJ		0.20 UJ		0.20UJ
Trichloroethylene			0.49 J		0.20 UJ		0.20UJ
Vinyl Chloride			4.50 J		0.20 UJ		0.20UJ

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-6F2-1-102017-(20)	GW-6G1-1-102017	GW-6G1-1-102017-(20)	GW-6G2-3-110117	GW-6G2-3-110117-(20)	GW-6G3-2-102517
	Site ID: 6F2-1	6G1-1	6G1-1	6G2-3	6G2-3	6G3-2
	Sample Date: 10/20/17	10/20/17	10/20/17	11/01/17	11/01/17	10/25/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	89.30		87.10		335.00	
Alkalinity, Carb.As CaCO3	1.00 U		33.50		1.00 U	
Alkalinity, Total	89.30		121.00		335.00	
Bromine anion (Br-)	0.10 U		0.30		2.17	
Calcium	15.00		0.38		123.00	
Chloride	59.30		126.00		649.00	
Dissolved Organic Carbon	20.00		17.20		2.95	
Fluoride	0.44		2.50		0.50 U	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	0.10 U		0.23		0.50 UJ	
Nitrite	0.10 U		0.10 U		0.50 UJ	
Potassium	1.32		1.61		22.00	
Sodium	81.90		158.00		188.00	
Sulfate	74.40		32.50		0.50 U	
Total Dissolved Solids	291.00		416.00		1360.00	
Dissolved Metals (ug/L)						
Aluminum	13.40 J		27.00 J		50.00 U	
Arsenate Ion - As(O4)3-	67.40		306.00		1.00 U	
Arsenic, Inorganic	64.40		295.00		0.29	
Arsenite Ion - As(O3)3-	0.97 J		1.04		1.00 U	
Cacodylic Acid	1.05 U		1.05 U		1.05 U	
Copper	54.70		15.20		0.50 U	
Iron	51.60		91.50		128.00	
Lead and Compounds	0.24		0.37		0.10 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-6F2-1-102017-(20)	GW-6G1-1-102017	GW-6G1-1-102017-(20)	GW-6G2-3-110117	GW-6G2-3-110117-(20)	GW-6G3-2-102517
	Site ID:	6F2-1	6G1-1	6G1-1	6G2-3	6G2-3	6G3-2
	Sample Date:	10/20/17	10/20/17	10/20/17	11/01/17	11/01/17	10/25/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		5730.00		61.50		119000.00	
Manganese		1.70		1.80		64.80	
Mercury (elemental)		0.16		0.10 U		0.10 U	
Methylarsonic acid		1.15 U		1.15 U		1.15 U	
Nickel Soluble Salts		4.88		11.90		0.11 J	
Silicon		7510.00		10600.00		21300.00	
Sum of arsenic species		68.37 J		307.04		2.00 U	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		0.10 U		0.57		0.50 UJ	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							1640.00
Alkalinity, Carb.As CaCO3 (mg/L)							1.00U
Alkalinity, Total (mg/L)							1640.00
Dissolved Oxygen (DO) (mg/L)			2.90		0.02		0.09
Hydroxide Alkalinity (mg/L)							1.00U
Oxidation Reduction Potential (ORP) (mV)			21.70		-100.90		-308.40
Specific Conductivity (uS/cm)			500.00		2581.10		28347.00
Temperature (Celsius) (C)			15.48		13.94		14.29
Turbidity (NTU)			86.00		0.26		88.40
pH ()			9.87		7.89		6.42
Field TDS and Sulfide (mg/L)							
Sulfide			0.45		0.03		0.32
Total Dissolved Solids			0		1680.00		18390.00
Total Metals (ug/L)							
Arsenic, Inorganic			261.00		0.58		2.94J

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-6F2-1-102017-(20)	GW-6G1-1-102017	GW-6G1-1-102017-(20)	GW-6G2-3-110117	GW-6G2-3-110117-(20)	GW-6G3-2-102517
	Site ID:	6F2-1	6G1-1	6G1-1	6G2-3	6G2-3	6G3-2
	Sample Date:	10/20/17	10/20/17	10/20/17	11/01/17	11/01/17	10/25/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			69.10		0.50 U		10.00U
Lead and Compounds			21.40		0.10 U		2.00U
Mercury (elemental)			0.10 U		0.10 UJ		0.10U
Nickel Soluble Salts			111.00		0.20 J		10.00U
Field Ferrous Iron (ug/L)							
Ferrous Iron			2400.00		110.00		270.00
VOCs (ug/L)							
Chloroform			0.20 U		0.20 U		0.03J
Tetrachloroethylene			0.20 U		0.20 U		0.08J
Trichloroethylene			0.20 U		0.20 U		0.20UJ
Vinyl Chloride			0.20 U		0.20 U		0.20UJ

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-6G3-2-102517-(20)	GW-6H1-1-102517	GW-6H1-1-102517-(20)	GW-7E10-1-102317	GW-7E10-1-102317-(20)	GW-7E13-2R-102517
	Site ID: 6G3-2	6H1-1	6H1-1	7E10-1	7E10-1	7E13-2R
	Sample Date: 10/25/17	10/25/17	10/25/17	10/23/17	10/23/17	10/25/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	1610.00		143.00		427.00	
Alkalinity, Carb.As CaCO3	1.00 U		40.80		1250.00	
Alkalinity, Total	1610.00		184.00		1680.00	
Bromine anion (Br-)	12.70		0.10 U		1.79	
Calcium	220.00		0.85		2.88	
Chloride	8990.00		184.00		4000.00	
Dissolved Organic Carbon	31.20		20.90		2.50 U	
Fluoride	0.56 J		3.33		1.89	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	0.10 U		0.10 U		0.10 U	
Nitrite	0.10 UJ		0.10 U		0.10 U	
Potassium	233.00		2.24		51.60	
Sodium	5340.00		211.00		3870.00	
Sulfate	121.00		28.10		180.00	
Total Dissolved Solids	14200.00		640.00		7600.00	
Dissolved Metals (ug/L)						
Aluminum	52.60 J		646.00		100.00 U	
Arsenate Ion - As(O4)3-	0.40 J		86.80		1280.00	
Arsenic, Inorganic	2.60		556.00		2680.00	
Arsenite Ion - As(O3)3-	1.00 U		244.00		25.50 J	
Cacodylic Acid	1.05 U		0.68 J		105.00 U	
Copper	5.00 U		14.40		2.50 J	
Iron	4130.00		1740.00		737.00	
Lead and Compounds	1.00 U		2.24		0.50 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-6G3-2-102517-(20)	GW-6H1-1-102517	GW-6H1-1-102517-(20)	GW-7E10-1-102317	GW-7E10-1-102317-(20)	GW-7E13-2R-102517
	Site ID: 6G3-2	6H1-1	6H1-1	7E10-1	7E10-1	7E13-2R
	Sample Date: 10/25/17	10/25/17	10/25/17	10/23/17	10/23/17	10/25/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium	452000.00		242.00		293.00	
Manganese	1020.00		21.80		7.50	
Mercury (elemental)	0.10 U		0.10 U		0.12	
Methylarsonic acid	1.15 U		1.15 U		115.00 U	
Nickel Soluble Salts	5.00 U		5.14		56.90	
Silicon	23900.00		12600.00		64500.00	
Sum of arsenic species	0.40 J		330.80		1305.50 J	
Dissolved Ortho-Phosphorus (mg/L)						
o-Phosphate {PO4}, as P	0.57 J		3.89		4.52	
Field Parameters and/or Alkalinity						
Alkalinity, Bicarb. As CaCO3 (mg/L)						
Alkalinity, Carb.As CaCO3 (mg/L)						
Alkalinity, Total (mg/L)						
Dissolved Oxygen (DO) (mg/L)		0.03		0		0.02
Hydroxide Alkalinity (mg/L)						
Oxidation Reduction Potential (ORP) (mV)		-193.70		-158.20		-136.20
Specific Conductivity (uS/cm)		962.40		13390.50		3950.90
Temperature (Celsius) (C)		14.65		17.10		13.85
Turbidity (NTU)		19.20		0		0.93
pH ()		8.78		9.81		9.54
Field TDS and Sulfide (mg/L)						
Sulfide		0.92		8.80		11.60
Total Dissolved Solids		1000.00		9000.00		3000.00
Total Metals (ug/L)						
Arsenic, Inorganic		563.00		1650.00		411.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-6G3-2-102517-(20)	GW-6H1-1-102517	GW-6H1-1-102517-(20)	GW-7E10-1-102317	GW-7E10-1-102317-(20)	GW-7E13-2R-102517
	Site ID:	6G3-2	6H1-1	6H1-1	7E10-1	7E10-1	7E13-2R
	Sample Date:	10/25/17	10/25/17	10/25/17	10/23/17	10/23/17	10/25/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			25.60		2.50 U		25.70
Lead and Compounds			3.46		0.50 U		2.52
Mercury (elemental)			0.20		0.43		0.10U
Nickel Soluble Salts			7.97		55.30		12.80
Field Ferrous Iron (ug/L)							
Ferrous Iron			0		0		0
VOCs (ug/L)							
Chloroform			1.00 U		36900.00 J		1.00U
Tetrachloroethylene			1.00 U		5190.00 J		1.00U
Trichloroethylene			1.00 U		714.00 J		3.86
Vinyl Chloride			1.00 U		359.00 J		19.80

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-7E13-2R-102517-(20)	GW-7E16-2-102417	GW-7E16-2-102417-(20)	GW-7E3-1-102417	GW-7E3-1-102417-(20)	GW-7E4-2-102317
	Site ID: 7E13-2R	7E16-2	7E16-2	7E3-1	7E3-1	7E4-2
	Sample Date: 10/25/17	10/24/17	10/24/17	10/24/17	10/24/17	10/23/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	717.00		531.00		825.00	
Alkalinity, Carb.As CaCO3	549.00		1.00 U		1.00 U	
Alkalinity, Total	1270.00		531.00		825.00	
Bromine anion (Br-)	1.92		0.36		0.31	
Calcium	6.13		49.70		59.80	
Chloride	904.00		815.00		2740.00	
Dissolved Organic Carbon	99.50		5.70		9.03	
Fluoride	0.59		0.55		5.47	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	0.10 U		0.10 U		0.10 U	
Nitrite	0.10 U		0.10 U		0.10 U	
Potassium	9.81		20.70		35.20	
Sodium	1150.00		676.00		2050.00	
Sulfate	16.50		38.80		52.50	
Total Dissolved Solids	2750.00		1990.00		4820.00	
Dissolved Metals (ug/L)						
Aluminum	333.00		50.00 U		50.00 U	
Arsenate Ion - As(O4)3-	59.50		648.00		349.00	
Arsenic, Inorganic	287.00		2910.00		14300.00	
Arsenite Ion - As(O3)3-	18.30		2130.00		12100.00	
Cacodylic Acid	1.05 U		21.00 U		210.00 U	
Copper	13.30		2.49		5.00 U	
Iron	2290.00		5570.00		1140.00	
Lead and Compounds	1.47		0.20 U		1.00 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-7E13-2R-102517-(20)	GW-7E16-2-102417	GW-7E16-2-102417-(20)	GW-7E3-1-102417	GW-7E3-1-102417-(20)	GW-7E4-2-102317
	Site ID: 7E13-2R	7E16-2	7E16-2	7E3-1	7E3-1	7E4-2
	Sample Date: 10/25/17	10/24/17	10/24/17	10/24/17	10/24/17	10/23/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium	417.00		45300.00		15800.00	
Manganese	70.70		170.00		327.00	
Mercury (elemental)	0.10 U		0.10 U		0.16	
Methylarsonic acid	1.15 U		23.00 U		230.00 U	
Nickel Soluble Salts	10.10		4.85		4.26 J	
Silicon	46800.00		29800.00		36700.00	
Sum of arsenic species	77.80		2778.00		12449.00	
Dissolved Ortho-Phosphorus (mg/L)						
o-Phosphate {PO4}, as P	1.86		0.10 U		1.37	
Field Parameters and/or Alkalinity						
Alkalinity, Bicarb. As CaCO3 (mg/L)						
Alkalinity, Carb.As CaCO3 (mg/L)						
Alkalinity, Total (mg/L)						
Dissolved Oxygen (DO) (mg/L)		0.11		0.07		0
Hydroxide Alkalinity (mg/L)						
Oxidation Reduction Potential (ORP) (mV)		-91.40		-144.40		-274.80
Specific Conductivity (uS/cm)		2876.80		10869.00		12600.60
Temperature (Celsius) (C)		16.51		15.62		14.24
Turbidity (NTU)		3.33		6.04		0.43
pH ()		8.66		7.58		11.56
Field TDS and Sulfide (mg/L)						
Sulfide		0.02		0.04		28.00
Total Dissolved Solids		2000.00		7020.00		8000.00
Total Metals (ug/L)						
Arsenic, Inorganic		2550.00		15600.00		330.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

Constituent	Sample ID:	GW-7E13-2R-102517-(20)	GW-7E16-2-102417	GW-7E16-2-102417-(20)	GW-7E3-1-102417	GW-7E3-1-102417-(20)	GW-7E4-2-102317
	Site ID:	7E13-2R	7E16-2	7E16-2	7E3-1	7E3-1	7E4-2
	Sample Date:	10/25/17	10/24/17	10/24/17	10/24/17	10/24/17	10/23/17
	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			2.96		2.00 J		2.98
Lead and Compounds			0.20 U		1.00 U		0.50U
Mercury (elemental)			0.10 U		0.13		0.10U
Nickel Soluble Salts			4.61		5.45		14.90
Field Ferrous Iron (ug/L)							
Ferrous Iron			3700.00		2000.00		
VOCs (ug/L)							
Chloroform			0.73		0.14 J		132.00
Tetrachloroethylene			24.90		0.91		14.70
Trichloroethylene			8.77		1.97		20.30
Vinyl Chloride			2.68		0.20 U		596.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-7E4-2-102317-(20)	GW-7E5-3-110217	GW-7E5-3-110217-(20)	GW-7E6-2-102417	GW-7E6-2-102417-(20)	GW-7E7-2-102517
	Site ID: 7E4-2	7E5-3	7E5-3	7E6-2	7E6-2	7E7-2
	Sample Date: 10/23/17	11/02/17	11/02/17	10/24/17	10/24/17	10/25/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	1030.00		254.00		694.00	
Alkalinity, Carb.As CaCO3	675.00		1.00 U		986.00	
Alkalinity, Total	1700.00		254.00		1680.00	
Bromine anion (Br-)	5.88		1.02		9.16	
Calcium	24.20		67.10		4.45	
Chloride	4290.00		297.00		2910.00	
Dissolved Organic Carbon	4.02		2.62		250.00	
Fluoride	0.61		0.50 U		0.73	
Hydroxide Alkalinity	1.00 U		1.00 U		1.00 U	
Nitrate	0.10 U		0.50 U		0.10 U	
Nitrite	0.10 U		0.50 U		0.10 U	
Potassium	58.40		14.80		40.80	
Sodium	3580.00		120.00		2600.00	
Sulfate	17.30		1.02		9.41	
Total Dissolved Solids	7580.00		776.00		5740.00	
Dissolved Metals (ug/L)						
Aluminum	45.30 J		50.00 U		98.10	
Arsenate Ion - As(O4)3-	97.20		1.00 U		172.00	
Arsenic, Inorganic	303.00		0.09 J		347.00	
Arsenite Ion - As(O3)3-	28.70		1.00 U		15.90	
Cacodylic Acid	0.33 J		1.05 U		1.05 U	
Copper	2.54		0.50 U		9.10	
Iron	158.00		53.10		487.00	
Lead and Compounds	0.50 U		0.10 U		0.70	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-7E4-2-102317-(20)	GW-7E5-3-110217	GW-7E5-3-110217-(20)	GW-7E6-2-102417	GW-7E6-2-102417-(20)	GW-7E7-2-102517
	Site ID: 7E4-2	7E5-3	7E5-3	7E6-2	7E6-2	7E7-2
	Sample Date: 10/23/17	11/02/17	11/02/17	10/24/17	10/24/17	10/25/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium	42700.00		44400.00		325.00	
Manganese	82.20		30.50		19.80	
Mercury (elemental)	0.10 U		0.10 U		0.10 U	
Methylarsonic acid	4.82		1.15 U		3.19	
Nickel Soluble Salts	12.30		0.50 U		15.70	
Silicon	24700.00		19400.00		42600.00	
Sum of arsenic species	125.90		2.00 U		187.90	
Dissolved Ortho-Phosphorus (mg/L)						
o-Phosphate {PO4}, as P	5.34		0.74 J		3.90	
Field Parameters and/or Alkalinity						
Alkalinity, Bicarb. As CaCO3 (mg/L)						
Alkalinity, Carb.As CaCO3 (mg/L)						
Alkalinity, Total (mg/L)						
Dissolved Oxygen (DO) (mg/L)		0.06		0		2.01
Hydroxide Alkalinity (mg/L)						
Oxidation Reduction Potential (ORP) (mV)		-57.40		-250.60		-55.10
Specific Conductivity (uS/cm)		1136.70		8745.20		1928.90
Temperature (Celsius) (C)		12.81		13.37		13.88
Turbidity (NTU)		0.72		0.35		1.13
pH ()		7.87		10.54		9.40
Field TDS and Sulfide (mg/L)						
Sulfide		0.02		22.80		28.00
Total Dissolved Solids		60.00		6000.00		1000.00
Total Metals (ug/L)						
Arsenic, Inorganic		0.16 J		724.00		157.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-7E4-2-102317-(20)	GW-7E5-3-110217	GW-7E5-3-110217-(20)	GW-7E6-2-102417	GW-7E6-2-102417-(20)	GW-7E7-2-102517
	Site ID:	7E4-2	7E5-3	7E5-3	7E6-2	7E6-2	7E7-2
	Sample Date:	10/23/17	11/02/17	11/02/17	10/24/17	10/24/17	10/25/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			0.35 J		21.60		3.91
Lead and Compounds			0.10 U		1.62		0.41
Mercury (elemental)			0.10 U		0.10 U		0.10 U
Nickel Soluble Salts			0.50 U		22.10		7.13
Field Ferrous Iron (ug/L)							
Ferrous Iron			50.00				70.00
VOCs (ug/L)							
Chloroform			0.03 J		186.00		966.00
Tetrachloroethylene			0.20 U		962.00		351.00
Trichloroethylene			0.20 U		192.00		222.00
Vinyl Chloride			0.20 U		254.00		66.80

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-7E7-2-102517-(20)	GW-7E8-1-102417	GW-7E8-1-102417-(20)	GW-7E9-2-102317	GW-7E9-2-102317-(20)	GW-7F1-2-102317
	Site ID: 7E7-2	7E8-1	7E8-1	7E9-2	7E9-2	7F1-2
	Sample Date: 10/25/17	10/24/17	10/24/17	10/23/17	10/23/17	10/23/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	296.00		1.00 U		478.00	
Alkalinity, Carb.As CaCO3	241.00		2510.00		1.00 U	
Alkalinity, Total	536.00		3180.00		478.00	
Bromine anion (Br-)	0.93		7.68		2.16	
Calcium	37.30		1.48		33.20	
Chloride	609.00		4970.00		2420.00	
Dissolved Organic Carbon	38.10		293.00		15.40	
Fluoride	0.35		5.00 U		0.10 U	
Hydroxide Alkalinity	1.00 U		665.00		1.00 U	
Nitrate	0.31		5.00 U		1.23	
Nitrite	0.10 U		5.00 U		0.10 U	
Potassium	8.51		30.40		55.50	
Sodium	575.00		4450.00		1740.00	
Sulfate	23.10		238.00		11.00	
Total Dissolved Solids	1570.00		11300.00		4100.00	
Dissolved Metals (ug/L)						
Aluminum	43.40 J		559.00		50.00 U	
Arsenate Ion - As(O4)3-	8.43		715.00		20.20	
Arsenic, Inorganic	155.00		3430.00		52.30	
Arsenite Ion - As(O3)3-	9.94		116.00		2.72 J	
Cacodylic Acid	1.05 U		1.05 U		1.05 U	
Copper	3.22		18.10		2.50 U	
Iron	157.00		713.00		39.20 J	
Lead and Compounds	0.11		5.60		0.50 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-7E7-2-102517-(20)	GW-7E8-1-102417	GW-7E8-1-102417-(20)	GW-7E9-2-102317	GW-7E9-2-102317-(20)	GW-7F1-2-102317
	Site ID:	7E7-2	7E8-1	7E8-1	7E9-2	7E9-2	7F1-2
	Sample Date:	10/25/17	10/24/17	10/24/17	10/23/17	10/23/17	10/23/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		10800.00		500.00 U		91300.00	
Manganese		10.40		13.60		51.20	
Mercury (elemental)		0.10 U		0.10		0.10 U	
Methylarsonic acid		1.15 U		0.57 J		1.15 U	
Nickel Soluble Salts		5.62		61.20		0.73 J	
Silicon		21800.00		725000.00		16900.00	
Sum of arsenic species		18.37		831.00		22.92 J	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		0.66		5.94		0.54	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.05		3.35		0
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-241.60		-125.10		-199.00
Specific Conductivity (uS/cm)			17727.60		4814.70		25309.00
Temperature (Celsius) (C)			14.45		14.36		14.72
Turbidity (NTU)			0.97		1.71		1.81
pH ()			10.92		7.68		8.32
Field TDS and Sulfide (mg/L)							
Sulfide			28.00 >		1.10		8.00
Total Dissolved Solids			12000.00		3000.00		16000.00
Total Metals (ug/L)							
Arsenic, Inorganic			4020.00		51.70		31.50

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-7E7-2-102517-(20)	GW-7E8-1-102417	GW-7E8-1-102417-(20)	GW-7E9-2-102317	GW-7E9-2-102317-(20)	GW-7F1-2-102317
	Site ID:	7E7-2	7E8-1	7E8-1	7E9-2	7E9-2	7F1-2
	Sample Date:	10/25/17	10/24/17	10/24/17	10/23/17	10/23/17	10/23/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			20.50		2.50 U		5.00U
Lead and Compounds			6.64		0.50 U		1.00U
Mercury (elemental)			0.10		0.10 U		0.10U
Nickel Soluble Salts			73.20		1.08 J		2.73J
Field Ferrous Iron (ug/L)							
Ferrous Iron					50.00		210.00
VOCs (ug/L)							
Chloroform			6.28		0.20 U		0.20U
Tetrachloroethylene			2520.00		12.20		0.20U
Trichloroethylene			214.00		3.18		0.20U
Vinyl Chloride			1.04		93.60		22.20

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-7F1-2-102317-(20)	GW-7F2-1-102317	GW-7F2-1-102317-(20)	GW-7F3-1-102317	GW-7F3-1-102317-(20)	GW-7F4-1-102317
	Site ID: 7F1-2	7F2-1	7F2-1	7F3-1	7F3-1	7F4-1
	Sample Date: 10/23/17	10/23/17	10/23/17	10/23/17	10/23/17	10/23/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3	1770.00		281.00			
Alkalinity, Carb.As CaCO3	1.00 U		1.00 U			
Alkalinity, Total	1770.00		281.00			
Bromine anion (Br-)	8.75		0.11		42.60	
Calcium	43.00		48.10		2.25 J	
Chloride	10800.00		593.00		11800.00	
Dissolved Organic Carbon	49.60		35.90		831.00	
Fluoride	0.10 U		0.75		5.59	
Hydroxide Alkalinity	1.00 U		1.00 U			
Nitrate	0.10 U		2.02		5.00 U	
Nitrite	0.10 U		0.10 U		5.00 U	
Potassium	181.00		11.00		176.00	
Sodium	7420.00		350.00		17700.00	
Sulfate	12.20		113.00		2040.00	
Total Dissolved Solids	17700.00		1290.00		63600.00	
Dissolved Metals (ug/L)						
Aluminum	250.00 U		26.80 J		42500.00	
Arsenate Ion - As(O4)3-	2.06		141.00		558.00	
Arsenic, Inorganic	42.20		154.00		2120.00	
Arsenite Ion - As(O3)3-	11.10		2.47		16.90	
Cacodylic Acid	1.05 U		1.05 U		1.05 U	
Copper	36.00		50.10		29.90	
Iron	49.70 J		78.80		6000.00 J	
Lead and Compounds	2.00 U		0.15		2.00 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-7F1-2-102317-(20)	GW-7F2-1-102317	GW-7F2-1-102317-(20)	GW-7F3-1-102317	GW-7F3-1-102317-(20)	GW-7F4-1-102317
	Site ID: 7F1-2	7F2-1	7F2-1	7F3-1	7F3-1	7F4-1
	Sample Date: 10/23/17	10/23/17	10/23/17	10/23/17	10/23/17	10/23/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium	114000.00		60700.00		10000.00 U	
Manganese	8.20		10.70		200.00 U	
Mercury (elemental)	0.10 U		0.10 U		0.20 U	
Methylarsonic acid	1.15 U		1.15 U		0.36 J	
Nickel Soluble Salts	2.82 J		22.30		131.00	
Silicon	24400.00		5000.00		10600000.00	
Sum of arsenic species	13.16		143.47		574.90	
Dissolved Ortho-Phosphorus (mg/L)						
o-Phosphate {PO4}, as P	4.53		1.39		28.40	
Field Parameters and/or Alkalinity						
Alkalinity, Bicarb. As CaCO3 (mg/L)						
Alkalinity, Carb.As CaCO3 (mg/L)						
Alkalinity, Total (mg/L)						
Dissolved Oxygen (DO) (mg/L)		5.22		0.67		0
Hydroxide Alkalinity (mg/L)						
Oxidation Reduction Potential (ORP) (mV)		-84.90		-292.20		-418.60
Specific Conductivity (uS/cm)		1735.60		44815.00		49374.00
Temperature (Celsius) (C)		13.88		12.67		17.09
Turbidity (NTU)		3.57				
pH ()		7.52		10.96		12.22
Field TDS and Sulfide (mg/L)						
Sulfide		0.04				28.00
Total Dissolved Solids		1000.00		30000.00		32000.00
Total Metals (ug/L)						
Arsenic, Inorganic		145.00		2760.00		400.00

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-7F1-2-102317-(20)	GW-7F2-1-102317	GW-7F2-1-102317-(20)	GW-7F3-1-102317	GW-7F3-1-102317-(20)	GW-7F4-1-102317
	Site ID:	7F1-2	7F2-1	7F2-1	7F3-1	7F3-1	7F4-1
	Sample Date:	10/23/17	10/23/17	10/23/17	10/23/17	10/23/17	10/23/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			58.10		100.00 U		33.70
Lead and Compounds			0.36		20.00 U		5.00U
Mercury (elemental)			0.10 U		0.22		0.16
Nickel Soluble Salts			23.80		232.00		181.00
Field Ferrous Iron (ug/L)							
Ferrous Iron			120.00				
VOCs (ug/L)							
Chloroform			0.20 U		2.00 U		2.00U
Tetrachloroethylene			0.09 J		2.00 U		3.94
Trichloroethylene			0.20 U		2.00 U		5.15
Vinyl Chloride			0.20 U		2.00 U		2.00U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-7F4-1-102317-(20)	GW-7G1-1-102717	GW-7G1-1-102717-(20)	GW-7G1-2-102717	GW-7G1-2-102717-(20)	GW-711-1-102717-(20)_ DC
	Site ID: 7F4-1	7G1-1	7G1-1	7G1-2	7G1-2	711-1
	Sample Date: 10/23/17	10/27/17	10/27/17	10/27/17	10/27/17	10/27/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO3			448.00		1580.00	429.50
Alkalinity, Carb.As CaCO3			123.00		1.00 U	1.00U
Alkalinity, Total			571.00		1580.00	429.50
Bromine anion (Br-)	26.00		0.19		14.70	0.17
Calcium	1.78		32.30		219.00	49.10
Chloride	11600.00		660.00		10000.00	149.50
Dissolved Organic Carbon	821.00		16.40		29.60	9.29
Fluoride	5.00 U		0.73		0.10 U	2.45
Hydroxide Alkalinity			1.00 U		1.00 U	1.00U
Nitrate	5.00 U		0.10 U		0.10 U	0.10U
Nitrite	5.00 U		0.10 U		0.10 U	0.10U
Potassium	107.00		10.50		246.00	15.45
Sodium	9830.00		591.00		5690.00	133.50
Sulfate	1010.00		119.00		9.78	3.25
Total Dissolved Solids	38400.00		1750.00		15600.00	673.00
Dissolved Metals (ug/L)						
Aluminum	1000.00 U		14.40 J		250.00 U	16.80J
Arsenate Ion - As(O4)3-	187.00		2.75		0.37 J	0.83J
Arsenic, Inorganic	256.00		40.70		1.40 J	0.56
Arsenite Ion - As(O3)3-	1.11		10.50		1.00 U	0.48J
Cacodylic Acid	1.05 U		1.05 U		1.05 U	1.05U
Copper	22.80 J		1.37		10.00 U	0.50U
Iron	1990.00		95.80		13400.00	4795.00
Lead and Compounds	5.00 U		0.20 U		2.00 U	0.10U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-7F4-1-102317-(20)	GW-7G1-1-102717	GW-7G1-1-102717-(20)	GW-7G1-2-102717	GW-7G1-2-102717-(20)	GW-711-1-102717-(20)_ DC
	Site ID:	7F4-1	7G1-1	7G1-1	7G1-2	7G1-2	711-1
	Sample Date:	10/23/17	10/27/17	10/27/17	10/27/17	10/27/17	10/27/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		1000.00 U		78200.00		539000.00	61950.00
Manganese		20.00 U		49.00		787.00	1665.00
Mercury (elemental)		0.20 U		0.10 U		0.10 U	0.10 U
Methylarsonic acid		1.15 U		1.15 U		1.15 U	1.15 U
Nickel Soluble Salts		110.00		5.97		10.00 U	0.60
Silicon		930000.00		15900.00		20400.00	16700.00
Sum of arsenic species		188.11		13.25		0.37 J	1.31 U
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		18.50		0.40		0.10 U	0.35
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.06		0.07		
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-145.30		-42.60		
Specific Conductivity (uS/cm)			3277.50		28446.00		
Temperature (Celsius) (C)			15.12		12.89		
Turbidity (NTU)			1.44		9.23		
pH ()			8.43		6.42		
Field TDS and Sulfide (mg/L)							
Sulfide			0.39		0.02		
Total Dissolved Solids			2110.00		18510.00		
Total Metals (ug/L)							
Arsenic, Inorganic			38.10		2.70 J		

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-7F4-1-102317-(20)	GW-7G1-1-102717	GW-7G1-1-102717-(20)	GW-7G1-2-102717	GW-7G1-2-102717-(20)	GW-711-1-102717-(20)_ DC
	Site ID:	7F4-1	7G1-1	7G1-1	7G1-2	7G1-2	711-1
	Sample Date:	10/23/17	10/27/17	10/27/17	10/27/17	10/27/17	10/27/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			3.13		10.00 U		
Lead and Compounds			1.20		2.00 U		
Mercury (elemental)			0.10 U		0.10 U		
Nickel Soluble Salts			6.05		10.00 U		
Field Ferrous Iron (ug/L)							
Ferrous Iron			120.00		14200.00		
VOCs (ug/L)							
Chloroform			0.05 J		0.20 U		
Tetrachloroethylene			0.12 J		0.20 U		
Trichloroethylene			0.33		0.20 U		
Vinyl Chloride			0.20 U		0.20 U		

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-711-1-102717_DC	GW-713-2-102717	GW-713-2-102717-(20)	GW-8F1-1R-102517	GW-8F1-1R-102517-(20)	GW-8F2-2R-102717
	Site ID:	711-1	713-2	713-2	8F1-1R	8F1-1R	8F2-2R
	Sample Date:	10/27/17	10/27/17	10/27/17	10/25/17	10/25/17	10/27/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)							
Alkalinity, Bicarb. As CaCO3				770.00		50.80	
Alkalinity, Carb.As CaCO3				1.00 U		1860.00	
Alkalinity, Total				770.00		1910.00	
Bromine anion (Br-)				0.62		6.73	
Calcium				62.30		3.44	
Chloride				447.00		3100.00	
Dissolved Organic Carbon				19.00		135.00	
Fluoride				1.05		5.00 U	
Hydroxide Alkalinity				1.00 U		1.00 U	
Nitrate				0.10 U		5.00 U	
Nitrite				0.10 U		5.00 U	
Potassium				33.60		20.90	
Sodium				478.00		2780.00	
Sulfate				0.62		14.40	
Total Dissolved Solids				1540.00		6320.00	
Dissolved Metals (ug/L)							
Aluminum				50.00 U		190.00 J	
Arsenate Ion - As(O4)3-				0.85 J		6.33	
Arsenic, Inorganic				0.98		22.40	
Arsenite Ion - As(O3)3-				0.91 J		0.86 J	
Cacodylic Acid				1.05 U		1.05 U	
Copper				0.50 U		18.10	
Iron				9600.00		602.00	
Lead and Compounds				0.10 U		1.27	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-711-1-102717_DC	GW-713-2-102717	GW-713-2-102717-(20)	GW-8F1-1R-102517	GW-8F1-1R-102517-(20)	GW-8F2-2R-102717
	Site ID: 711-1	713-2	713-2	8F1-1R	8F1-1R	8F2-2R
	Sample Date: 10/27/17	10/27/17	10/27/17	10/25/17	10/25/17	10/27/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium			45200.00		280.00 J	
Manganese			1810.00		6.70 J	
Mercury (elemental)			0.10 U		0.10 U	
Methylarsonic acid			1.15 U		1.15 U	
Nickel Soluble Salts			0.55		17.90	
Silicon			24400.00		194000.00	
Sum of arsenic species			1.76 J		7.19 J	
Dissolved Ortho-Phosphorus (mg/L)						
o-Phosphate {PO4}, as P			1.85		5.00 U	
Field Parameters and/or Alkalinity						
Alkalinity, Bicarb. As CaCO3 (mg/L)						
Alkalinity, Carb.As CaCO3 (mg/L)						
Alkalinity, Total (mg/L)						
Dissolved Oxygen (DO) (mg/L)	0.11	0.08		0.01		0.01
Hydroxide Alkalinity (mg/L)						
Oxidation Reduction Potential (ORP) (mV)	-93.50	-38.90		-342.90		-432.80
Specific Conductivity (uS/cm)	1382.20	2245.80		12091.00		33001.00
Temperature (Celsius) (C)	16.02	15.89		15.67		14.35
Turbidity (NTU)	2.40	7.38		0.36		
pH ()	6.85	6.65		10.33		10.86
Field TDS and Sulfide (mg/L)						
Sulfide	0.02	0.04		28.00 >		28.00 >
Total Dissolved Solids	900.00	1000.00		7860.00		21440.00
Total Metals (ug/L)						
Arsenic, Inorganic	0.74	3.29		18.90		31.70

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-711-1-102717_DC	GW-713-2-102717	GW-713-2-102717-(20)	GW-8F1-1R-102517	GW-8F1-1R-102517-(20)	GW-8F2-2R-102717
	Site ID:	711-1	713-2	713-2	8F1-1R	8F1-1R	8F2-2R
	Sample Date:	10/27/17	10/27/17	10/27/17	10/25/17	10/25/17	10/27/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper		0.50 U	0.88		18.20		23.30
Lead and Compounds		0.10 U	0.12		1.28		2.00U
Mercury (elemental)		0.10 U	0.10 U		0.10 U		0.10U
Nickel Soluble Salts		0.58	0.90		18.70		0.48J
Field Ferrous Iron (ug/L)							
Ferrous Iron		3600.00	9600.00		0		0
VOCs (ug/L)							
Chloroform		0.20 U	0.20 UJ		2.00 U		2.00U
Tetrachloroethylene		0.20 U	0.20 UJ		2.00 U		2.00U
Trichloroethylene		0.20 U	0.20 UJ		4.06		2.99
Vinyl Chloride		0.20 U	0.20 UJ		38.20		2.00U

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID: GW-8F2-2R-102717-(20)	GW-8G2-1-102717	GW-8G2-1-102717-(20)	GW-8G3-2-102717	GW-8G3-2-102717-(20)	GW-8H1-1-102717
	Site ID: 8F2-2R	8G2-1	8G2-1	8G3-2	8G3-2	8H1-1
	Sample Date: 10/27/17	10/27/17	10/27/17	10/27/17	10/27/17	10/27/17
Constituent	Media: Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO ₃			422.00		1480.00	
Alkalinity, Carb.As CaCO ₃			1940.00		744.00	
Alkalinity, Total			2360.00		2220.00	
Bromine anion (Br-)	42.50		7.46		11.30	
Calcium	2.78		6.87		9.69	
Chloride	10900.00		10400.00		11900.00	
Dissolved Organic Carbon	703.00		136.00		85.00	
Fluoride	5.00 U		2.30		1.44	
Hydroxide Alkalinity			1.00 U		1.00 U	
Nitrate	5.00 U		0.10 U		0.10 U	
Nitrite	5.00 U		0.10 U		0.10 U	
Potassium	112.00		82.00		146.00	
Sodium	8590.00		7850.00		8710.00	
Sulfate	179.00		487.00		795.00	
Total Dissolved Solids	21600.00		18300.00		19600.00	
Dissolved Metals (ug/L)						
Aluminum	1000.00 U		250.00 U		250.00 U	
Arsenate Ion - As(O ₄) ₃ -	1.82		152.00		0.42 J	
Arsenic, Inorganic	34.50		272.00		58.30	
Arsenite Ion - As(O ₃) ₃ -	2.84		7.73		6.55	
Cacodylic Acid	1.05 U		1.05 U		1.05 U	
Copper	29.50		11.00		10.00 U	
Iron	2060.00		162.00 J		73.30 J	
Lead and Compounds	2.00 U		2.00 U		2.00 U	

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-8F2-2R-102717-(20)	GW-8G2-1-102717	GW-8G2-1-102717-(20)	GW-8G3-2-102717	GW-8G3-2-102717-(20)	GW-8H1-1-102717
	Site ID:	8F2-2R	8G2-1	8G2-1	8G3-2	8G3-2	8H1-1
	Sample Date:	10/27/17	10/27/17	10/27/17	10/27/17	10/27/17	10/27/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Magnesium		1000.00 U		4140.00		8380.00	
Manganese		20.00 U		2.40 J		1.90 J	
Mercury (elemental)		0.10 U		0.12		0.10 U	
Methylarsonic acid		1.15 U		0.24 J		1.15 U	
Nickel Soluble Salts		84.10		48.00		5.76 J	
Silicon		83500.00		165000.00		33800.00	
Sum of arsenic species		4.66		159.73		6.97 J	
Dissolved Ortho-Phosphorus (mg/L)							
o-Phosphate {PO4}, as P		11.50		5.72		4.62	
Field Parameters and/or Alkalinity							
Alkalinity, Bicarb. As CaCO3 (mg/L)							
Alkalinity, Carb.As CaCO3 (mg/L)							
Alkalinity, Total (mg/L)							
Dissolved Oxygen (DO) (mg/L)			0.03		0.06		0.07
Hydroxide Alkalinity (mg/L)							
Oxidation Reduction Potential (ORP) (mV)			-253.00		-214.70		-77.80
Specific Conductivity (uS/cm)			27508.00		28428.40		20704.10
Temperature (Celsius) (C)			15.55		13.26		15.05
Turbidity (NTU)			1.07		1.24		4000.00
pH ()			10.30		9.11		6.59
Field TDS and Sulfide (mg/L)							
Sulfide			25.20		0.40		
Total Dissolved Solids			18000.00		19000.00		13000.00
Total Metals (ug/L)							
Arsenic, Inorganic			194.00		69.40		14.20

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

	Sample ID:	GW-8F2-2R-102717-(20)	GW-8G2-1-102717	GW-8G2-1-102717-(20)	GW-8G3-2-102717	GW-8G3-2-102717-(20)	GW-8H1-1-102717
	Site ID:	8F2-2R	8G2-1	8G2-1	8G3-2	8G3-2	8H1-1
	Sample Date:	10/27/17	10/27/17	10/27/17	10/27/17	10/27/17	10/27/17
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Copper			9.08 J		0.35 J		5.00J
Lead and Compounds			2.00 U		2.00 U		1.00J
Mercury (elemental)			0.10 U		0.10 U		0.10J
Nickel Soluble Salts			0.09 J		6.04 J		5.70
Field Ferrous Iron (ug/L)							
Ferrous Iron			0		0		11260.00
VOCs (ug/L)							
Chloroform			2.00 U		2.00 U		2.00JJ
Tetrachloroethylene			2.00 U		2.00 U		2.00JJ
Trichloroethylene			2.00 U		2.00 U		2.00JJ
Vinyl Chloride			2.00 U		49.50		2.00JJ

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

Sample ID:	GW-8H1-1-102717-(20)					
Site ID:	8H1-1					
Sample Date:	10/27/17	//	//	//	//	//
Media:	Groundwater					
Constituent						
Dissolved Conventionals (mg/L)						
Alkalinity, Bicarb. As CaCO ₃	2170.00					
Alkalinity, Carb.As CaCO ₃	1.00 U					
Alkalinity, Total	2170.00					
Bromine anion (Br-)	4.53					
Calcium	113.00					
Chloride	8940.00					
Dissolved Organic Carbon	110.00					
Fluoride	2.40					
Hydroxide Alkalinity	1.00 U					
Nitrate	0.10 U					
Nitrite	0.10 U					
Potassium	129.00					
Sodium	6030.00					
Sulfate	1.06					
Total Dissolved Solids	14600.00					
Dissolved Metals (ug/L)						
Aluminum	412.00					
Arsenate Ion - As(O ₄) ₃ ⁻	3.63					
Arsenic, Inorganic	12.90					
Arsenite Ion - As(O ₃) ₃ ⁻	5.46					
Cacodylic Acid	1.05 U					
Copper	5.00 U					
Iron	16100.00					
Lead and Compounds	1.00 U					

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

Constituent	Sample ID: GW-8H1-1-102717-(20)					
	Site ID: 8H1-1					
	Sample Date: 10/27/17	//	//	//	//	//
	Media: Groundwater					
Magnesium	92700.00					
Manganese	885.00					
Mercury (elemental)	0.10 U					
Methylarsonic acid	1.15 U					
Nickel Soluble Salts	5.40					
Silicon	21400.00					
Sum of arsenic species	9.09					
Dissolved Ortho-Phosphorus (mg/L)						
o-Phosphate {PO4}, as P	11.30					
Field Parameters and/or Alkalinity						
Alkalinity, Bicarb. As CaCO3 (mg/L)						
Alkalinity, Carb.As CaCO3 (mg/L)						
Alkalinity, Total (mg/L)						
Dissolved Oxygen (DO) (mg/L)						
Hydroxide Alkalinity (mg/L)						
Oxidation Reduction Potential (ORP) (mV)						
Specific Conductivity (uS/cm)						
Temperature (Celsius) (C)						
Turbidity (NTU)						
pH ()						
Field TDS and Sulfide (mg/L)						
Sulfide						
Total Dissolved Solids						
Total Metals (ug/L)						
Arsenic, Inorganic						

Blank cells indicate that no analysis was performed.

Table G-3: 2017 Groundwater Results

Constituent	Sample ID: GW-8H1-1-102717-(20)					
	Site ID: 8H1-1	//	//	//	//	//
	Sample Date: 10/27/17					
	Media: Groundwater					
Copper						
Lead and Compounds						
Mercury (elemental)						
Nickel Soluble Salts						
Field Ferrous Iron (ug/L)						
Ferrous Iron						
VOCs (ug/L)						
Chloroform						
Tetrachloroethylene						
Trichloroethylene						
Vinyl Chloride						

Blank cells indicate that no analysis was performed.

Table G-4: 2018 Pore Water Results

Constituent	Sample ID:	PW-119+25-0-DS-101718	PW-119+25-0-DS-101718-(20)	PW-119+25-ST1-091118	PW-119+25-ST1-091118-(20)	PW-119+25-ST1-DS-101718	PW-119+25-ST1-DS-101718-(20)
	Site ID:	119+25-0-DS	119+25-0-DS	119+25-ST1	119+25-ST1	119+25-ST1-DS	119+25-ST1-DS
	Sample Date:	10/17/18	10/17/18	09/11/18	09/11/18	10/17/18	10/17/18
	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Dissolved Metals (ug/L)							
Arsenic, Inorganic			2.79		9.92		33.20
Copper			1.27		0.46		0.15
Lead and Compounds			0.08		0.02		0.01J
Mercury (elemental)			0.0004 U		0.0002 J		0.0004J
Nickel Soluble Salts			1.60		0.92		0.34
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		3.68		2.65		0.68	
Oxidation Reduction Potential (ORP) (mV)		181.20		-5.40		100.50	
Specific Conductivity (uS/cm)		41897.00		47244.00		43779.00	
Temperature (Celsius) (C)		11.70		17.60		12.70	
Turbidity (NTU)		74.90		10.90		26.70	
pH ()		6.51		7.30		7.35	

Blank cells indicate that no analysis was performed.

Table G-4: 2018 Pore Water Results

Constituent	Sample ID:	PW-120+75-0-DS-101718	PW-120+75-0-DS-101718-(20)	PW-120+75-ST1-091118	PW-120+75-ST1-091118-(20)	PW-120+75-ST1-DS-101718	PW-120+75-ST1-DS-101718-(20)
	Site ID:	120+75-0-DS	120+75-0-DS	120+75-ST1	120+75-ST1	120+75-ST1-DS	120+75-ST1-DS
	Sample Date:	10/17/18	10/17/18	09/11/18	09/11/18	10/17/18	10/17/18
	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Dissolved Metals (ug/L)							
Arsenic, Inorganic			4.20		47.50		32.00
Copper			2.78		0.07		0.34
Lead and Compounds			0.08		0.02 U		0.06
Mercury (elemental)			0.0002 J		0.0001 J		0.0004J
Nickel Soluble Salts			1.02		0.56		0.73
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		4.81		0.16		0.67	
Oxidation Reduction Potential (ORP) (mV)		97.80		-79.30		94.50	
Specific Conductivity (uS/cm)		37666.00		46596.00		42447.00	
Temperature (Celsius) (C)		12.40		16.20		13.20	
Turbidity (NTU)		7.25		4.21		23.40	
pH ()		7.31		7.36		7.38	

Blank cells indicate that no analysis was performed.

Table G-4: 2018 Pore Water Results

Constituent	Sample ID:	PW-122+60-0-DS-10171 8	PW-122+60-0-DS-10171 8-(20)	PW-123+25-ST1-091218	PW-123+25-ST1-091218- (20)	PW-123+25-ST1-DS-101 718	PW-123+25-ST1-DS-10 1718-(20)_DC
	Site ID:	122+60-0-DS	122+60-0-DS	123+25-ST1	123+25-ST1	123+25-ST1-DS	123+25-ST1-DS
	Sample Date:	10/17/18	10/17/18	09/12/18	09/12/18	10/17/18	10/17/18
	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Dissolved Metals (ug/L)							
Arsenic, Inorganic			12.90		189.00		546.50
Copper			0.36		0.22		0.17
Lead and Compounds			0.03		0.006 J		0.01J
Mercury (elemental)			0.0007 J		0.0002 J		0.0003J
Nickel Soluble Salts			12.30		1.32		0.44
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0.35		0.29		0.77	
Oxidation Reduction Potential (ORP) (mV)		92.10		16.70		87.00	
Specific Conductivity (uS/cm)		40384.00		46330.00		44209.00	
Temperature (Celsius) (C)		14.10		15.50		15.20	
Turbidity (NTU)		21.90		5.34		13.10	
pH ()		7.45		7.65		7.62	

Blank cells indicate that no analysis was performed.

Table G-4: 2018 Pore Water Results

Constituent	Sample ID:	PW-124+00-0-DS-101718	PW-124+00-0-DS-101718-(20)	PW-125+00-ST1-091218	PW-125+00-ST1-091218-(20)	PW-125+00-ST1-DS-101718	PW-125+00-ST1-DS-101718-(20)
	Site ID:	124+00-0-DS	124+00-0-DS	125+00-ST1	125+00-ST1	125+00-ST1-DS	125+00-ST1-DS
	Sample Date:	10/17/18	10/17/18	09/12/18	09/12/18	10/17/18	10/17/18
	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Dissolved Metals (ug/L)							
Arsenic, Inorganic			4.96		20.70		43.50
Copper			2.19		1.20		0.38
Lead and Compounds			0.08		0.02		0.04
Mercury (elemental)			0.0004 J		0.003		0.0004J
Nickel Soluble Salts			1.04		0.87		0.79
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		5.18		1.03		4.55	
Oxidation Reduction Potential (ORP) (mV)		81.00		35.00		90.00	
Specific Conductivity (uS/cm)		41567.00		44875.00		41779.00	
Temperature (Celsius) (C)		14.40		16.10		15.00	
Turbidity (NTU)		9.01		14.50		6.60	
pH ()		7.72		7.55		7.71	

Blank cells indicate that no analysis was performed.

Table G-4: 2018 Pore Water Results

Constituent	Sample ID:	PW-125+50-0-DS-101718	PW-125+50-0-DS-101718-(20)	PW-126+80-ST1-091218	PW-126+80-ST1-091218-(20)	PW-126+80-ST1-DS-101718	PW-126+80-ST1-DS-101718-(20)
	Site ID:	125+50-0-DS	125+50-0-DS	126+80-ST1	126+80-ST1	126+80-ST1-DS	126+80-ST1-DS
	Sample Date:	10/17/18	10/17/18	09/12/18	09/12/18	10/17/18	10/17/18
	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Dissolved Metals (ug/L)							
Arsenic, Inorganic			43.70		18.60		15.20
Copper			1.81		0.97		0.64
Lead and Compounds			0.08		0.01 J		0.02
Mercury (elemental)			0.0006		0.0004 J		0.0004J
Nickel Soluble Salts			2.93		0.67		0.65
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		3.72		2.77		1.51	
Oxidation Reduction Potential (ORP) (mV)		87.00		39.50		90.70	
Specific Conductivity (uS/cm)		45272.00		47329.00		44011.00	
Temperature (Celsius) (C)		15.70		16.80		14.90	
Turbidity (NTU)		4.87		22.40		13.30	
pH ()		7.78		7.39		7.65	

Blank cells indicate that no analysis was performed.

Table G-4: 2018 Pore Water Results

	Sample ID:	PW-126+90-0-DS-10171 8	PW-126+90-0-DS-10171 8-(20)	PW-128+30-0-DS-10171 8	PW-128+30-0-DS-10171 8-(20)	PW-128+50-ST1-091318	PW-128+50-ST1-09131 8-(20)_DC
	Site ID:	126+90-0-DS	126+90-0-DS	128+30-0-DS	128+30-0-DS	128+50-ST1	128+50-ST1
	Sample Date:	10/17/18	10/17/18	10/17/18	10/17/18	09/13/18	09/13/18
Constituent	Media:	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water	Pore Water
Dissolved Metals (ug/L)							
Arsenic, Inorganic			30.90		8.81		69.85
Copper			2.60		1.88		0.04J
Lead and Compounds			0.36		0.21		0.006J
Mercury (elemental)			0.0005		0.0005		0.0005
Nickel Soluble Salts			1.44		7.70		0.54
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		4.74		3.84		0.12	
Oxidation Reduction Potential (ORP) (mV)		87.70		91.50		-239.80	
Specific Conductivity (uS/cm)		42545.00		41687.00		47029.00	
Temperature (Celsius) (C)		15.90		14.80		16.10	
Turbidity (NTU)		5.07		15.90		6.30	
pH ()		7.71		7.64		7.66	

Blank cells indicate that no analysis was performed.

Table G-4: 2018 Pore Water Results

Constituent	Sample ID:	PW-128+50-ST1-DS-101 718	PW-128+50-ST1-DS-101 718-(20)	PW-130+75-ST1-091318	PW-130+75-ST1-091318- (20)		
	Site ID:	128+50-ST1-DS	128+50-ST1-DS	130+75-ST1	130+75-ST1		
	Sample Date:	10/17/18	10/17/18	09/13/18	09/13/18	/ /	/ /
	Media:	Pore Water	Pore Water	Pore Water	Pore Water		
Dissolved Metals (ug/L)							
Arsenic, Inorganic			35.00		5.51		
Copper			0.12		0.14		
Lead and Compounds			0.010 J		0.02 U		
Mercury (elemental)			0.0002 J		0.0002 J		
Nickel Soluble Salts			0.36 J		0.94		
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0.86		0.86			
Oxidation Reduction Potential (ORP) (mV)		89.80		-110.80			
Specific Conductivity (uS/cm)		43277.00		47610.00			
Temperature (Celsius) (C)		16.00		19.90			
Turbidity (NTU)		19.90		22.10			
pH ()		7.63		7.41			

Blank cells indicate that no analysis was performed.

Table G-5: 2018 Surface Water Results

Constituent	Sample ID:	SW-120+75-SW-DS-101 718	SW-120+75-SW-DS-101 718-(20)	SW-125+00-SW-DS-101 718	SW-125+00-SW-DS-101 718-(20)	SW-128+50-SW-DS-101 718	SW-128+50-SW-DS-101 718-(20)
	Site ID:	120+75-SW	120+75-SW	125+00-SW	125+00-SW	128+50-SW	128+50-SW
	Sample Date:	10/17/18	10/17/18	10/17/18	10/17/18	10/17/18	10/17/18
	Media:	Surfacewater	Surfacewater	Surfacewater	Surfacewater	Surfacewater	Surfacewater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			3.78		2.70		2.44
Copper			1.12		0.97		0.90
Lead and Compounds			0.08		0.09		0.06
Mercury (elemental)			0.0004 U		0.0004 U		0.0004U
Nickel Soluble Salts			0.53		0.59		0.43
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		3.83		1.08		2.44	
Oxidation Reduction Potential (ORP) (mV)		98.40		91.00		81.20	
Specific Conductivity (uS/cm)		44427.00		44309.00		39737.00	
Temperature (Celsius) (C)		14.20		14.50		16.80	
Turbidity (NTU)		5.95		15.40		3.81	
pH ()		7.71		7.71		7.68	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-120+75-2-101118	GW-120+75-2-101118-(20)	GW-121+80-1-101118	GW-121+80-1-101118-(20)	GW-121+80-2-101118	GW-121+80-2-101118-(20)
	Site ID:	120+75-2	120+75-2	121+80-1	121+80-1	121+80-2	121+80-2
	Sample Date:	10/11/18	10/11/18	10/11/18	10/11/18	10/11/18	10/11/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			139.00		1850.00		1560.00
Copper			0.46 U		8.72		4.99
Lead and Compounds			0.15 U		1.76		1.25
Mercury (elemental)			0.0003 J		0.29		0.01
Nickel Soluble Salts			3.03 U		11.30		16.80
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0.22		0.25		0.08	
Oxidation Reduction Potential (ORP) (mV)		-13.00		-189.60		-210.50	
Specific Conductivity (uS/cm)		37464.00		6138.00		11455.00	
Temperature (Celsius) (C)		14.40		17.50		15.20	
Turbidity (NTU)		6.23				42.70	
pH ()		7.30		11.15		9.59	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-122+60-0-101018	GW-122+60-0-101018-(20)	GW-122+60-1-101018	GW-122+60-1-101018-(20)	GW-122+60-2-101118	GW-122+60-2-101118-(20)
	Site ID:	122+60-0	122+60-0	122+60-1	122+60-1	122+60-2	122+60-2
	Sample Date:	10/10/18	10/10/18	10/10/18	10/10/18	10/11/18	10/11/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			9.68		26.10		2850.00
Copper			3.69		3.25		0.46U
Lead and Compounds			0.15 U		0.15 U		0.15U
Mercury (elemental)			0.002		0.0006		0.0004U
Nickel Soluble Salts			482.00		239.00		22.70
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		5.32		5.44		0.27	
Oxidation Reduction Potential (ORP) (mV)		6.10		37.10		45.20	
Specific Conductivity (uS/cm)		27375.00		30234.00		29764.00	
Temperature (Celsius) (C)		14.90		16.30		15.10	
Turbidity (NTU)		4.42		16.80		5.00	
pH ()		8.03		7.56		8.10	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-124+00-0-101018	GW-124+00-0-101018-(20)	GW-124+00-0-101118	GW-124+00-0-101118-(20)	GW-124+00-1-101018	GW-124+00-1-101018-(20)
	Site ID:	124+00-0	124+00-0	124+00-0	124+00-0	124+00-1	124+00-1
	Sample Date:	10/10/18	10/10/18	10/11/18	10/11/18	10/10/18	10/10/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			8.11		8.42		1100.00
Copper			2.81		2.34		2.74
Lead and Compounds			0.15 U		0.15 U		0.15U
Mercury (elemental)			0.0009		0.0004 J		0.002
Nickel Soluble Salts			150.00		158.00		20.20
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		5.33		4.55		1.80	
Oxidation Reduction Potential (ORP) (mV)		107.10		161.30		95.60	
Specific Conductivity (uS/cm)		38590.00		32356.00		37297.00	
Temperature (Celsius) (C)		13.80		12.90		15.90	
Turbidity (NTU)		3.36		9.86		46.00	
pH ()		8.46		8.22		8.42	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-124+00-2-101018	GW-124+00-2-101018-(20)	GW-125+50-0-101018	GW-125+50-0-101018-(20)	GW-125+50-0-101118	GW-125+50-0-101118-(20)
	Site ID:	124+00-2	124+00-2	125+50-0	125+50-0	125+50-0	125+50-0
	Sample Date:	10/10/18	10/10/18	10/10/18	10/10/18	10/11/18	10/11/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			76200.00		101.00		106.00
Copper			0.38 J		4.88		7.63
Lead and Compounds			0.22		0.15 U		0.15 U
Mercury (elemental)			0.01		0.010		0.008
Nickel Soluble Salts			16.90		427.00		492.00
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0.24		6.06		6.26	
Oxidation Reduction Potential (ORP) (mV)		-11.90		85.00		129.10	
Specific Conductivity (uS/cm)		31580.00		30457.00		38521.00	
Temperature (Celsius) (C)		14.20		13.60		12.70	
Turbidity (NTU)		10.10		2.13		4.36	
pH ()		8.85		7.60		7.16	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-125+50-1-101018	GW-125+50-1-101018-(20)	GW-125+50-2-101018	GW-125+50-2-101018-(20)	GW-126+90-0-101018	GW-126+90-0-101018-(20)
	Site ID:	125+50-1	125+50-1	125+50-2	125+50-2	126+90-0	126+90-0
	Sample Date:	10/10/18	10/10/18	10/10/18	10/10/18	10/10/18	10/10/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			80.70		706.00		29.70
Copper			2.30		0.46 U		3.24
Lead and Compounds			0.15 U		0.15 U		0.15U
Mercury (elemental)			0.006		0.0006		0.002
Nickel Soluble Salts			32.90		0.91 J		438.00
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		7.76		0.14		5.90	
Oxidation Reduction Potential (ORP) (mV)		105.00		-64.20		142.20	
Specific Conductivity (uS/cm)		38238.00		29440.00		36721.00	
Temperature (Celsius) (C)		14.90		15.80		13.40	
Turbidity (NTU)		36.10		4.57		0	
pH ()		8.33		7.49		7.71	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-126+90-0-101118	GW-126+90-0-101118-(20)	GW-126+90-1-101018	GW-126+90-1-101018-(20)	GW-126+90-2-100818	GW-126+90-2-100818-(20)
	Site ID:	126+90-0	126+90-0	126+90-1	126+90-1	126+90-2	126+90-2
	Sample Date:	10/11/18	10/11/18	10/10/18	10/10/18	10/08/18	10/08/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			28.70		95.20		909.00
Copper			5.20		3.06		0.46U
Lead and Compounds			0.15 U		0.15 U		0.15U
Mercury (elemental)			0.002		0.05		0.001
Nickel Soluble Salts			450.00		104.00		3.76
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		5.89		6.26		0.13	
Oxidation Reduction Potential (ORP) (mV)		172.40		108.30		-75.70	
Specific Conductivity (uS/cm)		28189.00		40955.00		28957.00	
Temperature (Celsius) (C)		13.00		14.70		14.60	
Turbidity (NTU)		5.26		40.00		0	
pH ()		7.74		8.04		7.92	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-128+30-0-100918	GW-128+30-0-100918-(20)	GW-128+30-1-100818	GW-128+30-1-100818-(20)	GW-128+30-2-100818	GW-128+30-2-100818-(20)
	Site ID:	128+30-0	128+30-0	128+30-1	128+30-1	128+30-2	128+30-2
	Sample Date:	10/09/18	10/09/18	10/08/18	10/08/18	10/08/18	10/08/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			13.20		15.70		625.00
Copper			3.81		7.14		0.46J
Lead and Compounds			0.15 U		0.15 U		0.15J
Mercury (elemental)			0.001		0.0003 J		0.002
Nickel Soluble Salts			372.00		4230.00		1.54J
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		6.71		2.60		0.03	
Oxidation Reduction Potential (ORP) (mV)		63.10		46.90		-235.80	
Specific Conductivity (uS/cm)		39278.00		37838.00		18140.00	
Temperature (Celsius) (C)		13.60		15.20		13.90	
Turbidity (NTU)		4.16		309.00		1.80	
pH ()		6.81		6.59		8.54	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-129+65-0-100918	GW-129+65-0-100918-(20)	GW-129+65-1-100818	GW-129+65-1-100818-(20)	GW-129+65-2-100818	GW-129+65-2-100818-(20)
	Site ID:	129+65-0	129+65-0	129+65-1	129+65-1	129+65-2	129+65-2
	Sample Date:	10/09/18	10/09/18	10/08/18	10/08/18	10/08/18	10/08/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			2.55		1.91		8.65
Copper			2.79		55.20		0.46U
Lead and Compounds			0.15 U		0.15 U		0.15U
Mercury (elemental)			0.0010		0.010		0.0004
Nickel Soluble Salts			1230.00		1520.00		5.60
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		5.78		7.16		0	
Oxidation Reduction Potential (ORP) (mV)		78.80		113.90		-210.00	
Specific Conductivity (uS/cm)		29216.00		33217.00		26500.00	
Temperature (Celsius) (C)		13.60		14.50		14.70	
Turbidity (NTU)		13.40		169.00		13.90	
pH ()		7.48		7.19		7.05	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-131+00-1-100818	GW-131+00-1-100818-(20)	GW-131+00-2-100818	GW-131+00-2-100818-(20)	GW-4C1-1-100518	GW-4C1-1-100518-(20)
	Site ID:	131+00-1	131+00-1	131+00-2	131+00-2	4C1-1	4C1-1
	Sample Date:	10/08/18	10/08/18	10/08/18	10/08/18	10/05/18	10/05/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			0.52 J		2.75		163.00
Copper			8.80		0.46 U		
Lead and Compounds			0.15 U		0.15 U		
Mercury (elemental)			0.0009		0.0003 J		
Nickel Soluble Salts			1260.00		13.70		
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		5.73		0.67		0	
Oxidation Reduction Potential (ORP) (mV)		88.70		-198.70		-76.00	
Specific Conductivity (uS/cm)		34090.00		13315.00		4548.00	
Temperature (Celsius) (C)		14.90		14.30		17.30	
Turbidity (NTU)				285.00		7.05	
pH ()		7.41		8.85		10.81	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-4D1-1-100518	GW-4D1-1-100518-(20)	GW-5B1-1R-101118	GW-5B1-1R-101118-(20) _DC	GW-5B1-2R-101118	GW-5B1-2R-101118-(20))
	Site ID:	4D1-1	4D1-1	5B1-1R	5B1-1R	5B1-2R	5B1-2R
	Sample Date:	10/05/18	10/05/18	10/11/18	10/11/18	10/11/18	10/11/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			4000.00		1360.00		0.88J
Copper					0.62		0.46J
Lead and Compounds					0.51 J		0.15J
Mercury (elemental)					0.02		0.0004J
Nickel Soluble Salts					3.00 J		3.03J
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0		0.28		0.38	
Oxidation Reduction Potential (ORP) (mV)		-313.90		-21.20		-92.60	
Specific Conductivity (uS/cm)		12134.00		2709.00		42316.00	
Temperature (Celsius) (C)		15.60		17.70		14.20	
Turbidity (NTU)		6.52		3.60		30.40	
pH ()		11.47		10.05		7.01	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-5C12-1-100518	GW-5C12-1-100518-(20)	GW-5C13-1-100518	GW-5C13-1-100518-(20)	GW-5C16-1R-100518	GW-5C16-1R-100518-(20)
	Site ID:	5C12-1	5C12-1	5C13-1	5C13-1	5C16-1R	5C16-1R
	Sample Date:	10/05/18	10/05/18	10/05/18	10/05/18	10/05/18	10/05/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			1380.00		1340.00		1190.00
Copper							
Lead and Compounds							
Mercury (elemental)							
Nickel Soluble Salts							
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0		0		0	
Oxidation Reduction Potential (ORP) (mV)		-280.00		-291.80		-188.90	
Specific Conductivity (uS/cm)		6859.00		8750.00		1860.00	
Temperature (Celsius) (C)		18.90		18.90		17.50	
Turbidity (NTU)		3.21		6.35		0.68	
pH ()		11.59		10.30		8.45	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-5C16-2R-100518	GW-5C16-2R-100518-(20)	GW-5C21-2-100418	GW-5C21-2-100418-(20)	GW-5D1-3-101218	GW-5D1-3-101218-(20)
	Site ID:	5C16-2R	5C16-2R	5C21-2	5C21-2	5D1-3	5D1-3
	Sample Date:	10/05/18	10/05/18	10/04/18	10/04/18	10/12/18	10/12/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			704.00		2080.00		12.40
Copper							
Lead and Compounds							
Mercury (elemental)							
Nickel Soluble Salts							
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0.17		0		0.30	
Oxidation Reduction Potential (ORP) (mV)		-132.80		-147.40		-16.90	
Specific Conductivity (uS/cm)		21515.00		22000.00		29480.00	
Temperature (Celsius) (C)		14.00		15.00		14.80	
Turbidity (NTU)		1.42		2.74		8.27	
pH ()		7.14		6.50		7.12	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-5D2-1R-100518	GW-5D2-1R-100518-(20) _DC	GW-5D5-1-101518	GW-5D5-1-101518-(20)	GW-5D7-1R-100518	GW-5D7-1R-100518-(20)
	Site ID:	5D2-1R	5D2-1R	5D5-1	5D5-1	5D7-1R	5D7-1R
	Sample Date:	10/05/18	10/05/18	10/15/18	10/15/18	10/05/18	10/05/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			2815.00		63200.00		86100.00
Copper							
Lead and Compounds							
Mercury (elemental)							
Nickel Soluble Salts							
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0.23		0.07		0.08	
Oxidation Reduction Potential (ORP) (mV)		-224.20		152.70		-152.50	
Specific Conductivity (uS/cm)		4896.00		8515.00		1108.00	
Temperature (Celsius) (C)		18.00		18.70		18.80	
Turbidity (NTU)		3.86		7.56		5.23	
pH ()		10.81		7.01		7.49	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-5E1-1-101518	GW-5E1-1-101518-(20)	GW-5E2-1-101518	GW-5E2-1-101518-(20)_ DC	GW-5E4-1-100518	GW-5E4-1-100518-(20)
	Site ID:	5E1-1	5E1-1	5E2-1	5E2-1	5E4-1	5E4-1
	Sample Date:	10/15/18	10/15/18	10/15/18	10/15/18	10/05/18	10/05/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			599.00		290.50		143000.00
Copper							
Lead and Compounds							
Mercury (elemental)							
Nickel Soluble Salts							
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0.32		0.11		0.04	
Oxidation Reduction Potential (ORP) (mV)		-51.30		-96.20		-218.40	
Specific Conductivity (uS/cm)		556.00		2190.00		6523.00	
Temperature (Celsius) (C)		18.40		19.50		18.20	
Turbidity (NTU)		4.90		7.62		1.74	
pH ()		6.40		7.21		8.83	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-5E8-1-101518	GW-5E8-1-101518-(20)	GW-6D14-1-100418	GW-6D14-1-100418-(20)	GW-6D25-1-100418	GW-6D25-1-100418-(20)
	Site ID:	5E8-1	5E8-1	6D14-1	6D14-1	6D25-1	6D25-1
	Sample Date:	10/15/18	10/15/18	10/04/18	10/04/18	10/04/18	10/04/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			791.00		43600.00		7170.00
Copper							
Lead and Compounds							
Mercury (elemental)							
Nickel Soluble Salts							
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0.45		0.10		0.07	
Oxidation Reduction Potential (ORP) (mV)		-86.20		-132.60		-216.70	
Specific Conductivity (uS/cm)		534.60		18140.00		2136.00	
Temperature (Celsius) (C)		18.80		16.20		18.60	
Turbidity (NTU)		6.30		3.49		7.00	
pH ()		7.50		6.01		8.70	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-6D25-2-100418	GW-6D25-2-100418-(20)	GW-6E1-1-100418	GW-6E1-1-100418-(20)	GW-6E12-2-100318	GW-6E12-2-100318-(20)
	Site ID:	6D25-2	6D25-2	6E1-1	6E1-1	6E12-2	6E12-2
	Sample Date:	10/04/18	10/04/18	10/04/18	10/04/18	10/03/18	10/03/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			1380.00		43500.00		7190.00
Copper							
Lead and Compounds							
Mercury (elemental)							
Nickel Soluble Salts							
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0		0.08		0	
Oxidation Reduction Potential (ORP) (mV)		-221.10		-112.30		-193.40	
Specific Conductivity (uS/cm)		4785.00		1057.00		47963.00	
Temperature (Celsius) (C)		15.10		17.40		13.90	
Turbidity (NTU)		12.30		1.12		7.04	
pH ()		9.52		6.88		6.66	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-6E2-1-101618	GW-6E2-1-101618-(20)	GW-6E3-2-100918	GW-6E3-2-100918-(20)	GW-6E5-1-100518	GW-6E5-1-100518-(20)
	Site ID:	6E2-1	6E2-1	6E3-2	6E3-2	6E5-1	6E5-1
	Sample Date:	10/16/18	10/16/18	10/09/18	10/09/18	10/05/18	10/05/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			11100.00		66000.00		29800.00
Copper					0.46 U		
Lead and Compounds					0.15 U		
Mercury (elemental)					0.0003 J		
Nickel Soluble Salts					28.70		
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0.20		1.01		1.31	
Oxidation Reduction Potential (ORP) (mV)		-26.20		-47.00		-101.50	
Specific Conductivity (uS/cm)		5946.00		32194.00		4433.00	
Temperature (Celsius) (C)		15.70		13.80		19.90	
Turbidity (NTU)		22.20		151.00		6.10	
pH ()		6.68		6.96		7.08	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-6E6-1-100418	GW-6E6-1-100418-(20)	GW-6E7-3-101518	GW-6E7-3-101518-(20)	GW-6E9-2-100418	GW-6E9-2-100418-(20)
	Site ID:	6E6-1	6E6-1	6E7-3	6E7-3	6E9-2	6E9-2
	Sample Date:	10/04/18	10/04/18	10/15/18	10/15/18	10/04/18	10/04/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			3640.00		243.00		2610.00
Copper							
Lead and Compounds							
Mercury (elemental)							
Nickel Soluble Salts							
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0		0.12		0	
Oxidation Reduction Potential (ORP) (mV)		-348.50		-162.80		-211.30	
Specific Conductivity (uS/cm)		14217.00		3074.00		14709.00	
Temperature (Celsius) (C)		16.30		14.20		15.00	
Turbidity (NTU)		4.18		14.50		8.35	
pH ()		10.86		8.19		7.66	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-7E10-1-100318	GW-7E10-1-100318-(20)	GW-7E16-2-100418	GW-7E16-2-100418-(20)	GW-7E3-1-100418	GW-7E3-1-100418-(20)
	Site ID:	7E10-1	7E10-1	7E16-2	7E16-2	7E3-1	7E3-1
	Sample Date:	10/03/18	10/03/18	10/04/18	10/04/18	10/04/18	10/04/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			291.00		3640.00		9720.00
Copper							
Lead and Compounds							
Mercury (elemental)							
Nickel Soluble Salts							
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0.15		0.27		1.18	
Oxidation Reduction Potential (ORP) (mV)		-328.50		-126.00		-144.60	
Specific Conductivity (uS/cm)		11400.00		3053.00		5961.00	
Temperature (Celsius) (C)		16.60		17.50		16.40	
Turbidity (NTU)		1.26		2.10		1.50	
pH ()		10.05		7.20		7.89	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-7E4-2-101618	GW-7E4-2-101618-(20)	GW-7E6-2-100318	GW-7E6-2-100318-(20)	GW-7E7-2-100318	GW-7E7-2-100318-(20)
	Site ID:	7E4-2	7E4-2	7E6-2	7E6-2	7E7-2	7E7-2
	Sample Date:	10/16/18	10/16/18	10/03/18	10/03/18	10/03/18	10/03/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			151.00		138.00		59.70
Copper							
Lead and Compounds							
Mercury (elemental)							
Nickel Soluble Salts							
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0.05		0.12		0.13	
Oxidation Reduction Potential (ORP) (mV)		-294.70		-365.50		-216.10	
Specific Conductivity (uS/cm)		10715.00		7858.00		1742.00	
Temperature (Celsius) (C)		13.10		13.70		14.00	
Turbidity (NTU)		4.60		2.07		1.61	
pH ()		9.98		10.30		9.54	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-7E8-1-100318	GW-7E8-1-100318-(20)	GW-7E9-2-100318	GW-7E9-2-100318-(20)	GW-7F2-1-100318	GW-7F2-1-100318-(20)
	Site ID:	7E8-1	7E8-1	7E9-2	7E9-2	7F2-1	7F2-1
	Sample Date:	10/03/18	10/03/18	10/03/18	10/03/18	10/03/18	10/03/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			3610.00		59.60		86.30
Copper							
Lead and Compounds							
Mercury (elemental)							
Nickel Soluble Salts							
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0		2.36		0.35	
Oxidation Reduction Potential (ORP) (mV)		-432.60		-164.00		-97.50	
Specific Conductivity (uS/cm)		23890.00		8620.00		11000.00	
Temperature (Celsius) (C)		15.60		13.80		16.80	
Turbidity (NTU)		8.71		0.91		4.13	
pH ()		11.07		7.38		7.06	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

	Sample ID:	GW-7F3-1-100318	GW-7F3-1-100318-(20)	GW-7F4-1-100518	GW-7F4-1-100518-(20)	GW-8F1-1R-101518	GW-8F1-1R-101518-(20)
	Site ID:	7F3-1	7F3-1	7F4-1	7F4-1	8F1-1R	8F1-1R
	Sample Date:	10/03/18	10/03/18	10/05/18	10/05/18	10/15/18	10/15/18
Constituent	Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Dissolved Metals (ug/L)							
Arsenic, Inorganic			3340.00		192.00		6.92
Copper							
Lead and Compounds							
Mercury (elemental)							
Nickel Soluble Salts							
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0.23		0		0.69	
Oxidation Reduction Potential (ORP) (mV)		-254.30		-369.50		-145.80	
Specific Conductivity (uS/cm)		13768.00		54050.00		12600.00	
Temperature (Celsius) (C)		13.80		16.40		15.70	
Turbidity (NTU)		20.20		1.64		4.21	
pH ()		10.54		12.06		10.92	

Blank cells indicate that no analysis was performed.

Table G-6: 2018 Groundwater Results

Constituent	Sample ID:	GW-8G2-1-100218	GW-8G2-1-100218-(20)				
	Site ID:	8G2-1	8G2-1	//	//	//	//
	Sample Date:	10/02/18	10/02/18				
	Media:	Groundwater	Groundwater				
Dissolved Metals (ug/L)							
Arsenic, Inorganic			475.00				
Copper							
Lead and Compounds							
Mercury (elemental)							
Nickel Soluble Salts							
Field Parameters and/or Alkalinity							
Dissolved Oxygen (DO) (mg/L)		0.11					
Oxidation Reduction Potential (ORP) (mV)		-328.50					
Specific Conductivity (uS/cm)		29435.00					
Temperature (Celsius) (C)		16.90					
Turbidity (NTU)		3.20					
pH ()		11.38					

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID: 5	SO-PTC-001-091517-0-1.	SO-PTC-001-091517-1.5-2.5	SO-PTC-001-091517-10-11.5	SO-PTC-001-091517-11-5-13	SO-PTC-001-091517-11-5-13.5	SO-PTC-001-091517-13-15
	Site ID: PTC-001	PTC-001	PTC-001	PTC-001	PTC-001	PTC-001	PTC-001
	Sample Date: 09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media: Soil	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic						4.34 J	
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		25.70	22.40	5.00 U	7.00 U		7.00U
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-001-091517-0-1.	SO-PTC-001-091517-1.5-	SO-PTC-001-091517-10-	SO-PTC-001-091517-11.	SO-PTC-001-091517-11.	SO-PTC-001-091517-13
	Site ID:	5	2.5	11.5	5-13	5-13.5	-15
	Sample Date:	PTC-001	PTC-001	PTC-001	PTC-001	PTC-001	PTC-001
	Media:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids						66.50	
Conventionals (-W)							
pH						7.44	

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-001-091517-15-18.2	SO-PTC-001-091517-18.2-20	SO-PTC-001-091517-2.5-3.5	SO-PTC-001-091517-2.5-4.5	SO-PTC-001-091517-20.22.5	SO-PTC-001-091517-22.5-25
	Site ID:	PTC-001	PTC-001	PTC-001	PTC-001	PTC-001	PTC-001
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)					0.04 J		
Sulfate (mg/kg)					35.30		
Sulfide (mg/kg)					1.09 U		
Total Organic Carbon (%)					0.06 J		
pH ()							
Metals (mg/kg)							
Aluminum					7100.00		
Arsenic, Inorganic					2.64 J		
Iron					10200.00		
Manganese					64.50		
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		7.00 U	7.00 U	17.30		7.00 U	7.00U
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P					11.30 U		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-001-091517-15-18.2	SO-PTC-001-091517-18.2-20	SO-PTC-001-091517-2.5-3.5	SO-PTC-001-091517-2.5-4.5	SO-PTC-001-091517-20.22.5	SO-PTC-001-091517-22.5-25
	Site ID:	PTC-001		PTC-001		PTC-001	
	Sample Date:	09/15/17		09/15/17		09/15/17	
Constituent	Media:	Soil		Soil		Soil	
Conventionals (%-W)							
Total Carbon (Elemental + Organic)					0.11 J		
Total Solids					81.06		
Conventionals (-W)							
pH					7.11		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-001-091517-23.	SO-PTC-001-091517-25-28	SO-PTC-001-091517-28-30	SO-PTC-001-091517-30.4-31.3	SO-PTC-001-091517-31.5-33.5	SO-PTC-001-091517-33.5-35
	Site ID:	PTC-001	PTC-001	PTC-001	PTC-001	PTC-001	PTC-001
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)		0.23 J					
Sulfate (mg/kg)		259.00					
Sulfide (mg/kg)		1.26 U					
Total Organic Carbon (%)		0.16 J					
pH ()							
Metals (mg/kg)							
Aluminum		6230.00					
Arsenic, Inorganic		0.38 J				5.91 J	
Iron		10100.00					
Manganese		61.20					
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			7.00 U	7.00 U	7.00 U	7.00 U	7.00 U
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P		12.40 U					

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-001-091517-23.	SO-PTC-001-091517-25-28	SO-PTC-001-091517-28-30	SO-PTC-001-091517-30.4-31.3	SO-PTC-001-091517-31.5-33.5	SO-PTC-001-091517-33.5-35
	Site ID:	PTC-001	PTC-001	PTC-001	PTC-001	PTC-001	PTC-001
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)		0.23 J					
Total Solids		78.26				64.69	
Conventionals (-W)							
pH		7.78				7.92	

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-001-091517-5-8	SO-PTC-002-091217-0-2	SO-PTC-002-091217-10-11	SO-PTC-002-091217-11-12	SO-PTC-002-091217-12-15	SO-PTC-002-091217-15-17
	Site ID:	PTC-001	PTC-002	PTC-002	PTC-002	PTC-002	PTC-002
	Sample Date:	09/15/17	09/12/17	09/12/17	09/12/17	09/12/17	09/12/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		7.00 U	21.30	7.00 U	7.90	7.00 U	7.00U
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-001-091517-5-8	SO-PTC-002-091217-0-2	SO-PTC-002-091217-10-11	SO-PTC-002-091217-11-12	SO-PTC-002-091217-12-15	SO-PTC-002-091217-15-17
	Site ID:	PTC-001	PTC-002	PTC-002	PTC-002	PTC-002	PTC-002
	Sample Date:	09/15/17	09/12/17	09/12/17	09/12/17	09/12/17	09/12/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-002-091217-17-19	SO-PTC-002-091217-19-20	SO-PTC-002-091217-2-3-5	SO-PTC-002-091217-20-22.5	SO-PTC-002-091217-22-5-25	SO-PTC-002-091217-25-26
	Site ID:	PTC-002	PTC-002	PTC-002	PTC-002	PTC-002	PTC-002
	Sample Date:	09/12/17	09/12/17	09/12/17	09/12/17	09/12/17	09/12/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		7.00 U	7.00 U	34.20	7.00 U	7.00 U	7.00U
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-002-091217-17-19	SO-PTC-002-091217-19-20	SO-PTC-002-091217-2-3-5	SO-PTC-002-091217-20-22.5	SO-PTC-002-091217-22-5-25	SO-PTC-002-091217-25-26
	Site ID:	PTC-002	PTC-002	PTC-002	PTC-002	PTC-002	PTC-002
	Sample Date:	09/12/17	09/12/17	09/12/17	09/12/17	09/12/17	09/12/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID: 27.5 Site ID: PTC-002 Sample Date: 09/12/17 Media: Soil	SO-PTC-002-091217-26- 5-30 PTC-002 09/12/17 Soil	SO-PTC-002-091217-27- 32 PTC-002 09/12/17 Soil	SO-PTC-002-091217-31- 5-35 PTC-002 09/12/17 Soil	SO-PTC-002-091217-33- 37.5 PTC-002 09/12/17 Soil	SO-PTC-002-091217-35- .5-39 PTC-002 09/12/17 Soil	SO-PTC-002-091217-37
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic	7.00 U	7.00 U	7.00 U	7.00 U	7.00 U	7.00 U	7.00U
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-002-091217-26-27.5	SO-PTC-002-091217-27.5-30	SO-PTC-002-091217-31-32	SO-PTC-002-091217-33.5-35	SO-PTC-002-091217-35.5-37.5	SO-PTC-002-091217-37.5-39
	Site ID:	PTC-002	PTC-002	PTC-002	PTC-002	PTC-002	PTC-002
	Sample Date:	09/12/17	09/12/17	09/12/17	09/12/17	09/12/17	09/12/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-002-091217-39-40	SO-PTC-002-091217-5-7	SO-PTC-002-091217-7-9	SO-PTC-002-091217-9-10	SO-PTC-002-091317-13.0-15.0	SO-PTC-002-091317-2.0-4.0
	Site ID:	PTC-002	PTC-002	PTC-002	PTC-002	PTC-002	PTC-002
	Sample Date:	09/12/17	09/12/17	09/12/17	09/12/17	09/13/17	09/13/17
	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							0.23J
Sulfate (mg/kg)							11.60
Sulfide (mg/kg)							14.20
Total Organic Carbon (%)							0.09J
pH ()							
Metals (mg/kg)							
Aluminum							7020.00
Arsenic, Inorganic						7.47 J	1.57J
Iron							10900.00
Manganese							78.50
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		7.00 U	27.10	7.00 U	7.00 U		
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							1.43J

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-002-091217-39-40 PTC-002 09/12/17 Soil	SO-PTC-002-091217-5-7 PTC-002 09/12/17 Soil	SO-PTC-002-091217-7-9 PTC-002 09/12/17 Soil	SO-PTC-002-091217-9-10 PTC-002 09/12/17 Soil	SO-PTC-002-091317-13.0-15.0 PTC-002 09/13/17 Soil	SO-PTC-002-091317-2.0-4.0 PTC-002 09/13/17 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							0.23J
Total Solids						45.20	83.89
Conventionals (-W)							
pH						7.36	9.08

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-002-091317-23. 0-25.0	SO-PTC-002-091317-31. 0-33.0	SO-PTC-101-091417-0-2	SO-PTC-101-091417-10-13	SO-PTC-101-091417-13-15	SO-PTC-101-091417-13-15.0
	Site ID:	PTC-002	PTC-002	PTC-101	PTC-101	PTC-101	PTC-101
	Sample Date:	09/13/17	09/13/17	09/14/17	09/14/17	09/14/17	09/14/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)		0.10 J					
Sulfate (mg/kg)		11.10					
Sulfide (mg/kg)		1.02 U					
Total Organic Carbon (%)		0.11 J					
pH ()							
Metals (mg/kg)							
Aluminum		5920.00					
Arsenic, Inorganic		5.84 U	5.45 J				4880.00
Iron		8720.00					
Manganese		55.20					
Field XRF Metals (mg/kg)							
Arsenic, Inorganic				816.00	1407.00	10746.00	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P		5.45 UJ					

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: 0-25.0 Site ID: PTC-002 Sample Date: 09/13/17 Media: Soil	SO-PTC-002-091317-23. 0-33.0 PTC-002 09/13/17 Soil	SO-PTC-002-091317-31. 0-33.0 PTC-002 09/13/17 Soil	SO-PTC-101-091417-0-2 PTC-101 09/14/17 Soil	SO-PTC-101-091417-10-13 PTC-101 09/14/17 Soil	SO-PTC-101-091417-13-15 PTC-101 09/14/17 Soil	SO-PTC-101-091417-13-15.0 PTC-101 09/14/17 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)	0.10 J						
Total Solids	83.86	59.70					52.16
Conventionals (-W)							
pH	8.10	7.64					6.98

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-101-091417-13. 0-15.0-(10)	SO-PTC-101-091417-15- 17.5	SO-PTC-101-091417-17- 5-19.3	SO-PTC-101-091417-19- 3-20.3	SO-PTC-101-091417-19- 5-20	SO-PTC-101-091417-20 -22.5
	Site ID:	PTC-101	PTC-101	PTC-101	PTC-101	PTC-101	PTC-101
	Sample Date:	09/14/17	09/14/17	09/14/17	09/14/17	09/14/17	09/14/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic		87.50					
Barium		0.02					
Cadmium		0.10 U					
Chromium, Total		0.01 J					
Lead and Compounds		0.10 U					
Mercury (elemental)		0.00010 U					
Selenium		0.25 U					
Silver		0.02 U					
Conventionals							
Inorganic Carbon, Total (%)					0.18 J		
Sulfate (mg/kg)					142.00		
Sulfide (mg/kg)					2.65		
Total Organic Carbon (%)					0.39 J		
pH ()							
Metals (mg/kg)							
Aluminum					12500.00		
Arsenic, Inorganic					301.00		
Iron					18500.00		
Manganese					128.00		
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			1287.00	5599.00		1369.00	84.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P					12.60 U		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-101-091417-13.	SO-PTC-101-091417-15-	SO-PTC-101-091417-17.	SO-PTC-101-091417-19.	SO-PTC-101-091417-19.	SO-PTC-101-091417-20
	Site ID:	0-15.0-(10)	17.5	5-19.3	3-20.3	5-20	-22.5
	Sample Date:	PTC-101	PTC-101	PTC-101	PTC-101	PTC-101	PTC-101
	Media:	09/14/17	09/14/17	09/14/17	09/14/17	09/14/17	09/14/17
Constituent		Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)					0.57 J		
Total Solids					73.35		
Conventionals (-W)							
pH					6.40		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-101-091417-22.	SO-PTC-101-091417-25-	SO-PTC-101-091417-27.	SO-PTC-101-091417-30-	SO-PTC-101-091417-32.	SO-PTC-101-091417-36
	Site ID:	5-24.5	27.5	5-29	32.5	5-35	-38.5
	Sample Date:	PTC-101	PTC-101	PTC-101	PTC-101	PTC-101	PTC-101
	Media:	09/14/17	09/14/17	09/14/17	09/14/17	09/14/17	09/14/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventional							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		160.00	7.80	57.10	7.00 U	7.00 U	7.00U
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent Sample ID: Site ID: Sample Date: Media:	SO-PTC-101-091417-22. 5-24.5 PTC-101 09/14/17 Soil	SO-PTC-101-091417-25- 27.5 PTC-101 09/14/17 Soil	SO-PTC-101-091417-27. 5-29 PTC-101 09/14/17 Soil	SO-PTC-101-091417-30- 32.5 PTC-101 09/14/17 Soil	SO-PTC-101-091417-32. 5-35 PTC-101 09/14/17 Soil	SO-PTC-101-091417-36 -38.5 PTC-101 09/14/17 Soil
Conventionals (%-W)						
Total Carbon (Elemental + Organic)						
Total Solids						
Conventionals (-W)						
pH						

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-101-091417-36.	SO-PTC-101-091417-38.	SO-PTC-101-091417-40-	SO-PTC-101-091417-41.	SO-PTC-101-091417-44-	SO-PTC-101-091417-6-
	Site ID:	0-38.0	5-40	41.6	6-44	45	8.2
	Sample Date:	PTC-101	PTC-101	PTC-101	PTC-101	PTC-101	PTC-101
	Media:	09/14/17	09/14/17	09/14/17	09/14/17	09/14/17	09/14/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic		5.47 J					
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			7.00 U	7.00 U	7.00 U	7.00 U	3160.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-101-091417-36.	SO-PTC-101-091417-38.	SO-PTC-101-091417-40-	SO-PTC-101-091417-41.	SO-PTC-101-091417-44-	SO-PTC-101-091417-6-
	Site ID:	0-38.0	5-40	41.6	6-44	45	8.2
	Sample Date:	PTC-101	PTC-101	PTC-101	PTC-101	PTC-101	PTC-101
	Media:	09/14/17	09/14/17	09/14/17	09/14/17	09/14/17	09/14/17
Constituent		Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids		59.34					
Conventionals (-W)							
pH		7.09					

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-101-091417-8.2-10.2	SO-PTC-101-091417-8.2-10.2-(10)	SO-PTC-101-091417-8.2-8.5	SO-PTC-101-091417-8.5-10	SO-PTC-102-092118-11-12	SO-PTC-102-092118-12
	Site ID:	PTC-101	PTC-101	PTC-101	PTC-101	PTC-102	PTC-102
	Sample Date:	09/14/17	09/14/17	09/14/17	09/14/17	09/21/18	09/21/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic			10.10				
Barium			0.03				
Cadmium			0.06				
Chromium, Total			0.008 J				
Lead and Compounds			0.10 U				
Mercury (elemental)			0.00010 U				
Selenium			0.25 U				
Silver			0.02 U				
Conventionals							
Inorganic Carbon, Total (%)		0.13 J					
Sulfate (mg/kg)		41.20					
Sulfide (mg/kg)		1.19 U					
Total Organic Carbon (%)		0.14 J					
pH ()							
Metals (mg/kg)							
Aluminum		6760.00					
Arsenic, Inorganic		786.00					
Iron		9390.00					
Manganese		63.10					
Field XRF Metals (mg/kg)							
Arsenic, Inorganic				5479.00	1057.00	1583.75	5313.25
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P		10.90 U					

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-101-091417-8.2-10.2	SO-PTC-101-091417-8.2-10.2-(10)	SO-PTC-101-091417-8.2-8.5	SO-PTC-101-091417-8.5-10	SO-PTC-102-092118-11-12	SO-PTC-102-092118-12
	Site ID:	PTC-101	PTC-101	PTC-101	PTC-101	PTC-102	PTC-102
	Sample Date:	09/14/17	09/14/17	09/14/17	09/14/17	09/21/18	09/21/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)		0.13 J					
Total Solids		82.39					
Conventionals (-W)							
pH		7.64					

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-102-092118-14.	SO-PTC-102-092118-14.	SO-PTC-102-092118-16-17	SO-PTC-102-092118-18.	SO-PTC-102-092118-2-3	SO-PTC-102-092118-6-7
	Site ID:	5-15.0	5-15.0-(10)	PTC-102	PTC-102	PTC-102	PTC-102
	Sample Date:	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic			239.00				
Barium			0.29 U				
Cadmium			0.22				
Chromium, Total			0.02 J				
Lead and Compounds			0.01				
Mercury (elemental)			0.0003				
Selenium			0.08				
Silver			0.004 U				
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic		9770.00					
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		12873.50		11393.50	1954.25	194.75	10555.75
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent Sample ID: Site ID: Sample Date: Media:	SO-PTC-102-092118-14. 5-15.0 PTC-102 09/21/18 Soil	SO-PTC-102-092118-14. 5-15.0-(10) PTC-102 09/21/18 Soil	SO-PTC-102-092118-16- 17 PTC-102 09/21/18 Soil	SO-PTC-102-092118-18. 5-19 PTC-102 09/21/18 Soil	SO-PTC-102-092118-2-3 7 PTC-102 09/21/18 Soil	SO-PTC-102-092118-6- 7 PTC-102 09/21/18 Soil
Conventionals (%-W)						
Total Carbon (Elemental + Organic)						
Total Solids						
Conventionals (-W)						
pH	8.16					

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-102-092118-7.5-8	SO-PTC-102-092118-7.5-8.5	SO-PTC-102-092118-7.5-8.5-(10)	SO-PTC-102-092118-8-8-5	SO-PTC-102-092118-9-10	SO-PTC-103-092118-1.5-2.5
	Site ID:	PTC-102	PTC-102	PTC-102	PTC-102	PTC-102	PTC-103
	Sample Date:	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic				124.00			
Barium				0.18 U			
Cadmium				0.40			
Chromium, Total				0.005 J			
Lead and Compounds				1.86			
Mercury (elemental)				0.02			
Selenium				0.04			
Silver				0.002 U			
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic			165000.00				
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		100000.00 >			100000.00 >	20687.25	2938.25
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-102-092118-7.5-8	SO-PTC-102-092118-7.5-8.5	SO-PTC-102-092118-7.5-8.5-(10)	SO-PTC-102-092118-8-8.5	SO-PTC-102-092118-9-10	SO-PTC-103-092118-1.5-2.5
	Site ID:	PTC-102	PTC-102	PTC-102	PTC-102	PTC-102	PTC-103
	Sample Date:	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH			7.72				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-103-092118-11-12	SO-PTC-103-092118-12-8-13.8	SO-PTC-103-092118-12-8-13.8-(10)	SO-PTC-103-092118-15-16	SO-PTC-103-092118-17-18	SO-PTC-103-092118-19-20
	Site ID:	PTC-103	PTC-103	PTC-103	PTC-103	PTC-103	PTC-103
	Sample Date:	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic				194.00			
Barium				0.14 U			
Cadmium				0.19			
Chromium, Total				0.005			
Lead and Compounds				0.02 J			
Mercury (elemental)				0.00004 J			
Selenium				0.08			
Silver				0.004 U			
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic			5820.00				
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		304.25	9934.75		5504.25	1434.25	214.50
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-103-092118-11-12	SO-PTC-103-092118-12-8-13.8	SO-PTC-103-092118-12-8-13.8-(10)	SO-PTC-103-092118-15-16	SO-PTC-103-092118-17-18	SO-PTC-103-092118-19-20
	Site ID:	PTC-103	PTC-103	PTC-103	PTC-103	PTC-103	PTC-103
	Sample Date:	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH			8.54				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-103-092118-4-5	SO-PTC-103-092118-6-7	SO-PTC-103-092118-7.5-8.5	SO-PTC-103-092118-7.5-8.5-(10)	SO-PTC-104-092018-10-11	SO-PTC-104-092018-13.4-13.9
	Site ID:	PTC-103	PTC-103	PTC-103	PTC-103	PTC-104	PTC-104
	Sample Date:	09/21/18	09/21/18	09/21/18	09/21/18	09/20/18	09/20/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic					45.50		
Barium					0.12 U		
Cadmium					0.04		
Chromium, Total					0.002		
Lead and Compounds					0.02 J		
Mercury (elemental)					0.00004 J		
Selenium					0.04		
Silver					0.002 U		
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic				1500.00			902.00
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		753.00	2097.25	5228.50		1148.00	2066.75
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-103-092118-4-5	SO-PTC-103-092118-6-7	SO-PTC-103-092118-7.5-8.5	SO-PTC-103-092118-7.5-8.5-(10)	SO-PTC-104-092018-10-11	SO-PTC-104-092018-13.4-13.9
	Site ID:	PTC-103	PTC-103	PTC-103	PTC-103	PTC-104	PTC-104
	Sample Date:	09/21/18	09/21/18	09/21/18	09/21/18	09/20/18	09/20/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH				7.00			8.58

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-104-092018-13-4-13.9-(10)	SO-PTC-104-092018-14-2-14.7	SO-PTC-104-092018-14-2-14.7-(10)	SO-PTC-104-092018-16-17	SO-PTC-104-092018-18-19	SO-PTC-104-092018-2-2.5
	Site ID:	PTC-104	PTC-104	PTC-104	PTC-104	PTC-104	PTC-104
	Sample Date:	09/20/18	09/20/18	09/20/18	09/20/18	09/20/18	09/20/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic		2.72		198.00			
Barium		0.04		0.03 J			
Cadmium		0.004 U		0.10			
Chromium, Total		0.003 J		0.03 J			
Lead and Compounds		0.02 J		0.01 U			
Mercury (elemental)		0.00002 J		0.00005 J			
Selenium		0.08 U		0.09 U			
Silver		0.002 U		0.004 U			
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic			8260.00				
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			9763.00		4274.25	848.50	669.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent Sample ID: Site ID: Sample Date: Media:	SO-PTC-104-092018-13. 4-13.9-(10) PTC-104 09/20/18 Soil	SO-PTC-104-092018-14. 2-14.7 PTC-104 09/20/18 Soil	SO-PTC-104-092018-14. 2-14.7-(10) PTC-104 09/20/18 Soil	SO-PTC-104-092018-16- 17 PTC-104 09/20/18 Soil	SO-PTC-104-092018-18- 19 PTC-104 09/20/18 Soil	SO-PTC-104-092018-2- 2.5 PTC-104 09/20/18 Soil
Conventionals (%-W)						
Total Carbon (Elemental + Organic)						
Total Solids						
Conventionals (-W)						
pH		8.70				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID: 5	SO-PTC-104-092018-5-5.	SO-PTC-104-092018-7-7.	SO-PTC-105-092418-1-2	SO-PTC-105-092418-11-12	SO-PTC-105-092418-13-14	SO-PTC-105-092418-13-14.0-14.0
	Site ID: PTC-104	PTC-104	PTC-104	PTC-105	PTC-105	PTC-105	PTC-105
	Sample Date: 09/20/18	09/20/18	09/20/18	09/24/18	09/24/18	09/24/18	09/24/18
Constituent	Media: Soil	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							7940.00
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic	639.50	1715.25	35.00	459.25	11366.50		
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-104-092018-5-5.	SO-PTC-104-092018-7-7.	SO-PTC-105-092418-1-2	SO-PTC-105-092418-11-12	SO-PTC-105-092418-13-14	SO-PTC-105-092418-13-14.0-14.0
	Site ID:	PTC-104	PTC-104	PTC-105	PTC-105	PTC-105	PTC-105
	Sample Date:	09/20/18	09/20/18	09/24/18	09/24/18	09/24/18	09/24/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							7.28

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-105-092418-13. 0-14.0-(10)	SO-PTC-105-092418-16- 17	SO-PTC-105-092418-18- 19	SO-PTC-105-092418-3-4	SO-PTC-105-092418-6-7	SO-PTC-105-092418-8- 0-9.0-(10)_DC
	Site ID:	PTC-105	PTC-105	PTC-105	PTC-105	PTC-105	PTC-105
	Sample Date:	09/24/18	09/24/18	09/24/18	09/24/18	09/24/18	09/24/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic		46.80					4.76
Barium		0.08 U					0.14U
Cadmium		0.04					0.01U
Chromium, Total		0.01 J					0.008J
Lead and Compounds		0.007 U					0.007U
Mercury (elemental)		0.00002 J					0.0002
Selenium		0.04 U					0.04U
Silver		0.002 U					0.002U
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			957.75	18.50	232.50	924.75	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-105-092418-13. 0-14.0-(10) PTC-105 09/24/18 Soil	SO-PTC-105-092418-16- 17 PTC-105 09/24/18 Soil	SO-PTC-105-092418-18- 19 PTC-105 09/24/18 Soil	SO-PTC-105-092418-3-4 PTC-105 09/24/18 Soil	SO-PTC-105-092418-6-7 PTC-105 09/24/18 Soil	SO-PTC-105-092418-8. 0-9.0-(10)_DC PTC-105 09/24/18 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-105-092418-8.0-9.0_DC	SO-PTC-106-092418-11-12	SO-PTC-106-092418-12-6-12.9	SO-PTC-106-092418-13-0-14.0	SO-PTC-106-092418-13-0-14.0-(10)	SO-PTC-106-092418-2-2.5
	Site ID:	PTC-105	PTC-106	PTC-106	PTC-106	PTC-106	PTC-106
	Sample Date:	09/24/18	09/24/18	09/24/18	09/24/18	09/24/18	09/24/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic						11.70	
Barium						0.11 U	
Cadmium						0.02	
Chromium, Total						0.02 J	
Lead and Compounds						0.007 U	
Mercury (elemental)						0.000007 U	
Selenium						0.04 U	
Silver						0.002 U	
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic		1130.00			4690.00		
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		995.50	713.00	2661.00	6033.75		510.50
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-105-092418-8.0-9.0_DC	SO-PTC-106-092418-11-12	SO-PTC-106-092418-12.6-12.9	SO-PTC-106-092418-13.0-14.0	SO-PTC-106-092418-13.0-14.0-(10)	SO-PTC-106-092418-2.5
	Site ID:	PTC-105	PTC-106	PTC-106	PTC-106	PTC-106	PTC-106
	Sample Date:	09/24/18	09/24/18	09/24/18	09/24/18	09/24/18	09/24/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH		9.92			6.01		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-106-092418-5-6	SO-PTC-106-092418-7.0-8.0	SO-PTC-106-092418-7.0-8.0-(10)	SO-PTC-107-092418-1.5-2	SO-PTC-107-092418-10-11	SO-PTC-107-092418-11
	Site ID:	PTC-106	PTC-106	PTC-106	PTC-107	PTC-107	PTC-107
	Sample Date:	09/24/18	09/24/18	09/24/18	09/24/18	09/24/18	09/24/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic				4.61			
Barium				0.10 U			
Cadmium				0.02			
Chromium, Total				0.002 U			
Lead and Compounds				0.007 U			
Mercury (elemental)				0.000010 J			
Selenium				0.04 U			
Silver				0.002 U			
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic			1430.00				20.30
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		1386.00	1751.75		122.75	961.50	68.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-106-092418-5-6	SO-PTC-106-092418-7.0-8.0	SO-PTC-106-092418-7.0-8.0-(10)	SO-PTC-107-092418-1.5-2	SO-PTC-107-092418-10-11	SO-PTC-107-092418-11.0-12.0
	Site ID:	PTC-106	PTC-106	PTC-106	PTC-107	PTC-107	PTC-107
	Sample Date:	09/24/18	09/24/18	09/24/18	09/24/18	09/24/18	09/24/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH			8.00				6.92

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-107-092418-11-0-12.0-(10)	SO-PTC-107-092418-14-15	SO-PTC-107-092418-6.0-7.0	SO-PTC-107-092418-6.0-7.0-(10)	SO-PTC-108-092118-1.5-2	SO-PTC-108-092118-12.0-12.5
	Site ID:	PTC-107	PTC-107	PTC-107	PTC-107	PTC-108	PTC-108
	Sample Date:	09/24/18	09/24/18	09/24/18	09/24/18	09/21/18	09/21/18
	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic		0.42			4.03		
Barium		0.18 U			0.10 U		
Cadmium		0.004 U			0.009 U		
Chromium, Total		0.02 J			0.004 J		
Lead and Compounds		0.007 U			0.007 U		
Mercury (elemental)		0.000007 J			0.000007 U		
Selenium		0.04 U			0.04 U		
Silver		0.002 U			0.002 U		
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic				150.00			825.00
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			8.33	252.75		317.00	908.75
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-107-092418-11-0-12.0-(10)	SO-PTC-107-092418-14-15	SO-PTC-107-092418-6.0-7.0	SO-PTC-107-092418-6.0-7.0-(10)	SO-PTC-108-092118-1.5-2	SO-PTC-108-092118-12.0-12.5
	Site ID:	PTC-107	PTC-107	PTC-107	PTC-107	PTC-108	PTC-108
	Sample Date:	09/24/18	09/24/18	09/24/18	09/24/18	09/21/18	09/21/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH				6.95			8.93

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-108-092118-12.	SO-PTC-108-092118-13.	SO-PTC-108-092118-13.	SO-PTC-108-092118-15.	SO-PTC-108-092118-18-	SO-PTC-108-092118-3.
	Site ID:	0-12.5-(10)	2-14.2	2-14.2-(10)	5-16.5	18.5	5-4
	Sample Date:	PTC-108	PTC-108	PTC-108	PTC-108	PTC-108	PTC-108
	Media:	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic		15.80		13.40			
Barium		0.12 U		0.14 U			
Cadmium		0.02 U		0.01 U			
Chromium, Total		0.003 J		0.008 J			
Lead and Compounds		0.007		0.007			
Mercury (elemental)		0.000008 J		0.000007			
Selenium		0.04		0.04			
Silver		0.002 U		0.002 U			
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic			11000.00				
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			8944.25		2301.75	367.50	805.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-108-092118-12. 0-12.5-(10) PTC-108 09/21/18 Soil	SO-PTC-108-092118-13. 2-14.2 PTC-108 09/21/18 Soil	SO-PTC-108-092118-13. 2-14.2-(10) PTC-108 09/21/18 Soil	SO-PTC-108-092118-15. 5-16.5 PTC-108 09/21/18 Soil	SO-PTC-108-092118-18- 18.5 PTC-108 09/21/18 Soil	SO-PTC-108-092118-3. 5-4 PTC-108 09/21/18 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH			5.12				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-108-092118-5.5-6.5	SO-PTC-108-092118-8.5-9.5	SO-PTC-109-092418-11-12	SO-PTC-109-092418-13-0-14.0	SO-PTC-109-092418-13-0-14.0-(10)	SO-PTC-109-092418-16-17
	Site ID:	PTC-108	PTC-108	PTC-109	PTC-109	PTC-109	PTC-109
	Sample Date:	09/21/18	09/21/18	09/24/18	09/24/18	09/24/18	09/24/18
	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic						30.60	
Barium						0.11 U	
Cadmium						0.05	
Chromium, Total						0.002 U	
Lead and Compounds						0.007 U	
Mercury (elemental)						0.000007 U	
Selenium						0.04 U	
Silver						0.002 U	
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic					6340.00		
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		850.00	368.00	839.50	8372.25		1252.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-108-092118-5.5-6.5 PTC-108 09/21/18 Soil	SO-PTC-108-092118-8.5-9.5 PTC-108 09/21/18 Soil	SO-PTC-109-092418-11-12 PTC-109 09/24/18 Soil	SO-PTC-109-092418-13.0-14.0 PTC-109 09/24/18 Soil	SO-PTC-109-092418-13.0-14.0-(10) PTC-109 09/24/18 Soil	SO-PTC-109-092418-16-17 PTC-109 09/24/18 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH					4.94		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-109-092418-18-19	SO-PTC-109-092418-2-3	SO-PTC-109-092418-5.0-6.0	SO-PTC-109-092418-5.0-6.0-(10)	SO-PTC-109-092418-8-9	SO-PTC-110-091818-11-12
	Site ID:	PTC-109	PTC-109	PTC-109	PTC-109	PTC-109	PTC-110
	Sample Date:	09/24/18	09/24/18	09/24/18	09/24/18	09/24/18	09/18/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic					65.60		
Barium					0.10 U		
Cadmium					0.10		
Chromium, Total					0.007 J		
Lead and Compounds					0.007 U		
Mercury (elemental)					0.000007 U		
Selenium					0.04 U		
Silver					0.002 U		
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic				4700.00			295.00
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		97.50	275.00	981.75		114.00	202.25
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-109-092418-18-19 PTC-109 09/24/18 Soil	SO-PTC-109-092418-2-3 PTC-109 09/24/18 Soil	SO-PTC-109-092418-5.0-6.0 PTC-109 09/24/18 Soil	SO-PTC-109-092418-5.0-6.0-(10) PTC-109 09/24/18 Soil	SO-PTC-109-092418-8-9 PTC-109 09/24/18 Soil	SO-PTC-110-091818-11-12 PTC-110 09/18/18 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH				8.79			6.92

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-110-091818-11-12-(10)	SO-PTC-110-091818-14-5-15	SO-PTC-110-091818-16-17	SO-PTC-110-091818-16-17-(10)	SO-PTC-110-091818-19-20	SO-PTC-110-091818-2-2.5
	Site ID:	PTC-110	PTC-110	PTC-110	PTC-110	PTC-110	PTC-110
	Sample Date:	09/18/18	09/18/18	09/18/18	09/18/18	09/18/18	09/18/18
	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic		0.49			135.00		
Barium		0.02			0.03 J		
Cadmium		0.003 U			0.003 U		
Chromium, Total		0.002 U			0.02 J		
Lead and Compounds		0.009 J			0.01 U		
Mercury (elemental)		0.000007 U			0.00002 J		
Selenium		0.04 U			0.08 U		
Silver		0.002 U			0.005 J		
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic				9300.00			
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			2015.00	8700.50		3240.00	61.50
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-110-091818-11-12-(10) PTC-110 09/18/18 Soil	SO-PTC-110-091818-14-5-15 PTC-110 09/18/18 Soil	SO-PTC-110-091818-16-17 PTC-110 09/18/18 Soil	SO-PTC-110-091818-16-17-(10) PTC-110 09/18/18 Soil	SO-PTC-110-091818-19-20 PTC-110 09/18/18 Soil	SO-PTC-110-091818-2-2.5 PTC-110 09/18/18 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH				7.84			

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID: 5	SO-PTC-110-091818-5-5.	SO-PTC-110-091818-7.5-8	SO-PTC-111-091817-0-2	SO-PTC-111-091817-10-11.6	SO-PTC-111-091817-11-6-12.4	SO-PTC-111-091817-12-4-13.1
	Site ID: PTC-110	PTC-110	PTC-110	PTC-111	PTC-111	PTC-111	PTC-111
	Sample Date: 09/18/18	09/18/18	09/18/18	09/18/17	09/18/17	09/18/17	09/18/17
Constituent	Media: Soil	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		273.00	149.75	64.20	423.00	812.20	2621.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-110-091818-5-5.	SO-PTC-110-091818-7.5-8	SO-PTC-111-091817-0-2	SO-PTC-111-091817-10-11.6	SO-PTC-111-091817-11.6-12.4	SO-PTC-111-091817-12.4-13.1
	Site ID:	PTC-110	PTC-110	PTC-111	PTC-111	PTC-111	PTC-111
	Sample Date:	09/18/18	09/18/18	09/18/17	09/18/17	09/18/17	09/18/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-111-091817-13. 1-15	SO-PTC-111-091817-13. 1-15.0	SO-PTC-111-091817-13. 1-15.0-(10)	SO-PTC-111-091817-15- 17.9	SO-PTC-111-091817-17. 9-20	SO-PTC-111-091817-2- 4
	Site ID:	PTC-111	PTC-111	PTC-111	PTC-111	PTC-111	PTC-111
	Sample Date:	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic				72.30			
Barium				0.06 U			
Cadmium				0.02 J			
Chromium, Total				0.02 J			
Lead and Compounds				0.40 U			
Mercury (elemental)				0.00010 U			
Selenium				1.00 U			
Silver				0.06 U			
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic			10200.00				
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		13248.00			2379.00	55.30	126.10
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-111-091817-13. 1-15 PTC-111 09/18/17 Soil	SO-PTC-111-091817-13. 1-15.0 PTC-111 09/18/17 Soil	SO-PTC-111-091817-13. 1-15.0-(10) PTC-111 09/18/17 Soil	SO-PTC-111-091817-15- 17.9 PTC-111 09/18/17 Soil	SO-PTC-111-091817-17. 9-20 PTC-111 09/18/17 Soil	SO-PTC-111-091817-2- 4 PTC-111 09/18/17 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids			39.91				
Conventionals (-W)							
pH			8.54				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-111-091817-20-23.3	SO-PTC-111-091817-20-0-22.0	SO-PTC-111-091817-23-3-25.5	SO-PTC-111-091817-25-5-28	SO-PTC-111-091817-28-30	SO-PTC-111-091817-30-32.5
	Site ID:	PTC-111	PTC-111	PTC-111	PTC-111	PTC-111	PTC-111
	Sample Date:	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)			0.05 J				
Sulfate (mg/kg)			37.10				
Sulfide (mg/kg)			3.47				
Total Organic Carbon (%)			0.31 J				
pH ()							
Metals (mg/kg)							
Aluminum			8770.00				
Arsenic, Inorganic			39.40				
Iron			8500.00				
Manganese			59.60				
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		62.40		18.80	21.80	12.10	9.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P			5.99 UJ				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-111-091817-20-23.3	SO-PTC-111-091817-20.0-22.0	SO-PTC-111-091817-23.3-25.5	SO-PTC-111-091817-25.5-28	SO-PTC-111-091817-28.30	SO-PTC-111-091817-30.32.5
	Site ID:	PTC-111		PTC-111		PTC-111	
	Sample Date:	09/18/17		09/18/17		09/18/17	
Constituent	Media:	Soil		Soil		Soil	
Conventionals (%-W)							
Total Carbon (Elemental + Organic)			0.35 J				
Total Solids			81.10				
Conventionals (-W)							
pH			7.08				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID: Site ID: Sample Date: Media:	SO-PTC-111-091817-32. 5-35 PTC-111 09/18/17 Soil	SO-PTC-111-091817-35- 37.3 PTC-111 09/18/17 Soil	SO-PTC-111-091817-37. 3-39.5 PTC-111 09/18/17 Soil	SO-PTC-111-091817-37. 3-40 PTC-111 09/18/17 Soil	SO-PTC-111-091817-5-6 9 PTC-111 09/18/17 Soil	SO-PTC-111-091817-6- 9 PTC-111 09/18/17 Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic				4.03 J			
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		7.00 U	7.00 U		7.00 U	1307.00	1492.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-111-091817-32. 5-35 PTC-111 09/18/17 Soil	SO-PTC-111-091817-35- 37.3 PTC-111 09/18/17 Soil	SO-PTC-111-091817-37. 3-39.5 PTC-111 09/18/17 Soil	SO-PTC-111-091817-37. 3-40 PTC-111 09/18/17 Soil	SO-PTC-111-091817-5-6 9 PTC-111 09/18/17 Soil	SO-PTC-111-091817-6- 9 PTC-111 09/18/17 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids				58.51			
Conventionals (-W)							
pH				7.15			

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-111-091817-6.0-8.0	SO-PTC-111-091817-6.0-8.0-(10)	SO-PTC-112-092018-1.5-2.5	SO-PTC-112-092018-10.5-11.0	SO-PTC-112-092018-10.5-11.0-(10)	SO-PTC-112-092018-12.5-13
	Site ID:	PTC-111	PTC-111	PTC-112	PTC-112	PTC-112	PTC-112
	Sample Date:	09/18/17	09/18/17	09/20/18	09/20/18	09/20/18	09/20/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic			0.44			1.70	
Barium			0.02			0.009 J	
Cadmium			0.01 U			0.004 J	
Chromium, Total			0.003 J			0.002 U	
Lead and Compounds			0.10 U			0.007 U	
Mercury (elemental)			0.00010 U			0.000007 U	
Selenium			0.25 U			0.06 U	
Silver			0.02 U			0.002 U	
Conventionals							
Inorganic Carbon, Total (%)		0.04 UJ					
Sulfate (mg/kg)		35.00					
Sulfide (mg/kg)		1.15 U					
Total Organic Carbon (%)		0.07 J					
pH ()							
Metals (mg/kg)							
Aluminum		9740.00					
Arsenic, Inorganic		955.00			723.00		
Iron		10500.00					
Manganese		78.70					
Field XRF Metals (mg/kg)							
Arsenic, Inorganic				70.75	1346.50		601.50
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO ₄ }, as P		5.72 UJ					

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-111-091817-6.0-8.0	SO-PTC-111-091817-6.0-8.0-(10)	SO-PTC-112-092018-1.5-2.5	SO-PTC-112-092018-10.5-11.0	SO-PTC-112-092018-10.5-11.0-(10)	SO-PTC-112-092018-12.5-13
	Site ID:	PTC-111	PTC-111	PTC-112	PTC-112	PTC-112	PTC-112
	Sample Date:	09/18/17	09/18/17	09/20/18	09/20/18	09/20/18	09/20/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)		0.06 J					
Total Solids		82.43					
Conventionals (-W)							
pH		7.66			6.90		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-112-092018-13.	SO-PTC-112-092018-17.	SO-PTC-112-092018-17.	SO-PTC-112-092018-19-20	SO-PTC-112-092018-3.5-4	SO-PTC-112-092018-6.
	Site ID:	5-14.5	0-18.0	0-18.0-(10)	PTC-112	PTC-112	PTC-112
	Sample Date:	PTC-112	PTC-112	PTC-112	PTC-112	PTC-112	PTC-112
	Media:	09/20/18	09/20/18	09/20/18	09/20/18	09/20/18	09/20/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic				35.00			
Barium				0.03			
Cadmium				0.03			
Chromium, Total				0.005 J			
Lead and Compounds				0.007 U			
Mercury (elemental)				0.000007 U			
Selenium				0.09 U			
Silver				0.002 U			
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic			2530.00				
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		1367.00	5434.50		6.00 U	80.50	76.25
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent Sample ID: Site ID: Sample Date: Media:	SO-PTC-112-092018-13. 5-14.5 PTC-112 09/20/18 Soil	SO-PTC-112-092018-17. 0-18.0 PTC-112 09/20/18 Soil	SO-PTC-112-092018-17. 0-18.0-(10) PTC-112 09/20/18 Soil	SO-PTC-112-092018-19- 20 PTC-112 09/20/18 Soil	SO-PTC-112-092018-3.5- 4 PTC-112 09/20/18 Soil	SO-PTC-112-092018-6. 5-7.5 PTC-112 09/20/18 Soil
Conventionals (%-W)						
Total Carbon (Elemental + Organic)						
Total Solids						
Conventionals (-W)						
pH		6.96				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-112-092018-8-8-5	SO-PTC-113-092017-0-1-8	SO-PTC-113-092017-1-8-4	SO-PTC-113-092017-10-11.3	SO-PTC-113-092017-11-3-12.5	SO-PTC-113-092017-12-3-14.3
	Site ID:	PTC-112	PTC-113	PTC-113	PTC-113	PTC-113	PTC-113
	Sample Date:	09/20/18	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17
	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							6210.00
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		243.50	56.70	18.50	2834.00	7415.00	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-112-092018-8-8.	SO-PTC-113-092017-0-1.	SO-PTC-113-092017-1-8-	SO-PTC-113-092017-10-	SO-PTC-113-092017-11.	SO-PTC-113-092017-12
	Site ID:	5	8	4	11.3	3-12.5	.3-14.3
	Sample Date:	PTC-112	PTC-113	PTC-113	PTC-113	PTC-113	PTC-113
	Media:	09/20/18	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17
Constituent		Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							57.80
Conventionals (-W)							
pH							8.14

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-113-092017-12-3-14.3-(10)	SO-PTC-113-092017-12-5-15	SO-PTC-113-092017-15-17	SO-PTC-113-092017-17-18	SO-PTC-113-092017-18-20	SO-PTC-113-092017-18-20.0
	Site ID:	PTC-113	PTC-113	PTC-113	PTC-113	PTC-113	PTC-113
	Sample Date:	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic		39.90					
Barium		0.01 J					
Cadmium		0.02					
Chromium, Total		0.03 U					
Lead and Compounds		0.008 J					
Mercury (elemental)		0.00010 U					
Selenium		0.25 U					
Silver		0.02 U					
Conventionals							
Inorganic Carbon, Total (%)							0.28J
Sulfate (mg/kg)							338.00J
Sulfide (mg/kg)							4.64
Total Organic Carbon (%)							0.64J
pH ()							
Metals (mg/kg)							
Aluminum							9030.00
Arsenic, Inorganic							1430.00
Iron							10000.00
Manganese							51.30
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			4369.00	1863.00	2369.00	2395.00	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO ₄ }, as P							21.10J

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-113-092017-12. 3-14.3-(10)	SO-PTC-113-092017-12. 5-15	SO-PTC-113-092017-15- 17	SO-PTC-113-092017-17- 18	SO-PTC-113-092017-18- 20	SO-PTC-113-092017-18 .0-20.0
	Site ID:	PTC-113	PTC-113	PTC-113	PTC-113	PTC-113	PTC-113
	Sample Date:	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							0.92J
Total Solids							72.08
Conventionals (-W)							
pH							7.84

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-113-092017-23-25	SO-PTC-113-092017-25-27.5	SO-PTC-113-092017-27.5-30	SO-PTC-113-092017-30-32.5	SO-PTC-113-092017-32.5-35	SO-PTC-113-092017-35-37
	Site ID:	PTC-113	PTC-113	PTC-113	PTC-113	PTC-113	PTC-113
	Sample Date:	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		1596.00	241.50	152.20	9.00	11.20	21.80
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO ₄ }, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-113-092017-23-25	SO-PTC-113-092017-25-27.5	SO-PTC-113-092017-27.5-30	SO-PTC-113-092017-30-32.5	SO-PTC-113-092017-32.5-35	SO-PTC-113-092017-35-37
	Site ID:	PTC-113		PTC-113		PTC-113	
	Sample Date:	09/20/17		09/20/17		09/20/17	
Constituent	Media:	Soil		Soil		Soil	
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-113-092017-37-40	SO-PTC-113-092017-37-0-39.0	SO-PTC-113-092017-5-7-5	SO-PTC-113-092017-7.5-10	SO-PTC-113-092017-7.5-10.0-(10)	SO-PTC-113-092017-7.5-10.0_DC
	Site ID:	PTC-113	PTC-113	PTC-113	PTC-113	PTC-113	PTC-113
	Sample Date:	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic						0.35	
Barium						0.02 U	
Cadmium						0.0009 J	
Chromium, Total						0.04	
Lead and Compounds						0.10 U	
Mercury (elemental)						0.00010 U	
Selenium						0.25 U	
Silver						0.02 U	
Conventionals							
Inorganic Carbon, Total (%)							0.04J
Sulfate (mg/kg)							36.80J
Sulfide (mg/kg)							1.26J
Total Organic Carbon (%)							0.06J
pH ()							
Metals (mg/kg)							
Aluminum							7535.00
Arsenic, Inorganic			6.64 J				413.50
Iron							10150.00
Manganese							69.00
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		7.00 U		99.00	684.60		
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO ₄ }, as P							5.82J

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-113-092017-37-40 PTC-113 09/20/17 Soil	SO-PTC-113-092017-37.0-39.0 PTC-113 09/20/17 Soil	SO-PTC-113-092017-5-7.5 PTC-113 09/20/17 Soil	SO-PTC-113-092017-7.5-10 PTC-113 09/20/17 Soil	SO-PTC-113-092017-7.5-10.0-(10) PTC-113 09/20/17 Soil	SO-PTC-113-092017-7.5-10.0_DC PTC-113 09/20/17 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							0.07J
Total Solids			58.60				81.65
Conventionals (-W)							
pH			6.63				6.81

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-114-092018-1.5-2	SO-PTC-114-092018-10-10.5	SO-PTC-114-092018-13-3-13.8	SO-PTC-114-092018-13-3-13.8-(10)	SO-PTC-114-092018-15-15.5	SO-PTC-114-092018-18-18.5
	Site ID:	PTC-114	PTC-114	PTC-114	PTC-114	PTC-114	PTC-114
	Sample Date:	09/20/18	09/20/18	09/20/18	09/20/18	09/20/18	09/20/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic					8.43		
Barium					0.12 U		
Cadmium					0.007 U		
Chromium, Total					0.06		
Lead and Compounds					0.007 U		
Mercury (elemental)					0.000007 U		
Selenium					0.11 J		
Silver					0.002 U		
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic				2670.00			
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		75.25	52.75	6113.00		130.50	6.00U
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-114-092018-1.5- 2 PTC-114 09/20/18 Soil	SO-PTC-114-092018-10- 10.5 PTC-114 09/20/18 Soil	SO-PTC-114-092018-13. 3-13.8 PTC-114 09/20/18 Soil	SO-PTC-114-092018-13. 3-13.8-(10) PTC-114 09/20/18 Soil	SO-PTC-114-092018-15- 15.5 PTC-114 09/20/18 Soil	SO-PTC-114-092018-18 -18.5 PTC-114 09/20/18 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH				9.53			

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-114-092018-3.5-4	SO-PTC-114-092018-7.0-7.5	SO-PTC-114-092018-7.0-7.5-(10)	SO-PTC-115-091918-10-5-11	SO-PTC-115-091918-12-5-13	SO-PTC-115-091918-14.5-15.0
	Site ID:	PTC-114	PTC-114	PTC-114	PTC-115	PTC-115	PTC-115
	Sample Date:	09/20/18	09/20/18	09/20/18	09/19/18	09/19/18	09/19/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic				0.19 J			
Barium				0.03 U			
Cadmium				0.003 U			
Chromium, Total				0.002 U			
Lead and Compounds				0.007 U			
Mercury (elemental)				0.000007 U			
Selenium				0.09 J			
Silver				0.002 U			
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic			121.00				156.00
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		56.25	135.75		18.50	42.25	101.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-114-092018-3.5-4	SO-PTC-114-092018-7.0-7.5	SO-PTC-114-092018-7.0-7.5-(10)	SO-PTC-115-091918-10.5-11	SO-PTC-115-091918-12.5-13	SO-PTC-115-091918-14.5-15.0
	Site ID:	PTC-114	PTC-114	PTC-114	PTC-115	PTC-115	PTC-115
	Sample Date:	09/20/18	09/20/18	09/20/18	09/19/18	09/19/18	09/19/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH			10.40				11.10

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-115-091918-14-5-15.0-(10)	SO-PTC-115-091918-2-2-5	SO-PTC-115-091918-5-5-5	SO-PTC-115-091918-7-5-8.0	SO-PTC-115-091918-7-5-8.0-(10)	SO-PTC-116-091918-1-1.5
	Site ID:	PTC-115	PTC-115	PTC-115	PTC-115	PTC-115	PTC-116
	Sample Date:	09/19/18	09/19/18	09/19/18	09/19/18	09/19/18	09/19/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic		1.07				0.13 J	
Barium		0.03 U				0.04 U	
Cadmium		0.003 U				0.002 U	
Chromium, Total		0.008 J				0.003 J	
Lead and Compounds		0.007 U				0.007 U	
Mercury (elemental)		0.00004 J				0.000007 U	
Selenium		0.04 U				0.04 U	
Silver		0.002 U				0.002 U	
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic					35.50		
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			18.00	47.75	24.25		11.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-115-091918-14. 5-15.0-(10) PTC-115 09/19/18 Soil	SO-PTC-115-091918-2-2. 5 PTC-115 09/19/18 Soil	SO-PTC-115-091918-5-5. 5 PTC-115 09/19/18 Soil	SO-PTC-115-091918-7.5- 8.0 PTC-115 09/19/18 Soil	SO-PTC-115-091918-7.5- 8.0-(10) PTC-115 09/19/18 Soil	SO-PTC-116-091918-1- 1.5 PTC-116 09/19/18 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH					8.78		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID: Site ID: Sample Date: Media:	SO-PTC-116-091918-11-11.5 PTC-116 09/19/18 Soil	SO-PTC-116-091918-13-1-13.6 PTC-116 09/19/18 Soil	SO-PTC-116-091918-13-1-13.6-(10) PTC-116 09/19/18 Soil	SO-PTC-116-091918-16-16.5 PTC-116 09/19/18 Soil	SO-PTC-116-091918-18-18.5 PTC-116 09/19/18 Soil	SO-PTC-116-091918-5-5-6 PTC-116 09/19/18 Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic				8.52			
Barium				0.02			
Cadmium				0.003 U			
Chromium, Total				0.002 U			
Lead and Compounds				0.007 U			
Mercury (elemental)				0.000007 U			
Selenium				0.04 U			
Silver				0.002 U			
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic			7490.00				
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		122.25	3542.75		1314.75	1498.25	24.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-116-091918-11-11.5	SO-PTC-116-091918-13.1-13.6	SO-PTC-116-091918-13.1-13.6-(10)	SO-PTC-116-091918-16.16.5	SO-PTC-116-091918-18.18.5	SO-PTC-116-091918-5.5-6
	Site ID:	PTC-116	PTC-116	PTC-116	PTC-116	PTC-116	PTC-116
	Sample Date:	09/19/18	09/19/18	09/19/18	09/19/18	09/19/18	09/19/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH			10.40				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-116-091918-8.5-9.0	SO-PTC-116-091918-8.5-9.0-(10)	SO-PTC-117-092018-0.9-1.5	SO-PTC-117-092018-10.5-11.5	SO-PTC-117-092018-12-13	SO-PTC-117-092018-14.5-15.0
	Site ID:	PTC-116	PTC-116	PTC-117	PTC-117	PTC-117	PTC-117
	Sample Date:	09/19/18	09/19/18	09/20/18	09/20/18	09/20/18	09/20/18
	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic			0.24 J				
Barium			0.01 J				
Cadmium			0.003 U				
Chromium, Total			0.002 U				
Lead and Compounds			0.007 U				
Mercury (elemental)			0.000007 U				
Selenium			0.04 U				
Silver			0.002 U				
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic		77.10					4580.00
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		40.00		10.50	166.25	1898.75	6769.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-116-091918-8.5-9.0	SO-PTC-116-091918-8.5-9.0-(10)	SO-PTC-117-092018-0.9-1.5	SO-PTC-117-092018-10.5-11.5	SO-PTC-117-092018-12-13	SO-PTC-117-092018-14.5-15.0
	Site ID:	PTC-116	PTC-116	PTC-117	PTC-117	PTC-117	PTC-117
	Sample Date:	09/19/18	09/19/18	09/20/18	09/20/18	09/20/18	09/20/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH		7.05					7.69

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-117-092018-14. 5-15.0-(10)	SO-PTC-117-092018-6.4- 6.9-(10)_DC	SO-PTC-117-092018-6.4- 6.9_DC	SO-PTC-117-092018-9-9. 5	SO-PTC-118-092018-10. 5-11.0	SO-PTC-118-092018-10 .5-11.0-(10)
	Site ID:	PTC-117	PTC-117	PTC-117	PTC-117	PTC-118	PTC-118
	Sample Date:	09/20/18	09/20/18	09/20/18	09/20/18	09/20/18	09/20/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic		95.20	0.16 J				1.74
Barium		0.02	0.01 J				0.01J
Cadmium		0.05	0.0008 U				0.002J
Chromium, Total		0.03	0.01 J				0.006J
Lead and Compounds		0.007 U	0.007 U				0.007U
Mercury (elemental)		0.000007 U	0.000007 U				0.000007U
Selenium		0.08 U	0.07 U				0.12J
Silver		0.002 U	0.002 U				0.002J
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic				297.50		6200.00	
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic				287.75	67.50	4493.25	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-117-092018-14. 5-15.0-(10) PTC-117 09/20/18 Soil	SO-PTC-117-092018-6.4- 6.9-(10)_DC PTC-117 09/20/18 Soil	SO-PTC-117-092018-6.4- 6.9_DC PTC-117 09/20/18 Soil	SO-PTC-117-092018-9-9. 5 PTC-117 09/20/18 Soil	SO-PTC-118-092018-10. 5-11.0 PTC-118 09/20/18 Soil	SO-PTC-118-092018-10 .5-11.0-(10) PTC-118 09/20/18 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH			8.85			6.99	

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-118-092018-12-12.5	SO-PTC-118-092018-14-5-15	SO-PTC-118-092018-2-2-5	SO-PTC-118-092018-5-5-5	SO-PTC-118-092018-8-0-8.5	SO-PTC-118-092018-8-0-8.5-(10)
	Site ID:	PTC-118	PTC-118	PTC-118	PTC-118	PTC-118	PTC-118
	Sample Date:	09/20/18	09/20/18	09/20/18	09/20/18	09/20/18	09/20/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							0.43
Barium							0.03U
Cadmium							0.002U
Chromium, Total							0.002U
Lead and Compounds							0.007U
Mercury (elemental)							0.000007U
Selenium							0.06J
Silver							0.002U
Conventional							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic						70.90	
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		490.00	42.75	7.00	43.75	46.50	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-118-092018-12-12.5	SO-PTC-118-092018-14-5-15	SO-PTC-118-092018-2-2-5	SO-PTC-118-092018-5-5-5	SO-PTC-118-092018-8-0-8.5	SO-PTC-118-092018-8-0-8.5-(10)
	Site ID:	PTC-118	PTC-118	PTC-118	PTC-118	PTC-118	PTC-118
	Sample Date:	09/20/18	09/20/18	09/20/18	09/20/18	09/20/18	09/20/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH						10.10	

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID: 5	SO-PTC-119-091918-1-1.	SO-PTC-119-091918-11. 5-12.0	SO-PTC-119-091918-11. 5-12.0-(10)	SO-PTC-119-091918-14. 5-15	SO-PTC-119-091918-3.5- 4	SO-PTC-119-091918-6. 0-6.5
	Site ID: PTC-119		PTC-119	PTC-119	PTC-119	PTC-119	PTC-119
	Sample Date: 09/19/18		09/19/18	09/19/18	09/19/18	09/19/18	09/19/18
Constituent	Media: Soil		Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic				15.20			
Barium				0.04			
Cadmium				0.007 U			
Chromium, Total				0.002 U			
Lead and Compounds				0.007 U			
Mercury (elemental)				0.000007 U			
Selenium				0.04 U			
Silver				0.002 U			
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic			2860.00				590.00
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		60.25	2271.25		760.25	324.25	818.75
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-119-091918-1-1. 5 PTC-119 09/19/18 Soil	SO-PTC-119-091918-11. 5-12.0 PTC-119 09/19/18 Soil	SO-PTC-119-091918-11. 5-12.0-(10) PTC-119 09/19/18 Soil	SO-PTC-119-091918-14. 5-15 PTC-119 09/19/18 Soil	SO-PTC-119-091918-3.5- 4 PTC-119 09/19/18 Soil	SO-PTC-119-091918-6. 0-6.5 PTC-119 09/19/18 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH			7.31				8.02

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-119-091918-6.0-6.5-(10)	SO-PTC-119-091918-8.5-9	SO-PTC-120-092118-11.0-12.0	SO-PTC-120-092118-11.0-12.0-(10)	SO-PTC-120-092118-14-15	SO-PTC-120-092118-3-3.5
	Site ID:	PTC-119	PTC-119	PTC-120	PTC-120	PTC-120	PTC-120
	Sample Date:	09/19/18	09/19/18	09/21/18	09/21/18	09/21/18	09/21/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic		2.02			0.78		
Barium		0.02			0.10 U		
Cadmium		0.003 U			0.004 U		
Chromium, Total		0.04			0.004 J		
Lead and Compounds		0.007 U			0.007		
Mercury (elemental)		0.0001			0.000007		
Selenium		0.04 U			0.04		
Silver		0.002 U			0.002 U		
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic				3850.00			
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			391.00	4995.25		85.50	211.50
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-119-091918-6.0- 6.5-(10) PTC-119 09/19/18 Soil	SO-PTC-119-091918-8.5- 9 PTC-119 09/19/18 Soil	SO-PTC-120-092118-11. 0-12.0 PTC-120 09/21/18 Soil	SO-PTC-120-092118-11. 0-12.0-(10) PTC-120 09/21/18 Soil	SO-PTC-120-092118-14- 15 PTC-120 09/21/18 Soil	SO-PTC-120-092118-3- 3.5 PTC-120 09/21/18 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH				7.18			

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-120-092118-4-4-5	SO-PTC-120-092118-6-7	SO-PTC-120-092118-6-5-7	SO-PTC-120-092118-9-0-10.0	SO-PTC-120-092118-9-0-10.0-(10)	SO-PTC-121-091817-1-5-3.5
	Site ID:	PTC-120	PTC-120	PTC-120	PTC-120	PTC-120	PTC-121
	Sample Date:	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18	09/18/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic						4.17	
Barium						0.10 U	
Cadmium						0.005 U	
Chromium, Total						0.002	
Lead and Compounds						0.007	
Mercury (elemental)						0.000007 J	
Selenium						0.04	
Silver						0.002 U	
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic					765.00		
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		301.25	89.75	1000.25	661.25		285.90
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-120-092118-4-4.	SO-PTC-120-092118-6-7	SO-PTC-120-092118-6.5-7	SO-PTC-120-092118-9.0-10.0	SO-PTC-120-092118-9.0-10.0-(10)	SO-PTC-121-091817-1.5-3.5
	Site ID:	PTC-120	PTC-120	PTC-120	PTC-120	PTC-120	PTC-121
	Sample Date:	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18	09/18/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH					7.67		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-121-091817-10-11.2	SO-PTC-121-091817-11.0-13.0	SO-PTC-121-091817-11.0-13.0-(10)	SO-PTC-121-091817-11.2-13.1	SO-PTC-121-091817-13.1-15	SO-PTC-121-091817-13.1-15.0
	Site ID:	PTC-121	PTC-121	PTC-121	PTC-121	PTC-121	PTC-121
	Sample Date:	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic				5.87			
Barium				0.02			
Cadmium				0.01 U			
Chromium, Total				0.008 J			
Lead and Compounds				0.10 U			
Mercury (elemental)				0.00010 U			
Selenium				0.25 U			
Silver				0.02 U			
Conventionals							
Inorganic Carbon, Total (%)			0.43 J				
Sulfate (mg/kg)			96.10				
Sulfide (mg/kg)			3.12				
Total Organic Carbon (%)			1.83 J				
pH ()							
Metals (mg/kg)							
Aluminum			13300.00				
Arsenic, Inorganic			2140.00				1130.00
Iron			16600.00				
Manganese			90.10				
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		455.70			1739.00	1451.00	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P			7.63 UJ				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-121-091817-10-11.2 PTC-121 09/18/17 Soil	SO-PTC-121-091817-11.0-13.0 PTC-121 09/18/17 Soil	SO-PTC-121-091817-11.0-13.0-(10) PTC-121 09/18/17 Soil	SO-PTC-121-091817-11.2-13.1 PTC-121 09/18/17 Soil	SO-PTC-121-091817-13.1-15 PTC-121 09/18/17 Soil	SO-PTC-121-091817-13.1-15.0 PTC-121 09/18/17 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)			2.26 J				
Total Solids			80.65				70.79
Conventionals (-W)							
pH			5.28				8.03

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-121-091817-13. 1-15.0-(10)	SO-PTC-121-091817-15- 17	SO-PTC-121-091817-17- 18.2	SO-PTC-121-091817-18. 2-20	SO-PTC-121-091817-21. 3-22.4	SO-PTC-121-091817-22 .0-24.0
	Site ID:	PTC-121	PTC-121	PTC-121	PTC-121	PTC-121	PTC-121
	Sample Date:	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic		10.40					
Barium		0.02					
Cadmium		0.01 U					
Chromium, Total		0.006 J					
Lead and Compounds		0.10 U					
Mercury (elemental)		0.00010 U					
Selenium		0.25 U					
Silver		0.02 U					
Conventionals							
Inorganic Carbon, Total (%)							0.04JJ
Sulfate (mg/kg)							36.10
Sulfide (mg/kg)							1.23J
Total Organic Carbon (%)							0.05J
pH ()							
Metals (mg/kg)							
Aluminum							5830.00
Arsenic, Inorganic							37.60
Iron							10800.00
Manganese							76.20
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			1216.00	1503.00	1130.00	630.80	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							6.14JJ

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-121-091817-13. 1-15.0-(10) PTC-121 09/18/17 Soil	SO-PTC-121-091817-15- 17 PTC-121 09/18/17 Soil	SO-PTC-121-091817-17- 18.2 PTC-121 09/18/17 Soil	SO-PTC-121-091817-18. 2-20 PTC-121 09/18/17 Soil	SO-PTC-121-091817-21. 3-22.4 PTC-121 09/18/17 Soil	SO-PTC-121-091817-22 .0-24.0 PTC-121 09/18/17 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							0.06J
Total Solids							77.80
Conventionals (-W)							
pH							7.38

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-121-091817-22.	SO-PTC-121-091817-23.	SO-PTC-121-091817-25-	SO-PTC-121-091817-26.	SO-PTC-121-091817-28.	SO-PTC-121-091817-30
	Site ID:	4-23.7	7-25	26.7	7-28.2	2-30	-32.6
	Sample Date:	PTC-121	PTC-121	PTC-121	PTC-121	PTC-121	PTC-121
	Media:	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		214.60	7.00 U	7.00	7.00 U	7.00 U	7.00U
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent Sample ID: Site ID: Sample Date: Media:	SO-PTC-121-091817-22. 4-23.7 PTC-121 09/18/17 Soil	SO-PTC-121-091817-23. 7-25 PTC-121 09/18/17 Soil	SO-PTC-121-091817-25- 26.7 PTC-121 09/18/17 Soil	SO-PTC-121-091817-26. 7-28.2 PTC-121 09/18/17 Soil	SO-PTC-121-091817-28. 2-30 PTC-121 09/18/17 Soil	SO-PTC-121-091817-30 -32.6 PTC-121 09/18/17 Soil
Conventionals (%-W)						
Total Carbon (Elemental + Organic)						
Total Solids						
Conventionals (-W)						
pH						

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-121-091817-32.	SO-PTC-121-091817-33.	SO-PTC-121-091817-35-36	SO-PTC-121-091817-36-38.6	SO-PTC-121-091817-36.0-38.0	SO-PTC-121-091817-38 .6-40
	Site ID:	PTC-121	PTC-121	PTC-121	PTC-121	PTC-121	PTC-121
	Sample Date:	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic						4.09 J	
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		7.00 U	12.10	7.00 U	7.00 U		7.00U
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID:	SO-PTC-121-091817-32.	SO-PTC-121-091817-33.	SO-PTC-121-091817-35-	SO-PTC-121-091817-36-	SO-PTC-121-091817-36.	SO-PTC-121-091817-36.	SO-PTC-121-091817-38.
	Site ID:	6-33.7	7-35	36	38.6	0-38.0	.6-40	
	Sample Date:	PTC-121	PTC-121	PTC-121	PTC-121	PTC-121	PTC-121	PTC-121
	Media:	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17
		Soil	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)								
Total Carbon (Elemental + Organic)								
Total Solids						66.20		
Conventionals (-W)								
pH						7.59		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-121-091817-6.3-8.3	SO-PTC-121-091817-8.3-10	SO-PTC-122-091818-12-12.5	SO-PTC-122-091818-14-14.5	SO-PTC-122-091818-2-2-5	SO-PTC-122-091818-2-0-3.0
	Site ID:	PTC-121	PTC-121	PTC-122	PTC-122	PTC-122	PTC-122
	Sample Date:	09/18/17	09/18/17	09/18/18	09/18/18	09/18/18	09/18/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							353.00
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		236.90	364.30	154.50	8.75	423.50	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-121-091817-6.3-8.3 PTC-121 09/18/17 Soil	SO-PTC-121-091817-8.3-10 PTC-121 09/18/17 Soil	SO-PTC-122-091818-12-14.5 PTC-122 09/18/18 Soil	SO-PTC-122-091818-14-14.5 PTC-122 09/18/18 Soil	SO-PTC-122-091818-2-2-5 PTC-122 09/18/18 Soil	SO-PTC-122-091818-2-0-3.0 PTC-122 09/18/18 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							9.15

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-122-091818-2.0-3.0-(10)	SO-PTC-122-091818-5-5	SO-PTC-122-091818-7-7-5	SO-PTC-122-091818-9.5-10	SO-PTC-122-091818-9.5-10.5	SO-PTC-122-091818-9.5-10.5-(10)
	Site ID:	PTC-122	PTC-122	PTC-122	PTC-122	PTC-122	PTC-122
	Sample Date:	09/18/18	09/18/18	09/18/18	09/18/18	09/18/18	09/18/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic		4.23					7.55
Barium		0.02 U					0.03U
Cadmium		0.002 U					0.002U
Chromium, Total		0.007 U					0.005U
Lead and Compounds		0.009 J					0.007U
Mercury (elemental)		0.000007 U					0.000007U
Selenium		0.04 U					0.04U
Silver		0.002 U					0.002U
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic						3760.00	
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			177.00	190.75	4172.00		
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-122-091818-2.0- 3.0-(10) PTC-122 09/18/18 Soil	SO-PTC-122-091818-5-5. 5 PTC-122 09/18/18 Soil	SO-PTC-122-091818-7-7. 5 PTC-122 09/18/18 Soil	SO-PTC-122-091818-9.5- 10 PTC-122 09/18/18 Soil	SO-PTC-122-091818-9.5- 10.5 PTC-122 09/18/18 Soil	SO-PTC-122-091818-9. 5-10.5-(10) PTC-122 09/18/18 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH						8.07	

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-123-091718-11-12	SO-PTC-123-091718-13-0-14.0	SO-PTC-123-091718-13-0-14.0-(10)	SO-PTC-123-091718-14-15	SO-PTC-123-091718-2-2-6	SO-PTC-123-091718-3-5-4.0
	Site ID:	PTC-123	PTC-123	PTC-123	PTC-123	PTC-123	PTC-123
	Sample Date:	09/17/18	09/17/18	09/17/18	09/17/18	09/17/18	09/17/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic				8.80			
Barium				0.04 U			
Cadmium				0.002 U			
Chromium, Total				0.005 U			
Lead and Compounds				0.007 U			
Mercury (elemental)				0.000007 U			
Selenium				0.04 U			
Silver				0.002 U			
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic			4560.00				646.00
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		1336.50	10167.00		256.25	957.00	826.50
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-123-091718-11-12	SO-PTC-123-091718-13-0-14.0	SO-PTC-123-091718-13-0-14.0-(10)	SO-PTC-123-091718-14-15	SO-PTC-123-091718-2-2-6	SO-PTC-123-091718-3-5-4.0
	Site ID:	PTC-123	PTC-123	PTC-123	PTC-123	PTC-123	PTC-123
	Sample Date:	09/17/18	09/17/18	09/17/18	09/17/18	09/17/18	09/17/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH			5.35				8.55

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-123-091718-3.5-4.0-(10)	SO-PTC-123-091718-6.5-7.5	SO-PTC-123-091718-9-10	SO-PTC-124-091718-11-12	SO-PTC-124-091718-12.0-13.0	SO-PTC-124-091718-12.0-13.0-(10)
	Site ID:	PTC-123	PTC-123	PTC-123	PTC-124	PTC-124	PTC-124
	Sample Date:	09/17/18	09/17/18	09/17/18	09/17/18	09/17/18	09/17/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic		2.65					0.01U
Barium		0.07 U					0.07U
Cadmium		0.002 U					0.002U
Chromium, Total		0.005 U					0.010U
Lead and Compounds		0.007 U					0.008U
Mercury (elemental)		0.00002 J					0.000007U
Selenium		0.04 U					0.04U
Silver		0.002 U					0.002U
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic						23.70	
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			558.00	448.25	35.00		
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-123-091718-3.5- 4.0-(10) PTC-123 09/17/18 Soil	SO-PTC-123-091718-6.5- 7.5 PTC-123 09/17/18 Soil	SO-PTC-123-091718-9-1 0 PTC-123 09/17/18 Soil	SO-PTC-124-091718-11- 12 PTC-124 09/17/18 Soil	SO-PTC-124-091718-12. 0-13.0 PTC-124 09/17/18 Soil	SO-PTC-124-091718-12 .0-13.0-(10) PTC-124 09/17/18 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH						7.22	

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-124-091718-14-15	SO-PTC-124-091718-2.5-3.5	SO-PTC-124-091718-6-7	SO-PTC-124-091718-8.5-9.5	SO-PTC-124-091718-8.5-9.5-(10)	SO-PTC-124-091718-9-9-5
	Site ID:	PTC-124	PTC-124	PTC-124	PTC-124	PTC-124	PTC-124
	Sample Date:	09/17/18	09/17/18	09/17/18	09/17/18	09/17/18	09/17/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic						0.37	
Barium						0.03 U	
Cadmium						0.002 U	
Chromium, Total						0.005 U	
Lead and Compounds						0.007 U	
Mercury (elemental)						0.000007 U	
Selenium						0.04 U	
Silver						0.002 U	
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic					1210.00		
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		7.00	493.00	284.00			651.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent Sample ID: Site ID: Sample Date: Media:	SO-PTC-124-091718-14-15 PTC-124 09/17/18 Soil	SO-PTC-124-091718-2.5-3.5 PTC-124 09/17/18 Soil	SO-PTC-124-091718-6-7 PTC-124 09/17/18 Soil	SO-PTC-124-091718-8.5-9.5 PTC-124 09/17/18 Soil	SO-PTC-124-091718-8.5-9.5-(10) PTC-124 09/17/18 Soil	SO-PTC-124-091718-9-9-5 PTC-124 09/17/18 Soil
Conventionals (%-W)						
Total Carbon (Elemental + Organic)						
Total Solids						
Conventionals (-W)						
pH				5.91		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-125-091718-1.0-2.0	SO-PTC-125-091718-1.0-2.0-(10)	SO-PTC-125-091718-11-12	SO-PTC-125-091718-12-0-13.0	SO-PTC-125-091718-12-0-13.0-(10)	SO-PTC-125-091718-14-15
	Site ID:	PTC-125	PTC-125	PTC-125	PTC-125	PTC-125	PTC-125
	Sample Date:	09/17/18	09/17/18	09/17/18	09/17/18	09/17/18	09/17/18
	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic			0.03 J			0.01 U	
Barium			0.04 U			0.01 J	
Cadmium			0.002 U			0.003 U	
Chromium, Total			0.005 U			0.002 U	
Lead and Compounds			0.01 J			0.007 U	
Mercury (elemental)			0.000007 U			0.000007 U	
Selenium			0.04 U			0.04 U	
Silver			0.002 U			0.002 U	
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic		45.60			6.86 J		
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		35.00		7.00 U			8.00U
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-125-091718-1.0-2.0	SO-PTC-125-091718-1.0-2.0-(10)	SO-PTC-125-091718-11-12	SO-PTC-125-091718-12.0-13.0	SO-PTC-125-091718-12.0-13.0-(10)	SO-PTC-125-091718-14-15
	Site ID:	PTC-125	PTC-125	PTC-125	PTC-125	PTC-125	PTC-125
	Sample Date:	09/17/18	09/17/18	09/17/18	09/17/18	09/17/18	09/17/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH		7.90			7.11		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-125-091718-4-5	SO-PTC-125-091718-6.5-7.5	SO-PTC-126-091818-11-11.5	SO-PTC-126-091818-13-5-14	SO-PTC-126-091818-13-5-14-(10)	SO-PTC-126-091818-17-17.5
	Site ID:	PTC-125	PTC-125	PTC-126	PTC-126	PTC-126	PTC-126
	Sample Date:	09/17/18	09/17/18	09/18/18	09/18/18	09/18/18	09/18/18
	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic						0.40	
Barium						0.03	
Cadmium						0.003 U	
Chromium, Total						0.002 U	
Lead and Compounds						0.007 U	
Mercury (elemental)						0.000007 U	
Selenium						0.04 U	
Silver						0.002 U	
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic					423.00		
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		11.00	8.00	328.00	410.00		280.75
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-125-091718-4-5	SO-PTC-125-091718-6.5-7.5	SO-PTC-126-091818-11-11.5	SO-PTC-126-091818-13-5-14	SO-PTC-126-091818-13-5-14-(10)	SO-PTC-126-091818-17-17.5
	Site ID:	PTC-125	PTC-125	PTC-126	PTC-126	PTC-126	PTC-126
	Sample Date:	09/17/18	09/17/18	09/18/18	09/18/18	09/18/18	09/18/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH					5.62		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID: 5-20 Site ID: PTC-126 Sample Date: 09/18/18 Media: Soil	SO-PTC-126-091818-19.	SO-PTC-126-091818-2-2. 5 PTC-126 09/18/18 Soil	SO-PTC-126-091818-3-5- 4 PTC-126 09/18/18 Soil	SO-PTC-126-091818-6-6. 8 PTC-126 09/18/18 Soil	SO-PTC-126-091818-9-1 0 PTC-126 09/18/18 Soil	SO-PTC-126-091818-9- 10-(10) PTC-126 09/18/18 Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic							2.91
Barium							0.01J
Cadmium							0.004J
Chromium, Total							0.002J
Lead and Compounds							0.007J
Mercury (elemental)							0.000007J
Selenium							0.04J
Silver							0.002J
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic						307.00	
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		181.75	413.00	131.75	229.50	472.00	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-126-091818-19. 5-20 PTC-126 09/18/18 Soil	SO-PTC-126-091818-2-2. 5 PTC-126 09/18/18 Soil	SO-PTC-126-091818-3-5- 4 PTC-126 09/18/18 Soil	SO-PTC-126-091818-6-6. 8 PTC-126 09/18/18 Soil	SO-PTC-126-091818-9-1 0 PTC-126 09/18/18 Soil	SO-PTC-126-091818-9- 10-(10) PTC-126 09/18/18 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH						6.94	

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-127-091818-10-10.5	SO-PTC-127-091818-12-12.5	SO-PTC-127-091818-14-5-15	SO-PTC-127-091818-17-0-17.5	SO-PTC-127-091818-17-0-17.5-(10)	SO-PTC-127-091818-19-5-20
	Site ID:	PTC-127	PTC-127	PTC-127	PTC-127	PTC-127	PTC-127
	Sample Date:	09/18/18	09/18/18	09/18/18	09/18/18	09/18/18	09/18/18
	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic						38.30	
Barium						0.05	
Cadmium						0.004 U	
Chromium, Total						0.02 J	
Lead and Compounds						0.007 U	
Mercury (elemental)						0.000007 U	
Selenium						0.04 U	
Silver						0.002 U	
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic					984.00		
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		185.50	21.50	91.25	4008.25		9.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-127-091818-10-10.5	SO-PTC-127-091818-12-12.5	SO-PTC-127-091818-14-5-15	SO-PTC-127-091818-17-0-17.5	SO-PTC-127-091818-17-0-17.5-(10)	SO-PTC-127-091818-19-.5-20
	Site ID:	PTC-127	PTC-127	PTC-127	PTC-127	PTC-127	PTC-127
	Sample Date:	09/18/18	09/18/18	09/18/18	09/18/18	09/18/18	09/18/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH					8.67		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-127-091818-2-2-5	SO-PTC-127-091818-4-5-5	SO-PTC-127-091818-7-0-7.5	SO-PTC-127-091818-7-0-7.5-(10)	SO-PTC-128-091918-1.5-2	SO-PTC-128-091918-10.5-11
	Site ID:	PTC-127	PTC-127	PTC-127	PTC-127	PTC-128	PTC-128
	Sample Date:	09/18/18	09/18/18	09/18/18	09/18/18	09/19/18	09/19/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic					0.17 J		
Barium					0.008 J		
Cadmium					0.004 U		
Chromium, Total					0.002 U		
Lead and Compounds					0.007 U		
Mercury (elemental)					0.0002		
Selenium					0.04 U		
Silver					0.002 U		
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic				933.00			
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		77.50	54.25	208.75		20.25	36.25
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-127-091818-2-2. 5 PTC-127 09/18/18 Soil	SO-PTC-127-091818-4.5- 5 PTC-127 09/18/18 Soil	SO-PTC-127-091818-7.0- 7.5 PTC-127 09/18/18 Soil	SO-PTC-127-091818-7.0- 7.5-(10) PTC-127 09/18/18 Soil	SO-PTC-128-091918-1.5- 2 PTC-128 09/19/18 Soil	SO-PTC-128-091918-10 .5-11 PTC-128 09/19/18 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH				10.10			

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID: Site ID: Sample Date: Media:	SO-PTC-128-091918-12- 5-13 PTC-128 09/19/18 Soil	SO-PTC-128-091918-6.0- 6.5 PTC-128 09/19/18 Soil	SO-PTC-128-091918-6.0- 6.5-(10) PTC-128 09/19/18 Soil	SO-PTC-128-091918-7.5- 8.0 PTC-128 09/19/18 Soil	SO-PTC-128-091918-7.5- 8.0-(10) PTC-128 09/19/18 Soil	SO-PTC-129-092017-0- 2 PTC-129 09/20/17 Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic				3.43		1.13	
Barium				0.03		0.03	
Cadmium				0.005 U		0.003 U	
Chromium, Total				0.002 U		0.002 U	
Lead and Compounds				0.007 U		0.007 U	
Mercury (elemental)				0.000007 U		0.000007 U	
Selenium				0.04 U		0.04 U	
Silver				0.002 U		0.002 U	
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic			55.60		4060.00		
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		203.25	1688.00		1214.00		28.50
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-128-091918-12.5-13	SO-PTC-128-091918-6.0-6.5	SO-PTC-128-091918-6.0-6.5-(10)	SO-PTC-128-091918-7.5-8.0	SO-PTC-128-091918-7.5-8.0-(10)	SO-PTC-129-092017-0-2
	Site ID:	PTC-128	PTC-128	PTC-128	PTC-128	PTC-128	PTC-129
	Sample Date:	09/19/18	09/19/18	09/19/18	09/19/18	09/19/18	09/20/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH			8.00		8.30		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-129-092017-10-12	SO-PTC-129-092017-10-0-12.0	SO-PTC-129-092017-10-0-12.0-(10)	SO-PTC-129-092017-12-15	SO-PTC-129-092017-15-17.3	SO-PTC-129-092017-17-3-20
	Site ID:	PTC-129	PTC-129	PTC-129	PTC-129	PTC-129	PTC-129
	Sample Date:	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic				0.20 J			
Barium				0.01 J			
Cadmium				0.0008 J			
Chromium, Total				0.03 U			
Lead and Compounds				0.10 U			
Mercury (elemental)				0.00010 U			
Selenium				0.25 U			
Silver				0.02 U			
Conventionals							
Inorganic Carbon, Total (%)			0.05 J				
Sulfate (mg/kg)			358.00 J				
Sulfide (mg/kg)			1.09 U				
Total Organic Carbon (%)			0.05 J				
pH ()							
Metals (mg/kg)							
Aluminum			5250.00				
Arsenic, Inorganic			353.00				
Iron			13400.00				
Manganese			79.80				
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		1066.00			88.80	38.10	89.40
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P			5.39 UJ				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-129-092017-10-12	SO-PTC-129-092017-10-0-12.0	SO-PTC-129-092017-10-0-12.0-(10)	SO-PTC-129-092017-12-15	SO-PTC-129-092017-15-17.3	SO-PTC-129-092017-17-3-20
	Site ID:	PTC-129	PTC-129	PTC-129	PTC-129	PTC-129	PTC-129
	Sample Date:	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)			0.10 J				
Total Solids			87.67				
Conventionals (-W)							
pH			5.79				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-129-092017-17. 3-20.0	SO-PTC-129-092017-17. 3-20.0-(10)	SO-PTC-129-092017-2-4 PTC-129	SO-PTC-129-092017-20- 22.5	SO-PTC-129-092017-22. 5-25	SO-PTC-129-092017-22 .5-25.0
	Site ID:	PTC-129	PTC-129	PTC-129	PTC-129	PTC-129	PTC-129
	Sample Date:	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic			0.26				
Barium			0.01 J				
Cadmium			0.002 J				
Chromium, Total			0.03 U				
Lead and Compounds			0.10 U				
Mercury (elemental)			0.00010 U				
Selenium			0.25 U				
Silver			0.02 U				
Conventionals							
Inorganic Carbon, Total (%)							0.04JJ
Sulfate (mg/kg)							158.00J
Sulfide (mg/kg)							24.60
Total Organic Carbon (%)							0.19J
pH ()							
Metals (mg/kg)							
Aluminum							4720.00
Arsenic, Inorganic	66.10						239.00
Iron							7210.00
Manganese							49.60
Field XRF Metals (mg/kg)							
Arsenic, Inorganic				66.80	1816.00	657.30	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO ₄ }, as P							5.74JJ

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-129-092017-17.	SO-PTC-129-092017-17.	SO-PTC-129-092017-2-4	SO-PTC-129-092017-20-22.5	SO-PTC-129-092017-22.	SO-PTC-129-092017-22
	Site ID:	3-20.0	3-20.0-(10)			5-25	.5-25.0
	Sample Date:	PTC-129	PTC-129	PTC-129	PTC-129	PTC-129	PTC-129
	Media:	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17
Constituent		Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							0.20J
Total Solids		69.42					83.49
Conventionals (-W)							
pH		10.20					5.96

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-129-092017-25-27.2	SO-PTC-129-092017-27.2-28.6	SO-PTC-129-092017-28.6-30	SO-PTC-129-092017-33-35	SO-PTC-129-092017-35.8	SO-PTC-129-092017-35.8-36.5
	Site ID:	PTC-129		PTC-129	PTC-129	PTC-129	PTC-129
	Sample Date:	09/20/17		09/20/17	09/20/17	09/20/17	09/20/17
Constituent	Media:	Soil		Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							6.79J
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		101.40	82.20	11.80	19.20	7.00 U	7.00J
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-129-092017-25-27.2	SO-PTC-129-092017-27.2-28.6	SO-PTC-129-092017-28.6-30	SO-PTC-129-092017-33-35	SO-PTC-129-092017-35.8	SO-PTC-129-092017-35.8-36.5
	Site ID:	PTC-129		PTC-129	PTC-129	PTC-129	PTC-129
	Sample Date:	09/20/17		09/20/17	09/20/17	09/20/17	09/20/17
Constituent	Media:	Soil		Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							56.72
Conventionals (-W)							
pH							7.02

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-129-092017-36.	SO-PTC-129-092017-5.5-	SO-PTC-130-091918-1-1.	SO-PTC-130-091918-11.	SO-PTC-130-091918-11.	SO-PTC-130-091918-13
	Site ID:	5-40	8.2	5	0-11.5	0-11.5-(10)	-13.5
	Sample Date:	PTC-129	PTC-129	PTC-130	PTC-130	PTC-130	PTC-130
	Media:	09/20/17	09/20/17	09/19/18	09/19/18	09/19/18	09/19/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic						0.51	
Barium						0.03	
Cadmium						0.004 U	
Chromium, Total						0.002 U	
Lead and Compounds						0.007 U	
Mercury (elemental)						0.000007 U	
Selenium						0.04 U	
Silver						0.002 U	
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic					263.00		
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		7.00 U	511.60	13.00	267.00		100.50
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: 5-40 Site ID: PTC-129 Sample Date: 09/20/17 Media: Soil	SO-PTC-129-092017-36. 8.2 PTC-129 09/20/17 Soil	SO-PTC-129-092017-5.5- 5 PTC-130 09/19/18 Soil	SO-PTC-130-091918-1-1. 0-11.5 PTC-130 09/19/18 Soil	SO-PTC-130-091918-11. 0-11.5-(10) PTC-130 09/19/18 Soil	SO-PTC-130-091918-13 -13.5 PTC-130 09/19/18 Soil
Conventionals (%-W)						
Total Carbon (Elemental + Organic)						
Total Solids						
Conventionals (-W)						
pH				7.60		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-130-091918-15-5-16	SO-PTC-130-091918-17-5-18	SO-PTC-130-091918-7-7-5	SO-PTC-130-091918-9-5-10.0	SO-PTC-130-091918-9-5-10.0-(10)	SO-PTC-204-091917-0-1.5
	Site ID:	PTC-130	PTC-130	PTC-130	PTC-130	PTC-130	PTC-204
	Sample Date:	09/19/18	09/19/18	09/19/18	09/19/18	09/19/18	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic						0.27	
Barium						0.02	
Cadmium						0.003 U	
Chromium, Total						0.002 U	
Lead and Compounds						0.007 U	
Mercury (elemental)						0.000008 J	
Selenium						0.04 U	
Silver						0.002 U	
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()							
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic					129.00		
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		84.25	229.50	98.75	100.25		33.10
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO ₄ }, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-130-091918-15. 5-16 PTC-130 09/19/18 Soil	SO-PTC-130-091918-17. 5-18 PTC-130 09/19/18 Soil	SO-PTC-130-091918-7-7. 5 PTC-130 09/19/18 Soil	SO-PTC-130-091918-9.5- 10.0 PTC-130 09/19/18 Soil	SO-PTC-130-091918-9.5- 10.0-(10) PTC-130 09/19/18 Soil	SO-PTC-204-091917-0- 1.5 PTC-204 09/19/17 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH					6.34		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-0.5	SO-PTC-204-091917-1-1	SO-PTC-204-091917-1.5-5	SO-PTC-204-091917-10-10	SO-PTC-204-091917-10-12.8	SO-PTC-204-091917-10-12.8
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventional							
Inorganic Carbon, Total (%)							0.08J
Sulfate (mg/kg)							77.60
Sulfide (mg/kg)							5.66
Total Organic Carbon (%)							0.21J
pH ()		7.30	8.90		11.10		
Metals (mg/kg)							
Aluminum							7880.00
Arsenic, Inorganic							34.10
Iron							9240.00
Manganese							59.90
Field XRF Metals (mg/kg)							
Arsenic, Inorganic				7.00 U		40.30	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO ₄ }, as P							11.70

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-0.5-0.5	SO-PTC-204-091917-1-1	SO-PTC-204-091917-1.5-5	SO-PTC-204-091917-10-10	SO-PTC-204-091917-10-12.8	SO-PTC-204-091917-10-.8-12.8
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							0.29J
Total Solids							75.49
Conventionals (-W)							
pH							10.70

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-11-11	SO-PTC-204-091917-12-12	SO-PTC-204-091917-12-8-14.8	SO-PTC-204-091917-12-8-14.8-(10)	SO-PTC-204-091917-12-8-15	SO-PTC-204-091917-13-13
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic					0.46		
Barium					0.02		
Cadmium					0.01 U		
Chromium, Total					0.02 J		
Lead and Compounds					0.10 U		
Mercury (elemental)					0.00010 U		
Selenium					0.25 U		
Silver					0.02 U		
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		11.20	11.10				9.10
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic				38.10			
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic						63.90	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-11-11	SO-PTC-204-091917-12-12	SO-PTC-204-091917-12-8-14.8	SO-PTC-204-091917-12-8-14.8-(10)	SO-PTC-204-091917-12-8-15	SO-PTC-204-091917-13-13
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids				60.72			
Conventionals (-W)							
pH				9.18			

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-14-14	SO-PTC-204-091917-15-15	SO-PTC-204-091917-15-17.5	SO-PTC-204-091917-16-16	SO-PTC-204-091917-17-17	SO-PTC-204-091917-17-17
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventional							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		8.50	7.80		6.90	6.90	
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic				8.00			7.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-14-14	SO-PTC-204-091917-15-15	SO-PTC-204-091917-15-17.5	SO-PTC-204-091917-16-16	SO-PTC-204-091917-17-17	SO-PTC-204-091917-17-17	SO-PTC-204-091917-17-17	SO-PTC-204-091917-17-17
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)									
Total Carbon (Elemental + Organic)									
Total Solids									
Conventionals (-W)									
pH									

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-18-18	SO-PTC-204-091917-19-19	SO-PTC-204-091917-2-2-20	SO-PTC-204-091917-20-20	SO-PTC-204-091917-22-22	SO-PTC-204-091917-22-23.5
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		7.00	7.20	8.90	7.30	7.80	
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic							30.30
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-18-18	SO-PTC-204-091917-19-19	SO-PTC-204-091917-2-2	SO-PTC-204-091917-20-20	SO-PTC-204-091917-22-22	SO-PTC-204-091917-22-23.5
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-23-23	SO-PTC-204-091917-23.0-25.0	SO-PTC-204-091917-23.5-25	SO-PTC-204-091917-24-24	SO-PTC-204-091917-25-25	SO-PTC-204-091917-25-26
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)			0.04 UJ				
Sulfate (mg/kg)			45.90				
Sulfide (mg/kg)			36.10				
Total Organic Carbon (%)			0.68 J				
pH ()		7.20			6.80		9.80
Metals (mg/kg)							
Aluminum			5430.00				
Arsenic, Inorganic			56.20				
Iron			10500.00				
Manganese			80.60				
Field XRF Metals (mg/kg)							
Arsenic, Inorganic					61.90		131.90
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P			5.71 U				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-23-23	SO-PTC-204-091917-23-0-25.0	SO-PTC-204-091917-23-5-25	SO-PTC-204-091917-24-24	SO-PTC-204-091917-25-25	SO-PTC-204-091917-25-26
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)			0.52 J				
Total Solids			82.60				
Conventionals (-W)							
pH			8.56				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-26-26	SO-PTC-204-091917-26-27.5	SO-PTC-204-091917-27-27	SO-PTC-204-091917-27-5-30	SO-PTC-204-091917-28-28	SO-PTC-204-091917-29-29
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		9.20		7.80		7.20	7.70
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			7.00 U		7.00 U		
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-26-26	SO-PTC-204-091917-26-27.5	SO-PTC-204-091917-27-27	SO-PTC-204-091917-27-5-30	SO-PTC-204-091917-28-28	SO-PTC-204-091917-29-29
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-3-3	SO-PTC-204-091917-30-30	SO-PTC-204-091917-30-32.3	SO-PTC-204-091917-31-31	SO-PTC-204-091917-32-32	SO-PTC-204-091917-32-.3-35
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		8.20	7.20		6.70		6.70
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic				7.00 U			7.00U
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-3-3	SO-PTC-204-091917-30-30	SO-PTC-204-091917-30-32.3	SO-PTC-204-091917-31-31	SO-PTC-204-091917-32-32	SO-PTC-204-091917-32-35
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-33-33	SO-PTC-204-091917-33-34.3	SO-PTC-204-091917-34-34	SO-PTC-204-091917-35-35	SO-PTC-204-091917-35-37.5	SO-PTC-204-091917-36-36
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		6.70		6.50	6.50		6.80
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic			2.51 J				
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic						7.00 U	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-204-091917-33-33 PTC-204 09/19/17 Soil	SO-PTC-204-091917-33.3-34.3 PTC-204 09/19/17 Soil	SO-PTC-204-091917-34-34 PTC-204 09/19/17 Soil	SO-PTC-204-091917-35-35 PTC-204 09/19/17 Soil	SO-PTC-204-091917-35-37.5 PTC-204 09/19/17 Soil	SO-PTC-204-091917-36-36 PTC-204 09/19/17 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids			70.18				
Conventionals (-W)							
pH			7.22				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-37-37	SO-PTC-204-091917-37-5-40	SO-PTC-204-091917-38-38	SO-PTC-204-091917-39-39	SO-PTC-204-091917-4-4-4	SO-PTC-204-091917-40-40
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		6.60		6.40	6.60	8.60	6.90
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			7.00 U				
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-37-37	SO-PTC-204-091917-37-5-40	SO-PTC-204-091917-38-38	SO-PTC-204-091917-39-39	SO-PTC-204-091917-4-4-40	SO-PTC-204-091917-40-40
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-5-5	SO-PTC-204-091917-5-7	SO-PTC-204-091917-6-6	SO-PTC-204-091917-7-7	SO-PTC-204-091917-7-5-10	SO-PTC-204-091917-8-8
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		10.60		9.30	11.00		11.10
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			34.30			58.30	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-5-5	SO-PTC-204-091917-5-7	SO-PTC-204-091917-6-6	SO-PTC-204-091917-7-7	SO-PTC-204-091917-7.5-10	SO-PTC-204-091917-8-8
	Site ID:	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204	PTC-204
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-9-9	SO-PTC-204-101917-10-8-12.8-(10)	SO-PTC-205-091917--10-5-12.4	SO-PTC-205-091917-0-2-0.5	SO-PTC-205-091917-0.5-1	SO-PTC-205-091917-1-1
	Site ID:	PTC-204	PTC-204	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic			0.83				
Barium			0.02				
Cadmium			0.01 U				
Chromium, Total			0.01 J				
Lead and Compounds			0.10 U				
Mercury (elemental)			0.00010 U				
Selenium			0.25 U				
Silver			0.02 U				
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		11.00				8.30	10.80
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic				17.30			
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic					43.20		
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-204-091917-9-9	SO-PTC-204-101917-10.	SO-PTC-205-091917--10.	SO-PTC-205-091917-0-2	SO-PTC-205-091917-0.5-	SO-PTC-205-091917-1-
	Site ID:	PTC-204	8-12.8-(10)	5-12.4	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	PTC-204	PTC-205	PTC-205	PTC-205	PTC-205
	Media:	Soil	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent		Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids				43.97			
Conventionals (-W)							
pH				11.60			

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-10-10	SO-PTC-205-091917-10-5-12.4	SO-PTC-205-091917-11-11	SO-PTC-205-091917-12-12	SO-PTC-205-091917-12-4-15	SO-PTC-205-091917-13-13
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		11.40		11.50		11.40	11.00
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			39.10			15.90	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-10-10	SO-PTC-205-091917-10-5-12.4	SO-PTC-205-091917-11-11	SO-PTC-205-091917-12-12	SO-PTC-205-091917-12-4-15	SO-PTC-205-091917-13-13
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-14-14	SO-PTC-205-091917-15-15	SO-PTC-205-091917-15-16.7	SO-PTC-205-091917-16-16	SO-PTC-205-091917-16-7-20	SO-PTC-205-091917-17-17
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		10.30	9.50		9.20		9.80
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic				7.00 U		7.00 U	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-14-14	SO-PTC-205-091917-15-15	SO-PTC-205-091917-15-16.7	SO-PTC-205-091917-16-16	SO-PTC-205-091917-16-7-20	SO-PTC-205-091917-17-17
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-18-18	SO-PTC-205-091917-19-19	SO-PTC-205-091917-2-2	SO-PTC-205-091917-2-3	SO-PTC-205-091917-20-20	SO-PTC-205-091917-20-22.5
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		10.40	10.70	11.10		10.70	
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic					29.70		7.00J
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent Sample ID: Site ID: Sample Date: Media:	SO-PTC-205-091917-18-18 PTC-205 09/19/17 Soil	SO-PTC-205-091917-19-19 PTC-205 09/19/17 Soil	SO-PTC-205-091917-2-2 PTC-205 09/19/17 Soil	SO-PTC-205-091917-2-3 PTC-205 09/19/17 Soil	SO-PTC-205-091917-20-20 PTC-205 09/19/17 Soil	SO-PTC-205-091917-20-22.5 PTC-205 09/19/17 Soil
Conventionals (%-W)						
Total Carbon (Elemental + Organic)						
Total Solids						
Conventionals (-W)						
pH						

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-20-0-22.0	SO-PTC-205-091917-21-21	SO-PTC-205-091917-22-22	SO-PTC-205-091917-22-5-25	SO-PTC-205-091917-23-23	SO-PTC-205-091917-24-24
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)		0.05 J					
Sulfate (mg/kg)		63.00					
Sulfide (mg/kg)		45.90					
Total Organic Carbon (%)		0.30 J					
pH ()			10.70	10.70		10.50	10.50
Metals (mg/kg)							
Aluminum		10500.00					
Arsenic, Inorganic		5.45 J					
Iron		12400.00					
Manganese		71.70					
Field XRF Metals (mg/kg)							
Arsenic, Inorganic					14.50		
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P		18.00					

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-20-0-22.0	SO-PTC-205-091917-21-21	SO-PTC-205-091917-22-22	SO-PTC-205-091917-22-5-25	SO-PTC-205-091917-23-23	SO-PTC-205-091917-24-24
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)		0.35 J					
Total Solids		76.25					
Conventionals (-W)							
pH		11.00					

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-25-25	SO-PTC-205-091917-25-27.5	SO-PTC-205-091917-26-26	SO-PTC-205-091917-27-27	SO-PTC-205-091917-27-5-29.5	SO-PTC-205-091917-28-28
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		10.30		9.20	9.00		9.00
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			17.50			23.80	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-25-25	SO-PTC-205-091917-25-27.5	SO-PTC-205-091917-26-26	SO-PTC-205-091917-27-27	SO-PTC-205-091917-27.5-29.5	SO-PTC-205-091917-28-28
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-29-29	SO-PTC-205-091917-3-3	SO-PTC-205-091917-30-30	SO-PTC-205-091917-30-34	SO-PTC-205-091917-31-31	SO-PTC-205-091917-32-32
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		9.30	11.40	9.20		7.30	7.20
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic					10.50		
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-29-29	SO-PTC-205-091917-3-3	SO-PTC-205-091917-30-30	SO-PTC-205-091917-30-34	SO-PTC-205-091917-31-31	SO-PTC-205-091917-32-32
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-33-33	SO-PTC-205-091917-34-34	SO-PTC-205-091917-34-35	SO-PTC-205-091917-35-35	SO-PTC-205-091917-35-36	SO-PTC-205-091917-36-36
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		6.70	6.60		6.60		7.10
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic				7.00 U		20.20	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-33-33	SO-PTC-205-091917-34-34	SO-PTC-205-091917-35-35	SO-PTC-205-091917-35-35	SO-PTC-205-091917-35-36	SO-PTC-205-091917-36-36
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-36-37.2	SO-PTC-205-091917-36-0-37.2	SO-PTC-205-091917-37-37	SO-PTC-205-091917-37-2-40	SO-PTC-205-091917-38-38	SO-PTC-205-091917-39-39
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()				6.40		6.40	6.40
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic			6.62 J				
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		7.00 U			7.00 U		
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-36-37.2	SO-PTC-205-091917-36.0-37.2	SO-PTC-205-091917-37-37	SO-PTC-205-091917-37.2-40	SO-PTC-205-091917-38-38	SO-PTC-205-091917-39-39
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids			59.75				
Conventionals (-W)							
pH			7.76				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-40-40	SO-PTC-205-091917-5-5	SO-PTC-205-091917-5-7.5	SO-PTC-205-091917-6-6	SO-PTC-205-091917-7-7	SO-PTC-205-091917-7.5-10
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventional							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		6.30	11.20		11.30		11.40
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic				17.00			20.50
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO ₄ }, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent Sample ID: Site ID: Sample Date: Media:	SO-PTC-205-091917-40-40 PTC-205 09/19/17 Soil	SO-PTC-205-091917-5-5 PTC-205 09/19/17 Soil	SO-PTC-205-091917-5-7.5 PTC-205 09/19/17 Soil	SO-PTC-205-091917-6-6 PTC-205 09/19/17 Soil	SO-PTC-205-091917-7-7 PTC-205 09/19/17 Soil	SO-PTC-205-091917-7.5-10 PTC-205 09/19/17 Soil
Conventionals (%-W)						
Total Carbon (Elemental + Organic)						
Total Solids						
Conventionals (-W)						
pH						

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-8-8	SO-PTC-205-091917-8-0-10.0	SO-PTC-205-091917-9-9	SO-PTC-205-101917-10-5-12.4-(10)	SO-PTC-205-101917-8-0-10.0-(10)	SO-PTC-207-091517-0-5-0.5
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-207
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic					0.05 J	0.17 J	
Barium					0.010 J	0.010 J	
Cadmium					0.01 U	0.01 U	
Chromium, Total					0.01 J	0.01 J	
Lead and Compounds					0.10 U	0.10 U	
Mercury (elemental)					0.00010 U	0.00010 U	
Selenium					0.25 U	0.25 U	
Silver					0.02 U	0.02 U	
Conventionals							
Inorganic Carbon, Total (%)			0.14 J				
Sulfate (mg/kg)			65.50				
Sulfide (mg/kg)			1.97				
Total Organic Carbon (%)			0.17 J				
pH ()	11.20			11.40			11.00
Metals (mg/kg)							
Aluminum			21100.00				
Arsenic, Inorganic			14.80				
Iron			14100.00				
Manganese			113.00				
Field XRF Metals (mg/kg)							
Arsenic, Inorganic							
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P			26.00				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-205-091917-8-8	SO-PTC-205-091917-8.0-10.0	SO-PTC-205-091917-9-9	SO-PTC-205-101917-10.5-12.4-(10)	SO-PTC-205-101917-8.0-10.0-(10)	SO-PTC-207-091517-0.5-0.5
	Site ID:	PTC-205	PTC-205	PTC-205	PTC-205	PTC-205	PTC-207
	Sample Date:	09/19/17	09/19/17	09/19/17	09/19/17	09/19/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)			0.32 J				
Total Solids			71.39				
Conventionals (-W)							
pH			11.40				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-1-1	SO-PTC-207-091517-1-1-5	SO-PTC-207-091517-1-1-4	SO-PTC-207-091517-10-11	SO-PTC-207-091517-10-0-12.0	SO-PTC-207-091517-10-.0-12.0-(10)
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic							0.25U
Barium							0.08
Cadmium							0.01U
Chromium, Total							0.03U
Lead and Compounds							0.10U
Mercury (elemental)							0.00010U
Selenium							0.25U
Silver							0.02U
Conventionals							
Inorganic Carbon, Total (%)						0.04 UJ	
Sulfate (mg/kg)						28.80	
Sulfide (mg/kg)						1.24 U	
Total Organic Carbon (%)						0.30 J	
pH ()		10.90					
Metals (mg/kg)							
Aluminum						19800.00	
Arsenic, Inorganic						2.75 J	
Iron						15300.00	
Manganese						128.00	
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			53.40	6.00 U	7.00 U		
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P						11.70 U	

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-1-1	SO-PTC-207-091517-1-1.5	SO-PTC-207-091517-1-1.4	SO-PTC-207-091517-10-11	SO-PTC-207-091517-10-0-12.0	SO-PTC-207-091517-10-0-12.0-(10)
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)						0.33 J	
Total Solids						76.95	
Conventionals (-W)							
pH						8.80	

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-11-11	SO-PTC-207-091517-11-13	SO-PTC-207-091517-12-12	SO-PTC-207-091517-13-13	SO-PTC-207-091517-13-15	SO-PTC-207-091517-14-14
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		8.70		9.10	10.80		11.20
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			7.00 U			12.00	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-11-11	SO-PTC-207-091517-11-13	SO-PTC-207-091517-12-12	SO-PTC-207-091517-13-13	SO-PTC-207-091517-13-15	SO-PTC-207-091517-14-14
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-15-15	SO-PTC-207-091517-15-16.5	SO-PTC-207-091517-16-16	SO-PTC-207-091517-16-5-17.5	SO-PTC-207-091517-16-5-17.5-(10)	SO-PTC-207-091517-16-5-18
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic						0.02 J	
Barium						0.01 J	
Cadmium						0.01 U	
Chromium, Total						0.01 J	
Lead and Compounds						0.10 U	
Mercury (elemental)						0.00010 U	
Selenium						0.25 U	
Silver						0.02 U	
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		10.50		9.70			
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic					4.98 J		
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			7.00 U				7.00U
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-15-15	SO-PTC-207-091517-15-16.5	SO-PTC-207-091517-16-16	SO-PTC-207-091517-16.5-17.5	SO-PTC-207-091517-16.5-17.5-(10)	SO-PTC-207-091517-16.5-18
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids					53.77		
Conventionals (-W)							
pH					8.41		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-17-17	SO-PTC-207-091517-18-18	SO-PTC-207-091517-19-19	SO-PTC-207-091517-2-2-20	SO-PTC-207-091517-20-20	SO-PTC-207-091517-20-23
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		8.80	8.40	6.80	9.00	7.70	
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic							7.00J
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-17-17	SO-PTC-207-091517-18-18	SO-PTC-207-091517-19-19	SO-PTC-207-091517-2-2	SO-PTC-207-091517-20-20	SO-PTC-207-091517-20-23
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-21-21	SO-PTC-207-091517-22-22	SO-PTC-207-091517-23-23	SO-PTC-207-091517-23-25	SO-PTC-207-091517-24-24	SO-PTC-207-091517-25-25
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		7.20	7.20	7.70		7.80	7.50
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic					7.00 U		
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-21-21	SO-PTC-207-091517-22-22	SO-PTC-207-091517-23-23	SO-PTC-207-091517-23-25	SO-PTC-207-091517-24-24	SO-PTC-207-091517-25-25
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-25-27.5	SO-PTC-207-091517-26-26	SO-PTC-207-091517-27-27	SO-PTC-207-091517-27-5-30	SO-PTC-207-091517-28-28	SO-PTC-207-091517-28-0-30.0_DC
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							0.19J
Sulfate (mg/kg)							51.60
Sulfide (mg/kg)							1.15J
Total Organic Carbon (%)							0.33J
pH ()			5.80	6.80		7.40	
Metals (mg/kg)							
Aluminum							15550.00
Arsenic, Inorganic							2.33J
Iron							15300.00
Manganese							84.15
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		7.00 U			7.00 U		
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							12.10J

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-25-27.5	SO-PTC-207-091517-26-26	SO-PTC-207-091517-27-27	SO-PTC-207-091517-27-5-30	SO-PTC-207-091517-28-28	SO-PTC-207-091517-28-0-30.0_DC
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							0.49J
Total Solids							75.44
Conventionals (-W)							
pH							7.64

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-29-29	SO-PTC-207-091517-3-3	SO-PTC-207-091517-30-30	SO-PTC-207-091517-32-32	SO-PTC-207-091517-32-33	SO-PTC-207-091517-33-33
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		7.40	9.10	7.30	6.20		6.90
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic						7.00 U	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-29-29	SO-PTC-207-091517-3-3	SO-PTC-207-091517-30-30	SO-PTC-207-091517-32-32	SO-PTC-207-091517-32-33	SO-PTC-207-091517-33-33
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-33-35	SO-PTC-207-091517-34-34	SO-PTC-207-091517-35-35	SO-PTC-207-091517-35-37.5	SO-PTC-207-091517-36-36	SO-PTC-207-091517-37-37
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()			6.80	7.90		7.30	7.50
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		7.00 U			7.00 U		
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-33-35	SO-PTC-207-091517-34-34	SO-PTC-207-091517-35-35	SO-PTC-207-091517-35-37.5	SO-PTC-207-091517-36-36	SO-PTC-207-091517-37-37
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-37-5-39	SO-PTC-207-091517-37-5-39.0	SO-PTC-207-091517-38-38	SO-PTC-207-091517-39-39	SO-PTC-207-091517-4-4	SO-PTC-207-091517-40-40
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()				7.40	7.10	9.60	7.30
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic			1.85 J				
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		7.00 U					
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-37.	SO-PTC-207-091517-37.	SO-PTC-207-091517-38-38	SO-PTC-207-091517-39-39	SO-PTC-207-091517-4-4	SO-PTC-207-091517-40-40
	Site ID:	5-39	5-39.0	PTC-207	PTC-207	PTC-207	PTC-207
	Sample Date:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207	PTC-207
	Media:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids			69.25				
Conventionals (-W)							
pH			7.58				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-207-091517-5-5	SO-PTC-207-091517-5-5-7	SO-PTC-207-091517-6-6	SO-PTC-207-091517-7-7	SO-PTC-208-091317-0.5-0.5	SO-PTC-208-091317-0.5-3
	Site ID:	PTC-207	PTC-207	PTC-207	PTC-207	PTC-208	PTC-208
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/13/17	09/13/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		9.50		7.60	8.70		10.50
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			11.50				55.30
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent Sample ID: Site ID: Sample Date: Media:	SO-PTC-207-091517-5-5	SO-PTC-207-091517-5.5-7 PTC-207 09/15/17 Soil	SO-PTC-207-091517-6-6 PTC-207 09/15/17 Soil	SO-PTC-207-091517-7-7 PTC-207 09/15/17 Soil	SO-PTC-208-091317-0.5-3 PTC-208 09/13/17 Soil	SO-PTC-208-091317-0.5-3 PTC-208 09/13/17 Soil
Conventionals (%-W)						
Total Carbon (Elemental + Organic)						
Total Solids						
Conventionals (-W)						
pH						

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-1-1	SO-PTC-208-091317-10-10	SO-PTC-208-091317-10-12.5	SO-PTC-208-091317-11-11	SO-PTC-208-091317-12-12	SO-PTC-208-091317-12-14.0
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							0.08J
Sulfate (mg/kg)							81.70
Sulfide (mg/kg)							77.80
Total Organic Carbon (%)							0.26J
pH ()		7.60	7.60		7.20	10.60	
Metals (mg/kg)							
Aluminum							13600.00
Arsenic, Inorganic							2.16J
Iron							15200.00
Manganese							149.00
Field XRF Metals (mg/kg)							
Arsenic, Inorganic				7.00 U			
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							11.70J

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-1-1	SO-PTC-208-091317-10-10	SO-PTC-208-091317-10-12.5	SO-PTC-208-091317-11-11	SO-PTC-208-091317-12-12	SO-PTC-208-091317-12-14.0
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							0.34J
Total Solids							83.34
Conventionals (-W)							
pH							10.30

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-12-0-14.0-(10)	SO-PTC-208-091317-12-5-15	SO-PTC-208-091317-13-13	SO-PTC-208-091317-14-14	SO-PTC-208-091317-15-15	SO-PTC-208-091317-15-17
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic		0.25 U					
Barium		0.02 U					
Cadmium		0.001 J					
Chromium, Total		0.008 J					
Lead and Compounds		0.10 U					
Mercury (elemental)		0.00010 U					
Selenium		0.25 U					
Silver		0.02 U					
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()				10.80	10.80	10.80	
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			7.00 U				6.00 U
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: 0-14.0-(10) Site ID: PTC-208 Sample Date: 09/13/17 Media: Soil	SO-PTC-208-091317-12. 5-15 PTC-208 09/13/17 Soil	SO-PTC-208-091317-12. 5-15 PTC-208 09/13/17 Soil	SO-PTC-208-091317-13- 13 PTC-208 09/13/17 Soil	SO-PTC-208-091317-14- 14 PTC-208 09/13/17 Soil	SO-PTC-208-091317-15- 15 PTC-208 09/13/17 Soil	SO-PTC-208-091317-15- -17 PTC-208 09/13/17 Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-16-16	SO-PTC-208-091317-16-0-18.0	SO-PTC-208-091317-16-0-18.0-(10)	SO-PTC-208-091317-17-17	SO-PTC-208-091317-2-2	SO-PTC-208-091317-20-20
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic				0.25 U			
Barium				0.01 J			
Cadmium				0.01 U			
Chromium, Total				0.002 J			
Lead and Compounds				0.10 U			
Mercury (elemental)				0.00010 U			
Selenium				0.25 U			
Silver				0.02 U			
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		7.10			7.10	8.00	7.20
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic			10.70				
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic							
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-16-16	SO-PTC-208-091317-16-0-18.0	SO-PTC-208-091317-16-0-18.0-(10)	SO-PTC-208-091317-17-17	SO-PTC-208-091317-2-2	SO-PTC-208-091317-20
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids			55.81				
Conventionals (-W)							
pH			8.06				

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-20-22	SO-PTC-208-091317-21-21	SO-PTC-208-091317-22-22	SO-PTC-208-091317-22-25	SO-PTC-208-091317-23-23	SO-PTC-208-091317-23-23
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							0.02JJ
Sulfate (mg/kg)							60.20
Sulfide (mg/kg)							2.49
Total Organic Carbon (%)							0.88J
pH ()			7.20	7.10		8.10	
Metals (mg/kg)							
Aluminum							7020.00
Arsenic, Inorganic							10.00
Iron							11800.00
Manganese							72.10
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		7.00 U			7.00 U		
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							17.40J

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-20-22	SO-PTC-208-091317-21-21	SO-PTC-208-091317-22-22	SO-PTC-208-091317-22-25	SO-PTC-208-091317-23-23	SO-PTC-208-091317-23-25.0
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							0.90J
Total Solids							79.66
Conventionals (-W)							
pH							8.65

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-24-24	SO-PTC-208-091317-25-25	SO-PTC-208-091317-25-27	SO-PTC-208-091317-26-26	SO-PTC-208-091317-27-27	SO-PTC-208-091317-28-28
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		9.70	9.10		8.00	7.20	7.00
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic				7.00 U			
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-24-24	SO-PTC-208-091317-25-25	SO-PTC-208-091317-25-27	SO-PTC-208-091317-26-26	SO-PTC-208-091317-27-27	SO-PTC-208-091317-28-28
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-28-30	SO-PTC-208-091317-29-29	SO-PTC-208-091317-3-3	SO-PTC-208-091317-30-30	SO-PTC-208-091317-30-32.5	SO-PTC-208-091317-31-31
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()			7.00	7.60	7.00		7.00
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		7.00 U				7.00 U	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-28-30	SO-PTC-208-091317-29-29	SO-PTC-208-091317-3-3	SO-PTC-208-091317-30-30	SO-PTC-208-091317-30-32.5	SO-PTC-208-091317-31-31
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-32-32	SO-PTC-208-091317-32-5-35	SO-PTC-208-091317-33-33	SO-PTC-208-091317-33-0-35.0	SO-PTC-208-091317-34-34	SO-PTC-208-091317-35-35
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		7.10		7.00		6.90	6.80
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic					3.84 J		
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic			7.00 U				
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-32-32	SO-PTC-208-091317-32-35	SO-PTC-208-091317-33-33	SO-PTC-208-091317-33-35.0	SO-PTC-208-091317-34-34	SO-PTC-208-091317-35-35
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids					70.39		
Conventionals (-W)							
pH					6.99		

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-35-37.5	SO-PTC-208-091317-36-36	SO-PTC-208-091317-37-37	SO-PTC-208-091317-37-5-40	SO-PTC-208-091317-38-38	SO-PTC-208-091317-39-39
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()			7.00	7.10		7.20	7.10
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		7.00 U			7.00 U		
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-35-37.5	SO-PTC-208-091317-36-36	SO-PTC-208-091317-37-37	SO-PTC-208-091317-37-5-40	SO-PTC-208-091317-38-38	SO-PTC-208-091317-39-39
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-40-40	SO-PTC-208-091317-5-5	SO-PTC-208-091317-5-6	SO-PTC-208-091317-6-6	SO-PTC-208-091317-6-7	SO-PTC-208-091317-7-7
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Constituent							
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()		7.20	7.40		8.70		10.30
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic				55.30		7.00 U	
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-40-40	SO-PTC-208-091317-5-5	SO-PTC-208-091317-5-8-6	SO-PTC-208-091317-6-6	SO-PTC-208-091317-6-7-5	SO-PTC-208-091317-7-7
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208	PTC-208
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17	09/13/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Conventionals (%-W)							
Total Carbon (Elemental + Organic)							
Total Solids							
Conventionals (-W)							
pH							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

	Sample ID:	SO-PTC-208-091317-7.5-10	SO-PTC-208-091317-8-8	SO-PTC-208-091317-9-9			
	Site ID:	PTC-208	PTC-208	PTC-208	//	//	//
	Sample Date:	09/13/17	09/13/17	09/13/17			
Constituent	Media:	Soil	Soil	Soil			
TCLP Metals (mg/L)							
Arsenic, Inorganic							
Barium							
Cadmium							
Chromium, Total							
Lead and Compounds							
Mercury (elemental)							
Selenium							
Silver							
Conventionals							
Inorganic Carbon, Total (%)							
Sulfate (mg/kg)							
Sulfide (mg/kg)							
Total Organic Carbon (%)							
pH ()			10.70	11.10			
Metals (mg/kg)							
Aluminum							
Arsenic, Inorganic							
Iron							
Manganese							
Field XRF Metals (mg/kg)							
Arsenic, Inorganic		8.00 U					
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P							

Blank cells indicate that no analysis was performed.

Table G-7: General Soil Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-208-091317-7.5-10 PTC-208 09/13/17 Soil	SO-PTC-208-091317-8-8 PTC-208 09/13/17 Soil	SO-PTC-208-091317-9-9 PTC-208 09/13/17 Soil	//	//
Conventionals (%-W)						
Total Carbon (Elemental + Organic)						
Total Solids						
Conventionals (-W)						
pH						

Blank cells indicate that no analysis was performed.

Table G-8: General Sediment Results

Constituent	Sample ID: 0417-0-0.33 Site ID: 120+75-ST1-SED Sample Date: 10/04/17 Media: Sediment	SD-120+75-ST1-SED-10	SD-122+60-0-SED-10031 7-0-0.33 122+60-0-SED 10/03/17 Sediment	SD-124+00-0-SED-10031 7-0-0.33 124+00-0-SED 10/03/17 Sediment	SD-125+00-ST1-SED-10 0417-0-0.33 125+00-ST1-SED 10/04/17 Sediment	SD-125+50-0-SED-10031 7-0-0.33 125+50-0-SED 10/03/17 Sediment	SD-126+90-0-SED-1003 17-0-0.33 126+90-0-SED 10/03/17 Sediment
Conventionals							
Inorganic Carbon, Total (%)		0.31 J	0.06 J	0.05 J	0.05 J	0.10 J	0.23J
Sulfate (mg/kg)		624.00 J	450.00 J	474.00 J	275.00 J	267.00 J	169.00J
Sulfide (mg/kg)		178.00	3.61	1.17 U	5.98	1.10 U	1.04U
Total Organic Carbon (%)		0.18 J	0.07 J	0.15 J	0.13 J	0.17 J	0.18J
Metals (mg/kg)							
Aluminum		10700.00	17100.00	15000.00	9170.00	12100.00	10800.00
Arsenic, Inorganic		9.79	3.60 J	12.60	5.64	42.20	14.90
Iron		22000.00	23300.00	22500.00	16700.00	19300.00	17400.00
Manganese		154.00	540.00	512.00	160.00	438.00	361.00
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P		2.44	2.15 U	3.11	2.38	2.12 U	1.89U
Conventionals (%-W)							
Total Carbon (Elemental + Organic)		0.49 J	0.13 J	0.19 J	0.18 J	0.27 J	0.41J
Total Solids		82.07	83.73	84.28	87.84	88.92	88.46
Conventionals (-W)							
pH		7.76	7.57	7.75	7.68	7.75	7.74

Blank cells indicate that no analysis was performed.

Table G-8: General Sediment Results

	Sample ID:	SD-128+30-0-SED-10031	SD-128+50-ST1-SED-10				
	Site ID:	7-0-0.33	0417-0-0.33_DC				
	Sample Date:	128+30-0-SED	128+50-ST1	//	//	//	//
	Media:	10/03/17	10/04/17				
Constituent		Sediment	Sediment				
Conventionals							
Inorganic Carbon, Total (%)		0.10 J	0.29 J				
Sulfate (mg/kg)		437.00 J	1220.00 J				
Sulfide (mg/kg)		1.17 U	129.20				
Total Organic Carbon (%)		0.16 J	0.50 J				
Metals (mg/kg)							
Aluminum		14800.00	11200.00				
Arsenic, Inorganic		9.31	10.40				
Iron		22400.00	16350.00				
Manganese		556.00	124.50				
Ortho-phosphorus (mg/kg)							
o-Phosphate {PO4}, as P		2.97	6.85 U				
Conventionals (%-W)							
Total Carbon (Elemental + Organic)		0.26 J	0.79 J				
Total Solids		83.41	65.58				
Conventionals (-W)							
pH		7.80	7.52				

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SD-125+00-ST1-SED-09 1218-0-0.33	SD-125+00-ST1-SED-09 1218-0-0.33-(41)	SD-125+00-ST1-SED-09 1218-0-0.33-(42)	SD-125+00-ST1-SED-09 1218-0-0.33-(43)	SD-125+00-ST1-SED-09 1218-0-0.33-(44)	SD-125+00-ST1-SED-09 1218-0-0.33-(45)
	Site ID:	125+00-ST1	125+00-ST1	125+00-ST1	125+00-ST1	125+00-ST1	125+00-ST1
	Sample Date:	09/12/18	09/12/18	09/12/18	09/12/18	09/12/18	09/12/18
Constituent	Media:	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Sequential Extraction Metals (mg/kg)							
Aluminum (WEN2)			5.29	509.00	322.00	8050.00	21900.00 J-1
Aluminum (WEN3)			5.29	509.00	322.00	8050.00	21900.00 J-1
Aluminum (WEN4)			5.29	509.00	322.00	8050.00	21900.00 J-1
Aluminum (WEN5)			5.29	509.00	322.00	8050.00	21900.00 J-1
Aluminum (WEN6)			5.29	509.00	322.00	8050.00	21900.00 J-1
Arsenic (WEN2)	12.60	2.35	1.39	0.45 J	4.02	10.20 U	
Arsenic (WEN3)	12.60	2.35	1.39	0.45 J	4.02	10.20 U	
Arsenic (WEN4)	12.60	2.35	1.39	0.45 J	4.02	10.20 U	
Arsenic (WEN5)	12.60	2.35	1.39	0.45 J	4.02	10.20 U	
Arsenic (WEN6)	12.60	2.35	1.39	0.45 J	4.02	10.20 U	
Arsenic, Inorganic	12.60	2.35	1.39	0.45 J	4.02	10.20 U	
Iron (WEN2)		620.00	3240.00	731.00	10200.00	8850.00	
Iron (WEN3)		620.00	3240.00	731.00	10200.00	8850.00	
Iron (WEN4)		620.00	3240.00	731.00	10200.00	8850.00	
Iron (WEN5)		620.00	3240.00	731.00	10200.00	8850.00	
Iron (WEN6)		620.00	3240.00	731.00	10200.00	8850.00	
Manganese (WEN2)		5.66	16.00	3.80	127.00	173.00	
Manganese (WEN3)		5.66	16.00	3.80	127.00	173.00	
Manganese (WEN4)		5.66	16.00	3.80	127.00	173.00	
Manganese (WEN5)		5.66	16.00	3.80	127.00	173.00	
Manganese (WEN6)		5.66	16.00	3.80	127.00	173.00	
Silicon (WEN2)		228.00	243.00	203.00	46.20 J-1	208000.00	
Silicon (WEN3)		228.00	243.00	203.00	46.20 J-1	208000.00	
Silicon (WEN4)		228.00	243.00	203.00	46.20 J-1	208000.00	
Silicon (WEN5)		228.00	243.00	203.00	46.20 J-1	208000.00	

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SD-125+00-ST1-SED-09 1218-0-0.33 125+00-ST1 09/12/18 Sediment	SD-125+00-ST1-SED-09 1218-0-0.33-(41) 125+00-ST1 09/12/18 Sediment	SD-125+00-ST1-SED-09 1218-0-0.33-(42) 125+00-ST1 09/12/18 Sediment	SD-125+00-ST1-SED-09 1218-0-0.33-(43) 125+00-ST1 09/12/18 Sediment	SD-125+00-ST1-SED-09 1218-0-0.33-(44) 125+00-ST1 09/12/18 Sediment	SD-125+00-ST1-SED-0 91218-0-0.33-(45) 125+00-ST1 09/12/18 Sediment
Silicon (WEN6)			228.00	243.00	203.00	46.20 J-1	208000.00
Aluminum							
Aluminum (WEN2)							
Aluminum (WEN3)							
Aluminum (WEN4)							
Aluminum (WEN5)							
Aluminum (WEN6)							
Arsenic (WEN2)							
Arsenic (WEN3)							
Arsenic (WEN4)							
Arsenic (WEN5)							
Arsenic (WEN6)							
Arsenic, Inorganic							
Iron							
Iron (WEN2)							
Iron (WEN3)							
Iron (WEN4)							
Iron (WEN5)							
Iron (WEN6)							
Manganese							
Manganese (WEN2)							
Manganese (WEN3)							
Manganese (WEN4)							
Manganese (WEN5)							
Manganese (WEN6)							
Silicon							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: 1218-0-0.33 Site ID: 125+00-ST1 Sample Date: 09/12/18 Media: Sediment	SD-125+00-ST1-SED-09 1218-0-0.33-(41) 125+00-ST1 09/12/18 Sediment	SD-125+00-ST1-SED-09 1218-0-0.33-(42) 125+00-ST1 09/12/18 Sediment	SD-125+00-ST1-SED-09 1218-0-0.33-(43) 125+00-ST1 09/12/18 Sediment	SD-125+00-ST1-SED-09 1218-0-0.33-(44) 125+00-ST1 09/12/18 Sediment	SD-125+00-ST1-SED-0 91218-0-0.33-(45) 125+00-ST1 09/12/18 Sediment
Silicon (WEN2)						
Silicon (WEN3)						
Silicon (WEN4)						
Silicon (WEN5)						
Silicon (WEN6)						
Sequential Extraction Conventionals						
Total Solid	74.89					
Total Solid						

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID:	SD-125+50-0-SED-09121	SD-125+50-0-SED-09121	SD-125+50-0-SED-09121	SD-125+50-0-SED-09121	SD-125+50-0-SED-09121	SD-125+50-0-SED-09121
	Site ID:	8-0-0.33	8-0-0.33-(41)	8-0-0.33-(42)	8-0-0.33-(43)	8-0-0.33-(44)	8-0-0.33-(45)
	Sample Date:	125+50-0	125+50-0	125+50-0	125+50-0	125+50-0	125+50-0
	Media:	09/12/18	09/12/18	09/12/18	09/12/18	09/12/18	09/12/18
		Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Sequential Extraction Metals (mg/kg)							
Aluminum (WEN2)			3.22 M	229.00	351.00	10600.00	25900.00 J-1,
Aluminum (WEN3)			3.22 M	229.00	351.00	10600.00	25900.00 J-1,
Aluminum (WEN4)			3.22 M	229.00	351.00	10600.00	25900.00 J-1,
Aluminum (WEN5)			3.22 M	229.00	351.00	10600.00	25900.00 J-1,
Aluminum (WEN6)			3.22 M	229.00	351.00	10600.00	25900.00 J-1,
Arsenic (WEN2)	3.95		0.54	1.06	0.88	1.94 J	10.00 U
Arsenic (WEN3)	3.95		0.54	1.06	0.88	1.94 J	10.00 U
Arsenic (WEN4)	3.95		0.54	1.06	0.88	1.94 J	10.00 U
Arsenic (WEN5)	3.95		0.54	1.06	0.88	1.94 J	10.00 U
Arsenic (WEN6)	3.95		0.54	1.06	0.88	1.94 J	10.00 U
Arsenic, Inorganic	3.95		0.54	1.06	0.88	1.94 J	10.00 U
Iron (WEN2)			0.94	808.00 M	2400.00 M	14500.00	11100.00 M
Iron (WEN3)			0.94	808.00 M	2400.00 M	14500.00	11100.00 M
Iron (WEN4)			0.94	808.00 M	2400.00 M	14500.00	11100.00 M
Iron (WEN5)			0.94	808.00 M	2400.00 M	14500.00	11100.00 M
Iron (WEN6)			0.94	808.00 M	2400.00 M	14500.00	11100.00 M
Manganese (WEN2)			60.80	140.00 M	22.80 M	229.00	259.00 M
Manganese (WEN3)			60.80	140.00 M	22.80 M	229.00	259.00 M
Manganese (WEN4)			60.80	140.00 M	22.80 M	229.00	259.00 M
Manganese (WEN5)			60.80	140.00 M	22.80 M	229.00	259.00 M
Manganese (WEN6)			60.80	140.00 M	22.80 M	229.00	259.00 M
Silicon (WEN2)			86.40	110.00	253.00 M	55.80 J-1	306000.00
Silicon (WEN3)			86.40	110.00	253.00 M	55.80 J-1	306000.00
Silicon (WEN4)			86.40	110.00	253.00 M	55.80 J-1	306000.00
Silicon (WEN5)			86.40	110.00	253.00 M	55.80 J-1	306000.00

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: 8-0-0.33 Site ID: 125+50-0 Sample Date: 09/12/18 Media: Sediment	SD-125+50-0-SED-09121 8-0-0.33-(41) 125+50-0 09/12/18 Sediment	SD-125+50-0-SED-09121 8-0-0.33-(42) 125+50-0 09/12/18 Sediment	SD-125+50-0-SED-09121 8-0-0.33-(43) 125+50-0 09/12/18 Sediment	SD-125+50-0-SED-09121 8-0-0.33-(44) 125+50-0 09/12/18 Sediment	SD-125+50-0-SED-0912 18-0-0.33-(45) 125+50-0 09/12/18 Sediment
Silicon (WEN6)		86.40	110.00	253.00 M	55.80 J-1	306000.00
Aluminum						
Aluminum (WEN2)						
Aluminum (WEN3)						
Aluminum (WEN4)						
Aluminum (WEN5)						
Aluminum (WEN6)						
Arsenic (WEN2)						
Arsenic (WEN3)						
Arsenic (WEN4)						
Arsenic (WEN5)						
Arsenic (WEN6)						
Arsenic, Inorganic						
Iron						
Iron (WEN2)						
Iron (WEN3)						
Iron (WEN4)						
Iron (WEN5)						
Iron (WEN6)						
Manganese						
Manganese (WEN2)						
Manganese (WEN3)						
Manganese (WEN4)						
Manganese (WEN5)						
Manganese (WEN6)						
Silicon						

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: 8-0-0.33 Site ID: 125+50-0 Sample Date: 09/12/18 Media: Sediment	SD-125+50-0-SED-09121 8-0-0.33-(41) 125+50-0 09/12/18 Sediment	SD-125+50-0-SED-09121 8-0-0.33-(42) 125+50-0 09/12/18 Sediment	SD-125+50-0-SED-09121 8-0-0.33-(43) 125+50-0 09/12/18 Sediment	SD-125+50-0-SED-09121 8-0-0.33-(44) 125+50-0 09/12/18 Sediment	SD-125+50-0-SED-0912 18-0-0.33-(45) 125+50-0 09/12/18 Sediment
Silicon (WEN2)						
Silicon (WEN3)						
Silicon (WEN4)						
Silicon (WEN5)						
Silicon (WEN6)						
Sequential Extraction Conventionals						
Total Solid	80.51					
Total Solid						

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SD-128+50-ST1-SED-10 0417-0-0.33-(41) 128+50-ST1 10/04/17 Sediment	SD-128+50-ST1-SED-10 0417-0-0.33-(42) 128+50-ST1 10/04/17 Sediment	SD-128+50-ST1-SED-10 0417-0-0.33-(43) 128+50-ST1 10/04/17 Sediment	SD-128+50-ST1-SED-10 0417-0-0.33-(44) 128+50-ST1 10/04/17 Sediment	SD-128+50-ST1-SED-10 0417-0-0.33-(45) 128+50-ST1 10/04/17 Sediment	SD-128+50-ST1-SED-1 00417-0-0.33_DC 128+50-ST1 10/04/17 Sediment
Sequential Extraction Metals (mg/kg)							
Aluminum (WEN2)	2.27	703.00	376.00	7920.00	18300.00	J-1	
Aluminum (WEN3)	2.27	703.00	376.00	7920.00	18300.00	J-1	
Aluminum (WEN4)	2.27	703.00	376.00	7920.00	18300.00	J-1	
Aluminum (WEN5)	2.27	703.00	376.00	7920.00	18300.00	J-1	
Aluminum (WEN6)	2.27	703.00	376.00	7920.00	18300.00	J-1	
Arsenic (WEN2)	1.79	0.85	0.42 J	5.56	9.91	U	10.60 H
Arsenic (WEN3)	1.79	0.85	0.42 J	5.56	9.91	U	10.60 H
Arsenic (WEN4)	1.79	0.85	0.42 J	5.56	9.91	U	10.60 H
Arsenic (WEN5)	1.79	0.85	0.42 J	5.56	9.91	U	10.60 H
Arsenic (WEN6)	1.79	0.85	0.42 J	5.56	9.91	U	10.60 H
Arsenic, Inorganic	1.79	0.85	0.42 J	5.56	9.91	U	10.60 H
Iron (WEN2)	187.00	1780.00	950.00	12600.00	16500.00		
Iron (WEN3)	187.00	1780.00	950.00	12600.00	16500.00		
Iron (WEN4)	187.00	1780.00	950.00	12600.00	16500.00		
Iron (WEN5)	187.00	1780.00	950.00	12600.00	16500.00		
Iron (WEN6)	187.00	1780.00	950.00	12600.00	16500.00		
Manganese (WEN2)	4.44	8.50	4.81	89.10	335.00		
Manganese (WEN3)	4.44	8.50	4.81	89.10	335.00		
Manganese (WEN4)	4.44	8.50	4.81	89.10	335.00		
Manganese (WEN5)	4.44	8.50	4.81	89.10	335.00		
Manganese (WEN6)	4.44	8.50	4.81	89.10	335.00		
Silicon (WEN2)	240.00	262.00	234.00	31.60	246000.00	J-1, J	
Silicon (WEN3)	240.00	262.00	234.00	31.60	246000.00	J-1, J	
Silicon (WEN4)	240.00	262.00	234.00	31.60	246000.00	J-1, J	
Silicon (WEN5)	240.00	262.00	234.00	31.60	246000.00	J-1, J	

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SD-128+50-ST1-SED-10 0417-0-0.33-(41) 128+50-ST1 10/04/17 Sediment	SD-128+50-ST1-SED-10 0417-0-0.33-(42) 128+50-ST1 10/04/17 Sediment	SD-128+50-ST1-SED-10 0417-0-0.33-(43) 128+50-ST1 10/04/17 Sediment	SD-128+50-ST1-SED-10 0417-0-0.33-(44) 128+50-ST1 10/04/17 Sediment	SD-128+50-ST1-SED-10 0417-0-0.33-(45) 128+50-ST1 10/04/17 Sediment	SD-128+50-ST1-SED-1 00417-0-0.33_DC 128+50-ST1 10/04/17 Sediment
Silicon (WEN6)		240.00	262.00	234.00	31.60 J-1, J	246000.00	
Aluminum							
Aluminum (WEN2)							
Aluminum (WEN3)							
Aluminum (WEN4)							
Aluminum (WEN5)							
Aluminum (WEN6)							
Arsenic (WEN2)							
Arsenic (WEN3)							
Arsenic (WEN4)							
Arsenic (WEN5)							
Arsenic (WEN6)							
Arsenic, Inorganic							
Iron							
Iron (WEN2)							
Iron (WEN3)							
Iron (WEN4)							
Iron (WEN5)							
Iron (WEN6)							
Manganese							
Manganese (WEN2)							
Manganese (WEN3)							
Manganese (WEN4)							
Manganese (WEN5)							
Manganese (WEN6)							
Silicon							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SD-128+50-ST1-SED-10 0417-0-0.33-(41) 128+50-ST1 10/04/17 Sediment	SD-128+50-ST1-SED-10 0417-0-0.33-(42) 128+50-ST1 10/04/17 Sediment	SD-128+50-ST1-SED-10 0417-0-0.33-(43) 128+50-ST1 10/04/17 Sediment	SD-128+50-ST1-SED-10 0417-0-0.33-(44) 128+50-ST1 10/04/17 Sediment	SD-128+50-ST1-SED-10 0417-0-0.33-(45) 128+50-ST1 10/04/17 Sediment	SD-128+50-ST1-SED-1 00417-0-0.33_DC 128+50-ST1 10/04/17 Sediment
Silicon (WEN2)							
Silicon (WEN3)							
Silicon (WEN4)							
Silicon (WEN5)							
Silicon (WEN6)							
Sequential Extraction Conventionals							
Total Solid							71.96
Total Solid							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID:	SO-PTC-001-091517-11. 5-13.5	SO-PTC-001-091517-11. 5-13.5-(41)	SO-PTC-001-091517-11. 5-13.5-(42)	SO-PTC-001-091517-11. 5-13.5-(43)	SO-PTC-001-091517-11. 5-13.5-(44)	SO-PTC-001-091517-11. .5-13.5-(45)
	Site ID:	PTC-001	PTC-001	PTC-001	PTC-001	PTC-001	PTC-001
	Sample Date:	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17	09/15/17
	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Sequential Extraction Metals (mg/kg)							
Aluminum (WEN2)							
Aluminum (WEN3)							
Aluminum (WEN4)							
Aluminum (WEN5)							
Aluminum (WEN6)							
Arsenic (WEN2)							
Arsenic (WEN3)							
Arsenic (WEN4)							
Arsenic (WEN5)							
Arsenic (WEN6)							
Arsenic, Inorganic							
Iron (WEN2)							
Iron (WEN3)							
Iron (WEN4)							
Iron (WEN5)							
Iron (WEN6)							
Manganese (WEN2)							
Manganese (WEN3)							
Manganese (WEN4)							
Manganese (WEN5)							
Manganese (WEN6)							
Silicon (WEN2)							
Silicon (WEN3)							
Silicon (WEN4)							
Silicon (WEN5)							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-001-091517-11. 5-13.5 PTC-001 09/15/17 Soil	SO-PTC-001-091517-11. 5-13.5-(41) PTC-001 09/15/17 Soil	SO-PTC-001-091517-11. 5-13.5-(42) PTC-001 09/15/17 Soil	SO-PTC-001-091517-11. 5-13.5-(43) PTC-001 09/15/17 Soil	SO-PTC-001-091517-11. 5-13.5-(44) PTC-001 09/15/17 Soil	SO-PTC-001-091517-11 .5-13.5-(45) PTC-001 09/15/17 Soil
Silicon (WEN6)							
Aluminum			126.00	1300.00	772.00	16400.00	34200.00 J-1
Aluminum (WEN2)			126.00	1300.00	772.00	16400.00	34200.00 J-1
Aluminum (WEN3)			126.00	1300.00	772.00	16400.00	34200.00 J-1
Aluminum (WEN4)			126.00	1300.00	772.00	16400.00	34200.00 J-1
Aluminum (WEN5)			126.00	1300.00	772.00	16400.00	34200.00 J-1
Aluminum (WEN6)			126.00	1300.00	772.00	16400.00	34200.00 J-1
Arsenic (WEN2)	3.46 H	0.35	0.31	1.04 U	2.97 J	13.80 U	
Arsenic (WEN3)	3.46 H	0.35	0.31	1.04 U	2.97 J	13.80 U	
Arsenic (WEN4)	3.46 H	0.35	0.31	1.04 U	2.97 J	13.80 U	
Arsenic (WEN5)	3.46 H	0.35	0.31	1.04 U	2.97 J	13.80 U	
Arsenic (WEN6)	3.46 H	0.35	0.31	1.04 U	2.97 J	13.80 U	
Arsenic, Inorganic	3.46 H	0.35	0.31	1.04 U	2.97 J	13.80 U	
Iron		87.10	1350.00	2350.00	18900.00	17000.00	
Iron (WEN2)		87.10	1350.00	2350.00	18900.00	17000.00	
Iron (WEN3)		87.10	1350.00	2350.00	18900.00	17000.00	
Iron (WEN4)		87.10	1350.00	2350.00	18900.00	17000.00	
Iron (WEN5)		87.10	1350.00	2350.00	18900.00	17000.00	
Iron (WEN6)		87.10	1350.00	2350.00	18900.00	17000.00	
Manganese		2.36	11.90	10.30	135.00	301.00	
Manganese (WEN2)		2.36	11.90	10.30	135.00	301.00	
Manganese (WEN3)		2.36	11.90	10.30	135.00	301.00	
Manganese (WEN4)		2.36	11.90	10.30	135.00	301.00	
Manganese (WEN5)		2.36	11.90	10.30	135.00	301.00	
Manganese (WEN6)		2.36	11.90	10.30	135.00	301.00	
Silicon		479.00	503.00	424.00	63.80 J-1	350000.00	

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-001-091517-11. 5-13.5 PTC-001 09/15/17 Soil	SO-PTC-001-091517-11. 5-13.5-(41) PTC-001 09/15/17 Soil	SO-PTC-001-091517-11. 5-13.5-(42) PTC-001 09/15/17 Soil	SO-PTC-001-091517-11. 5-13.5-(43) PTC-001 09/15/17 Soil	SO-PTC-001-091517-11. 5-13.5-(44) PTC-001 09/15/17 Soil	SO-PTC-001-091517-11 .5-13.5-(45) PTC-001 09/15/17 Soil
Silicon (WEN2)			479.00	503.00	424.00	63.80 J-1	350000.00
Silicon (WEN3)			479.00	503.00	424.00	63.80 J-1	350000.00
Silicon (WEN4)			479.00	503.00	424.00	63.80 J-1	350000.00
Silicon (WEN5)			479.00	503.00	424.00	63.80 J-1	350000.00
Silicon (WEN6)			479.00	503.00	424.00	63.80 J-1	350000.00
Sequential Extraction Conventionals							
Total Solid							
Total Solid		69.51					

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-101-091417-19. 3-20.3-(41) PTC-101 09/14/17 Soil	SO-PTC-101-091417-19. 3-20.3-(42) PTC-101 09/14/17 Soil	SO-PTC-101-091417-19. 3-20.3-(43) PTC-101 09/14/17 Soil	SO-PTC-101-091417-19. 3-20.3-(44) PTC-101 09/14/17 Soil	SO-PTC-101-091417-19. 3-20.3-(45) PTC-101 09/14/17 Soil	SO-PTC-101-091417-8. 2-10.2-(41) PTC-101 09/14/17 Soil
Sequential Extraction Metals (mg/kg)							
Aluminum (WEN2)							
Aluminum (WEN3)							
Aluminum (WEN4)							
Aluminum (WEN5)							
Aluminum (WEN6)							
Arsenic (WEN2)							
Arsenic (WEN3)							
Arsenic (WEN4)							
Arsenic (WEN5)							
Arsenic (WEN6)							
Arsenic, Inorganic							
Iron (WEN2)							
Iron (WEN3)							
Iron (WEN4)							
Iron (WEN5)							
Iron (WEN6)							
Manganese (WEN2)							
Manganese (WEN3)							
Manganese (WEN4)							
Manganese (WEN5)							
Manganese (WEN6)							
Silicon (WEN2)							
Silicon (WEN3)							
Silicon (WEN4)							
Silicon (WEN5)							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-101-091417-19. 3-20.3-(41) PTC-101 09/14/17 Soil	SO-PTC-101-091417-19. 3-20.3-(42) PTC-101 09/14/17 Soil	SO-PTC-101-091417-19. 3-20.3-(43) PTC-101 09/14/17 Soil	SO-PTC-101-091417-19. 3-20.3-(44) PTC-101 09/14/17 Soil	SO-PTC-101-091417-19. 3-20.3-(45) PTC-101 09/14/17 Soil	SO-PTC-101-091417-8. 2-10.2-(41) PTC-101 09/14/17 Soil
Silicon (WEN6)							
Aluminum		11.50	510.00	569.00	9650.00	39500.00 J-1	3.78
Aluminum (WEN2)		11.50	510.00	569.00	9650.00	39500.00 J-1	3.78
Aluminum (WEN3)		11.50	510.00	569.00	9650.00	39500.00 J-1	3.78
Aluminum (WEN4)		11.50	510.00	569.00	9650.00	39500.00 J-1	3.78
Aluminum (WEN5)		11.50	510.00	569.00	9650.00	39500.00 J-1	3.78
Aluminum (WEN6)		11.50	510.00	569.00	9650.00	39500.00 J-1	3.78
Arsenic (WEN2)		190.00	168.00	10.80	49.40	4.94 J	294.00
Arsenic (WEN3)		190.00	168.00	10.80	49.40	4.94 J	294.00
Arsenic (WEN4)		190.00	168.00	10.80	49.40	4.94 J	294.00
Arsenic (WEN5)		190.00	168.00	10.80	49.40	4.94 J	294.00
Arsenic (WEN6)		190.00	168.00	10.80	49.40	4.94 J	294.00
Arsenic, Inorganic		190.00	168.00	10.80	49.40	4.94 J	294.00
Iron		9.75	1340.00	1040.00	16300.00	16600.00	82.10
Iron (WEN2)		9.75	1340.00	1040.00	16300.00	16600.00	82.10
Iron (WEN3)		9.75	1340.00	1040.00	16300.00	16600.00	82.10
Iron (WEN4)		9.75	1340.00	1040.00	16300.00	16600.00	82.10
Iron (WEN5)		9.75	1340.00	1040.00	16300.00	16600.00	82.10
Iron (WEN6)		9.75	1340.00	1040.00	16300.00	16600.00	82.10
Manganese		3.95	6.12	6.65	127.00	310.00	3.39
Manganese (WEN2)		3.95	6.12	6.65	127.00	310.00	3.39
Manganese (WEN3)		3.95	6.12	6.65	127.00	310.00	3.39
Manganese (WEN4)		3.95	6.12	6.65	127.00	310.00	3.39
Manganese (WEN5)		3.95	6.12	6.65	127.00	310.00	3.39
Manganese (WEN6)		3.95	6.12	6.65	127.00	310.00	3.39
Silicon		102.00	222.00	413.00	221.00	243000.00	51.00

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-101-091417-19.	SO-PTC-101-091417-19.	SO-PTC-101-091417-19.	SO-PTC-101-091417-19.	SO-PTC-101-091417-19.	SO-PTC-101-091417-8.
	Site ID:	3-20.3-(41)	3-20.3-(42)	3-20.3-(43)	3-20.3-(44)	3-20.3-(45)	2-10.2-(41)
	Sample Date:	09/14/17	09/14/17	09/14/17	09/14/17	09/14/17	09/14/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Silicon (WEN2)		102.00	222.00	413.00	221.00	243000.00	51.00
Silicon (WEN3)		102.00	222.00	413.00	221.00	243000.00	51.00
Silicon (WEN4)		102.00	222.00	413.00	221.00	243000.00	51.00
Silicon (WEN5)		102.00	222.00	413.00	221.00	243000.00	51.00
Silicon (WEN6)		102.00	222.00	413.00	221.00	243000.00	51.00
Sequential Extraction Conventionals							
Total Solid							
Total Solid							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-101-091417-8.2-10.2-(42) PTC-101 09/14/17 Soil	SO-PTC-101-091417-8.2-10.2-(43) PTC-101 09/14/17 Soil	SO-PTC-101-091417-8.2-10.2-(44) PTC-101 09/14/17 Soil	SO-PTC-101-091417-8.2-10.2-(45) PTC-101 09/14/17 Soil	SO-PTC-104-092018-14.2-14.7 PTC-104 09/20/18 Soil	SO-PTC-104-092018-14.2-14.7-(41) PTC-104 09/20/18 Soil
Sequential Extraction Metals (mg/kg)							
Aluminum (WEN2)							
Aluminum (WEN3)							
Aluminum (WEN4)							
Aluminum (WEN5)							
Aluminum (WEN6)							
Arsenic (WEN2)							
Arsenic (WEN3)							
Arsenic (WEN4)							
Arsenic (WEN5)							
Arsenic (WEN6)							
Arsenic, Inorganic							
Iron (WEN2)							
Iron (WEN3)							
Iron (WEN4)							
Iron (WEN5)							
Iron (WEN6)							
Manganese (WEN2)							
Manganese (WEN3)							
Manganese (WEN4)							
Manganese (WEN5)							
Manganese (WEN6)							
Silicon (WEN2)							
Silicon (WEN3)							
Silicon (WEN4)							
Silicon (WEN5)							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID: SO-PTC-101-091417-8.2-10.2-(42)	Sample ID: SO-PTC-101-091417-8.2-10.2-(43)	Sample ID: SO-PTC-101-091417-8.2-10.2-(44)	Sample ID: SO-PTC-101-091417-8.2-10.2-(45)	Sample ID: SO-PTC-104-092018-14.2-14.7	Sample ID: SO-PTC-104-092018-14.2-14.7-(41)
	Site ID: PTC-101	Site ID: PTC-101	Site ID: PTC-101	Site ID: PTC-101	Site ID: PTC-104	Site ID: PTC-104
	Sample Date: 09/14/17	Sample Date: 09/14/17	Sample Date: 09/14/17	Sample Date: 09/14/17	Sample Date: 09/20/18	Sample Date: 09/20/18
Constituent	Media: Soil	Media: Soil	Media: Soil	Media: Soil	Media: Soil	Media: Soil
Silicon (WEN6)						
Aluminum	191.00	199.00	4780.00	31400.00 J-1		28.10
Aluminum (WEN2)	191.00	199.00	4780.00	31400.00 J-1		28.10
Aluminum (WEN3)	191.00	199.00	4780.00	31400.00 J-1		28.10
Aluminum (WEN4)	191.00	199.00	4780.00	31400.00 J-1		28.10
Aluminum (WEN5)	191.00	199.00	4780.00	31400.00 J-1		28.10
Aluminum (WEN6)	191.00	199.00	4780.00	31400.00 J-1		28.10
Arsenic (WEN2)	280.00	18.60	51.30	6.97	8690.00	3960.00
Arsenic (WEN3)	280.00	18.60	51.30	6.97	8690.00	3960.00
Arsenic (WEN4)	280.00	18.60	51.30	6.97	8690.00	3960.00
Arsenic (WEN5)	280.00	18.60	51.30	6.97	8690.00	3960.00
Arsenic (WEN6)	280.00	18.60	51.30	6.97	8690.00	3960.00
Arsenic, Inorganic	280.00	18.60	51.30	6.97	8690.00	3960.00
Iron	2130.00	1090.00	6740.00	25600.00		59.00
Iron (WEN2)	2130.00	1090.00	6740.00	25600.00		59.00
Iron (WEN3)	2130.00	1090.00	6740.00	25600.00		59.00
Iron (WEN4)	2130.00	1090.00	6740.00	25600.00		59.00
Iron (WEN5)	2130.00	1090.00	6740.00	25600.00		59.00
Iron (WEN6)	2130.00	1090.00	6740.00	25600.00		59.00
Manganese	8.64	4.54	62.10	517.00		2.05
Manganese (WEN2)	8.64	4.54	62.10	517.00		2.05
Manganese (WEN3)	8.64	4.54	62.10	517.00		2.05
Manganese (WEN4)	8.64	4.54	62.10	517.00		2.05
Manganese (WEN5)	8.64	4.54	62.10	517.00		2.05
Manganese (WEN6)	8.64	4.54	62.10	517.00		2.05
Silicon	56.40	142.00	167.00	261000.00		774.00

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-101-091417-8.2-10.2-(42)	SO-PTC-101-091417-8.2-10.2-(43)	SO-PTC-101-091417-8.2-10.2-(44)	SO-PTC-101-091417-8.2-10.2-(45)	SO-PTC-104-092018-14.2-14.7	SO-PTC-104-092018-14.2-14.7-(41)
	Site ID:	PTC-101	PTC-101	PTC-101	PTC-101	PTC-104	PTC-104
	Sample Date:	09/14/17	09/14/17	09/14/17	09/14/17	09/20/18	09/20/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Silicon (WEN2)		56.40	142.00	167.00	261000.00		774.00
Silicon (WEN3)		56.40	142.00	167.00	261000.00		774.00
Silicon (WEN4)		56.40	142.00	167.00	261000.00		774.00
Silicon (WEN5)		56.40	142.00	167.00	261000.00		774.00
Silicon (WEN6)		56.40	142.00	167.00	261000.00		774.00
Sequential Extraction Conventionals							
Total Solid							
Total Solid						53.25	

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-104-092018-14. 2-14.7-(42)	SO-PTC-104-092018-14. 2-14.7-(43)	SO-PTC-104-092018-14. 2-14.7-(44)	SO-PTC-104-092018-14. 2-14.7-(45)	SO-PTC-108-092118-13. 2-14.2	SO-PTC-108-092118-13 .2-14.2-(41)
	Site ID:	PTC-104	PTC-104	PTC-104	PTC-104	PTC-108	PTC-108
	Sample Date:	09/20/18	09/20/18	09/20/18	09/20/18	09/21/18	09/21/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Sequential Extraction Metals (mg/kg)							
Aluminum (WEN2)							
Aluminum (WEN3)							
Aluminum (WEN4)							
Aluminum (WEN5)							
Aluminum (WEN6)							
Arsenic (WEN2)							
Arsenic (WEN3)							
Arsenic (WEN4)							
Arsenic (WEN5)							
Arsenic (WEN6)							
Arsenic, Inorganic							
Iron (WEN2)							
Iron (WEN3)							
Iron (WEN4)							
Iron (WEN5)							
Iron (WEN6)							
Manganese (WEN2)							
Manganese (WEN3)							
Manganese (WEN4)							
Manganese (WEN5)							
Manganese (WEN6)							
Silicon (WEN2)							
Silicon (WEN3)							
Silicon (WEN4)							
Silicon (WEN5)							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-104-092018-14. 2-14.7-(42) PTC-104 09/20/18 Soil	SO-PTC-104-092018-14. 2-14.7-(43) PTC-104 09/20/18 Soil	SO-PTC-104-092018-14. 2-14.7-(44) PTC-104 09/20/18 Soil	SO-PTC-104-092018-14. 2-14.7-(45) PTC-104 09/20/18 Soil	SO-PTC-108-092118-13. 2-14.2 PTC-108 09/21/18 Soil	SO-PTC-108-092118-13 .2-14.2-(41) PTC-108 09/21/18 Soil
Silicon (WEN6)							
Aluminum		291.00	580.00	9890.00	21400.00 J-1		19.90
Aluminum (WEN2)		291.00	580.00	9890.00	21400.00 J-1		19.90
Aluminum (WEN3)		291.00	580.00	9890.00	21400.00 J-1		19.90
Aluminum (WEN4)		291.00	580.00	9890.00	21400.00 J-1		19.90
Aluminum (WEN5)		291.00	580.00	9890.00	21400.00 J-1		19.90
Aluminum (WEN6)		291.00	580.00	9890.00	21400.00 J-1		19.90
Arsenic (WEN2)		475.00	111.00	1190.00	23.90	6190.00	2370.00
Arsenic (WEN3)		475.00	111.00	1190.00	23.90	6190.00	2370.00
Arsenic (WEN4)		475.00	111.00	1190.00	23.90	6190.00	2370.00
Arsenic (WEN5)		475.00	111.00	1190.00	23.90	6190.00	2370.00
Arsenic (WEN6)		475.00	111.00	1190.00	23.90	6190.00	2370.00
Arsenic, Inorganic		475.00	111.00	1190.00	23.90	6190.00	2370.00
Iron		1030.00	1240.00	12000.00	10400.00		650.00
Iron (WEN2)		1030.00	1240.00	12000.00	10400.00		650.00
Iron (WEN3)		1030.00	1240.00	12000.00	10400.00		650.00
Iron (WEN4)		1030.00	1240.00	12000.00	10400.00		650.00
Iron (WEN5)		1030.00	1240.00	12000.00	10400.00		650.00
Iron (WEN6)		1030.00	1240.00	12000.00	10400.00		650.00
Manganese		17.80	8.60	92.30	182.00		52.50
Manganese (WEN2)		17.80	8.60	92.30	182.00		52.50
Manganese (WEN3)		17.80	8.60	92.30	182.00		52.50
Manganese (WEN4)		17.80	8.60	92.30	182.00		52.50
Manganese (WEN5)		17.80	8.60	92.30	182.00		52.50
Manganese (WEN6)		17.80	8.60	92.30	182.00		52.50
Silicon		379.00	523.00	68.00 J-1	226000.00		229.00

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-104-092018-14. 2-14.7-(42)	SO-PTC-104-092018-14. 2-14.7-(43)	SO-PTC-104-092018-14. 2-14.7-(44)	SO-PTC-104-092018-14. 2-14.7-(45)	SO-PTC-108-092118-13. 2-14.2	SO-PTC-108-092118-13 .2-14.2-(41)
	Site ID:	PTC-104	PTC-104	PTC-104	PTC-104	PTC-108	PTC-108
	Sample Date:	09/20/18	09/20/18	09/20/18	09/20/18	09/21/18	09/21/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Silicon (WEN2)		379.00	523.00	68.00 J-1	226000.00		229.00
Silicon (WEN3)		379.00	523.00	68.00 J-1	226000.00		229.00
Silicon (WEN4)		379.00	523.00	68.00 J-1	226000.00		229.00
Silicon (WEN5)		379.00	523.00	68.00 J-1	226000.00		229.00
Silicon (WEN6)		379.00	523.00	68.00 J-1	226000.00		229.00
Sequential Extraction Conventionals							
Total Solid							
Total Solid						44.97	

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-108-092118-13. 2-14.2-(42) PTC-108 09/21/18 Soil	SO-PTC-108-092118-13. 2-14.2-(43) PTC-108 09/21/18 Soil	SO-PTC-108-092118-13. 2-14.2-(44) PTC-108 09/21/18 Soil	SO-PTC-108-092118-13. 2-14.2-(45) PTC-108 09/21/18 Soil	SO-PTC-111-091817-20. 0-22.0-(41) PTC-111 09/18/17 Soil	SO-PTC-111-091817-20. .0-22.0-(42) PTC-111 09/18/17 Soil
Sequential Extraction Metals (mg/kg)							
Aluminum (WEN2)							
Aluminum (WEN3)							
Aluminum (WEN4)							
Aluminum (WEN5)							
Aluminum (WEN6)							
Arsenic (WEN2)							
Arsenic (WEN3)							
Arsenic (WEN4)							
Arsenic (WEN5)							
Arsenic (WEN6)							
Arsenic, Inorganic							
Iron (WEN2)							
Iron (WEN3)							
Iron (WEN4)							
Iron (WEN5)							
Iron (WEN6)							
Manganese (WEN2)							
Manganese (WEN3)							
Manganese (WEN4)							
Manganese (WEN5)							
Manganese (WEN6)							
Silicon (WEN2)							
Silicon (WEN3)							
Silicon (WEN4)							
Silicon (WEN5)							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-108-092118-13. 2-14.2-(42) PTC-108 09/21/18 Soil	SO-PTC-108-092118-13. 2-14.2-(43) PTC-108 09/21/18 Soil	SO-PTC-108-092118-13. 2-14.2-(44) PTC-108 09/21/18 Soil	SO-PTC-108-092118-13. 2-14.2-(45) PTC-108 09/21/18 Soil	SO-PTC-111-091817-20. 0-22.0-(41) PTC-111 09/18/17 Soil	SO-PTC-111-091817-20. .0-22.0-(42) PTC-111 09/18/17 Soil
Silicon (WEN6)							
Aluminum		1210.00	1050.00	12400.00	21600.00 J-1	8.54	170.00
Aluminum (WEN2)		1210.00	1050.00	12400.00	21600.00 J-1	8.54	170.00
Aluminum (WEN3)		1210.00	1050.00	12400.00	21600.00 J-1	8.54	170.00
Aluminum (WEN4)		1210.00	1050.00	12400.00	21600.00 J-1	8.54	170.00
Aluminum (WEN5)		1210.00	1050.00	12400.00	21600.00 J-1	8.54	170.00
Aluminum (WEN6)		1210.00	1050.00	12400.00	21600.00 J-1	8.54	170.00
Arsenic (WEN2)		695.00	128.00	5300.00	78.80	8.14	9.05
Arsenic (WEN3)		695.00	128.00	5300.00	78.80	8.14	9.05
Arsenic (WEN4)		695.00	128.00	5300.00	78.80	8.14	9.05
Arsenic (WEN5)		695.00	128.00	5300.00	78.80	8.14	9.05
Arsenic (WEN6)		695.00	128.00	5300.00	78.80	8.14	9.05
Arsenic, Inorganic		695.00	128.00	5300.00	78.80	8.14	9.05
Iron		11600.00	2320.00	11200.00	9060.00	8.12	370.00
Iron (WEN2)		11600.00	2320.00	11200.00	9060.00	8.12	370.00
Iron (WEN3)		11600.00	2320.00	11200.00	9060.00	8.12	370.00
Iron (WEN4)		11600.00	2320.00	11200.00	9060.00	8.12	370.00
Iron (WEN5)		11600.00	2320.00	11200.00	9060.00	8.12	370.00
Iron (WEN6)		11600.00	2320.00	11200.00	9060.00	8.12	370.00
Manganese		129.00	16.60	81.40	154.00	1.30	2.10
Manganese (WEN2)		129.00	16.60	81.40	154.00	1.30	2.10
Manganese (WEN3)		129.00	16.60	81.40	154.00	1.30	2.10
Manganese (WEN4)		129.00	16.60	81.40	154.00	1.30	2.10
Manganese (WEN5)		129.00	16.60	81.40	154.00	1.30	2.10
Manganese (WEN6)		129.00	16.60	81.40	154.00	1.30	2.10
Silicon		418.00	704.00	55.30 J-1	224000.00	50.60	91.30

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-108-092118-13.	SO-PTC-108-092118-13.	SO-PTC-108-092118-13.	SO-PTC-108-092118-13.	SO-PTC-111-091817-20.	SO-PTC-111-091817-20.
	Site ID:	2-14.2-(42)	2-14.2-(43)	2-14.2-(44)	2-14.2-(45)	0-22.0-(41)	0-22.0-(42)
	Sample Date:	PTC-108	PTC-108	PTC-108	PTC-108	PTC-111	PTC-111
	Media:	09/21/18	09/21/18	09/21/18	09/21/18	09/18/17	09/18/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Silicon (WEN2)		418.00	704.00	55.30 J-1	224000.00	50.60	91.30
Silicon (WEN3)		418.00	704.00	55.30 J-1	224000.00	50.60	91.30
Silicon (WEN4)		418.00	704.00	55.30 J-1	224000.00	50.60	91.30
Silicon (WEN5)		418.00	704.00	55.30 J-1	224000.00	50.60	91.30
Silicon (WEN6)		418.00	704.00	55.30 J-1	224000.00	50.60	91.30
Sequential Extraction Conventionals							
Total Solid							
Total Solid							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: 0-22.0-(43) Site ID: PTC-111 Sample Date: 09/18/17 Media: Soil	SO-PTC-111-091817-20. 0-22.0-(44) PTC-111 09/18/17 Soil	SO-PTC-111-091817-20. 0-22.0-(45) PTC-111 09/18/17 Soil	SO-PTC-111-091817-6.0- 8.0-(41) PTC-111 09/18/17 Soil	SO-PTC-111-091817-6.0- 8.0-(42) PTC-111 09/18/17 Soil	SO-PTC-111-091817-6.0- 8.0-(43) PTC-111 09/18/17 Soil
Sequential Extraction Metals (mg/kg)						
Aluminum (WEN2)						
Aluminum (WEN3)						
Aluminum (WEN4)						
Aluminum (WEN5)						
Aluminum (WEN6)						
Arsenic (WEN2)						
Arsenic (WEN3)						
Arsenic (WEN4)						
Arsenic (WEN5)						
Arsenic (WEN6)						
Arsenic, Inorganic						
Iron (WEN2)						
Iron (WEN3)						
Iron (WEN4)						
Iron (WEN5)						
Iron (WEN6)						
Manganese (WEN2)						
Manganese (WEN3)						
Manganese (WEN4)						
Manganese (WEN5)						
Manganese (WEN6)						
Silicon (WEN2)						
Silicon (WEN3)						
Silicon (WEN4)						
Silicon (WEN5)						

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-111-091817-20. 0-22.0-(43) PTC-111 09/18/17 Soil	SO-PTC-111-091817-20. 0-22.0-(44) PTC-111 09/18/17 Soil	SO-PTC-111-091817-20. 0-22.0-(45) PTC-111 09/18/17 Soil	SO-PTC-111-091817-6.0- 8.0-(41) PTC-111 09/18/17 Soil	SO-PTC-111-091817-6.0- 8.0-(42) PTC-111 09/18/17 Soil	SO-PTC-111-091817-6. 0-8.0-(43) PTC-111 09/18/17 Soil
Silicon (WEN6)							
Aluminum		268.00	5140.00	36200.00 J-1	11.80	3110.00	286.00
Aluminum (WEN2)		268.00	5140.00	36200.00 J-1	11.80	3110.00	286.00
Aluminum (WEN3)		268.00	5140.00	36200.00 J-1	11.80	3110.00	286.00
Aluminum (WEN4)		268.00	5140.00	36200.00 J-1	11.80	3110.00	286.00
Aluminum (WEN5)		268.00	5140.00	36200.00 J-1	11.80	3110.00	286.00
Aluminum (WEN6)		268.00	5140.00	36200.00 J-1	11.80	3110.00	286.00
Arsenic (WEN2)		2.24 J	13.40	2.87 J	78.20	479.00	26.00
Arsenic (WEN3)		2.24 J	13.40	2.87 J	78.20	479.00	26.00
Arsenic (WEN4)		2.24 J	13.40	2.87 J	78.20	479.00	26.00
Arsenic (WEN5)		2.24 J	13.40	2.87 J	78.20	479.00	26.00
Arsenic (WEN6)		2.24 J	13.40	2.87 J	78.20	479.00	26.00
Arsenic, Inorganic		2.24 J	13.40	2.87 J	78.20	479.00	26.00
Iron		671.00	7640.00	24600.00	0.70 J	2360.00	1290.00
Iron (WEN2)		671.00	7640.00	24600.00	0.70 J	2360.00	1290.00
Iron (WEN3)		671.00	7640.00	24600.00	0.70 J	2360.00	1290.00
Iron (WEN4)		671.00	7640.00	24600.00	0.70 J	2360.00	1290.00
Iron (WEN5)		671.00	7640.00	24600.00	0.70 J	2360.00	1290.00
Iron (WEN6)		671.00	7640.00	24600.00	0.70 J	2360.00	1290.00
Manganese		3.80	59.20	481.00	1.66	14.10	5.17
Manganese (WEN2)		3.80	59.20	481.00	1.66	14.10	5.17
Manganese (WEN3)		3.80	59.20	481.00	1.66	14.10	5.17
Manganese (WEN4)		3.80	59.20	481.00	1.66	14.10	5.17
Manganese (WEN5)		3.80	59.20	481.00	1.66	14.10	5.17
Manganese (WEN6)		3.80	59.20	481.00	1.66	14.10	5.17
Silicon		222.00	143.00	272000.00	229.00	752.00	236.00

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-111-091817-20-0-22.0-(43)	SO-PTC-111-091817-20-0-22.0-(44)	SO-PTC-111-091817-20-0-22.0-(45)	SO-PTC-111-091817-6.0-8.0-(41)	SO-PTC-111-091817-6.0-8.0-(42)	SO-PTC-111-091817-6.0-8.0-(43)
	Site ID:	PTC-111	PTC-111	PTC-111	PTC-111	PTC-111	PTC-111
	Sample Date:	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Silicon (WEN2)		222.00	143.00	272000.00	229.00	752.00	236.00
Silicon (WEN3)		222.00	143.00	272000.00	229.00	752.00	236.00
Silicon (WEN4)		222.00	143.00	272000.00	229.00	752.00	236.00
Silicon (WEN5)		222.00	143.00	272000.00	229.00	752.00	236.00
Silicon (WEN6)		222.00	143.00	272000.00	229.00	752.00	236.00
Sequential Extraction Conventionals							
Total Solid							
Total Solid							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-111-091817-6.0- 8.0-(44) PTC-111 09/18/17 Soil	SO-PTC-111-091817-6.0- 8.0-(45) PTC-111 09/18/17 Soil	SO-PTC-112-092018-17- 0-18.0 PTC-112 09/20/18 Soil	SO-PTC-112-092018-17- 0-18.0-(41) PTC-112 09/20/18 Soil	SO-PTC-112-092018-17- 0-18.0-(42) PTC-112 09/20/18 Soil	SO-PTC-112-092018-17- .0-18.0-(43) PTC-112 09/20/18 Soil
Sequential Extraction Metals (mg/kg)							
Aluminum (WEN2)							
Aluminum (WEN3)							
Aluminum (WEN4)							
Aluminum (WEN5)							
Aluminum (WEN6)							
Arsenic (WEN2)							
Arsenic (WEN3)							
Arsenic (WEN4)							
Arsenic (WEN5)							
Arsenic (WEN6)							
Arsenic, Inorganic							
Iron (WEN2)							
Iron (WEN3)							
Iron (WEN4)							
Iron (WEN5)							
Iron (WEN6)							
Manganese (WEN2)							
Manganese (WEN3)							
Manganese (WEN4)							
Manganese (WEN5)							
Manganese (WEN6)							
Silicon (WEN2)							
Silicon (WEN3)							
Silicon (WEN4)							
Silicon (WEN5)							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-111-091817-6.0- 8.0-(44) PTC-111 09/18/17 Soil	SO-PTC-111-091817-6.0- 8.0-(45) PTC-111 09/18/17 Soil	SO-PTC-112-092018-17- 0-18.0 PTC-112 09/20/18 Soil	SO-PTC-112-092018-17- 0-18.0-(41) PTC-112 09/20/18 Soil	SO-PTC-112-092018-17- 0-18.0-(42) PTC-112 09/20/18 Soil	SO-PTC-112-092018-17- .0-18.0-(43) PTC-112 09/20/18 Soil
Silicon (WEN6)							
Aluminum		5790.00	29500.00 J-1		67.10	776.00	1160.00
Aluminum (WEN2)		5790.00	29500.00 J-1		67.10	776.00	1160.00
Aluminum (WEN3)		5790.00	29500.00 J-1		67.10	776.00	1160.00
Aluminum (WEN4)		5790.00	29500.00 J-1		67.10	776.00	1160.00
Aluminum (WEN5)		5790.00	29500.00 J-1		67.10	776.00	1160.00
Aluminum (WEN6)		5790.00	29500.00 J-1		67.10	776.00	1160.00
Arsenic (WEN2)		46.40	4.75 J	1080.00	648.00	70.70	34.40
Arsenic (WEN3)		46.40	4.75 J	1080.00	648.00	70.70	34.40
Arsenic (WEN4)		46.40	4.75 J	1080.00	648.00	70.70	34.40
Arsenic (WEN5)		46.40	4.75 J	1080.00	648.00	70.70	34.40
Arsenic (WEN6)		46.40	4.75 J	1080.00	648.00	70.70	34.40
Arsenic, Inorganic		46.40	4.75 J	1080.00	648.00	70.70	34.40
Iron		7340.00	27700.00		15.70	292.00	1620.00
Iron (WEN2)		7340.00	27700.00		15.70	292.00	1620.00
Iron (WEN3)		7340.00	27700.00		15.70	292.00	1620.00
Iron (WEN4)		7340.00	27700.00		15.70	292.00	1620.00
Iron (WEN5)		7340.00	27700.00		15.70	292.00	1620.00
Iron (WEN6)		7340.00	27700.00		15.70	292.00	1620.00
Manganese		68.50	558.00		2.00	6.13	10.20
Manganese (WEN2)		68.50	558.00		2.00	6.13	10.20
Manganese (WEN3)		68.50	558.00		2.00	6.13	10.20
Manganese (WEN4)		68.50	558.00		2.00	6.13	10.20
Manganese (WEN5)		68.50	558.00		2.00	6.13	10.20
Manganese (WEN6)		68.50	558.00		2.00	6.13	10.20
Silicon		145.00	276000.00		224.00	232.00	651.00

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-111-091817-6.0-8.0-(44)	SO-PTC-111-091817-6.0-8.0-(45)	SO-PTC-112-092018-17-0-18.0	SO-PTC-112-092018-17-0-18.0-(41)	SO-PTC-112-092018-17-0-18.0-(42)	SO-PTC-112-092018-17-0-18.0-(43)
	Site ID:	PTC-111	PTC-111	PTC-112	PTC-112	PTC-112	PTC-112
	Sample Date:	09/18/17	09/18/17	09/20/18	09/20/18	09/20/18	09/20/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Silicon (WEN2)		145.00	276000.00		224.00	232.00	651.00
Silicon (WEN3)		145.00	276000.00		224.00	232.00	651.00
Silicon (WEN4)		145.00	276000.00		224.00	232.00	651.00
Silicon (WEN5)		145.00	276000.00		224.00	232.00	651.00
Silicon (WEN6)		145.00	276000.00		224.00	232.00	651.00
Sequential Extraction Conventionals							
Total Solid							
Total Solid				62.75			

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent Sample ID: Site ID: Sample Date: Media:	SO-PTC-112-092018-17. 0-18.0-(44) PTC-112 09/20/18 Soil	SO-PTC-112-092018-17. 0-18.0-(45) PTC-112 09/20/18 Soil	SO-PTC-113-092017-18. 0-20.0-(41) PTC-113 09/20/17 Soil	SO-PTC-113-092017-18. 0-20.0-(42) PTC-113 09/20/17 Soil	SO-PTC-113-092017-18. 0-20.0-(43) PTC-113 09/20/17 Soil	SO-PTC-113-092017-18. 0-20.0-(44) PTC-113 09/20/17 Soil
Sequential Extraction Metals (mg/kg)						
Aluminum (WEN2)						
Aluminum (WEN3)						
Aluminum (WEN4)						
Aluminum (WEN5)						
Aluminum (WEN6)						
Arsenic (WEN2)						
Arsenic (WEN3)						
Arsenic (WEN4)						
Arsenic (WEN5)						
Arsenic (WEN6)						
Arsenic, Inorganic						
Iron (WEN2)						
Iron (WEN3)						
Iron (WEN4)						
Iron (WEN5)						
Iron (WEN6)						
Manganese (WEN2)						
Manganese (WEN3)						
Manganese (WEN4)						
Manganese (WEN5)						
Manganese (WEN6)						
Silicon (WEN2)						
Silicon (WEN3)						
Silicon (WEN4)						
Silicon (WEN5)						

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-112-092018-17. 0-18.0-(44) PTC-112 09/20/18 Soil	SO-PTC-112-092018-17. 0-18.0-(45) PTC-112 09/20/18 Soil	SO-PTC-113-092017-18. 0-20.0-(41) PTC-113 09/20/17 Soil	SO-PTC-113-092017-18. 0-20.0-(42) PTC-113 09/20/17 Soil	SO-PTC-113-092017-18. 0-20.0-(43) PTC-113 09/20/17 Soil	SO-PTC-113-092017-18 .0-20.0-(44) PTC-113 09/20/17 Soil
Silicon (WEN6)							
Aluminum		12200.00	24800.00 J-1	75.40	367.00	560.00	8950.00
Aluminum (WEN2)		12200.00	24800.00 J-1	75.40	367.00	560.00	8950.00
Aluminum (WEN3)		12200.00	24800.00 J-1	75.40	367.00	560.00	8950.00
Aluminum (WEN4)		12200.00	24800.00 J-1	75.40	367.00	560.00	8950.00
Aluminum (WEN5)		12200.00	24800.00 J-1	75.40	367.00	560.00	8950.00
Aluminum (WEN6)		12200.00	24800.00 J-1	75.40	367.00	560.00	8950.00
Arsenic (WEN2)		809.00	11.60	896.00	127.00	29.50	1140.00
Arsenic (WEN3)		809.00	11.60	896.00	127.00	29.50	1140.00
Arsenic (WEN4)		809.00	11.60	896.00	127.00	29.50	1140.00
Arsenic (WEN5)		809.00	11.60	896.00	127.00	29.50	1140.00
Arsenic (WEN6)		809.00	11.60	896.00	127.00	29.50	1140.00
Arsenic, Inorganic		809.00	11.60	896.00	127.00	29.50	1140.00
Iron		11500.00	8750.00	52.30	213.00	999.00	9770.00
Iron (WEN2)		11500.00	8750.00	52.30	213.00	999.00	9770.00
Iron (WEN3)		11500.00	8750.00	52.30	213.00	999.00	9770.00
Iron (WEN4)		11500.00	8750.00	52.30	213.00	999.00	9770.00
Iron (WEN5)		11500.00	8750.00	52.30	213.00	999.00	9770.00
Iron (WEN6)		11500.00	8750.00	52.30	213.00	999.00	9770.00
Manganese		105.00	157.00	1.93	3.91	5.43	51.50
Manganese (WEN2)		105.00	157.00	1.93	3.91	5.43	51.50
Manganese (WEN3)		105.00	157.00	1.93	3.91	5.43	51.50
Manganese (WEN4)		105.00	157.00	1.93	3.91	5.43	51.50
Manganese (WEN5)		105.00	157.00	1.93	3.91	5.43	51.50
Manganese (WEN6)		105.00	157.00	1.93	3.91	5.43	51.50
Silicon		56.70 J-1	211000.00	151.00	132.00	424.00	227.00

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-112-092018-17. 0-18.0-(44)	SO-PTC-112-092018-17. 0-18.0-(45)	SO-PTC-113-092017-18. 0-20.0-(41)	SO-PTC-113-092017-18. 0-20.0-(42)	SO-PTC-113-092017-18. 0-20.0-(43)	SO-PTC-113-092017-18. .0-20.0-(44)
	Site ID:	PTC-112	PTC-112	PTC-113	PTC-113	PTC-113	PTC-113
	Sample Date:	09/20/18	09/20/18	09/20/17	09/20/17	09/20/17	09/20/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Silicon (WEN2)		56.70 J-1	211000.00	151.00	132.00	424.00	227.00
Silicon (WEN3)		56.70 J-1	211000.00	151.00	132.00	424.00	227.00
Silicon (WEN4)		56.70 J-1	211000.00	151.00	132.00	424.00	227.00
Silicon (WEN5)		56.70 J-1	211000.00	151.00	132.00	424.00	227.00
Silicon (WEN6)		56.70 J-1	211000.00	151.00	132.00	424.00	227.00
Sequential Extraction Conventionals							
Total Solid							
Total Solid							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: 0-20.0-(45) Site ID: PTC-113 Sample Date: 09/20/17 Media: Soil	SO-PTC-113-092017-18. 10.0-(41) PTC-113 09/20/17 Soil	SO-PTC-113-092017-7.5- 10.0-(42) PTC-113 09/20/17 Soil	SO-PTC-113-092017-7.5- 10.0-(43) PTC-113 09/20/17 Soil	SO-PTC-113-092017-7.5- 10.0-(44) PTC-113 09/20/17 Soil	SO-PTC-113-092017-7.5- 5-10.0-(45) PTC-113 09/20/17 Soil
Sequential Extraction Metals (mg/kg)						
Aluminum (WEN2)						
Aluminum (WEN3)						
Aluminum (WEN4)						
Aluminum (WEN5)						
Aluminum (WEN6)						
Arsenic (WEN2)						
Arsenic (WEN3)						
Arsenic (WEN4)						
Arsenic (WEN5)						
Arsenic (WEN6)						
Arsenic, Inorganic						
Iron (WEN2)						
Iron (WEN3)						
Iron (WEN4)						
Iron (WEN5)						
Iron (WEN6)						
Manganese (WEN2)						
Manganese (WEN3)						
Manganese (WEN4)						
Manganese (WEN5)						
Manganese (WEN6)						
Silicon (WEN2)						
Silicon (WEN3)						
Silicon (WEN4)						
Silicon (WEN5)						

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-113-092017-18. 0-20.0-(45) PTC-113 09/20/17 Soil	SO-PTC-113-092017-7.5- 10.0-(41) PTC-113 09/20/17 Soil	SO-PTC-113-092017-7.5- 10.0-(42) PTC-113 09/20/17 Soil	SO-PTC-113-092017-7.5- 10.0-(43) PTC-113 09/20/17 Soil	SO-PTC-113-092017-7.5- 10.0-(44) PTC-113 09/20/17 Soil	SO-PTC-113-092017-7. 5-10.0-(45) PTC-113 09/20/17 Soil
Silicon (WEN6)							
Aluminum		40800.00 J-1	4.50	534.00	251.00	4940.00	29800.00 J-1
Aluminum (WEN2)		40800.00 J-1	4.50	534.00	251.00	4940.00	29800.00 J-1
Aluminum (WEN3)		40800.00 J-1	4.50	534.00	251.00	4940.00	29800.00 J-1
Aluminum (WEN4)		40800.00 J-1	4.50	534.00	251.00	4940.00	29800.00 J-1
Aluminum (WEN5)		40800.00 J-1	4.50	534.00	251.00	4940.00	29800.00 J-1
Aluminum (WEN6)		40800.00 J-1	4.50	534.00	251.00	4940.00	29800.00 J-1
Arsenic (WEN2)		11.90	53.60	276.00	20.20	33.10	4.59 J
Arsenic (WEN3)		11.90	53.60	276.00	20.20	33.10	4.59 J
Arsenic (WEN4)		11.90	53.60	276.00	20.20	33.10	4.59 J
Arsenic (WEN5)		11.90	53.60	276.00	20.20	33.10	4.59 J
Arsenic (WEN6)		11.90	53.60	276.00	20.20	33.10	4.59 J
Arsenic, Inorganic		11.90	53.60	276.00	20.20	33.10	4.59 J
Iron		21600.00	17.60	4880.00	1400.00	7380.00	25300.00
Iron (WEN2)		21600.00	17.60	4880.00	1400.00	7380.00	25300.00
Iron (WEN3)		21600.00	17.60	4880.00	1400.00	7380.00	25300.00
Iron (WEN4)		21600.00	17.60	4880.00	1400.00	7380.00	25300.00
Iron (WEN5)		21600.00	17.60	4880.00	1400.00	7380.00	25300.00
Iron (WEN6)		21600.00	17.60	4880.00	1400.00	7380.00	25300.00
Manganese		398.00	3.20	7.99	4.94	68.60	513.00
Manganese (WEN2)		398.00	3.20	7.99	4.94	68.60	513.00
Manganese (WEN3)		398.00	3.20	7.99	4.94	68.60	513.00
Manganese (WEN4)		398.00	3.20	7.99	4.94	68.60	513.00
Manganese (WEN5)		398.00	3.20	7.99	4.94	68.60	513.00
Manganese (WEN6)		398.00	3.20	7.99	4.94	68.60	513.00
Silicon		257000.00	122.00	275.00	191.00	196.00	270000.00

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: 0-20.0-(45) Site ID: PTC-113 Sample Date: 09/20/17 Media: Soil	SO-PTC-113-092017-18. 10.0-(41) PTC-113 09/20/17 Soil	SO-PTC-113-092017-7.5- 10.0-(42) PTC-113 09/20/17 Soil	SO-PTC-113-092017-7.5- 10.0-(43) PTC-113 09/20/17 Soil	SO-PTC-113-092017-7.5- 10.0-(44) PTC-113 09/20/17 Soil	SO-PTC-113-092017-7.5- 5-10.0-(45) PTC-113 09/20/17 Soil
Silicon (WEN2)	257000.00	122.00	275.00	191.00	196.00	270000.00
Silicon (WEN3)	257000.00	122.00	275.00	191.00	196.00	270000.00
Silicon (WEN4)	257000.00	122.00	275.00	191.00	196.00	270000.00
Silicon (WEN5)	257000.00	122.00	275.00	191.00	196.00	270000.00
Silicon (WEN6)	257000.00	122.00	275.00	191.00	196.00	270000.00
Sequential Extraction Conventionals						
Total Solid						
Total Solid						

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-120-092118-11. 0-12.0	SO-PTC-120-092118-11. 0-12.0-(41)	SO-PTC-120-092118-11. 0-12.0-(42)	SO-PTC-120-092118-11. 0-12.0-(43)	SO-PTC-120-092118-11. 0-12.0-(44)	SO-PTC-120-092118-11. 0-12.0-(45)
	Site ID:	PTC-120	PTC-120	PTC-120	PTC-120	PTC-120	PTC-120
	Sample Date:	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Sequential Extraction Metals (mg/kg)							
Aluminum (WEN2)							
Aluminum (WEN3)							
Aluminum (WEN4)							
Aluminum (WEN5)							
Aluminum (WEN6)							
Arsenic (WEN2)							
Arsenic (WEN3)							
Arsenic (WEN4)							
Arsenic (WEN5)							
Arsenic (WEN6)							
Arsenic, Inorganic							
Iron (WEN2)							
Iron (WEN3)							
Iron (WEN4)							
Iron (WEN5)							
Iron (WEN6)							
Manganese (WEN2)							
Manganese (WEN3)							
Manganese (WEN4)							
Manganese (WEN5)							
Manganese (WEN6)							
Silicon (WEN2)							
Silicon (WEN3)							
Silicon (WEN4)							
Silicon (WEN5)							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-120-092118-11. 0-12.0 PTC-120 09/21/18 Soil	SO-PTC-120-092118-11. 0-12.0-(41) PTC-120 09/21/18 Soil	SO-PTC-120-092118-11. 0-12.0-(42) PTC-120 09/21/18 Soil	SO-PTC-120-092118-11. 0-12.0-(43) PTC-120 09/21/18 Soil	SO-PTC-120-092118-11. 0-12.0-(44) PTC-120 09/21/18 Soil	SO-PTC-120-092118-11 .0-12.0-(45) PTC-120 09/21/18 Soil
Silicon (WEN6)							
Aluminum			84.90	1230.00	495.00	11900.00	21800.00 J-1
Aluminum (WEN2)			84.90	1230.00	495.00	11900.00	21800.00 J-1
Aluminum (WEN3)			84.90	1230.00	495.00	11900.00	21800.00 J-1
Aluminum (WEN4)			84.90	1230.00	495.00	11900.00	21800.00 J-1
Aluminum (WEN5)			84.90	1230.00	495.00	11900.00	21800.00 J-1
Aluminum (WEN6)			84.90	1230.00	495.00	11900.00	21800.00 J-1
Arsenic (WEN2)		3470.00	127.00	80.70	19.50	3660.00	28.20
Arsenic (WEN3)		3470.00	127.00	80.70	19.50	3660.00	28.20
Arsenic (WEN4)		3470.00	127.00	80.70	19.50	3660.00	28.20
Arsenic (WEN5)		3470.00	127.00	80.70	19.50	3660.00	28.20
Arsenic (WEN6)		3470.00	127.00	80.70	19.50	3660.00	28.20
Arsenic, Inorganic		3470.00	127.00	80.70	19.50	3660.00	28.20
Iron			113.00	7140.00	889.00	9520.00	14700.00
Iron (WEN2)			113.00	7140.00	889.00	9520.00	14700.00
Iron (WEN3)			113.00	7140.00	889.00	9520.00	14700.00
Iron (WEN4)			113.00	7140.00	889.00	9520.00	14700.00
Iron (WEN5)			113.00	7140.00	889.00	9520.00	14700.00
Iron (WEN6)			113.00	7140.00	889.00	9520.00	14700.00
Manganese			5.00	83.50	3.93	80.70	268.00
Manganese (WEN2)			5.00	83.50	3.93	80.70	268.00
Manganese (WEN3)			5.00	83.50	3.93	80.70	268.00
Manganese (WEN4)			5.00	83.50	3.93	80.70	268.00
Manganese (WEN5)			5.00	83.50	3.93	80.70	268.00
Manganese (WEN6)			5.00	83.50	3.93	80.70	268.00
Silicon			330.00	431.00	300.00	47.60 J-1	259000.00

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-120-092118-11.	SO-PTC-120-092118-11.	SO-PTC-120-092118-11.	SO-PTC-120-092118-11.	SO-PTC-120-092118-11.	SO-PTC-120-092118-11
	Site ID:	0-12.0	0-12.0-(41)	0-12.0-(42)	0-12.0-(43)	0-12.0-(44)	0-12.0-(45)
	Sample Date:	PTC-120	PTC-120	PTC-120	PTC-120	PTC-120	PTC-120
	Media:	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18	09/21/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Silicon (WEN2)			330.00	431.00	300.00	47.60 J-1	259000.00
Silicon (WEN3)			330.00	431.00	300.00	47.60 J-1	259000.00
Silicon (WEN4)			330.00	431.00	300.00	47.60 J-1	259000.00
Silicon (WEN5)			330.00	431.00	300.00	47.60 J-1	259000.00
Silicon (WEN6)			330.00	431.00	300.00	47.60 J-1	259000.00
Sequential Extraction Conventionals							
Total Solid							
Total Solid		59.32					

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent Sample ID: Site ID: Sample Date: Media:	SO-PTC-121-091817-11. 0-13.0-(41) PTC-121 09/18/17 Soil	SO-PTC-121-091817-11. 0-13.0-(42) PTC-121 09/18/17 Soil	SO-PTC-121-091817-11. 0-13.0-(43) PTC-121 09/18/17 Soil	SO-PTC-121-091817-11. 0-13.0-(44) PTC-121 09/18/17 Soil	SO-PTC-121-091817-11. 0-13.0-(45) PTC-121 09/18/17 Soil	SO-PTC-121-091817-22 .0-24.0-(41) PTC-121 09/18/17 Soil
Sequential Extraction Metals (mg/kg)						
Aluminum (WEN2)						
Aluminum (WEN3)						
Aluminum (WEN4)						
Aluminum (WEN5)						
Aluminum (WEN6)						
Arsenic (WEN2)						
Arsenic (WEN3)						
Arsenic (WEN4)						
Arsenic (WEN5)						
Arsenic (WEN6)						
Arsenic, Inorganic						
Iron (WEN2)						
Iron (WEN3)						
Iron (WEN4)						
Iron (WEN5)						
Iron (WEN6)						
Manganese (WEN2)						
Manganese (WEN3)						
Manganese (WEN4)						
Manganese (WEN5)						
Manganese (WEN6)						
Silicon (WEN2)						
Silicon (WEN3)						
Silicon (WEN4)						
Silicon (WEN5)						

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-121-091817-11. 0-13.0-(41) PTC-121 09/18/17 Soil	SO-PTC-121-091817-11. 0-13.0-(42) PTC-121 09/18/17 Soil	SO-PTC-121-091817-11. 0-13.0-(43) PTC-121 09/18/17 Soil	SO-PTC-121-091817-11. 0-13.0-(44) PTC-121 09/18/17 Soil	SO-PTC-121-091817-11. 0-13.0-(45) PTC-121 09/18/17 Soil	SO-PTC-121-091817-22 .0-24.0-(41) PTC-121 09/18/17 Soil
Silicon (WEN6)							
Aluminum		2.90	274.00	225.00	5120.00	33700.00 J-1	5.58
Aluminum (WEN2)		2.90	274.00	225.00	5120.00	33700.00 J-1	5.58
Aluminum (WEN3)		2.90	274.00	225.00	5120.00	33700.00 J-1	5.58
Aluminum (WEN4)		2.90	274.00	225.00	5120.00	33700.00 J-1	5.58
Aluminum (WEN5)		2.90	274.00	225.00	5120.00	33700.00 J-1	5.58
Aluminum (WEN6)		2.90	274.00	225.00	5120.00	33700.00 J-1	5.58
Arsenic (WEN2)		248.00	181.00	14.70	162.00	7.11	10.20
Arsenic (WEN3)		248.00	181.00	14.70	162.00	7.11	10.20
Arsenic (WEN4)		248.00	181.00	14.70	162.00	7.11	10.20
Arsenic (WEN5)		248.00	181.00	14.70	162.00	7.11	10.20
Arsenic (WEN6)		248.00	181.00	14.70	162.00	7.11	10.20
Arsenic, Inorganic		248.00	181.00	14.70	162.00	7.11	10.20
Iron		97.90	2420.00	940.00	8310.00	23600.00	18.60
Iron (WEN2)		97.90	2420.00	940.00	8310.00	23600.00	18.60
Iron (WEN3)		97.90	2420.00	940.00	8310.00	23600.00	18.60
Iron (WEN4)		97.90	2420.00	940.00	8310.00	23600.00	18.60
Iron (WEN5)		97.90	2420.00	940.00	8310.00	23600.00	18.60
Iron (WEN6)		97.90	2420.00	940.00	8310.00	23600.00	18.60
Manganese		2.75	10.80	3.75	68.60	454.00	1.33
Manganese (WEN2)		2.75	10.80	3.75	68.60	454.00	1.33
Manganese (WEN3)		2.75	10.80	3.75	68.60	454.00	1.33
Manganese (WEN4)		2.75	10.80	3.75	68.60	454.00	1.33
Manganese (WEN5)		2.75	10.80	3.75	68.60	454.00	1.33
Manganese (WEN6)		2.75	10.80	3.75	68.60	454.00	1.33
Silicon		75.70	92.20	166.00	191.00	264000.00	35.20

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-121-091817-11. 0-13.0-(41)	SO-PTC-121-091817-11. 0-13.0-(42)	SO-PTC-121-091817-11. 0-13.0-(43)	SO-PTC-121-091817-11. 0-13.0-(44)	SO-PTC-121-091817-11. 0-13.0-(45)	SO-PTC-121-091817-22 .0-24.0-(41)
	Site ID:	PTC-121	PTC-121	PTC-121	PTC-121	PTC-121	PTC-121
	Sample Date:	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17	09/18/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Silicon (WEN2)		75.70	92.20	166.00	191.00	264000.00	35.20
Silicon (WEN3)		75.70	92.20	166.00	191.00	264000.00	35.20
Silicon (WEN4)		75.70	92.20	166.00	191.00	264000.00	35.20
Silicon (WEN5)		75.70	92.20	166.00	191.00	264000.00	35.20
Silicon (WEN6)		75.70	92.20	166.00	191.00	264000.00	35.20
Sequential Extraction Conventionals							
Total Solid							
Total Solid							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent Sample ID: Site ID: Sample Date: Media:	SO-PTC-121-091817-22. 0-24.0-(42) PTC-121 09/18/17 Soil	SO-PTC-121-091817-22. 0-24.0-(43) PTC-121 09/18/17 Soil	SO-PTC-121-091817-22. 0-24.0-(44) PTC-121 09/18/17 Soil	SO-PTC-121-091817-22. 0-24.0-(45) PTC-121 09/18/17 Soil	SO-PTC-122-091818-9.5- 10.5 PTC-122 09/18/18 Soil	SO-PTC-122-091818-9. 5-10.5-(41) PTC-122 09/18/18 Soil
Sequential Extraction Metals (mg/kg)						
Aluminum (WEN2)						
Aluminum (WEN3)						
Aluminum (WEN4)						
Aluminum (WEN5)						
Aluminum (WEN6)						
Arsenic (WEN2)						
Arsenic (WEN3)						
Arsenic (WEN4)						
Arsenic (WEN5)						
Arsenic (WEN6)						
Arsenic, Inorganic						
Iron (WEN2)						
Iron (WEN3)						
Iron (WEN4)						
Iron (WEN5)						
Iron (WEN6)						
Manganese (WEN2)						
Manganese (WEN3)						
Manganese (WEN4)						
Manganese (WEN5)						
Manganese (WEN6)						
Silicon (WEN2)						
Silicon (WEN3)						
Silicon (WEN4)						
Silicon (WEN5)						

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-121-091817-22. 0-24.0-(42) PTC-121 09/18/17 Soil	SO-PTC-121-091817-22. 0-24.0-(43) PTC-121 09/18/17 Soil	SO-PTC-121-091817-22. 0-24.0-(44) PTC-121 09/18/17 Soil	SO-PTC-121-091817-22. 0-24.0-(45) PTC-121 09/18/17 Soil	SO-PTC-122-091818-9.5- 10.5 PTC-122 09/18/18 Soil	SO-PTC-122-091818-9. 5-10.5-(41) PTC-122 09/18/18 Soil
Silicon (WEN6)							
Aluminum		140.00	191.00	3950.00	28600.00 J-1		57.90
Aluminum (WEN2)		140.00	191.00	3950.00	28600.00 J-1		57.90
Aluminum (WEN3)		140.00	191.00	3950.00	28600.00 J-1		57.90
Aluminum (WEN4)		140.00	191.00	3950.00	28600.00 J-1		57.90
Aluminum (WEN5)		140.00	191.00	3950.00	28600.00 J-1		57.90
Aluminum (WEN6)		140.00	191.00	3950.00	28600.00 J-1		57.90
Arsenic (WEN2)		5.83	1.42 J	9.73	2.68 J	7720.00	599.00
Arsenic (WEN3)		5.83	1.42 J	9.73	2.68 J	7720.00	599.00
Arsenic (WEN4)		5.83	1.42 J	9.73	2.68 J	7720.00	599.00
Arsenic (WEN5)		5.83	1.42 J	9.73	2.68 J	7720.00	599.00
Arsenic (WEN6)		5.83	1.42 J	9.73	2.68 J	7720.00	599.00
Arsenic, Inorganic		5.83	1.42 J	9.73	2.68 J	7720.00	599.00
Iron		292.00	967.00	8350.00	27200.00		99.10
Iron (WEN2)		292.00	967.00	8350.00	27200.00		99.10
Iron (WEN3)		292.00	967.00	8350.00	27200.00		99.10
Iron (WEN4)		292.00	967.00	8350.00	27200.00		99.10
Iron (WEN5)		292.00	967.00	8350.00	27200.00		99.10
Iron (WEN6)		292.00	967.00	8350.00	27200.00		99.10
Manganese		1.99	4.10	65.00	546.00		12.80
Manganese (WEN2)		1.99	4.10	65.00	546.00		12.80
Manganese (WEN3)		1.99	4.10	65.00	546.00		12.80
Manganese (WEN4)		1.99	4.10	65.00	546.00		12.80
Manganese (WEN5)		1.99	4.10	65.00	546.00		12.80
Manganese (WEN6)		1.99	4.10	65.00	546.00		12.80
Silicon		61.90	147.00	134.00	261000.00		871.00

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-121-091817-22. 0-24.0-(42) PTC-121 09/18/17 Soil	SO-PTC-121-091817-22. 0-24.0-(43) PTC-121 09/18/17 Soil	SO-PTC-121-091817-22. 0-24.0-(44) PTC-121 09/18/17 Soil	SO-PTC-121-091817-22. 0-24.0-(45) PTC-121 09/18/17 Soil	SO-PTC-122-091818-9.5- 10.5 PTC-122 09/18/18 Soil	SO-PTC-122-091818-9. 5-10.5-(41) PTC-122 09/18/18 Soil
Silicon (WEN2)		61.90	147.00	134.00	261000.00		871.00
Silicon (WEN3)		61.90	147.00	134.00	261000.00		871.00
Silicon (WEN4)		61.90	147.00	134.00	261000.00		871.00
Silicon (WEN5)		61.90	147.00	134.00	261000.00		871.00
Silicon (WEN6)		61.90	147.00	134.00	261000.00		871.00
Sequential Extraction Conventionals							
Total Solid							
Total Solid						48.30	

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-122-091818-9.5- 10.5-(42) PTC-122 09/18/18 Soil	SO-PTC-122-091818-9.5- 10.5-(43) PTC-122 09/18/18 Soil	SO-PTC-122-091818-9.5- 10.5-(44) PTC-122 09/18/18 Soil	SO-PTC-122-091818-9.5- 10.5-(45) PTC-122 09/18/18 Soil	SO-PTC-127-091818-17. 0-17.5 PTC-127 09/18/18 Soil	SO-PTC-127-091818-17 .0-17.5-(41) PTC-127 09/18/18 Soil
Sequential Extraction Metals (mg/kg)							
Aluminum (WEN2)							
Aluminum (WEN3)							
Aluminum (WEN4)							
Aluminum (WEN5)							
Aluminum (WEN6)							
Arsenic (WEN2)							
Arsenic (WEN3)							
Arsenic (WEN4)							
Arsenic (WEN5)							
Arsenic (WEN6)							
Arsenic, Inorganic							
Iron (WEN2)							
Iron (WEN3)							
Iron (WEN4)							
Iron (WEN5)							
Iron (WEN6)							
Manganese (WEN2)							
Manganese (WEN3)							
Manganese (WEN4)							
Manganese (WEN5)							
Manganese (WEN6)							
Silicon (WEN2)							
Silicon (WEN3)							
Silicon (WEN4)							
Silicon (WEN5)							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-122-091818-9.5-10.5-(42) PTC-122 09/18/18 Soil	SO-PTC-122-091818-9.5-10.5-(43) PTC-122 09/18/18 Soil	SO-PTC-122-091818-9.5-10.5-(44) PTC-122 09/18/18 Soil	SO-PTC-122-091818-9.5-10.5-(45) PTC-122 09/18/18 Soil	SO-PTC-127-091818-17.0-17.5 PTC-127 09/18/18 Soil	SO-PTC-127-091818-17.0-17.5-(41) PTC-127 09/18/18 Soil
Silicon (WEN6)							
Aluminum		990.00	929.00	11300.00	24600.00 J-1		199.00
Aluminum (WEN2)		990.00	929.00	11300.00	24600.00 J-1		199.00
Aluminum (WEN3)		990.00	929.00	11300.00	24600.00 J-1		199.00
Aluminum (WEN4)		990.00	929.00	11300.00	24600.00 J-1		199.00
Aluminum (WEN5)		990.00	929.00	11300.00	24600.00 J-1		199.00
Aluminum (WEN6)		990.00	929.00	11300.00	24600.00 J-1		199.00
Arsenic (WEN2)		220.00	38.60	8250.00	83.10	4150.00	2230.00
Arsenic (WEN3)		220.00	38.60	8250.00	83.10	4150.00	2230.00
Arsenic (WEN4)		220.00	38.60	8250.00	83.10	4150.00	2230.00
Arsenic (WEN5)		220.00	38.60	8250.00	83.10	4150.00	2230.00
Arsenic (WEN6)		220.00	38.60	8250.00	83.10	4150.00	2230.00
Arsenic, Inorganic		220.00	38.60	8250.00	83.10	4150.00	2230.00
Iron		8220.00	2190.00	10100.00	10300.00		216.00
Iron (WEN2)		8220.00	2190.00	10100.00	10300.00		216.00
Iron (WEN3)		8220.00	2190.00	10100.00	10300.00		216.00
Iron (WEN4)		8220.00	2190.00	10100.00	10300.00		216.00
Iron (WEN5)		8220.00	2190.00	10100.00	10300.00		216.00
Iron (WEN6)		8220.00	2190.00	10100.00	10300.00		216.00
Manganese		295.00	20.60	86.40	184.00		3.29
Manganese (WEN2)		295.00	20.60	86.40	184.00		3.29
Manganese (WEN3)		295.00	20.60	86.40	184.00		3.29
Manganese (WEN4)		295.00	20.60	86.40	184.00		3.29
Manganese (WEN5)		295.00	20.60	86.40	184.00		3.29
Manganese (WEN6)		295.00	20.60	86.40	184.00		3.29
Silicon		703.00	593.00	55.30 J-1	237000.00		668.00

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-122-091818-9.5-10.5-(42)	SO-PTC-122-091818-9.5-10.5-(43)	SO-PTC-122-091818-9.5-10.5-(44)	SO-PTC-122-091818-9.5-10.5-(45)	SO-PTC-127-091818-17.0-17.5	SO-PTC-127-091818-17.0-17.5-(41)
	Site ID:	PTC-122	PTC-122	PTC-122	PTC-122	PTC-127	PTC-127
	Sample Date:	09/18/18	09/18/18	09/18/18	09/18/18	09/18/18	09/18/18
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Silicon (WEN2)		703.00	593.00	55.30 J-1	237000.00		668.00
Silicon (WEN3)		703.00	593.00	55.30 J-1	237000.00		668.00
Silicon (WEN4)		703.00	593.00	55.30 J-1	237000.00		668.00
Silicon (WEN5)		703.00	593.00	55.30 J-1	237000.00		668.00
Silicon (WEN6)		703.00	593.00	55.30 J-1	237000.00		668.00
Sequential Extraction Conventionals							
Total Solid							
Total Solid						42.73	

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID: SO-PTC-127-091818-17. 0-17.5-(42) Site ID: PTC-127 Sample Date: 09/18/18 Media: Soil	Sample ID: SO-PTC-127-091818-17. 0-17.5-(43) Site ID: PTC-127 Sample Date: 09/18/18 Media: Soil	Sample ID: SO-PTC-127-091818-17. 0-17.5-(44) Site ID: PTC-127 Sample Date: 09/18/18 Media: Soil	Sample ID: SO-PTC-127-091818-17. 0-17.5-(45) Site ID: PTC-127 Sample Date: 09/18/18 Media: Soil	Sample ID: SO-PTC-129-092017-10. 0-12.0-(41) Site ID: PTC-129 Sample Date: 09/20/17 Media: Soil	Sample ID: SO-PTC-129-092017-10. 0-12.0-(42) Site ID: PTC-129 Sample Date: 09/20/17 Media: Soil
Sequential Extraction Metals (mg/kg)						
Aluminum (WEN2)						
Aluminum (WEN3)						
Aluminum (WEN4)						
Aluminum (WEN5)						
Aluminum (WEN6)						
Arsenic (WEN2)						
Arsenic (WEN3)						
Arsenic (WEN4)						
Arsenic (WEN5)						
Arsenic (WEN6)						
Arsenic, Inorganic						
Iron (WEN2)						
Iron (WEN3)						
Iron (WEN4)						
Iron (WEN5)						
Iron (WEN6)						
Manganese (WEN2)						
Manganese (WEN3)						
Manganese (WEN4)						
Manganese (WEN5)						
Manganese (WEN6)						
Silicon (WEN2)						
Silicon (WEN3)						
Silicon (WEN4)						
Silicon (WEN5)						

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-127-091818-17. 0-17.5-(42) PTC-127 09/18/18 Soil	SO-PTC-127-091818-17. 0-17.5-(43) PTC-127 09/18/18 Soil	SO-PTC-127-091818-17. 0-17.5-(44) PTC-127 09/18/18 Soil	SO-PTC-127-091818-17. 0-17.5-(45) PTC-127 09/18/18 Soil	SO-PTC-129-092017-10. 0-12.0-(41) PTC-129 09/20/17 Soil	SO-PTC-129-092017-10 .0-12.0-(42) PTC-129 09/20/17 Soil
Silicon (WEN6)							
Aluminum		936.00	860.00	10800.00	22300.00 J-1	2.29	333.00
Aluminum (WEN2)		936.00	860.00	10800.00	22300.00 J-1	2.29	333.00
Aluminum (WEN3)		936.00	860.00	10800.00	22300.00 J-1	2.29	333.00
Aluminum (WEN4)		936.00	860.00	10800.00	22300.00 J-1	2.29	333.00
Aluminum (WEN5)		936.00	860.00	10800.00	22300.00 J-1	2.29	333.00
Aluminum (WEN6)		936.00	860.00	10800.00	22300.00 J-1	2.29	333.00
Arsenic (WEN2)		75.80	34.20	2050.00	38.40	46.50	402.00
Arsenic (WEN3)		75.80	34.20	2050.00	38.40	46.50	402.00
Arsenic (WEN4)		75.80	34.20	2050.00	38.40	46.50	402.00
Arsenic (WEN5)		75.80	34.20	2050.00	38.40	46.50	402.00
Arsenic (WEN6)		75.80	34.20	2050.00	38.40	46.50	402.00
Arsenic, Inorganic		75.80	34.20	2050.00	38.40	46.50	402.00
Iron		835.00	951.00	10000.00	5770.00	3.91	7010.00
Iron (WEN2)		835.00	951.00	10000.00	5770.00	3.91	7010.00
Iron (WEN3)		835.00	951.00	10000.00	5770.00	3.91	7010.00
Iron (WEN4)		835.00	951.00	10000.00	5770.00	3.91	7010.00
Iron (WEN5)		835.00	951.00	10000.00	5770.00	3.91	7010.00
Iron (WEN6)		835.00	951.00	10000.00	5770.00	3.91	7010.00
Manganese		18.00	9.06	57.80	101.00	2.61 M	27.70 M
Manganese (WEN2)		18.00	9.06	57.80	101.00	2.61 M	27.70 M
Manganese (WEN3)		18.00	9.06	57.80	101.00	2.61 M	27.70 M
Manganese (WEN4)		18.00	9.06	57.80	101.00	2.61 M	27.70 M
Manganese (WEN5)		18.00	9.06	57.80	101.00	2.61 M	27.70 M
Manganese (WEN6)		18.00	9.06	57.80	101.00	2.61 M	27.70 M
Silicon		298.00	658.00	52.80 J-1	179000.00	190.00	549.00

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-127-091818-17. 0-17.5-(42)	SO-PTC-127-091818-17. 0-17.5-(43)	SO-PTC-127-091818-17. 0-17.5-(44)	SO-PTC-127-091818-17. 0-17.5-(45)	SO-PTC-129-092017-10. 0-12.0-(41)	SO-PTC-129-092017-10. 0-12.0-(42)
	Site ID:	PTC-127	PTC-127	PTC-127	PTC-127	PTC-129	PTC-129
	Sample Date:	09/18/18	09/18/18	09/18/18	09/18/18	09/20/17	09/20/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Silicon (WEN2)		298.00	658.00	52.80 J-1	179000.00	190.00	549.00
Silicon (WEN3)		298.00	658.00	52.80 J-1	179000.00	190.00	549.00
Silicon (WEN4)		298.00	658.00	52.80 J-1	179000.00	190.00	549.00
Silicon (WEN5)		298.00	658.00	52.80 J-1	179000.00	190.00	549.00
Silicon (WEN6)		298.00	658.00	52.80 J-1	179000.00	190.00	549.00
Sequential Extraction Conventionals							
Total Solid							
Total Solid							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent Sample ID: Site ID: Sample Date: Media:	SO-PTC-129-092017-10. 0-12.0-(43) PTC-129 09/20/17 Soil	SO-PTC-129-092017-10. 0-12.0-(44) PTC-129 09/20/17 Soil	SO-PTC-129-092017-10. 0-12.0-(45) PTC-129 09/20/17 Soil	SO-PTC-129-092017-17. 3-20.0 PTC-129 09/20/17 Soil	SO-PTC-129-092017-17. 3-20.0-(41) PTC-129 09/20/17 Soil	SO-PTC-129-092017-17 .3-20.0-(42) PTC-129 09/20/17 Soil
Sequential Extraction Metals (mg/kg)						
Aluminum (WEN2)						
Aluminum (WEN3)						
Aluminum (WEN4)						
Aluminum (WEN5)						
Aluminum (WEN6)						
Arsenic (WEN2)						
Arsenic (WEN3)						
Arsenic (WEN4)						
Arsenic (WEN5)						
Arsenic (WEN6)						
Arsenic, Inorganic						
Iron (WEN2)						
Iron (WEN3)						
Iron (WEN4)						
Iron (WEN5)						
Iron (WEN6)						
Manganese (WEN2)						
Manganese (WEN3)						
Manganese (WEN4)						
Manganese (WEN5)						
Manganese (WEN6)						
Silicon (WEN2)						
Silicon (WEN3)						
Silicon (WEN4)						
Silicon (WEN5)						

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID: 0-12.0-(43) Site ID: PTC-129 Sample Date: 09/20/17 Media: Soil	SO-PTC-129-092017-10. 0-12.0-(44) PTC-129 09/20/17 Soil	SO-PTC-129-092017-10. 0-12.0-(45) PTC-129 09/20/17 Soil	SO-PTC-129-092017-17. 3-20.0 PTC-129 09/20/17 Soil	SO-PTC-129-092017-17. 3-20.0-(41) PTC-129 09/20/17 Soil	SO-PTC-129-092017-17 .3-20.0-(42) PTC-129 09/20/17 Soil
Constituent						
Silicon (WEN6)						
Aluminum	166.00	4420.00	23900.00 J-1		20.30	481.00
Aluminum (WEN2)	166.00	4420.00	23900.00 J-1		20.30	481.00
Aluminum (WEN3)	166.00	4420.00	23900.00 J-1		20.30	481.00
Aluminum (WEN4)	166.00	4420.00	23900.00 J-1		20.30	481.00
Aluminum (WEN5)	166.00	4420.00	23900.00 J-1		20.30	481.00
Aluminum (WEN6)	166.00	4420.00	23900.00 J-1		20.30	481.00
Arsenic (WEN2)	15.20	17.20 M	3.58 J	72.70 H	29.70	11.40
Arsenic (WEN3)	15.20	17.20 M	3.58 J	72.70 H	29.70	11.40
Arsenic (WEN4)	15.20	17.20 M	3.58 J	72.70 H	29.70	11.40
Arsenic (WEN5)	15.20	17.20 M	3.58 J	72.70 H	29.70	11.40
Arsenic (WEN6)	15.20	17.20 M	3.58 J	72.70 H	29.70	11.40
Arsenic, Inorganic	15.20	17.20 M	3.58 J	72.70 H	29.70	11.40
Iron	1150.00	6120.00	30500.00		20.90	1470.00
Iron (WEN2)	1150.00	6120.00	30500.00		20.90	1470.00
Iron (WEN3)	1150.00	6120.00	30500.00		20.90	1470.00
Iron (WEN4)	1150.00	6120.00	30500.00		20.90	1470.00
Iron (WEN5)	1150.00	6120.00	30500.00		20.90	1470.00
Iron (WEN6)	1150.00	6120.00	30500.00		20.90	1470.00
Manganese	4.44	56.80	627.00		1.29	9.78
Manganese (WEN2)	4.44	56.80	627.00		1.29	9.78
Manganese (WEN3)	4.44	56.80	627.00		1.29	9.78
Manganese (WEN4)	4.44	56.80	627.00		1.29	9.78
Manganese (WEN5)	4.44	56.80	627.00		1.29	9.78
Manganese (WEN6)	4.44	56.80	627.00		1.29	9.78
Silicon	140.00	162.00	256000.00		432.00	328.00

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-129-092017-10. 0-12.0-(43)	SO-PTC-129-092017-10. 0-12.0-(44)	SO-PTC-129-092017-10. 0-12.0-(45)	SO-PTC-129-092017-17. 3-20.0	SO-PTC-129-092017-17. 3-20.0-(41)	SO-PTC-129-092017-17. .3-20.0-(42)
	Site ID:	PTC-129	PTC-129	PTC-129	PTC-129	PTC-129	PTC-129
	Sample Date:	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Silicon (WEN2)		140.00	162.00	256000.00		432.00	328.00
Silicon (WEN3)		140.00	162.00	256000.00		432.00	328.00
Silicon (WEN4)		140.00	162.00	256000.00		432.00	328.00
Silicon (WEN5)		140.00	162.00	256000.00		432.00	328.00
Silicon (WEN6)		140.00	162.00	256000.00		432.00	328.00
Sequential Extraction Conventionals							
Total Solid							
Total Solid					68.74		

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-129-092017-17. 3-20.0-(43) PTC-129 09/20/17 Soil	SO-PTC-129-092017-17. 3-20.0-(44) PTC-129 09/20/17 Soil	SO-PTC-129-092017-17. 3-20.0-(45) PTC-129 09/20/17 Soil	SO-PTC-129-092017-22. 5-25.0-(41) PTC-129 09/20/17 Soil	SO-PTC-129-092017-22. 5-25.0-(42) PTC-129 09/20/17 Soil	SO-PTC-129-092017-22. .5-25.0-(43) PTC-129 09/20/17 Soil
Sequential Extraction Metals (mg/kg)							
Aluminum (WEN2)							
Aluminum (WEN3)							
Aluminum (WEN4)							
Aluminum (WEN5)							
Aluminum (WEN6)							
Arsenic (WEN2)							
Arsenic (WEN3)							
Arsenic (WEN4)							
Arsenic (WEN5)							
Arsenic (WEN6)							
Arsenic, Inorganic							
Iron (WEN2)							
Iron (WEN3)							
Iron (WEN4)							
Iron (WEN5)							
Iron (WEN6)							
Manganese (WEN2)							
Manganese (WEN3)							
Manganese (WEN4)							
Manganese (WEN5)							
Manganese (WEN6)							
Silicon (WEN2)							
Silicon (WEN3)							
Silicon (WEN4)							
Silicon (WEN5)							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID: Site ID: Sample Date: Media:	SO-PTC-129-092017-17. 3-20.0-(43) PTC-129 09/20/17 Soil	SO-PTC-129-092017-17. 3-20.0-(44) PTC-129 09/20/17 Soil	SO-PTC-129-092017-17. 3-20.0-(45) PTC-129 09/20/17 Soil	SO-PTC-129-092017-22. 5-25.0-(41) PTC-129 09/20/17 Soil	SO-PTC-129-092017-22. 5-25.0-(42) PTC-129 09/20/17 Soil	SO-PTC-129-092017-22. .5-25.0-(43) PTC-129 09/20/17 Soil
Constituent							
Silicon (WEN6)							
Aluminum	528.00	11900.00	22100.00 J-1	3.48	149.00	208.00	
Aluminum (WEN2)	528.00	11900.00	22100.00 J-1	3.48	149.00	208.00	
Aluminum (WEN3)	528.00	11900.00	22100.00 J-1	3.48	149.00	208.00	
Aluminum (WEN4)	528.00	11900.00	22100.00 J-1	3.48	149.00	208.00	
Aluminum (WEN5)	528.00	11900.00	22100.00 J-1	3.48	149.00	208.00	
Aluminum (WEN6)	528.00	11900.00	22100.00 J-1	3.48	149.00	208.00	
Arsenic (WEN2)	9.39	24.50	10.00 U	25.80	22.70	6.31	
Arsenic (WEN3)	9.39	24.50	10.00 U	25.80	22.70	6.31	
Arsenic (WEN4)	9.39	24.50	10.00 U	25.80	22.70	6.31	
Arsenic (WEN5)	9.39	24.50	10.00 U	25.80	22.70	6.31	
Arsenic (WEN6)	9.39	24.50	10.00 U	25.80	22.70	6.31	
Arsenic, Inorganic	9.39	24.50	10.00 U	25.80	22.70	6.31	
Iron	2390.00	14700.00	14100.00	20.30	1320.00	1070.00	
Iron (WEN2)	2390.00	14700.00	14100.00	20.30	1320.00	1070.00	
Iron (WEN3)	2390.00	14700.00	14100.00	20.30	1320.00	1070.00	
Iron (WEN4)	2390.00	14700.00	14100.00	20.30	1320.00	1070.00	
Iron (WEN5)	2390.00	14700.00	14100.00	20.30	1320.00	1070.00	
Iron (WEN6)	2390.00	14700.00	14100.00	20.30	1320.00	1070.00	
Manganese	10.60	79.60	263.00	2.66	5.13	4.16	
Manganese (WEN2)	10.60	79.60	263.00	2.66	5.13	4.16	
Manganese (WEN3)	10.60	79.60	263.00	2.66	5.13	4.16	
Manganese (WEN4)	10.60	79.60	263.00	2.66	5.13	4.16	
Manganese (WEN5)	10.60	79.60	263.00	2.66	5.13	4.16	
Manganese (WEN6)	10.60	79.60	263.00	2.66	5.13	4.16	
Silicon	356.00	50.00 J-1	268000.00	65.70	84.40	163.00	

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-129-092017-17.	SO-PTC-129-092017-17.	SO-PTC-129-092017-17.	SO-PTC-129-092017-22.	SO-PTC-129-092017-22.	SO-PTC-129-092017-22
	Site ID:	3-20.0-(43)	3-20.0-(44)	3-20.0-(45)	5-25.0-(41)	5-25.0-(42)	.5-25.0-(43)
	Sample Date:	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Silicon (WEN2)		356.00	50.00 J-1	268000.00	65.70	84.40	163.00
Silicon (WEN3)		356.00	50.00 J-1	268000.00	65.70	84.40	163.00
Silicon (WEN4)		356.00	50.00 J-1	268000.00	65.70	84.40	163.00
Silicon (WEN5)		356.00	50.00 J-1	268000.00	65.70	84.40	163.00
Silicon (WEN6)		356.00	50.00 J-1	268000.00	65.70	84.40	163.00
Sequential Extraction Conventionals							
Total Solid							
Total Solid							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID: SO-PTC-129-092017-22. Site ID: 5-25.0-(44) Sample Date: PTC-129 Media: 09/20/17 Soil	Sample ID: SO-PTC-129-092017-22. Site ID: 5-25.0-(45) Sample Date: PTC-129 Media: 09/20/17 Soil	Sample ID: SO-PTC-204-091917-10. Site ID: 8-12.8-(41) Sample Date: PTC-204 Media: 09/19/17 Soil	Sample ID: SO-PTC-204-091917-10. Site ID: 8-12.8-(42) Sample Date: PTC-204 Media: 09/19/17 Soil	Sample ID: SO-PTC-204-091917-10. Site ID: 8-12.8-(43) Sample Date: PTC-204 Media: 09/19/17 Soil	Sample ID: SO-PTC-204-091917-10. Site ID: 8-12.8-(44) Sample Date: PTC-204 Media: 09/19/17 Soil
Constituent						
Sequential Extraction Metals (mg/kg)						
Aluminum (WEN2)						
Aluminum (WEN3)						
Aluminum (WEN4)						
Aluminum (WEN5)						
Aluminum (WEN6)						
Arsenic (WEN2)						
Arsenic (WEN3)						
Arsenic (WEN4)						
Arsenic (WEN5)						
Arsenic (WEN6)						
Arsenic, Inorganic						
Iron (WEN2)						
Iron (WEN3)						
Iron (WEN4)						
Iron (WEN5)						
Iron (WEN6)						
Manganese (WEN2)						
Manganese (WEN3)						
Manganese (WEN4)						
Manganese (WEN5)						
Manganese (WEN6)						
Silicon (WEN2)						
Silicon (WEN3)						
Silicon (WEN4)						
Silicon (WEN5)						

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-129-092017-22. 5-25.0-(44) PTC-129 09/20/17 Soil	SO-PTC-129-092017-22. 5-25.0-(45) PTC-129 09/20/17 Soil	SO-PTC-204-091917-10. 8-12.8-(41) PTC-204 09/19/17 Soil	SO-PTC-204-091917-10. 8-12.8-(42) PTC-204 09/19/17 Soil	SO-PTC-204-091917-10. 8-12.8-(43) PTC-204 09/19/17 Soil	SO-PTC-204-091917-10 .8-12.8-(44) PTC-204 09/19/17 Soil
Silicon (WEN6)							
Aluminum		4650.00	27200.00 J-1	47.90	225.00	272.00	5900.00
Aluminum (WEN2)		4650.00	27200.00 J-1	47.90	225.00	272.00	5900.00
Aluminum (WEN3)		4650.00	27200.00 J-1	47.90	225.00	272.00	5900.00
Aluminum (WEN4)		4650.00	27200.00 J-1	47.90	225.00	272.00	5900.00
Aluminum (WEN5)		4650.00	27200.00 J-1	47.90	225.00	272.00	5900.00
Aluminum (WEN6)		4650.00	27200.00 J-1	47.90	225.00	272.00	5900.00
Arsenic (WEN2)		267.00	4.31 J	22.60	2.77	2.97 U	10.90
Arsenic (WEN3)		267.00	4.31 J	22.60	2.77	2.97 U	10.90
Arsenic (WEN4)		267.00	4.31 J	22.60	2.77	2.97 U	10.90
Arsenic (WEN5)		267.00	4.31 J	22.60	2.77	2.97 U	10.90
Arsenic (WEN6)		267.00	4.31 J	22.60	2.77	2.97 U	10.90
Arsenic, Inorganic		267.00	4.31 J	22.60	2.77	2.97 U	10.90
Iron		6240.00	29600.00	35.90	578.00	949.00	8530.00
Iron (WEN2)		6240.00	29600.00	35.90	578.00	949.00	8530.00
Iron (WEN3)		6240.00	29600.00	35.90	578.00	949.00	8530.00
Iron (WEN4)		6240.00	29600.00	35.90	578.00	949.00	8530.00
Iron (WEN5)		6240.00	29600.00	35.90	578.00	949.00	8530.00
Iron (WEN6)		6240.00	29600.00	35.90	578.00	949.00	8530.00
Manganese		49.90	597.00	0.76	3.92	4.35	57.50
Manganese (WEN2)		49.90	597.00	0.76	3.92	4.35	57.50
Manganese (WEN3)		49.90	597.00	0.76	3.92	4.35	57.50
Manganese (WEN4)		49.90	597.00	0.76	3.92	4.35	57.50
Manganese (WEN5)		49.90	597.00	0.76	3.92	4.35	57.50
Manganese (WEN6)		49.90	597.00	0.76	3.92	4.35	57.50
Silicon		200.00	260000.00	8700.00	182.00	200.00	167.00

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-129-092017-22.	SO-PTC-129-092017-22.	SO-PTC-204-091917-10.	SO-PTC-204-091917-10.	SO-PTC-204-091917-10.	SO-PTC-204-091917-10
	Site ID:	5-25.0-(44)	5-25.0-(45)	8-12.8-(41)	8-12.8-(42)	8-12.8-(43)	.8-12.8-(44)
	Sample Date:	PTC-129	PTC-129	PTC-204	PTC-204	PTC-204	PTC-204
	Media:	09/20/17	09/20/17	09/19/17	09/19/17	09/19/17	09/19/17
Constituent	Media:	Soil	Soil	Soil	Soil	Soil	Soil
Silicon (WEN2)		200.00	260000.00	8700.00	182.00	200.00	167.00
Silicon (WEN3)		200.00	260000.00	8700.00	182.00	200.00	167.00
Silicon (WEN4)		200.00	260000.00	8700.00	182.00	200.00	167.00
Silicon (WEN5)		200.00	260000.00	8700.00	182.00	200.00	167.00
Silicon (WEN6)		200.00	260000.00	8700.00	182.00	200.00	167.00
Sequential Extraction Conventionals							
Total Solid							
Total Solid							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-204-091917-10. 8-12.8-(45) PTC-204 09/19/17 Soil	SO-PTC-204-091917-23. 0-25.0-(41) PTC-204 09/19/17 Soil	SO-PTC-204-091917-23. 0-25.0-(42) PTC-204 09/19/17 Soil	SO-PTC-204-091917-23. 0-25.0-(43) PTC-204 09/19/17 Soil	SO-PTC-204-091917-23. 0-25.0-(44) PTC-204 09/19/17 Soil	SO-PTC-204-091917-23 .0-25.0-(45) PTC-204 09/19/17 Soil
Sequential Extraction Metals (mg/kg)							
Aluminum (WEN2)							
Aluminum (WEN3)							
Aluminum (WEN4)							
Aluminum (WEN5)							
Aluminum (WEN6)							
Arsenic (WEN2)							
Arsenic (WEN3)							
Arsenic (WEN4)							
Arsenic (WEN5)							
Arsenic (WEN6)							
Arsenic, Inorganic							
Iron (WEN2)							
Iron (WEN3)							
Iron (WEN4)							
Iron (WEN5)							
Iron (WEN6)							
Manganese (WEN2)							
Manganese (WEN3)							
Manganese (WEN4)							
Manganese (WEN5)							
Manganese (WEN6)							
Silicon (WEN2)							
Silicon (WEN3)							
Silicon (WEN4)							
Silicon (WEN5)							

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-204-091917-10. 8-12.8-(45) PTC-204 09/19/17 Soil	SO-PTC-204-091917-23. 0-25.0-(41) PTC-204 09/19/17 Soil	SO-PTC-204-091917-23. 0-25.0-(42) PTC-204 09/19/17 Soil	SO-PTC-204-091917-23. 0-25.0-(43) PTC-204 09/19/17 Soil	SO-PTC-204-091917-23. 0-25.0-(44) PTC-204 09/19/17 Soil	SO-PTC-204-091917-23 .0-25.0-(45) PTC-204 09/19/17 Soil
Silicon (WEN6)							
Aluminum		37100.00 J-1	0.62	86.50	143.00	4600.00	28800.00 J-1
Aluminum (WEN2)		37100.00 J-1	0.62	86.50	143.00	4600.00	28800.00 J-1
Aluminum (WEN3)		37100.00 J-1	0.62	86.50	143.00	4600.00	28800.00 J-1
Aluminum (WEN4)		37100.00 J-1	0.62	86.50	143.00	4600.00	28800.00 J-1
Aluminum (WEN5)		37100.00 J-1	0.62	86.50	143.00	4600.00	28800.00 J-1
Aluminum (WEN6)		37100.00 J-1	0.62	86.50	143.00	4600.00	28800.00 J-1
Arsenic (WEN2)		3.40 J	29.00	8.33	3.89	64.40	3.62 J
Arsenic (WEN3)		3.40 J	29.00	8.33	3.89	64.40	3.62 J
Arsenic (WEN4)		3.40 J	29.00	8.33	3.89	64.40	3.62 J
Arsenic (WEN5)		3.40 J	29.00	8.33	3.89	64.40	3.62 J
Arsenic (WEN6)		3.40 J	29.00	8.33	3.89	64.40	3.62 J
Arsenic, Inorganic		3.40 J	29.00	8.33	3.89	64.40	3.62 J
Iron		22600.00	4.87	1470.00	588.00	9890.00	27200.00
Iron (WEN2)		22600.00	4.87	1470.00	588.00	9890.00	27200.00
Iron (WEN3)		22600.00	4.87	1470.00	588.00	9890.00	27200.00
Iron (WEN4)		22600.00	4.87	1470.00	588.00	9890.00	27200.00
Iron (WEN5)		22600.00	4.87	1470.00	588.00	9890.00	27200.00
Iron (WEN6)		22600.00	4.87	1470.00	588.00	9890.00	27200.00
Manganese		430.00	3.34	11.90	5.38	99.40	534.00
Manganese (WEN2)		430.00	3.34	11.90	5.38	99.40	534.00
Manganese (WEN3)		430.00	3.34	11.90	5.38	99.40	534.00
Manganese (WEN4)		430.00	3.34	11.90	5.38	99.40	534.00
Manganese (WEN5)		430.00	3.34	11.90	5.38	99.40	534.00
Manganese (WEN6)		430.00	3.34	11.90	5.38	99.40	534.00
Silicon		249000.00	380.00	151.00	207.00	195.00	280000.00

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: 8-12.8-(45) Site ID: PTC-204 Sample Date: 09/19/17 Media: Soil	SO-PTC-204-091917-10. 0-25.0-(41) PTC-204 09/19/17 Soil	SO-PTC-204-091917-23. 0-25.0-(42) PTC-204 09/19/17 Soil	SO-PTC-204-091917-23. 0-25.0-(43) PTC-204 09/19/17 Soil	SO-PTC-204-091917-23. 0-25.0-(44) PTC-204 09/19/17 Soil	SO-PTC-204-091917-23. .0-25.0-(45) PTC-204 09/19/17 Soil
Silicon (WEN2)	249000.00	380.00	151.00	207.00	195.00	280000.00
Silicon (WEN3)	249000.00	380.00	151.00	207.00	195.00	280000.00
Silicon (WEN4)	249000.00	380.00	151.00	207.00	195.00	280000.00
Silicon (WEN5)	249000.00	380.00	151.00	207.00	195.00	280000.00
Silicon (WEN6)	249000.00	380.00	151.00	207.00	195.00	280000.00
Sequential Extraction Conventionals						
Total Solid						
Total Solid						

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent Sample ID: Site ID: Sample Date: Media:	SO-PTC-208-091317-12. 0-14.0-(41) PTC-208 09/13/17 Soil	SO-PTC-208-091317-12. 0-14.0-(42) PTC-208 09/13/17 Soil	SO-PTC-208-091317-12. 0-14.0-(43) PTC-208 09/13/17 Soil	SO-PTC-208-091317-12. 0-14.0-(44) PTC-208 09/13/17 Soil	SO-PTC-208-091317-12. 0-14.0-(45) PTC-208 09/13/17 Soil	SO-PTC-208-091317-23 .0-25.0-(41) PTC-208 09/13/17 Soil
Sequential Extraction Metals (mg/kg)						
Aluminum (WEN2)						
Aluminum (WEN3)						
Aluminum (WEN4)						
Aluminum (WEN5)						
Aluminum (WEN6)						
Arsenic (WEN2)						
Arsenic (WEN3)						
Arsenic (WEN4)						
Arsenic (WEN5)						
Arsenic (WEN6)						
Arsenic, Inorganic						
Iron (WEN2)						
Iron (WEN3)						
Iron (WEN4)						
Iron (WEN5)						
Iron (WEN6)						
Manganese (WEN2)						
Manganese (WEN3)						
Manganese (WEN4)						
Manganese (WEN5)						
Manganese (WEN6)						
Silicon (WEN2)						
Silicon (WEN3)						
Silicon (WEN4)						
Silicon (WEN5)						

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-208-091317-12. 0-14.0-(41) PTC-208 09/13/17 Soil	SO-PTC-208-091317-12. 0-14.0-(42) PTC-208 09/13/17 Soil	SO-PTC-208-091317-12. 0-14.0-(43) PTC-208 09/13/17 Soil	SO-PTC-208-091317-12. 0-14.0-(44) PTC-208 09/13/17 Soil	SO-PTC-208-091317-12. 0-14.0-(45) PTC-208 09/13/17 Soil	SO-PTC-208-091317-23 .0-25.0-(41) PTC-208 09/13/17 Soil
Silicon (WEN6)							
Aluminum		4.84	688.00	300.00	7650.00	27400.00 J-1	15.10
Aluminum (WEN2)		4.84	688.00	300.00	7650.00	27400.00 J-1	15.10
Aluminum (WEN3)		4.84	688.00	300.00	7650.00	27400.00 J-1	15.10
Aluminum (WEN4)		4.84	688.00	300.00	7650.00	27400.00 J-1	15.10
Aluminum (WEN5)		4.84	688.00	300.00	7650.00	27400.00 J-1	15.10
Aluminum (WEN6)		4.84	688.00	300.00	7650.00	27400.00 J-1	15.10
Arsenic (WEN2)		0.52	0.17 J	2.47 U	2.04 J	4.70 U	1.00
Arsenic (WEN3)		0.52	0.17 J	2.47 U	2.04 J	4.70 U	1.00
Arsenic (WEN4)		0.52	0.17 J	2.47 U	2.04 J	4.70 U	1.00
Arsenic (WEN5)		0.52	0.17 J	2.47 U	2.04 J	4.70 U	1.00
Arsenic (WEN6)		0.52	0.17 J	2.47 U	2.04 J	4.70 U	1.00
Arsenic, Inorganic		0.52	0.17 J	2.47 U	2.04 J	4.70 U	1.00
Iron		31.40	1790.00	1180.00	11500.00	24600.00	4.40
Iron (WEN2)		31.40	1790.00	1180.00	11500.00	24600.00	4.40
Iron (WEN3)		31.40	1790.00	1180.00	11500.00	24600.00	4.40
Iron (WEN4)		31.40	1790.00	1180.00	11500.00	24600.00	4.40
Iron (WEN5)		31.40	1790.00	1180.00	11500.00	24600.00	4.40
Iron (WEN6)		31.40	1790.00	1180.00	11500.00	24600.00	4.40
Manganese		1.80	11.20	5.09	102.00	514.00	0.68
Manganese (WEN2)		1.80	11.20	5.09	102.00	514.00	0.68
Manganese (WEN3)		1.80	11.20	5.09	102.00	514.00	0.68
Manganese (WEN4)		1.80	11.20	5.09	102.00	514.00	0.68
Manganese (WEN5)		1.80	11.20	5.09	102.00	514.00	0.68
Manganese (WEN6)		1.80	11.20	5.09	102.00	514.00	0.68
Silicon		338.00	181.00	207.00	204.00	272000.00	88.80

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent	Sample ID: 0-14.0-(41) Site ID: PTC-208 Sample Date: 09/13/17 Media: Soil	SO-PTC-208-091317-12. 0-14.0-(42) PTC-208 09/13/17 Soil	SO-PTC-208-091317-12. 0-14.0-(43) PTC-208 09/13/17 Soil	SO-PTC-208-091317-12. 0-14.0-(44) PTC-208 09/13/17 Soil	SO-PTC-208-091317-12. 0-14.0-(45) PTC-208 09/13/17 Soil	SO-PTC-208-091317-23 .0-25.0-(41) PTC-208 09/13/17 Soil
Silicon (WEN2)	338.00	181.00	207.00	204.00	272000.00	88.80
Silicon (WEN3)	338.00	181.00	207.00	204.00	272000.00	88.80
Silicon (WEN4)	338.00	181.00	207.00	204.00	272000.00	88.80
Silicon (WEN5)	338.00	181.00	207.00	204.00	272000.00	88.80
Silicon (WEN6)	338.00	181.00	207.00	204.00	272000.00	88.80
Sequential Extraction Conventionals						
Total Solid						
Total Solid						

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

Constituent Sample ID: Site ID: Sample Date: Media:	SO-PTC-208-091317-23. 0-25.0-(42) PTC-208 09/13/17 Soil	SO-PTC-208-091317-23. 0-25.0-(43) PTC-208 09/13/17 Soil	SO-PTC-208-091317-23. 0-25.0-(44) PTC-208 09/13/17 Soil	SO-PTC-208-091317-23. 0-25.0-(45) PTC-208 09/13/17 Soil	/ /	/ /
Sequential Extraction Metals (mg/kg)						
Aluminum (WEN2)						
Aluminum (WEN3)						
Aluminum (WEN4)						
Aluminum (WEN5)						
Aluminum (WEN6)						
Arsenic (WEN2)						
Arsenic (WEN3)						
Arsenic (WEN4)						
Arsenic (WEN5)						
Arsenic (WEN6)						
Arsenic, Inorganic						
Iron (WEN2)						
Iron (WEN3)						
Iron (WEN4)						
Iron (WEN5)						
Iron (WEN6)						
Manganese (WEN2)						
Manganese (WEN3)						
Manganese (WEN4)						
Manganese (WEN5)						
Manganese (WEN6)						
Silicon (WEN2)						
Silicon (WEN3)						
Silicon (WEN4)						
Silicon (WEN5)						

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID: 0-25.0-(42) Site ID: PTC-208 Sample Date: 09/13/17 Media: Soil	SO-PTC-208-091317-23. 0-25.0-(43) PTC-208 09/13/17 Soil	SO-PTC-208-091317-23. 0-25.0-(44) PTC-208 09/13/17 Soil	SO-PTC-208-091317-23. 0-25.0-(45) PTC-208 09/13/17 Soil	/ /	/ /
Constituent						
Silicon (WEN6)						
Aluminum	292.00	375.00	6770.00	33500.00 J-1		
Aluminum (WEN2)	292.00	375.00	6770.00	33500.00 J-1		
Aluminum (WEN3)	292.00	375.00	6770.00	33500.00 J-1		
Aluminum (WEN4)	292.00	375.00	6770.00	33500.00 J-1		
Aluminum (WEN5)	292.00	375.00	6770.00	33500.00 J-1		
Aluminum (WEN6)	292.00	375.00	6770.00	33500.00 J-1		
Arsenic (WEN2)	0.32	2.62 U	2.99 J	2.90 J		
Arsenic (WEN3)	0.32	2.62 U	2.99 J	2.90 J		
Arsenic (WEN4)	0.32	2.62 U	2.99 J	2.90 J		
Arsenic (WEN5)	0.32	2.62 U	2.99 J	2.90 J		
Arsenic (WEN6)	0.32	2.62 U	2.99 J	2.90 J		
Arsenic, Inorganic	0.32	2.62 U	2.99 J	2.90 J		
Iron	175.00	844.00	9900.00	21900.00		
Iron (WEN2)	175.00	844.00	9900.00	21900.00		
Iron (WEN3)	175.00	844.00	9900.00	21900.00		
Iron (WEN4)	175.00	844.00	9900.00	21900.00		
Iron (WEN5)	175.00	844.00	9900.00	21900.00		
Iron (WEN6)	175.00	844.00	9900.00	21900.00		
Manganese	3.39	4.97	64.20	420.00		
Manganese (WEN2)	3.39	4.97	64.20	420.00		
Manganese (WEN3)	3.39	4.97	64.20	420.00		
Manganese (WEN4)	3.39	4.97	64.20	420.00		
Manganese (WEN5)	3.39	4.97	64.20	420.00		
Manganese (WEN6)	3.39	4.97	64.20	420.00		
Silicon	147.00	287.00	132.00	260000.00		

Blank cells indicate that no analysis was performed.

Table G-9: Sequential Extraction Results

	Sample ID:	SO-PTC-208-091317-23. 0-25.0-(42)	SO-PTC-208-091317-23. 0-25.0-(43)	SO-PTC-208-091317-23. 0-25.0-(44)	SO-PTC-208-091317-23. 0-25.0-(45)		
	Site ID:	PTC-208	PTC-208	PTC-208	PTC-208		
	Sample Date:	09/13/17	09/13/17	09/13/17	09/13/17	/ /	/ /
Constituent	Media:	Soil	Soil	Soil	Soil		
Silicon (WEN2)		147.00	287.00	132.00	260000.00		
Silicon (WEN3)		147.00	287.00	132.00	260000.00		
Silicon (WEN4)		147.00	287.00	132.00	260000.00		
Silicon (WEN5)		147.00	287.00	132.00	260000.00		
Silicon (WEN6)		147.00	287.00	132.00	260000.00		
Sequential Extraction Conventionals							
Total Solid							
Total Solid							

Blank cells indicate that no analysis was performed.

Table G-10: Batch Adsorption Test Results

Constituent	Sample ID: 7-0-0.33-(81) Site ID: 122+60-0-SED Sample Date: 10/03/17 Media: Sediment	SD-122+60-0-SED-10031 7-0-0.33-(82) 122+60-0-SED 10/03/17 Sediment	SD-122+60-0-SED-10031 7-0-0.33-(83) 122+60-0-SED 10/03/17 Sediment	SD-122+60-0-SED-10031 7-0-0.33-(84) 122+60-0-SED 10/03/17 Sediment	SD-122+60-0-SED-10031 7-0-0.33-(91) 122+60-0-SED 10/03/17 Sediment	SD-122+60-0-SED-1003 17-0-0.33-(92) 122+60-0-SED 10/03/17 Sediment
BAT Conventionals ()						
pH	7.89	8.18	8.13	8.34	8.28	8.22
BAT Metals (mg/kg)						
Arsenate Ion - As(O4)3-	0.76	2.63	16.20	94.70		
Arsenite Ion - As(O3)3-					1.01	2.60
Sum of arsenic species	0.76	2.63	16.20	94.70	1.01	2.60
BAT Conventionals ()						
pH						
BAT Metals (mg/kg)						
Arsenate Ion - As(O4)3-						
Arsenite Ion - As(O3)3-						
Sum of arsenic species						
BAT Conventionals (%-W)						
Total Solids	97.25	97.25	97.25	97.25	97.25	97.25
Total Solids						

Blank cells indicate that no analysis was performed.

Table G-10: Batch Adsorption Test Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SD-122+60-0-SED-10031 7-0-0.33-(93) 122+60-0-SED 10/03/17 Sediment	SD-122+60-0-SED-10031 7-0-0.33-(94) 122+60-0-SED 10/03/17 Sediment	SD-125+00-ST1-SED-10 0417-0-0.33-(81) 125+00-ST1-SED 10/04/17 Sediment	SD-125+00-ST1-SED-10 0417-0-0.33-(82) 125+00-ST1-SED 10/04/17 Sediment	SD-125+00-ST1-SED-10 0417-0-0.33-(83) 125+00-ST1-SED 10/04/17 Sediment	SD-125+00-ST1-SED-1 00417-0-0.33-(84) 125+00-ST1-SED 10/04/17 Sediment
BAT Conventionals ()							
pH		8.21	8.21	8.61	8.66	8.63	8.64
BAT Metals (mg/kg)							
Arsenate Ion - As(O4)3-				2.82	7.39	33.60	137.00
Arsenite Ion - As(O3)3-		18.50	125.00				
Sum of arsenic species		18.50	125.00	2.82	7.39	33.60	137.00
BAT Conventionals ()							
pH							
BAT Metals (mg/kg)							
Arsenate Ion - As(O4)3-							
Arsenite Ion - As(O3)3-							
Sum of arsenic species							
BAT Conventionals (%-W)							
Total Solids		97.25	97.25	98.83	98.83	98.83	98.83
Total Solids							

Blank cells indicate that no analysis was performed.

Table G-10: Batch Adsorption Test Results

Constituent	Sample ID: SD-125+00-ST1-SED-10 0417-0-0.33-(91) Site ID: 125+00-ST1-SED Sample Date: 10/04/17 Media: Sediment	Sample ID: SD-125+00-ST1-SED-10 0417-0-0.33-(92) Site ID: 125+00-ST1-SED Sample Date: 10/04/17 Media: Sediment	Sample ID: SD-125+00-ST1-SED-10 0417-0-0.33-(93) Site ID: 125+00-ST1-SED Sample Date: 10/04/17 Media: Sediment	Sample ID: SD-125+00-ST1-SED-10 0417-0-0.33-(94) Site ID: 125+00-ST1-SED Sample Date: 10/04/17 Media: Sediment	Sample ID: SO-PTC-001-091517-11. 5-13.5-(85) Site ID: PTC-001 Sample Date: 09/15/17 Media: Soil	Sample ID: SO-PTC-001-091517-11 .5-13.5-(86) Site ID: PTC-001 Sample Date: 09/15/17 Media: Soil
BAT Conventionals ()						
pH	8.68	8.63	8.61	8.69		
BAT Metals (mg/kg)						
Arsenate Ion - As(O4)3-						
Arsenite Ion - As(O3)3-	3.18	6.82	35.80	169.00		
Sum of arsenic species	3.18	6.82	35.80	169.00		
BAT Conventionals ()						
pH					9.05	9.04
BAT Metals (mg/kg)						
Arsenate Ion - As(O4)3-					1.83	6.25
Arsenite Ion - As(O3)3-						
Sum of arsenic species					1.83	6.25
BAT Conventionals (%-W)						
Total Solids	98.83	98.83	98.83	98.83		
Total Solids					95.14	95.14

Blank cells indicate that no analysis was performed.

Table G-10: Batch Adsorption Test Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-001-091517-11. 5-13.5-(87) PTC-001 09/15/17 Soil	SO-PTC-001-091517-11. 5-13.5-(88) PTC-001 09/15/17 Soil	SO-PTC-001-091517-11. 5-13.5-(95) PTC-001 09/15/17 Soil	SO-PTC-001-091517-11. 5-13.5-(96) PTC-001 09/15/17 Soil	SO-PTC-001-091517-11. 5-13.5-(97) PTC-001 09/15/17 Soil	SO-PTC-001-091517-11. .5-13.5-(98) PTC-001 09/15/17 Soil
BAT Conventionals ()							
pH							
BAT Metals (mg/kg)							
Arsenate Ion - As(O4)3-							
Arsenite Ion - As(O3)3-							
Sum of arsenic species							
BAT Conventionals ()							
pH		9.03	9.03	9.03	9.06	8.81	9.03
BAT Metals (mg/kg)							
Arsenate Ion - As(O4)3-		25.40	128.00				
Arsenite Ion - As(O3)3-				2.62	6.47	29.00	147.00
Sum of arsenic species		25.40	128.00	2.62	6.47	29.00	147.00
BAT Conventionals (%-W)							
Total Solids							
Total Solids		95.14	95.14	95.14	95.14	95.14	95.14

Blank cells indicate that no analysis was performed.

Table G-10: Batch Adsorption Test Results

Constituent	Sample ID: 4.5-(85) Site ID: PTC-001 Sample Date: 09/15/17 Media: Soil	SO-PTC-001-091517-2.5-4.5-(86) PTC-001 09/15/17 Soil	SO-PTC-001-091517-2.5-4.5-(87) PTC-001 09/15/17 Soil	SO-PTC-001-091517-2.5-4.5-(88) PTC-001 09/15/17 Soil	SO-PTC-001-091517-2.5-4.5-(95) PTC-001 09/15/17 Soil	SO-PTC-001-091517-2.5-4.5-(96) PTC-001 09/15/17 Soil
BAT Conventionals ()						
pH						
BAT Metals (mg/kg)						
Arsenate Ion - As(O4)3-						
Arsenite Ion - As(O3)3-						
Sum of arsenic species						
BAT Conventionals ()						
pH	9.11	9.08	9.02	9.10	9.07	9.05
BAT Metals (mg/kg)						
Arsenate Ion - As(O4)3-	1.58	3.51	15.30	80.40		
Arsenite Ion - As(O3)3-					1.98	5.05
Sum of arsenic species	1.58	3.51	15.30	80.40	1.98	5.05
BAT Conventionals (%-W)						
Total Solids						
Total Solids	98.62	98.62	98.62	98.62	98.62	98.62

Blank cells indicate that no analysis was performed.

Table G-10: Batch Adsorption Test Results

Constituent	Sample ID: Site ID: Sample Date: Media:	SO-PTC-001-091517-2.5-4.5-(97) PTC-001 09/15/17 Soil	SO-PTC-001-091517-2.5-4.5-(98) PTC-001 09/15/17 Soil	SO-PTC-001-091517-23.0-25.0-(81) PTC-001 09/15/17 Soil	SO-PTC-001-091517-23.0-25.0-(82) PTC-001 09/15/17 Soil	SO-PTC-001-091517-23.0-25.0-(83) PTC-001 09/15/17 Soil	SO-PTC-001-091517-23.0-25.0-(84) PTC-001 09/15/17 Soil
BAT Conventionals ()							
pH							
BAT Metals (mg/kg)							
Arsenate Ion - As(O4)3-							
Arsenite Ion - As(O3)3-							
Sum of arsenic species							
BAT Conventionals ()							
pH		9.08	9.06	8.41	8.53	8.49	8.21
BAT Metals (mg/kg)							
Arsenate Ion - As(O4)3-				2.26	6.50	38.60	167.00
Arsenite Ion - As(O3)3-		28.60	144.00				
Sum of arsenic species		28.60	144.00	2.26	6.50	38.60	167.00
BAT Conventionals (%-W)							
Total Solids							
Total Solids		98.62	98.62	99.49	99.49	99.49	99.49

Blank cells indicate that no analysis was performed.

Table G-10: Batch Adsorption Test Results

Constituent	Sample ID: 0-25.0-(85) Site ID: PTC-001 Sample Date: 09/15/17 Media: Soil	SO-PTC-001-091517-23. 0-25.0-(86) PTC-001 09/15/17 Soil	SO-PTC-001-091517-23. 0-25.0-(87) PTC-001 09/15/17 Soil	SO-PTC-001-091517-23. 0-25.0-(88) PTC-001 09/15/17 Soil	SO-PTC-001-091517-23. 0-25.0-(88)-RE PTC-001 09/15/17 Soil	SO-PTC-001-091517-23. .0-25.0-(91) PTC-001 09/15/17 Soil
BAT Conventionals ()						
pH						
BAT Metals (mg/kg)						
Arsenate Ion - As(O4)3-						
Arsenite Ion - As(O3)3-						
Sum of arsenic species						
BAT Conventionals ()						
pH	9.63	9.63	9.63	9.61	9.57	8.78
BAT Metals (mg/kg)						
Arsenate Ion - As(O4)3-	3.31	8.14	42.00	190.00	178.00	
Arsenite Ion - As(O3)3-						2.47
Sum of arsenic species	3.31	8.14	42.00	190.00	178.00	2.47
BAT Conventionals (%-W)						
Total Solids						
Total Solids	99.49	99.49	99.49	99.49	99.49	99.49

Blank cells indicate that no analysis was performed.

Table G-10: Batch Adsorption Test Results

Constituent	Sample ID: 0-25.0-(92) Site ID: PTC-001 Sample Date: 09/15/17 Media: Soil	SO-PTC-001-091517-23. 0-25.0-(93) PTC-001 09/15/17 Soil	SO-PTC-001-091517-23. 0-25.0-(94) PTC-001 09/15/17 Soil	SO-PTC-001-091517-23. 0-25.0-(95) PTC-001 09/15/17 Soil	SO-PTC-001-091517-23. 0-25.0-(96) PTC-001 09/15/17 Soil	SO-PTC-001-091517-23. .0-25.0-(97) PTC-001 09/15/17 Soil
BAT Conventionals ()						
pH						
BAT Metals (mg/kg)						
Arsenate Ion - As(O4)3-						
Arsenite Ion - As(O3)3-						
Sum of arsenic species						
BAT Conventionals ()						
pH	8.53	8.50	8.59	9.62	9.62	9.62
BAT Metals (mg/kg)						
Arsenate Ion - As(O4)3-						
Arsenite Ion - As(O3)3-	6.66	37.30	179.00	3.31	8.04	41.10
Sum of arsenic species	6.66	37.30	179.00	3.31	8.04	41.10
BAT Conventionals (%-W)						
Total Solids						
Total Solids	99.49	99.49	99.49	99.49	99.49	99.49

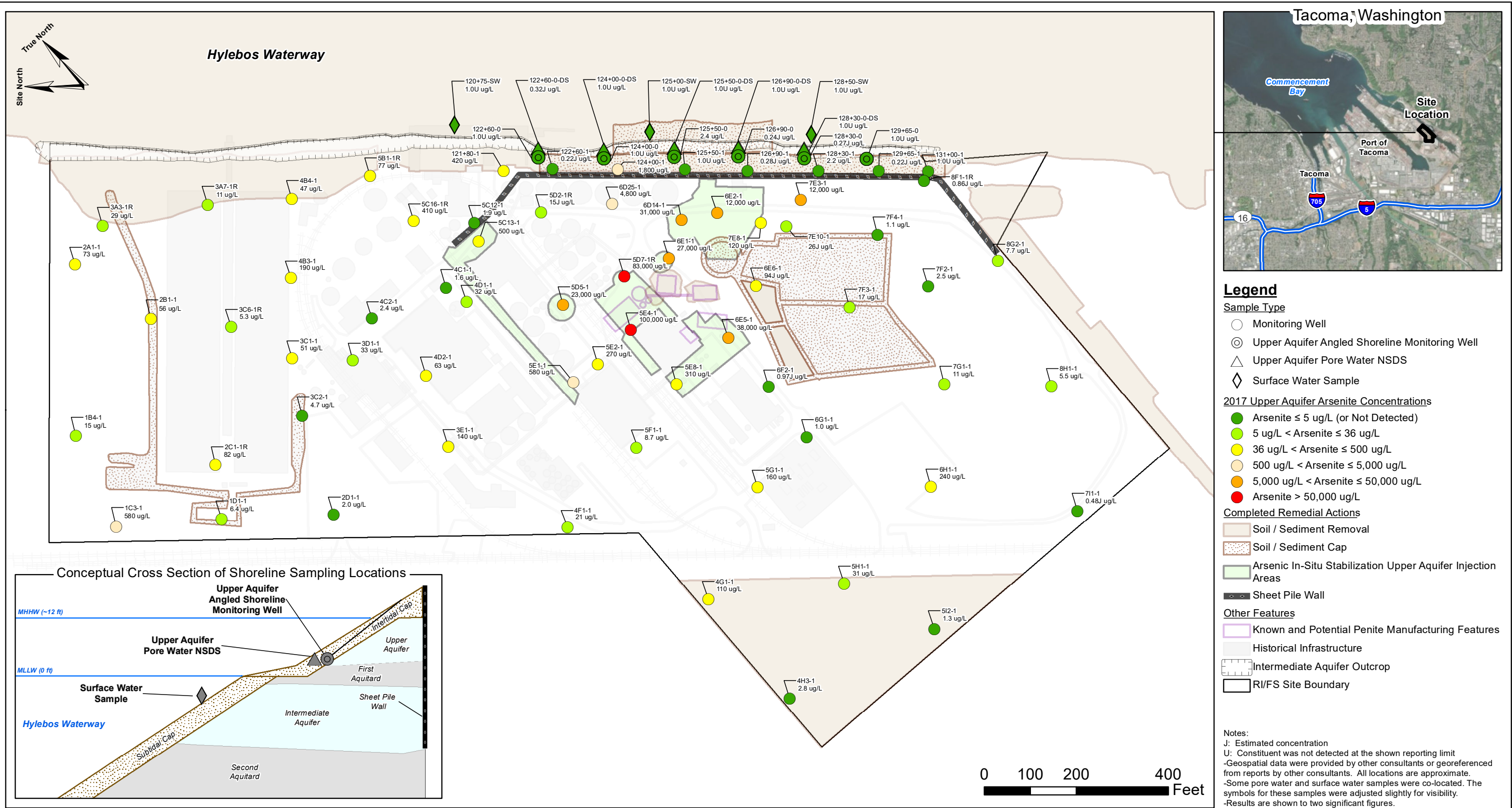
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Table G-10: Batch Adsorption Test Results

Constituent	Sample ID: 0-25.0-(98) Site ID: PTC-001 Sample Date: 09/15/17 Media: Soil	SO-PTC-001-091517-23.	SO-PTC-002-091317-23. 0-25.0-(85) PTC-002 09/13/17 Soil	SO-PTC-002-091317-23. 0-25.0-(86) PTC-002 09/13/17 Soil	SO-PTC-002-091317-23. 0-25.0-(87) PTC-002 09/13/17 Soil	SO-PTC-002-091317-23. 0-25.0-(88) PTC-002 09/13/17 Soil	//
BAT Conventionals ()							
pH							
BAT Metals (mg/kg)							
Arsenate Ion - As(O4)3-							
Arsenite Ion - As(O3)3-							
Sum of arsenic species							
BAT Conventionals ()							
pH	9.63	9.62	9.65	9.67	9.65		
BAT Metals (mg/kg)							
Arsenate Ion - As(O4)3-		3.33	8.44	44.60	175.00		
Arsenite Ion - As(O3)3-	184.00						
Sum of arsenic species	184.00	3.33	8.44	44.60	175.00		
BAT Conventionals (%-W)							
Total Solids							
Total Solids	99.49	99.67	99.67	99.67	99.67		

Blank cells indicate that no analysis was performed.

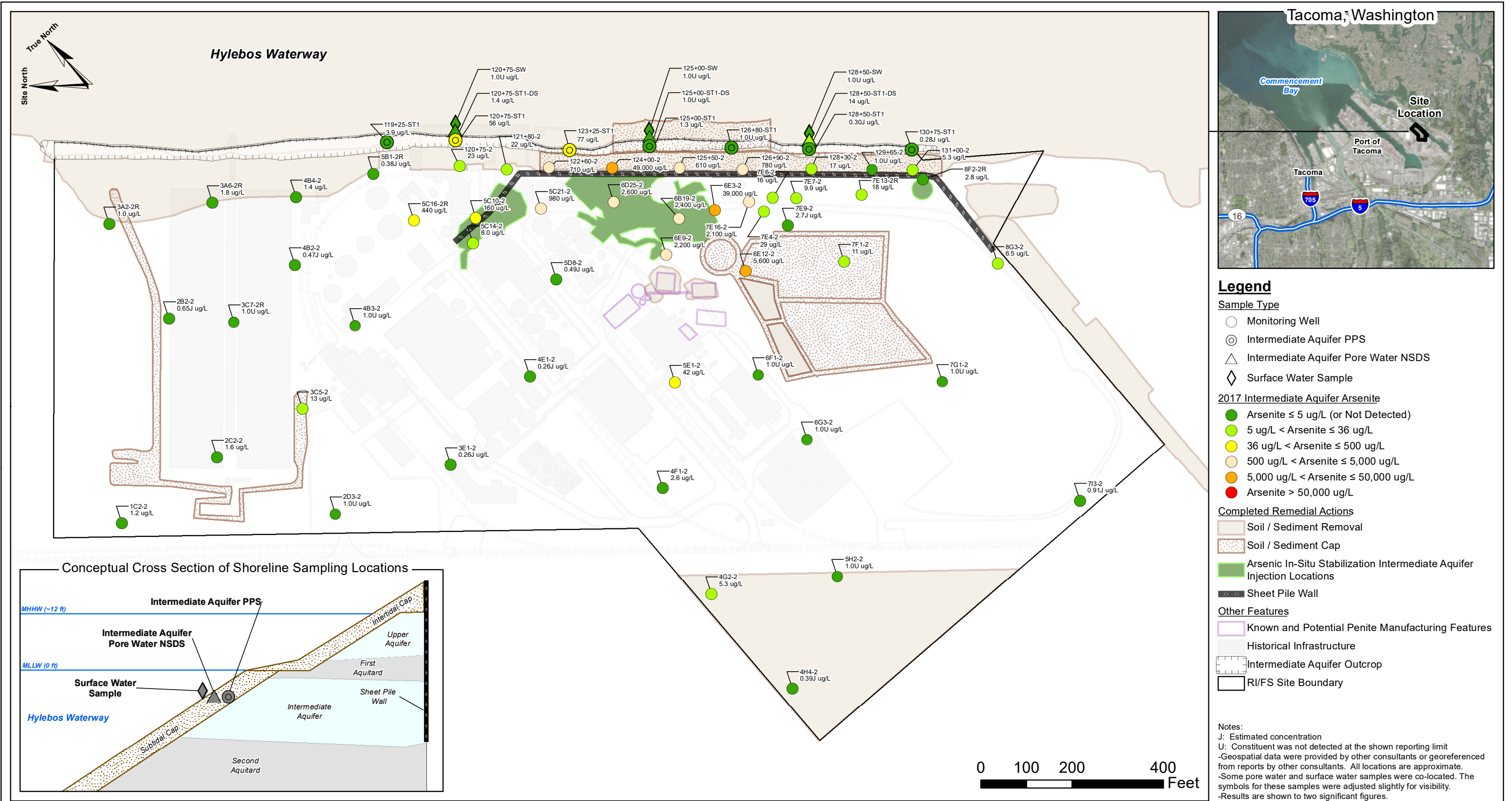
Appendix H



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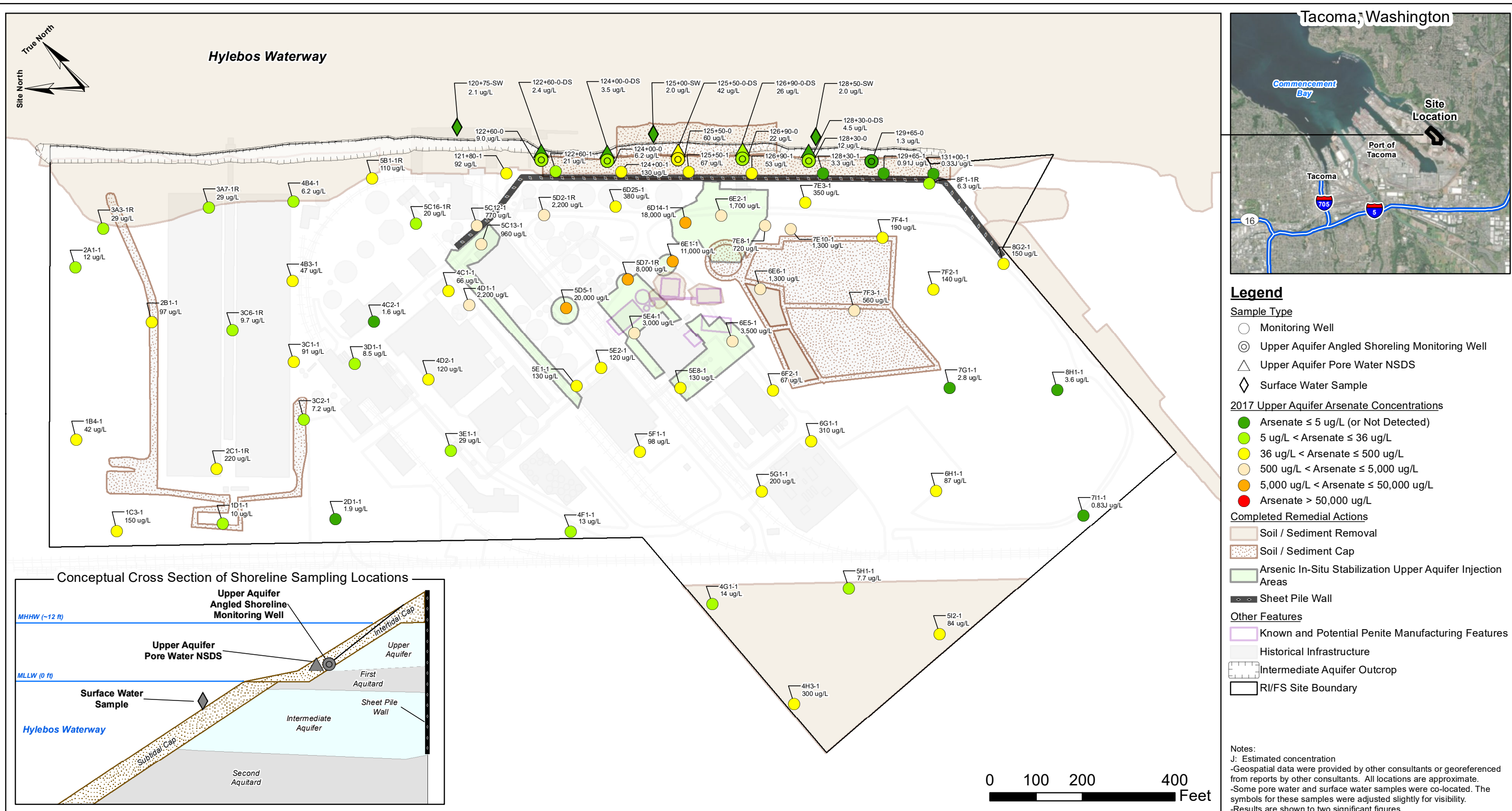
2017 Dissolved Arsenite Concentrations in the Upper Aquifer
FS Data Gap Investigation Report
Former Arkema Manufacturing Site

Figure H-1



2017 Dissolved Arsenite Concentrations in the Intermediate Aquifer
 FS Data Gap Investigation Report
 Former Arkema Manufacturing Site

Figure H-2

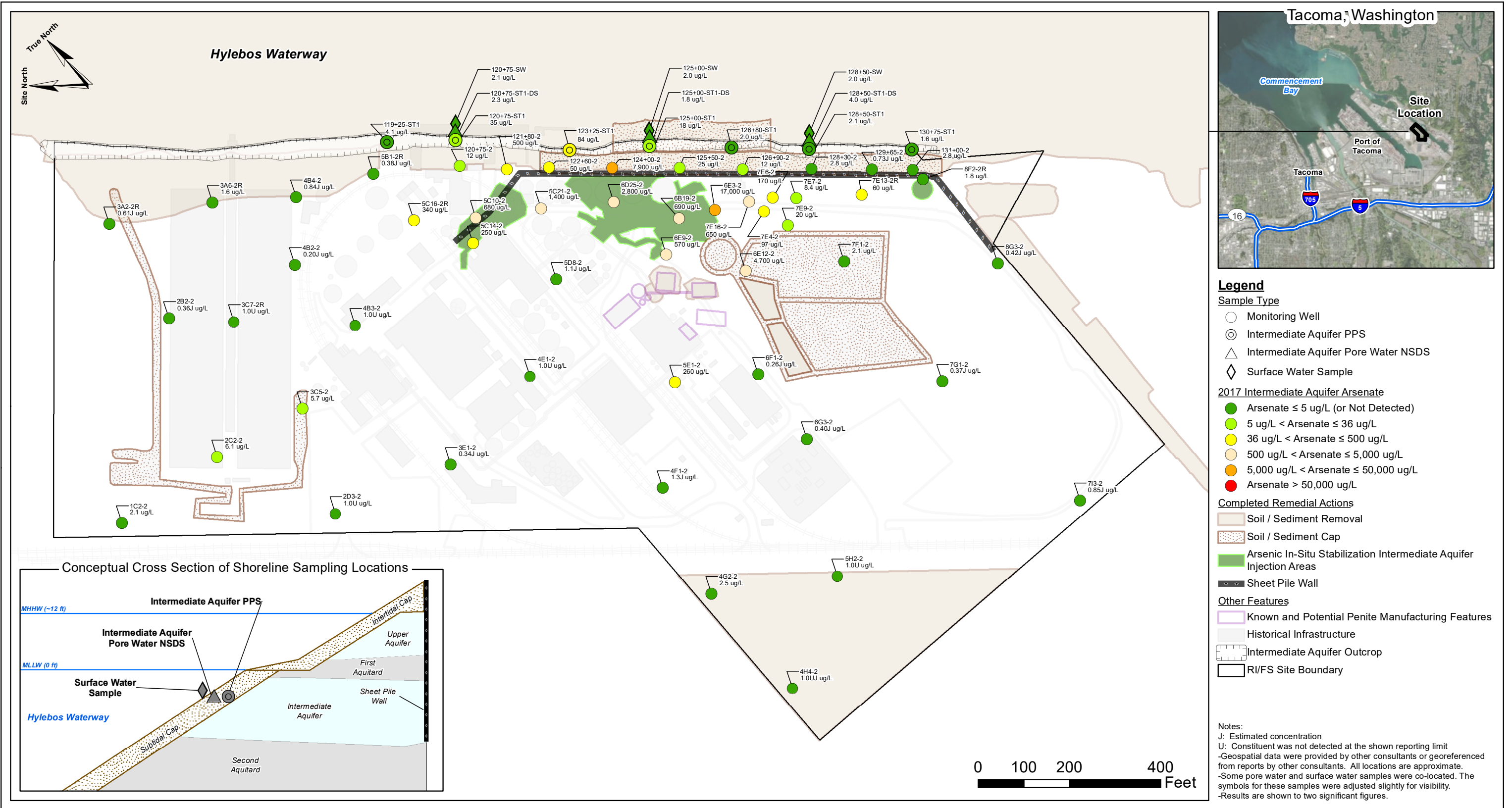


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2017 Dissolved Arsenate Concentrations in the Upper Aquifer
FS Data Gap Investigation Report
Former Arkema Manufacturing Site

Figure H-3

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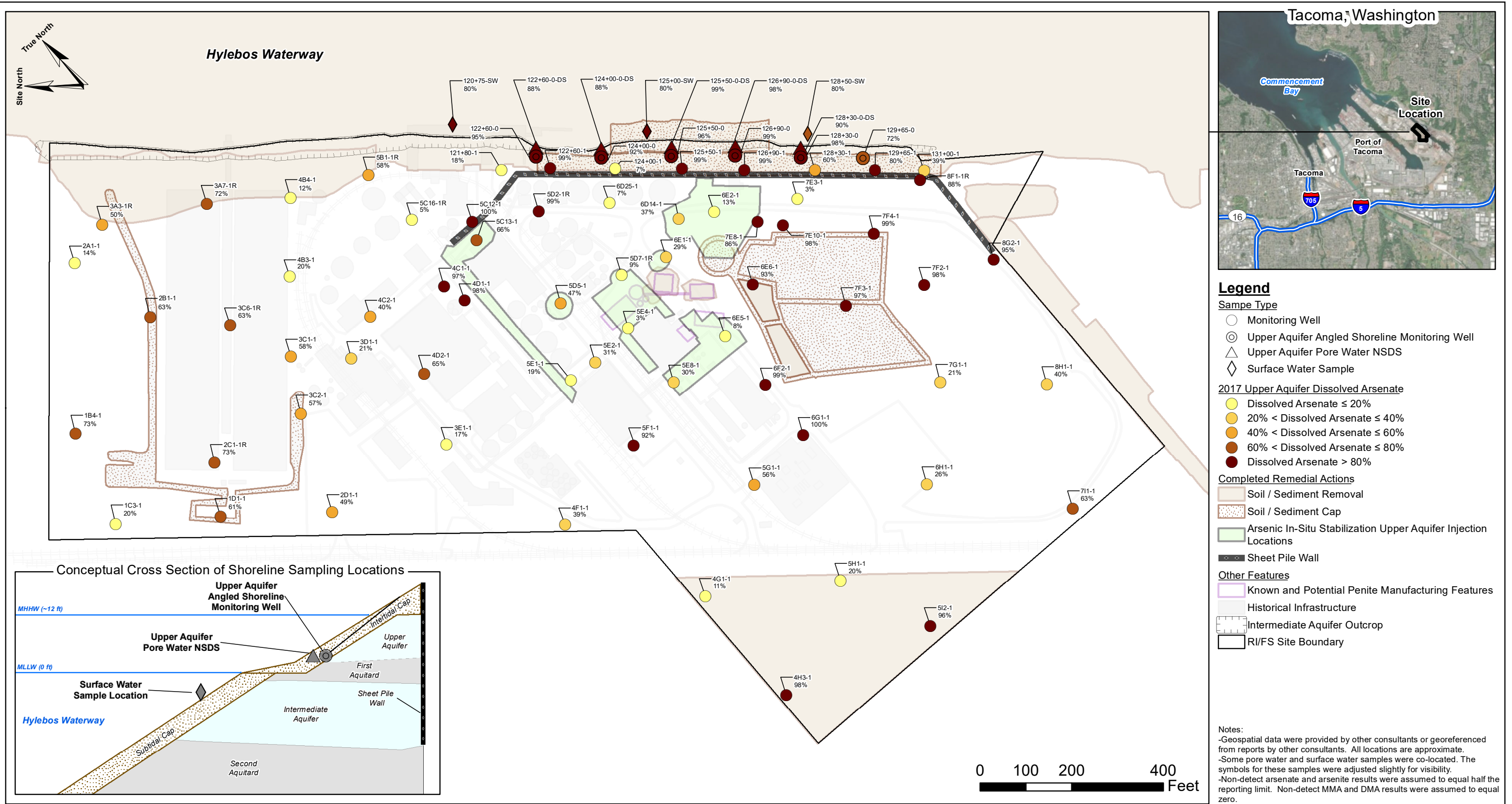


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2017 Dissolved Arsenate Concentrations in the Intermediate Aquifer FS Data Gap Investigation Report Former Arkema Manufacturing Site

Figure H-4

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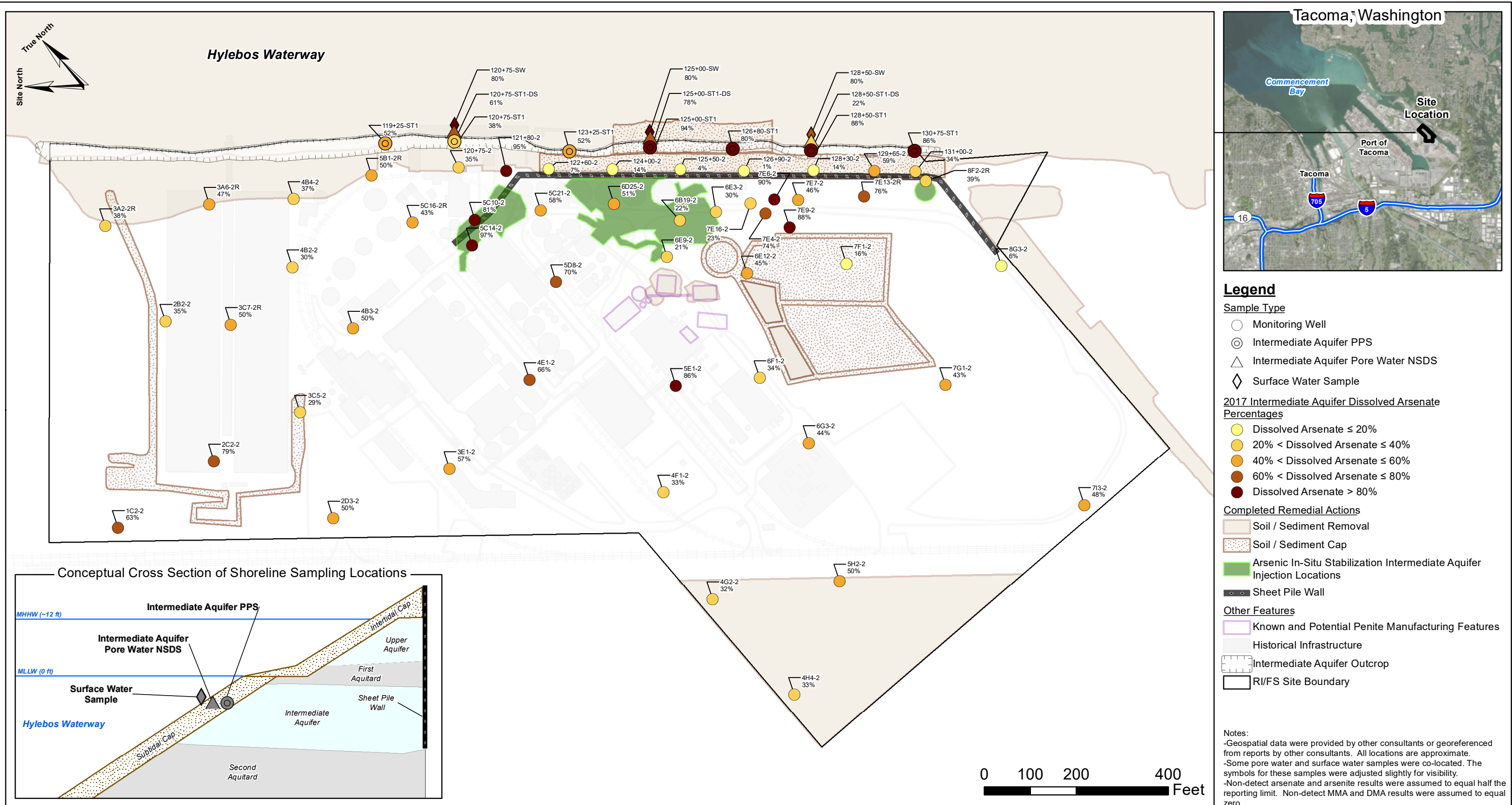


2017 Dissolved Arsenate Percentages in the Upper Aquifer
 FS Data Gap Investigation Report
 Former Arkema Manufacturing Site

Figure H-5

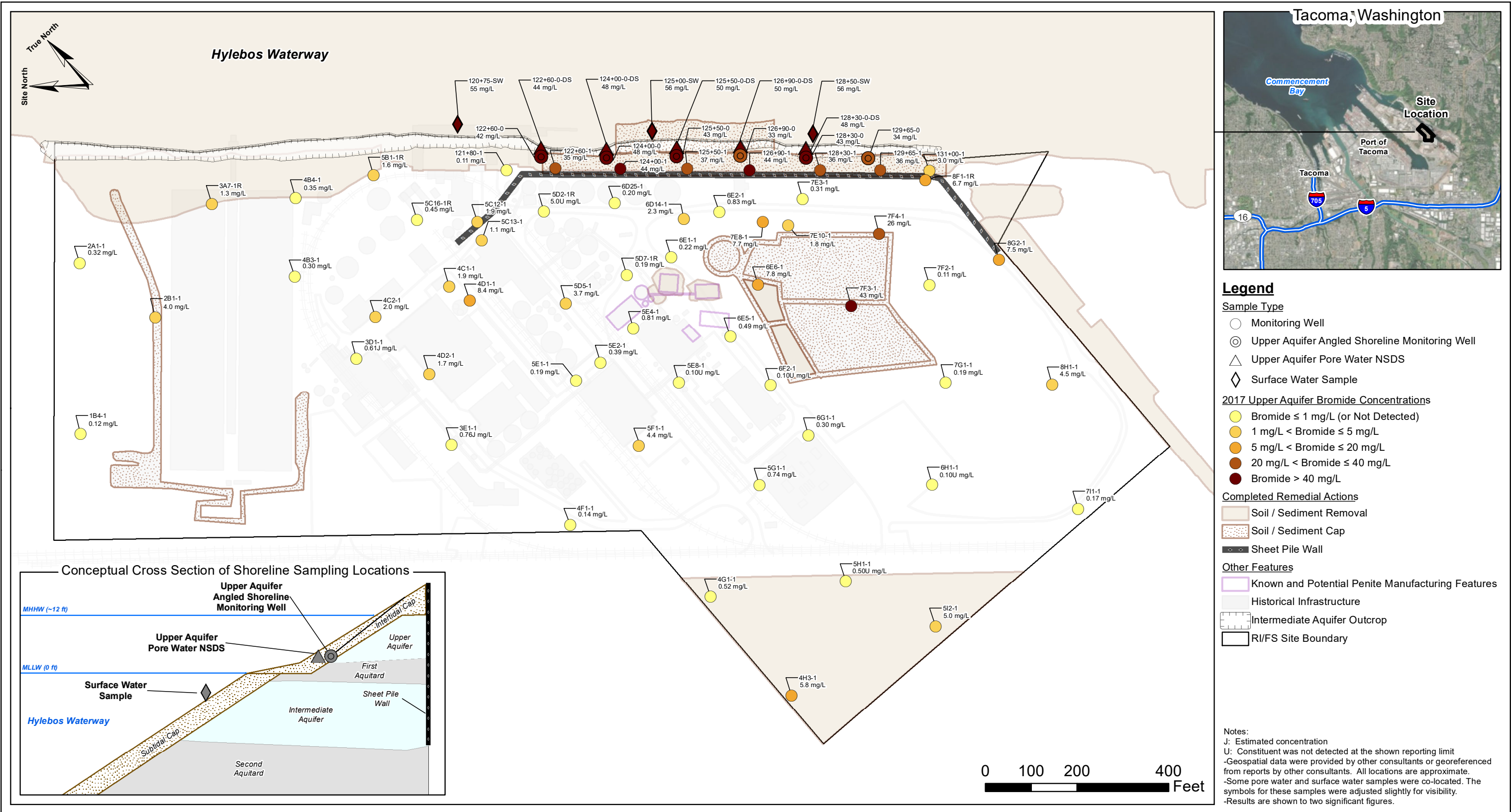


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2017 Dissolved Arsenate Percentages in the Intermediate Aquifer
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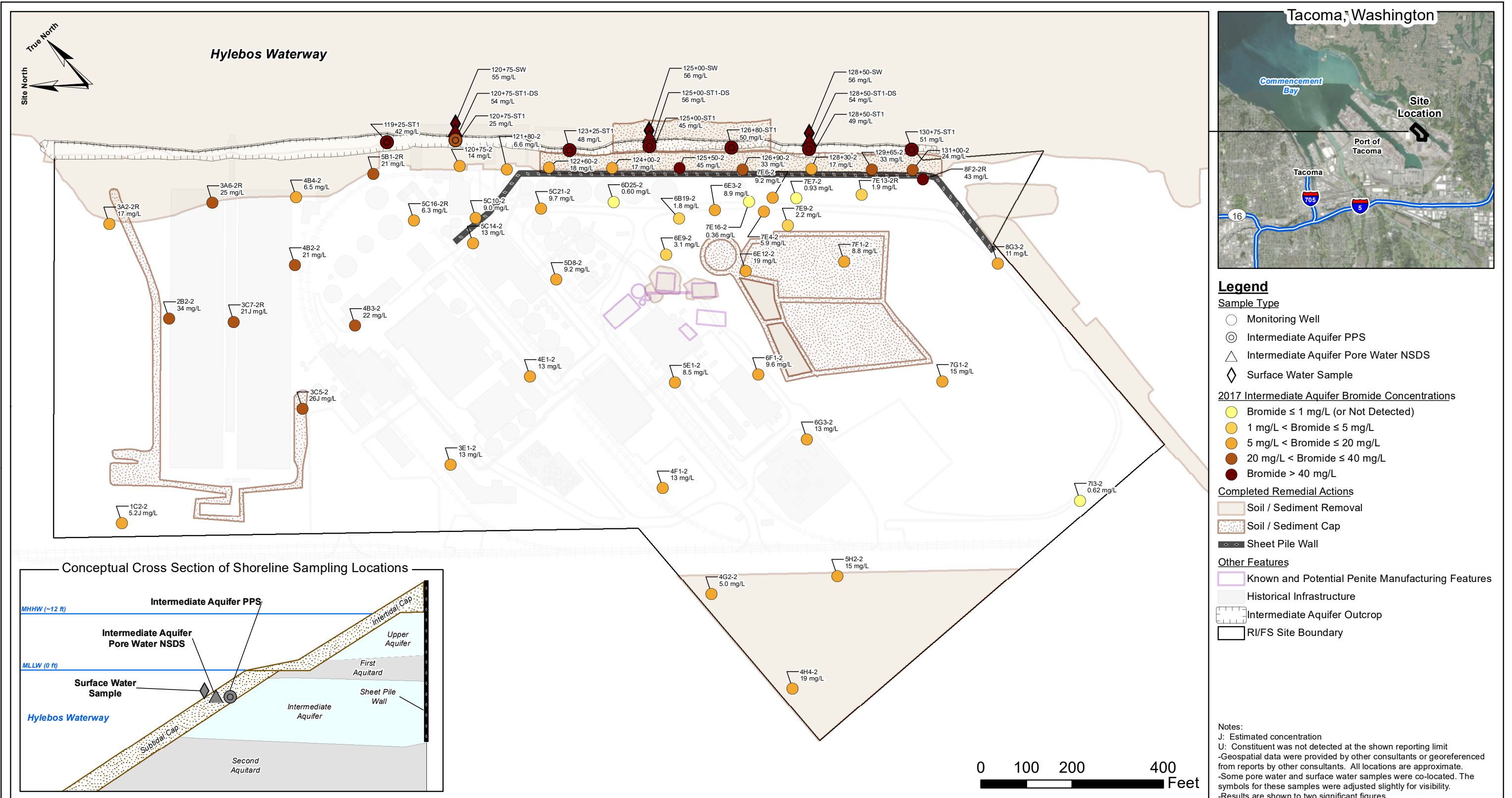
Figure H-6



2017 Bromide Concentrations in the Upper Aquifer
 FS Data Gap Investigation Report
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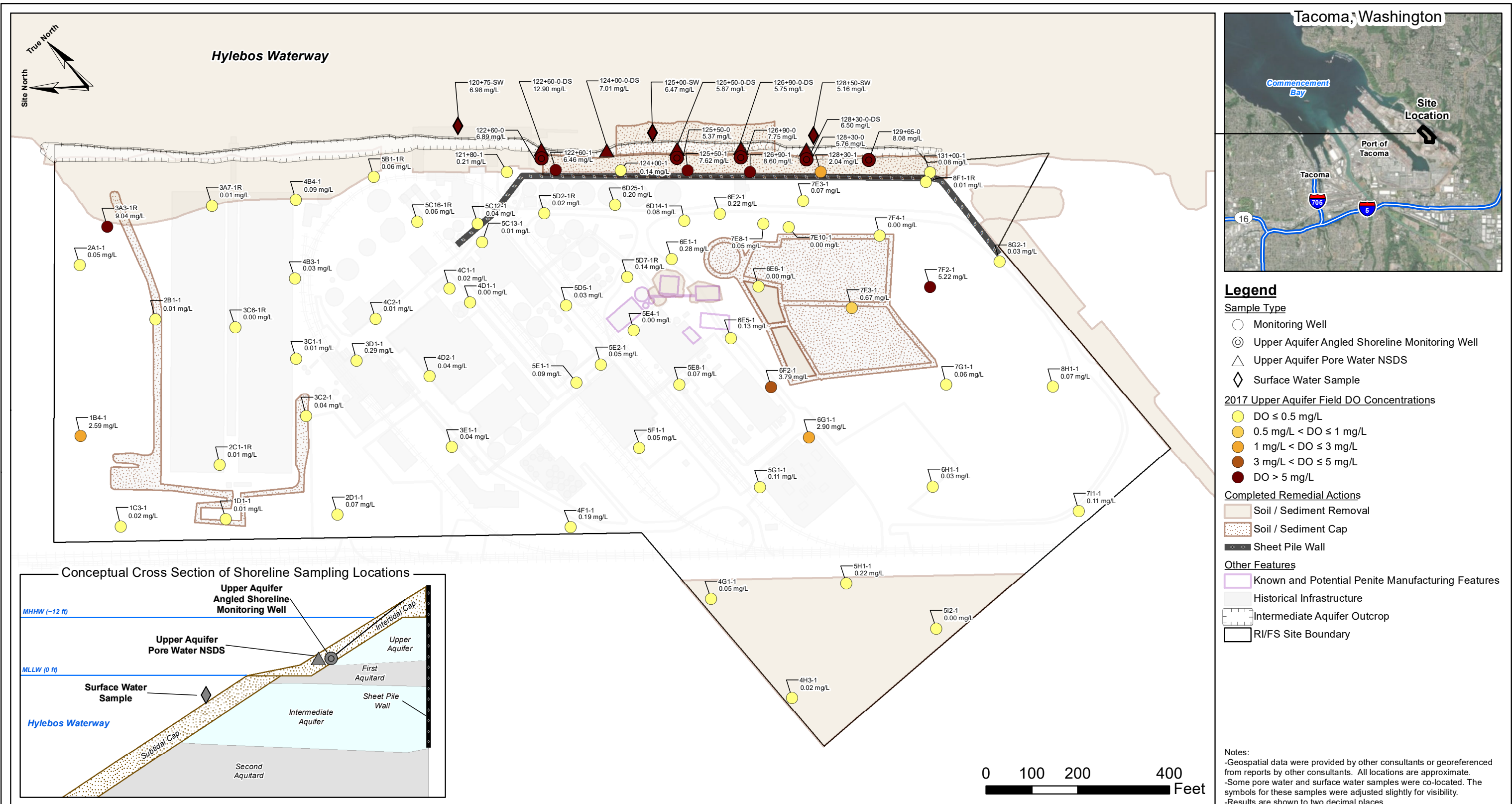
Figure H-7

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2017 Bromide Concentrations in the Intermediate Aquifer
 FS Data Gap Investigation Report
 Former Arkema Manufacturing Site

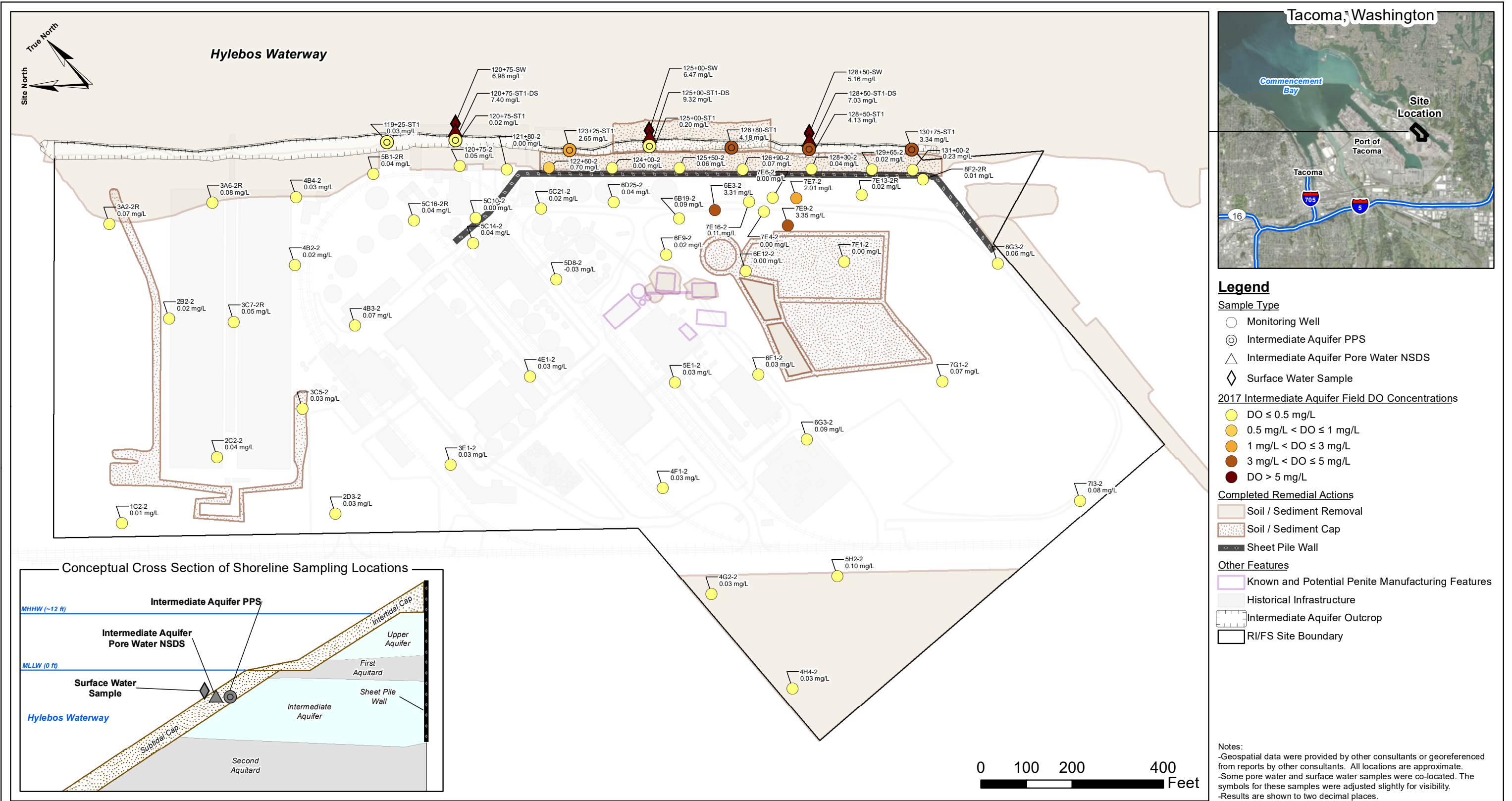
Figure H-8



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2017 Field Dissolved Oxygen Concentrations in the Upper Aquifer
FS Data Gap Investigation Report
Former Arkema Manufacturing Site

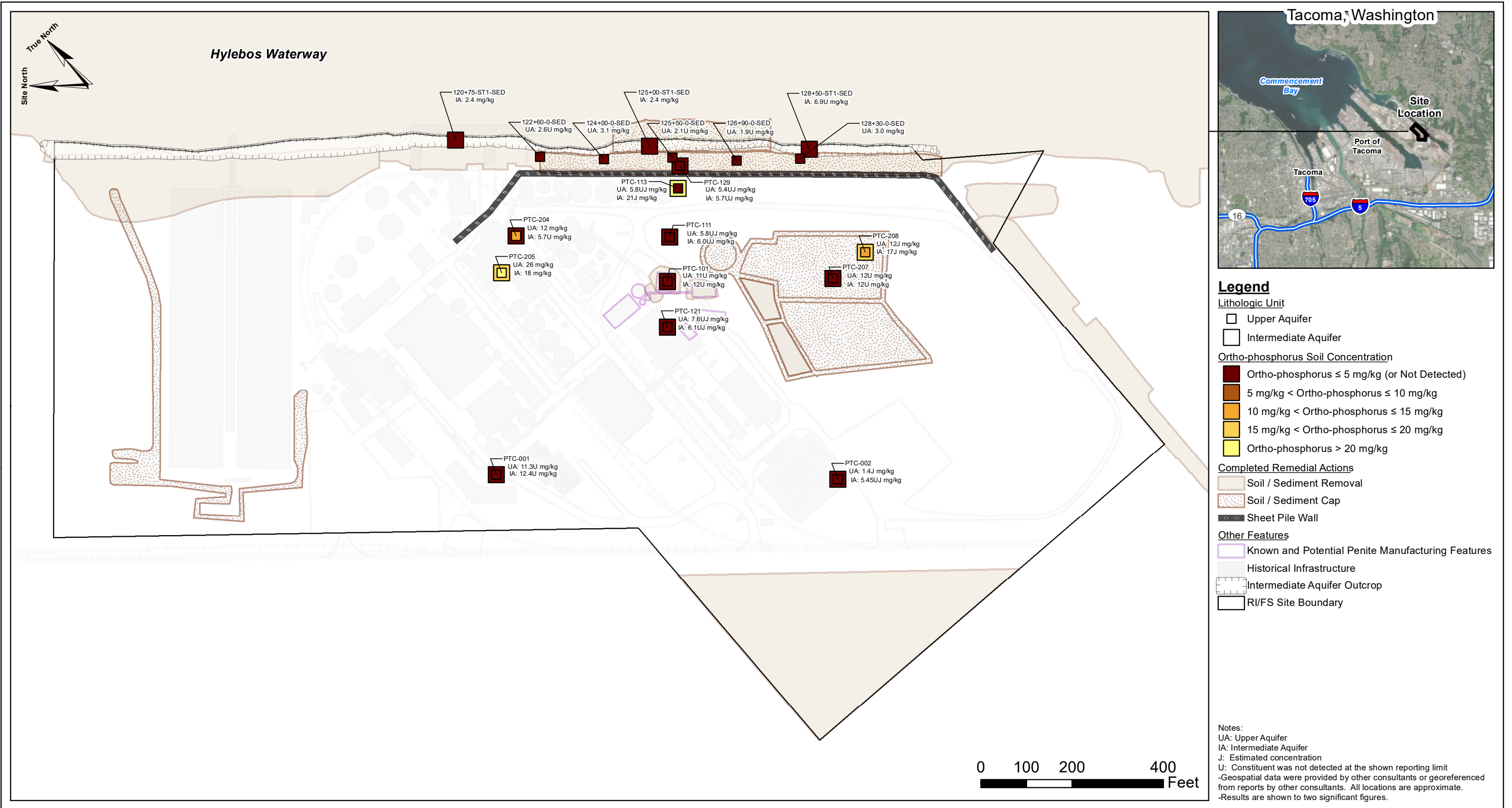
Figure H-9



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2017 Field Dissolved Oxygen Concentrations in the Intermediate Aquifer
 FS Data Gap Investigation Report
 Former Arkema Manufacturing Site

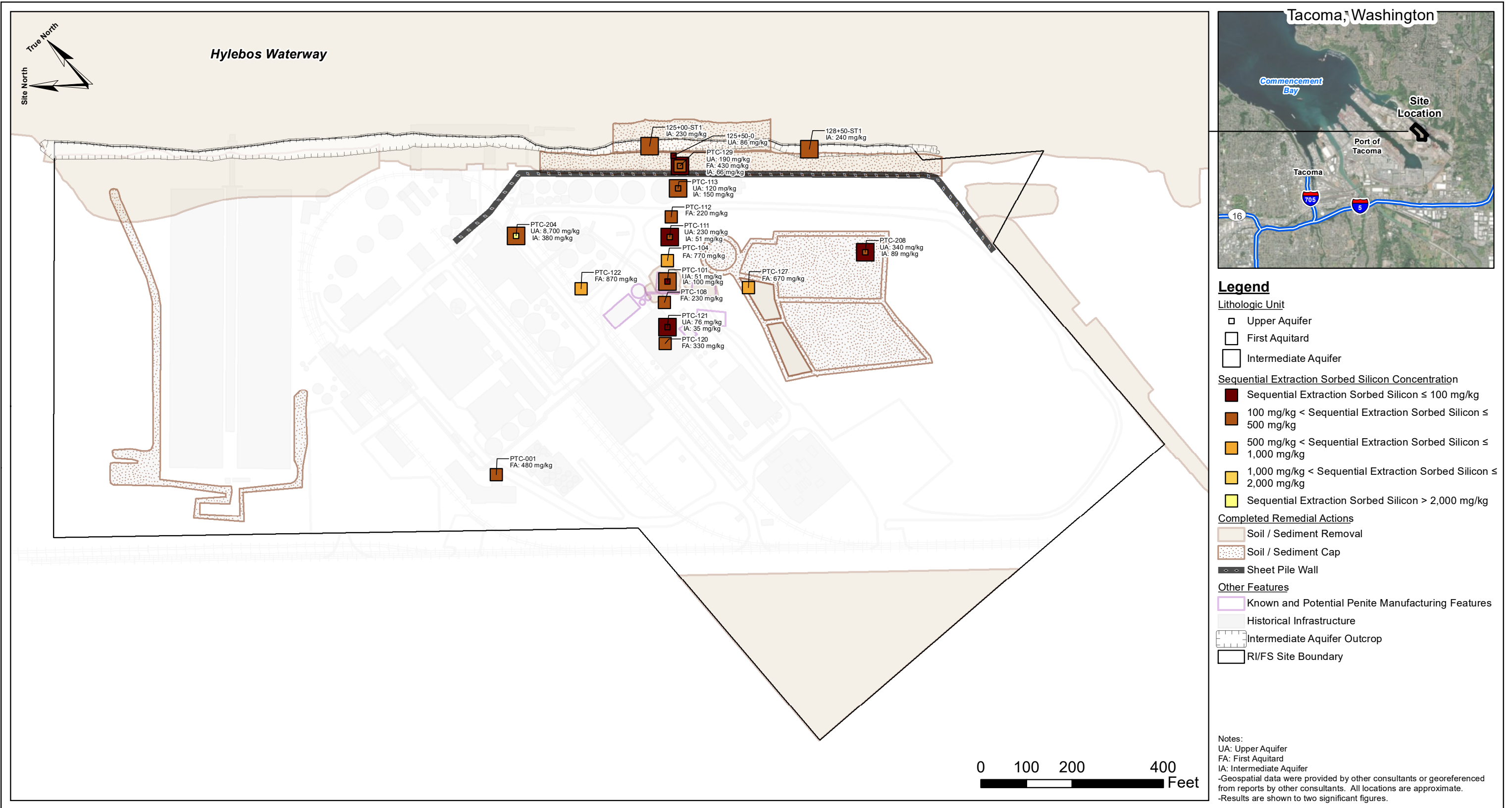
Figure H-10



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2017 Ortho-phosphorus Concentrations in Soil and Sediment
FS Data Gap Investigation Report
Former Arkema Manufacturing Site

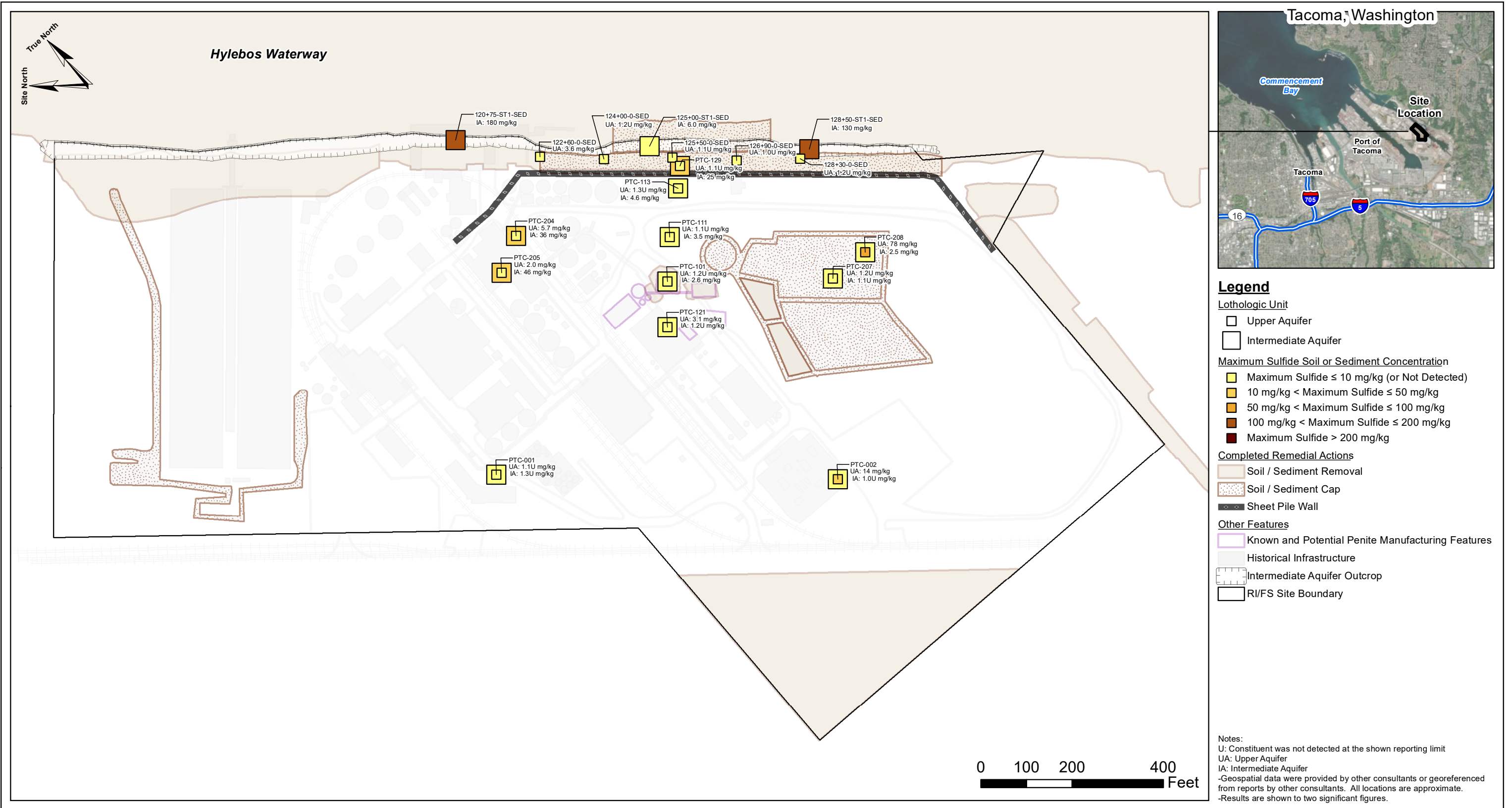
Figure H-11



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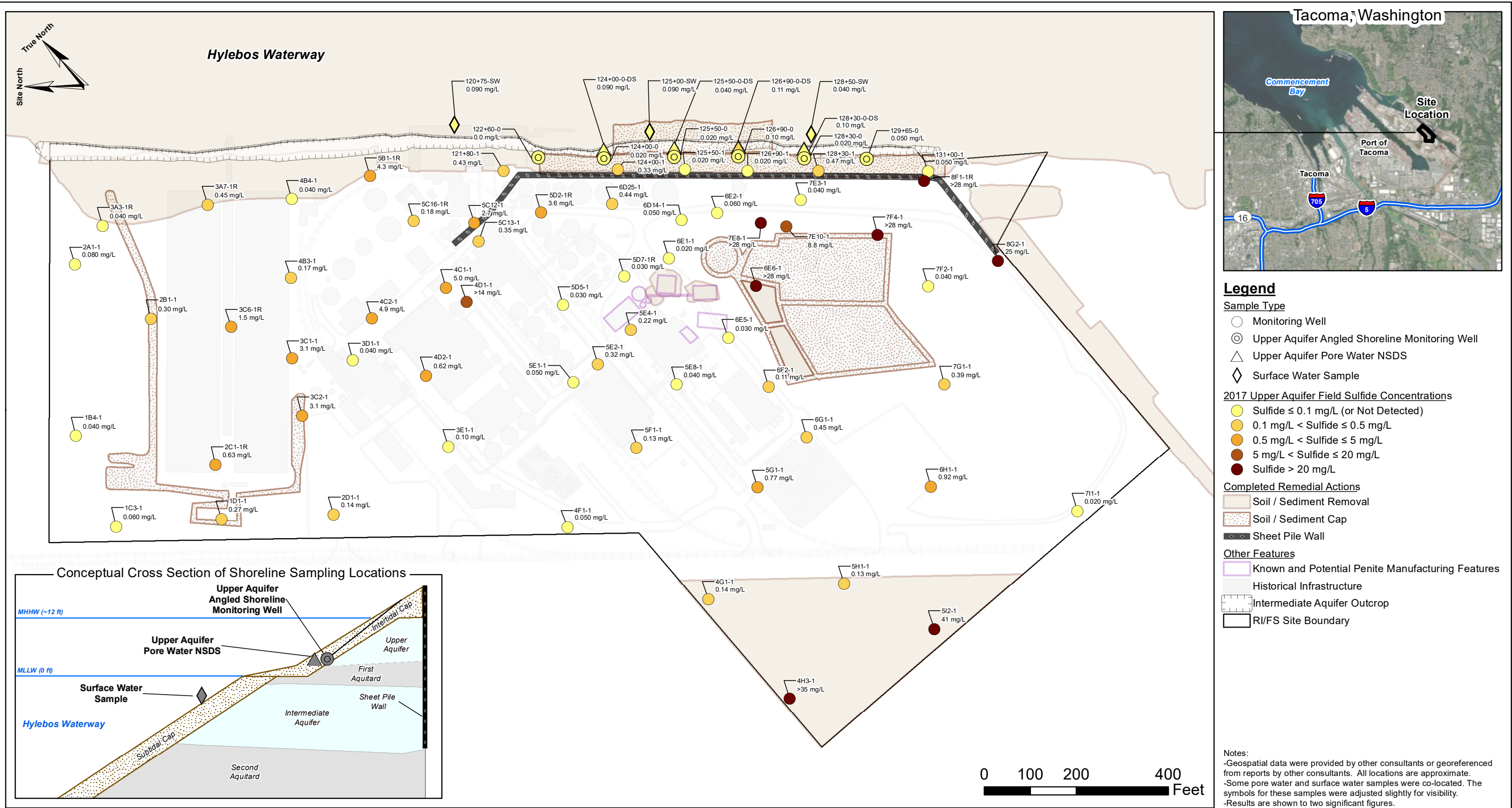
Sequential Extraction Sorbed Silicon Concentrations for Soil and Sediment
 FS Data Gap Investigation Report
 Former Arkema Manufacturing Site

Figure H-12



2017 Sulfide Concentrations in Soil and Sediment
 FS Data Gap Investigation Report
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Figure H-13



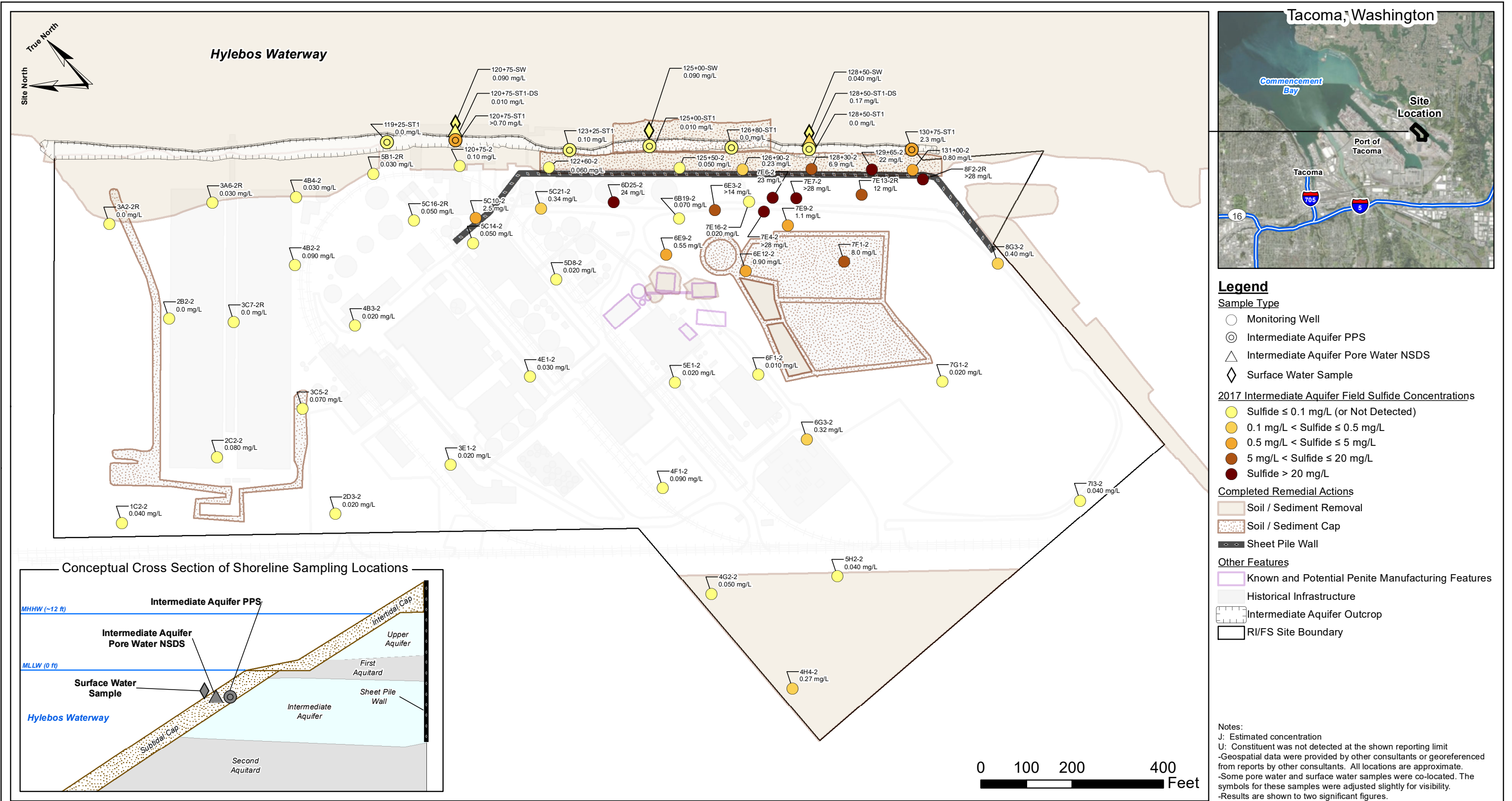
2017 Field Sulfide Concentrations in the Upper Aquifer
 FS Data Gap Investigation Report
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Figure H-14



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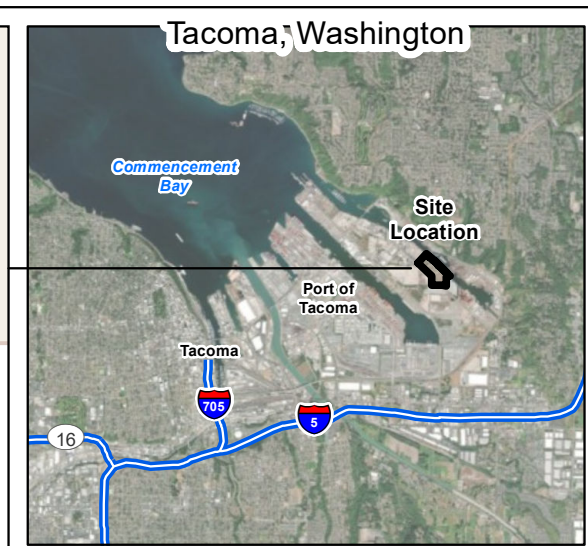
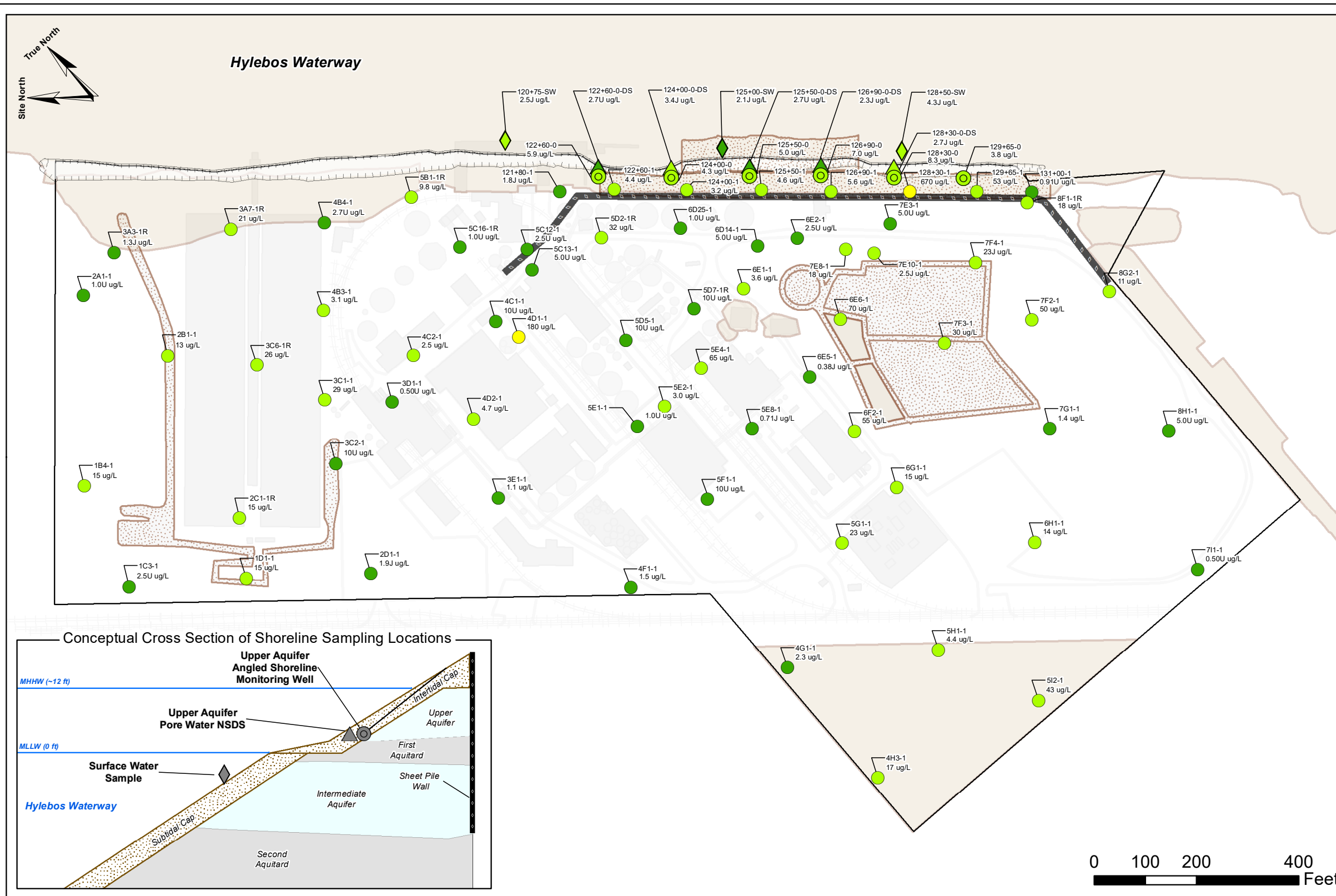
Notes:
 -Geospatial data were provided by other consultants or georeferenced from reports by other consultants. All locations are approximate.
 -Some pore water and surface water samples were co-located. The symbols for these samples were adjusted slightly for visibility.
 -Results are shown to two significant figures.



2017 Field Sulfide Concentrations in the Intermediate Aquifer
 FS Data Gap Investigation Report
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Figure H-15

Document Path: G:\Projects\Arkema\Maps\FS Data Gap Investigation Report\Figures For Appendix H-16_2017_UA_Copper.mxd; Author: VN; Date Saved: 6/14/2019



Legend

Sample Type

- Monitoring Well
- ⊙ Upper Aquifer Angled Shoreline Monitoring Well
- △ Upper Aquifer Pore Water NSDS
- ◇ Surface Water Sample

2017 Upper Aquifer Dissolved Copper Concentrations

- Dissolved Copper ≤ 2.4 ug/L (or Not Detected)
- 2.4 ug/L < Dissolved Copper ≤ 81 ug/L
- 81 ug/L < Dissolved Copper ≤ 810 ug/L
- 810 ug/L < Dissolved Copper ≤ 8,100 ug/L
- Dissolved Copper > 8,100 ug/L

Completed Remedial Actions

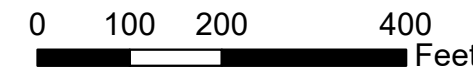
- Soil / Sediment Removal
- Soil / Sediment Cap
- Sheet Pile Wall

Other Features

- Historical Infrastructure
- Intermediate Aquifer Outcrop
- RI/FS Site Boundary

Notes:

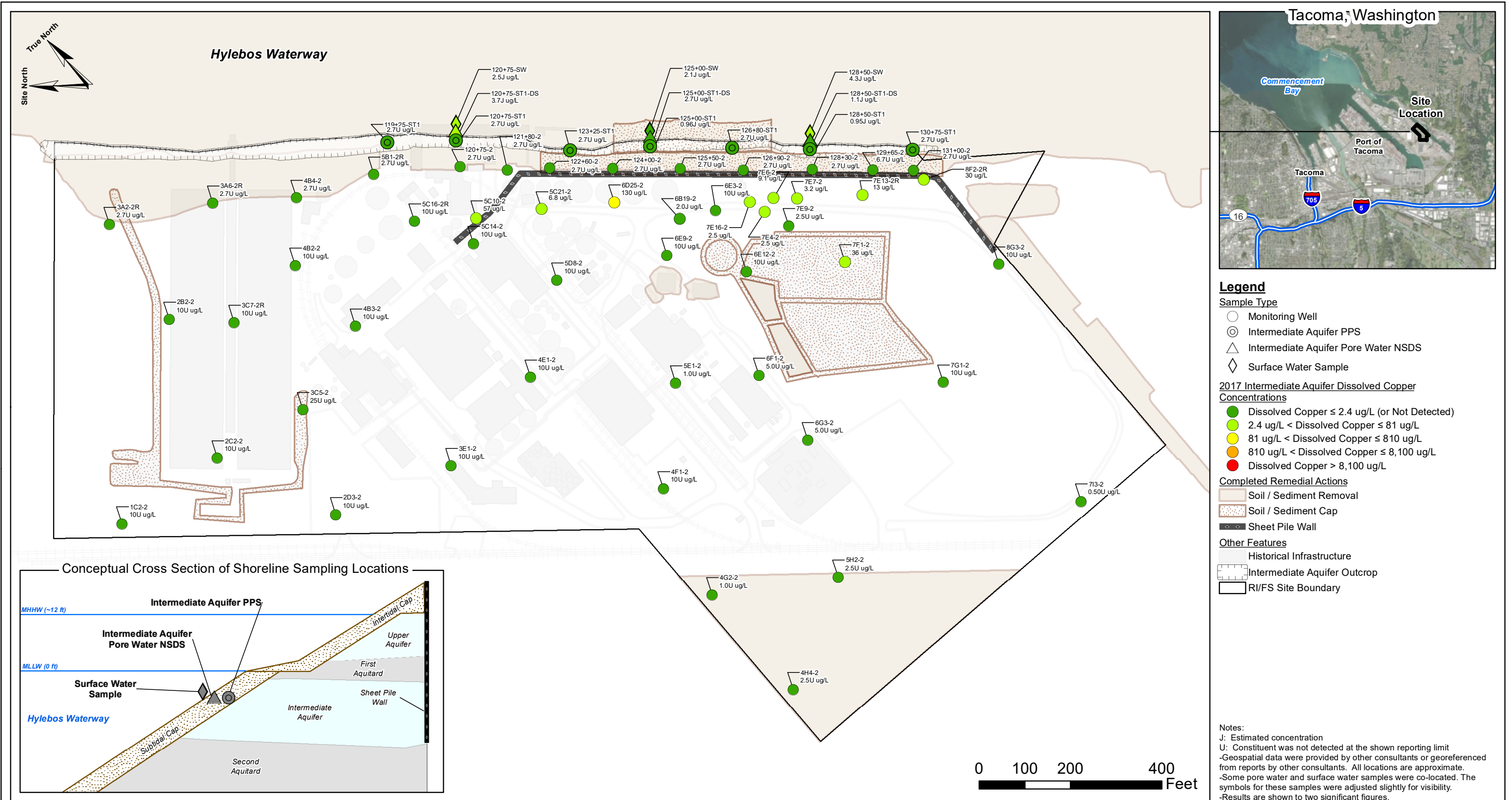
- J: Estimated concentration
- Geospatial data were provided by other consultants or georeferenced from reports by other consultants. All locations are approximate.
- Some pore water and surface water samples were co-located. The symbols for these samples were adjusted slightly for visibility.
- Results are shown to two significant figures.
- Dashed isoconcentration contours are inferred.



2017 Dissolved Copper Concentrations in the Upper Aquifer
FS Data Gap Investigation Report
Former Arkema Manufacturing Site

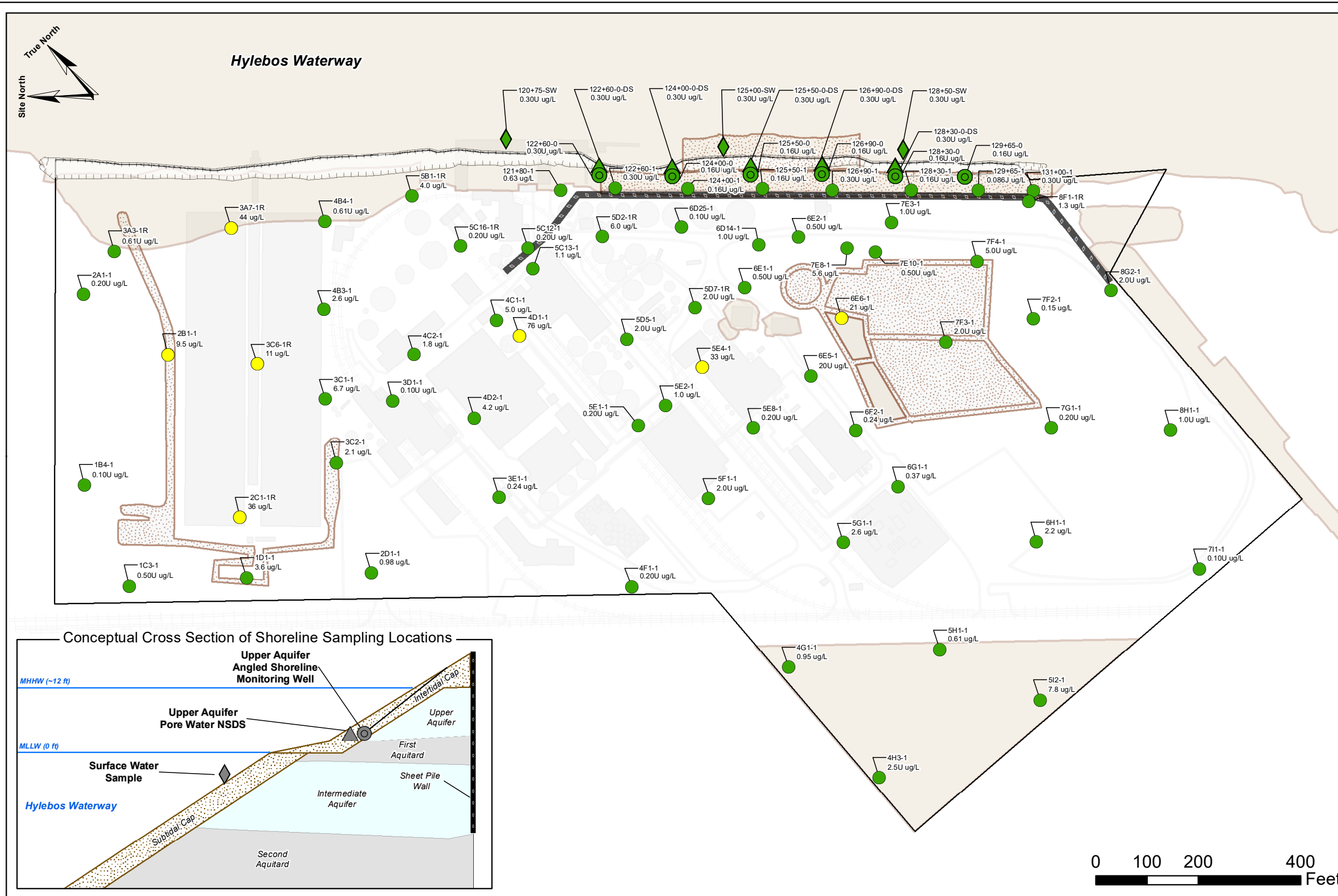
Figure H-16

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2017 Dissolved Copper Concentrations in the Intermediate Aquifer
 FS Data Gap Investigation Report
 Former Arkema Manufacturing Site

Figure H-17



Legend

Sample Type

- Monitoring Well
- ⊙ Upper Aquifer Angled Shoreline Monitoring Well
- △ Upper Aquifer Pore Water NSDS
- ◇ Surface Water Sample

2017 Upper Aquifer Dissolved Lead Concentrations

- Dissolved Lead 8.1 mg/L (or Not Detected)
- 8.1 mg/L < Dissolved Lead ≤ 81 mg/L
- 81 mg/L < Dissolved Lead ≤ 810 mg/L
- Dissolved Lead > 810 mg/L

Completed Remedial Actions

- Soil / Sediment Removal
- Soil / Sediment Cap
- Sheet Pile Wall

Other Features

- ▨ Historical Infrastructure
- ▨ Intermediate Aquifer Outcrop
- ▭ RI/FS Site Boundary

Notes:

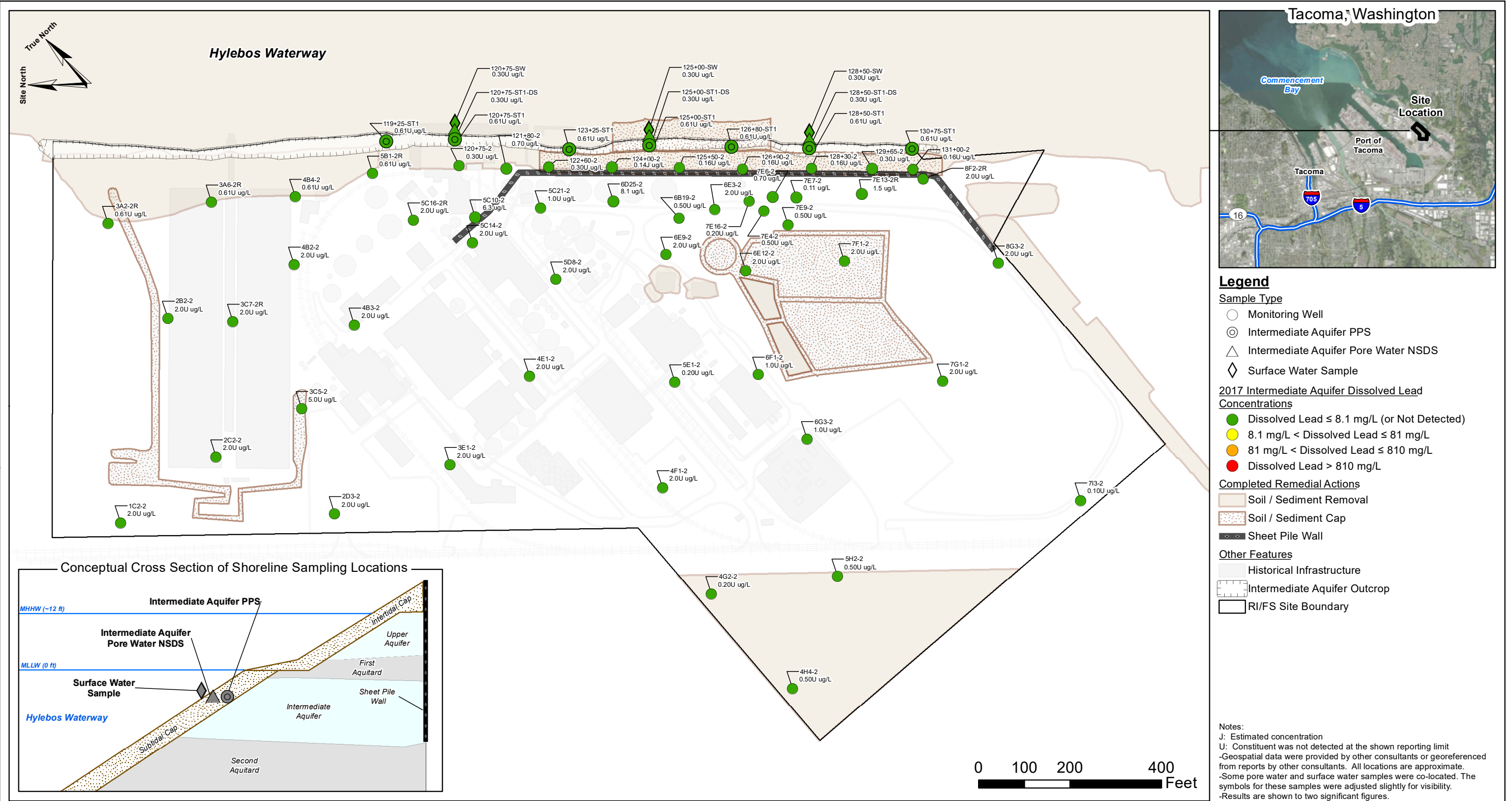
- J: Estimated concentration
- Geospatial data were provided by other consultants or georeferenced from reports by other consultants. All locations are approximate.
- Some pore water and surface water samples were co-located. The symbols for these samples were adjusted slightly for visibility.
- Results are shown to two significant figures.
- Dashed isoconcentration contours are inferred.



**2017 Dissolved Lead Concentrations in the Upper Aquifer
FS Data Gap Investigation Report
Former Arkema Manufacturing Site**

Figure H-18

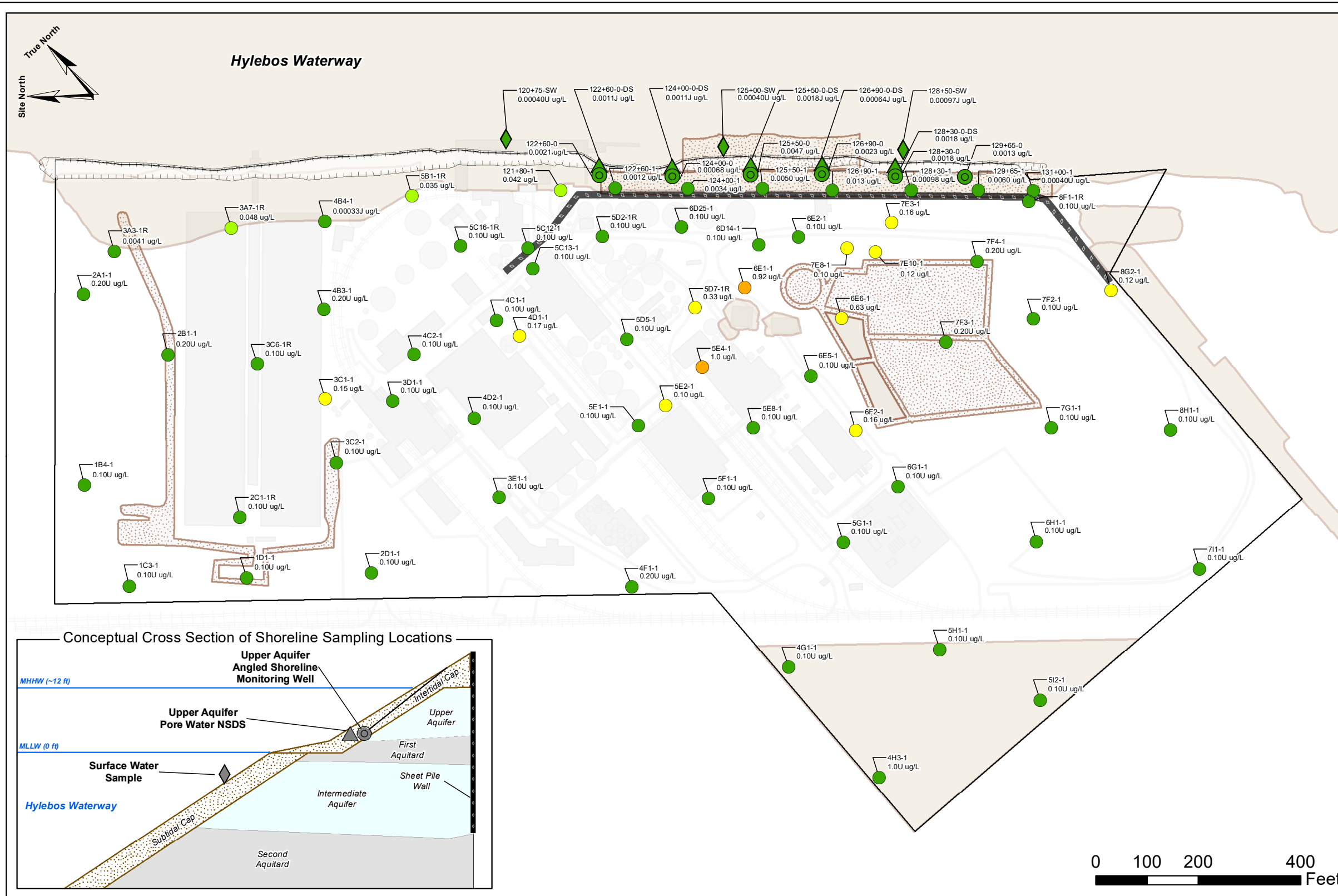
Document Path: G:\Projects\Arkema\Maps\FS Data Gap Investigation Report\Figures For Appendix H-19_2017_IA_Lead.mxd; Author: VN; Date Saved: 7/19/2019



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2017 Dissolved Lead Concentrations in the Intermediate Aquifer
FS Data Gap Investigation Report
Former Arkema Manufacturing Site

Figure H-19



Legend

Sample Type

- Monitoring Well
- ⊙ Upper Aquifer Angled Shoreline Monitoring Well
- △ Upper Aquifer Pore Water NSDS
- ◇ Surface Water Sample

2017 Upper Aquifer Dissolved Mercury Concentrations

- Dissolved Mercury 0.025 ug/L (or Not Detected)
- 0.025 ug/L < Dissolved Mercury ≤ 0.07 ug/L
- 0.07 ug/L < Dissolved Mercury ≤ 0.7 ug/L
- 0.7 ug/L < Dissolved Mercury ≤ 7 ug/L
- Dissolved Mercury > 7 ug/L

Completed Remedial Actions

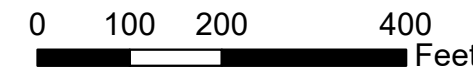
- Soil / Sediment Removal
- Soil / Sediment Cap
- Sheet Pile Wall

Other Features

- Historical Infrastructure
- Intermediate Aquifer Outcrop
- RI/FS Site Boundary

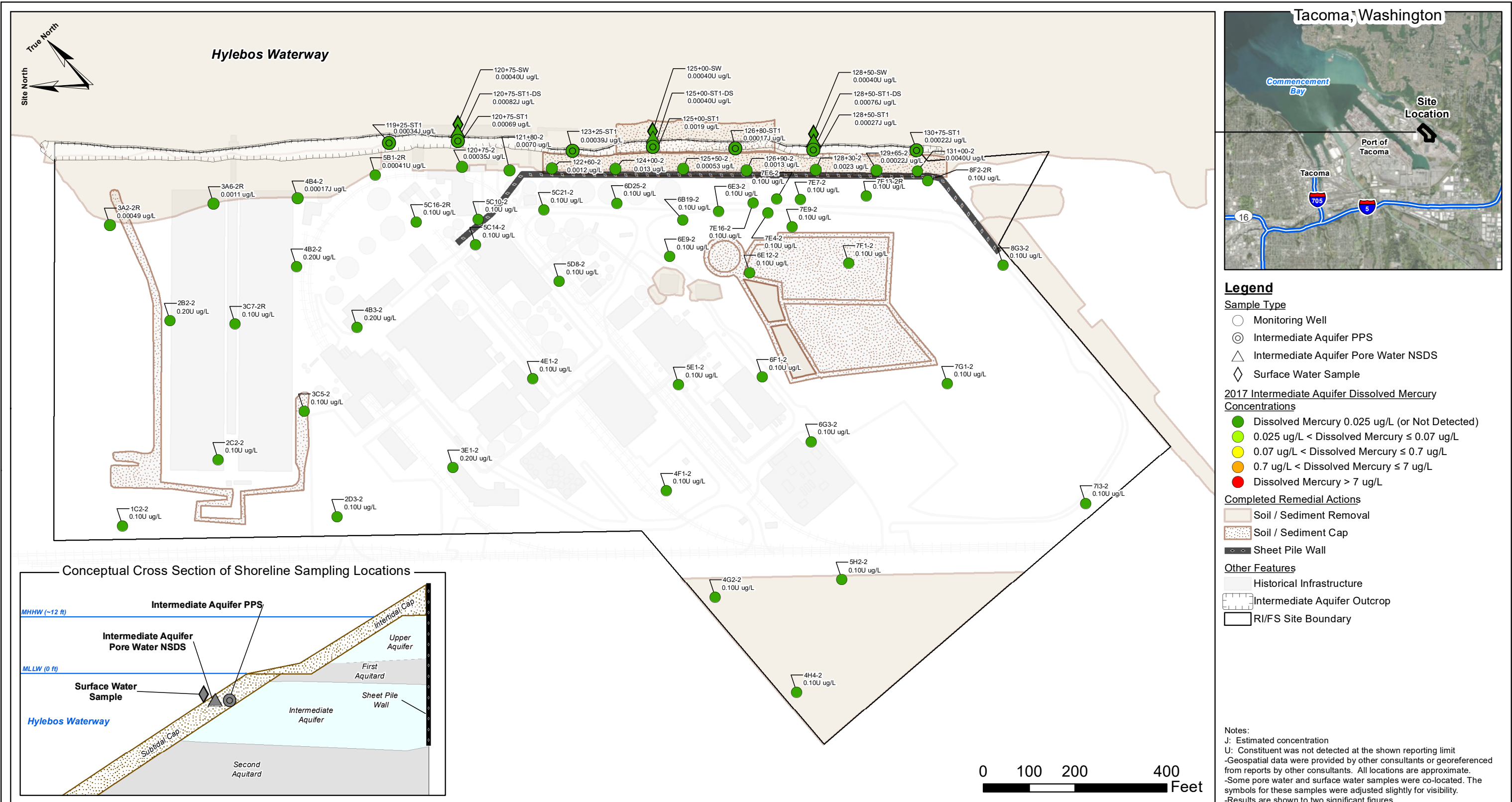
Notes:

- J: Estimated concentration
- Geospatial data were provided by other consultants or georeferenced from reports by other consultants. All locations are approximate.
- Some pore water and surface water samples were co-located. The symbols for these samples were adjusted slightly for visibility.
- Results are shown to two significant figures.
- Dashed isoconcentration contours are inferred.



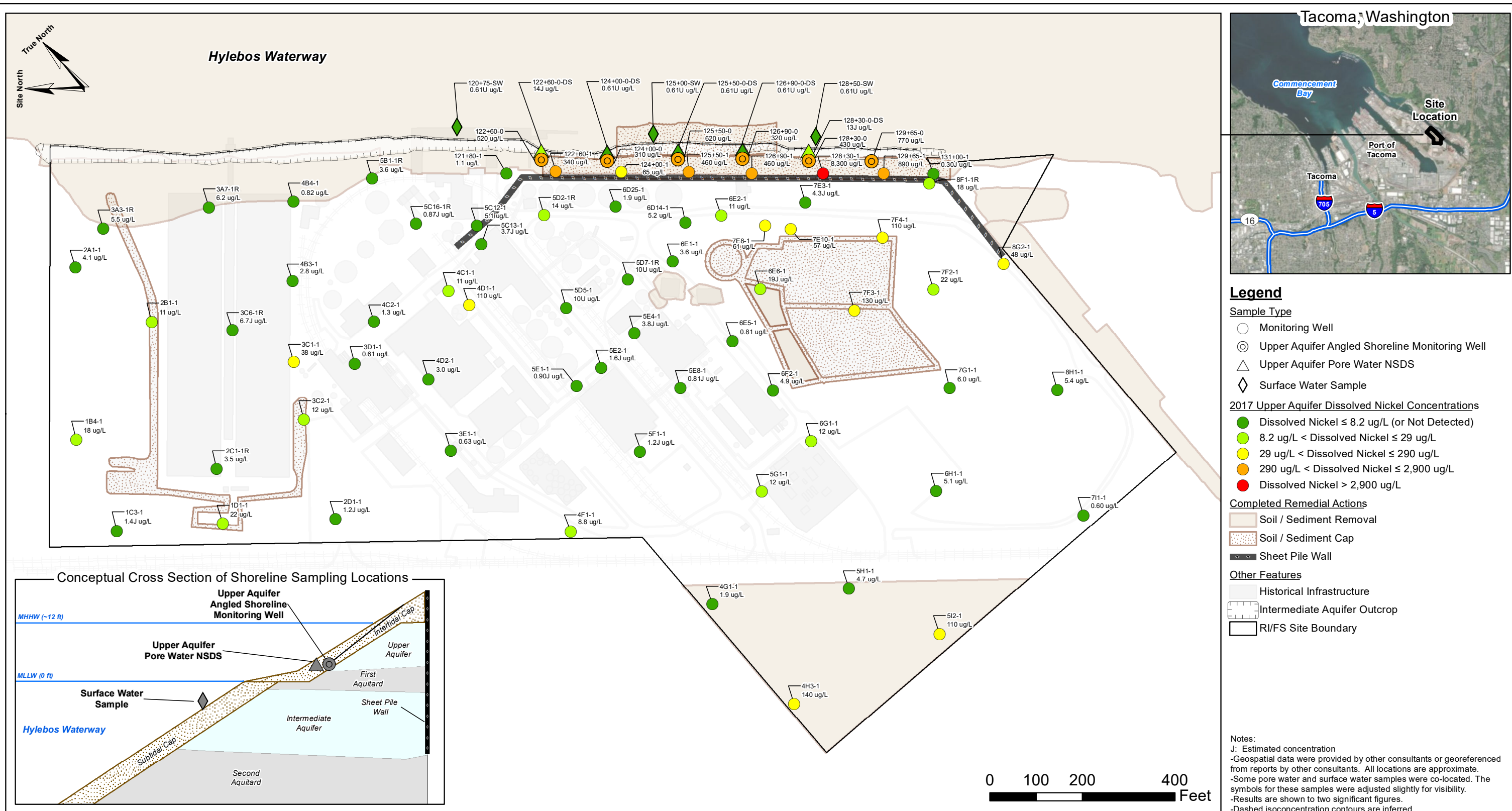
2017 Dissolved Mercury Concentrations in the Upper Aquifer
 FS Data Gap Investigation Report
 Former Arkema Manufacturing Site

Figure H-20



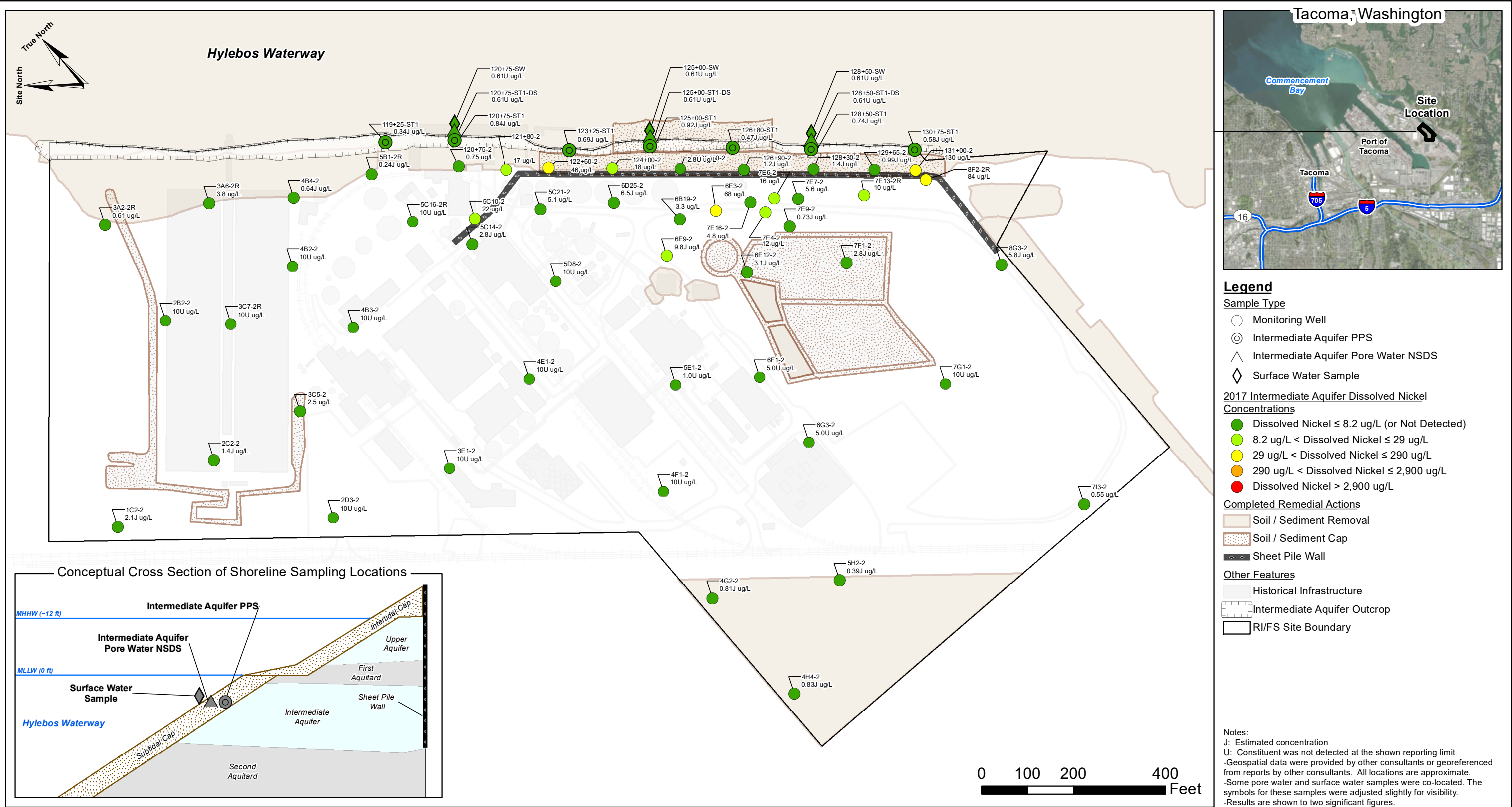
2017 Dissolved Mercury Concentrations in the Intermediate Aquifer
 FS Data Gap Investigation Report
 Former Arkema Manufacturing Site

Figure H-21



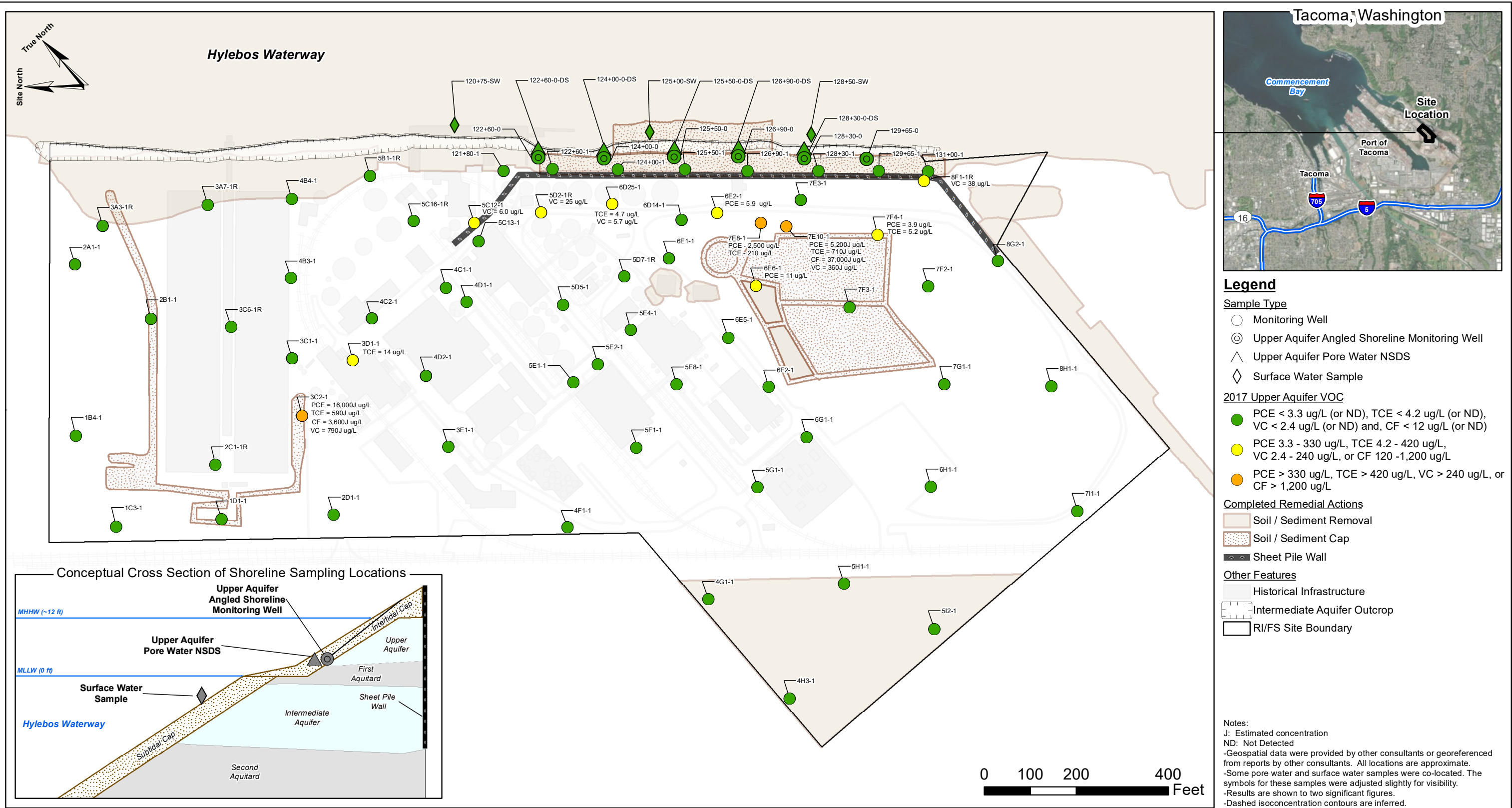
2017 Dissolved Nickel Concentrations in the Upper Aquifer
 FS Data Gap Investigation Report
 Former Arkema Manufacturing Site

Figure H-22



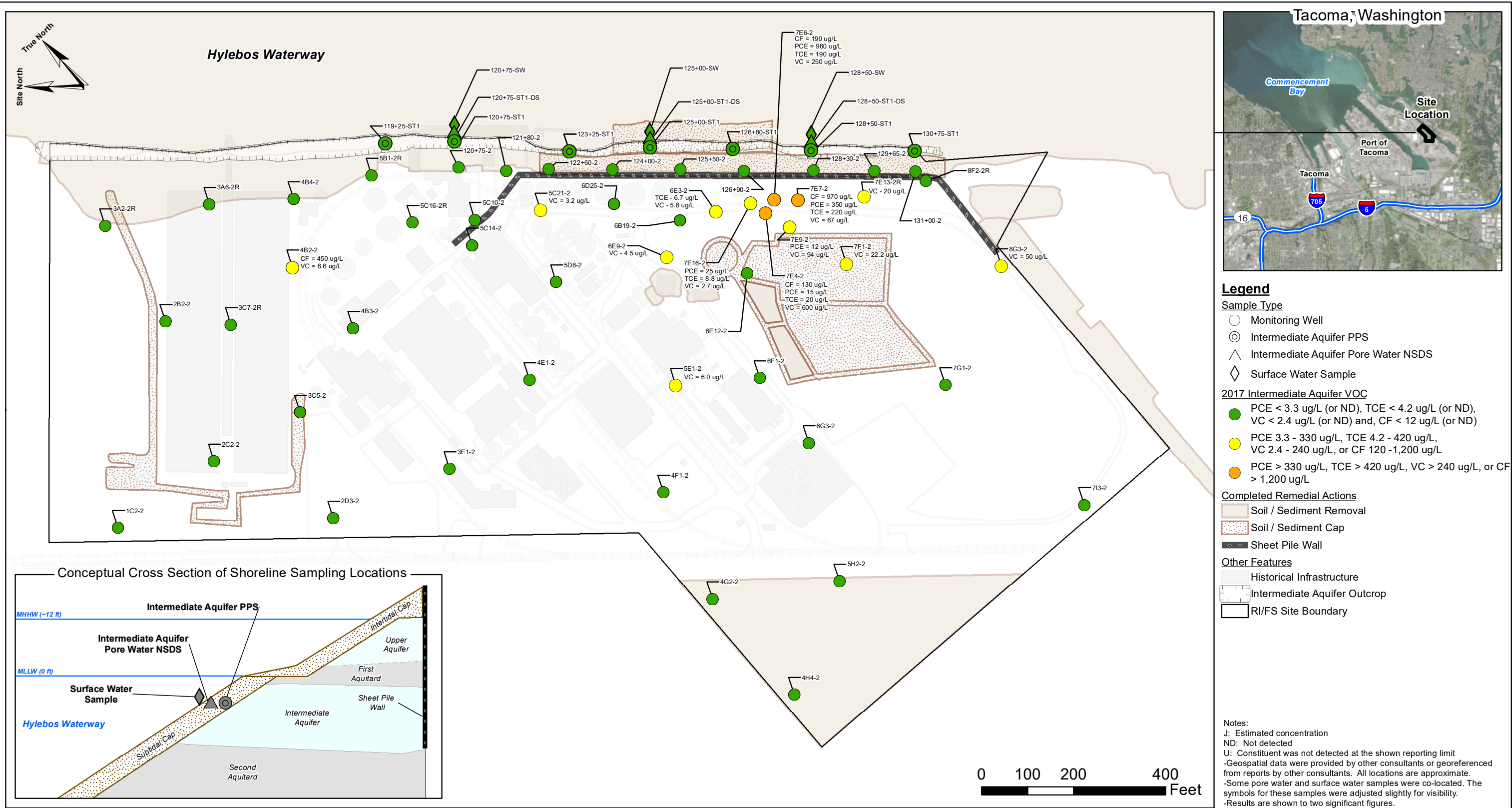
2017 Dissolved Nickel Concentrations in the Intermediate Aquifer
 FS Data Gap Investigation Report
 Former Arkema Manufacturing Site

Figure H-23



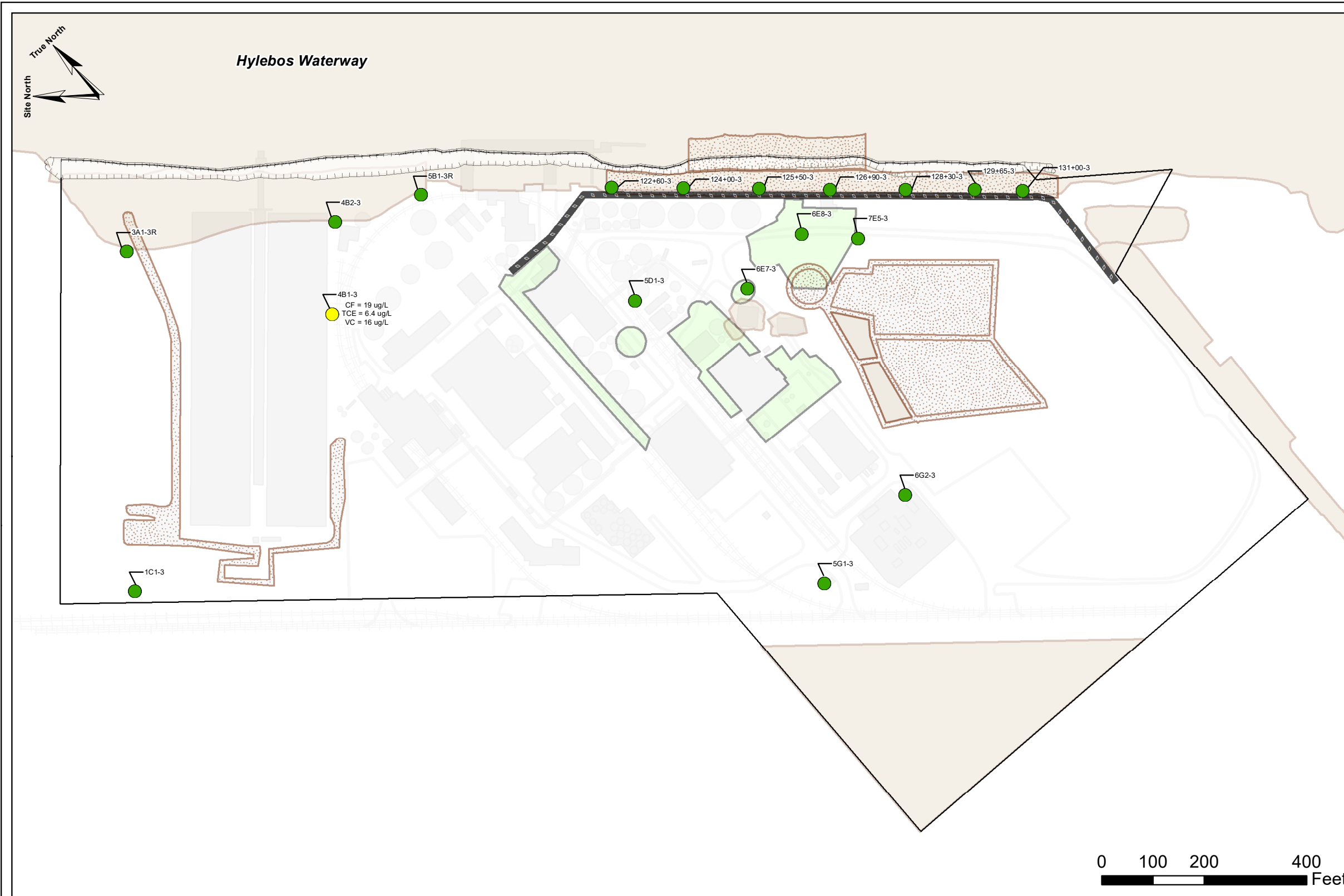
2017 VOC Exceedances in the Upper Aquifer
 FS Data Gap Investigation Report
 Former Arkema Manufacturing Site

Figure H-24



2017 VOC Exceedances in the Intermediate Aquifer
 FS Data Gap Investigation Report
 Former Arkema Manufacturing Site

Figure H-25



Legend

Sample Type

- Monitoring Well

2017 Deep Aquifer Non-Arsenic Exceedances

- Copper ≤ 2.4 ug/L (or ND), Lead ≤ 8.1 ug/L (or ND), Mercury ≤ 0.025 ug/L (or ND), Nickel ≤ 8.2 ug/L (or ND), PCE ≤ 3.3 ug/L (or ND), TCE ≤ 4.2 ug/L (or ND), VC ≤ 2.4 ug/L (or ND), and CF ≤ 12 ug/L (or ND)
- Copper 2.4 - 810 ug/L, Lead 8.1 - 81 ug/L, Mercury 0.025 - 0.7 ug/L, Nickel 8.2 - 290 ug/L, PCE 3.3 - 330 ug/L, TCE 4.2 - 420 ug/L, VC 2.4 - 240 ug/L, or CF 12 - 1,200 ug/L
- Copper > 810 ug/L, Lead > 81 ug/L, Mercury > 0.7 ug/L, Nickel > 290 ug/L, PCE > 330 ug/L, TCE > 420 ug/L, VC > 240 ug/L, or CF > 1,200 ug/L

Completed Remedial Actions

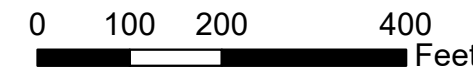
- Soil / Sediment Removal
- Soil / Sediment Cap
- Sheet Pile Wall

Other Features

- Historical Infrastructure
- Intermediate Aquifer Outcrop
- RI/FS Site Boundary

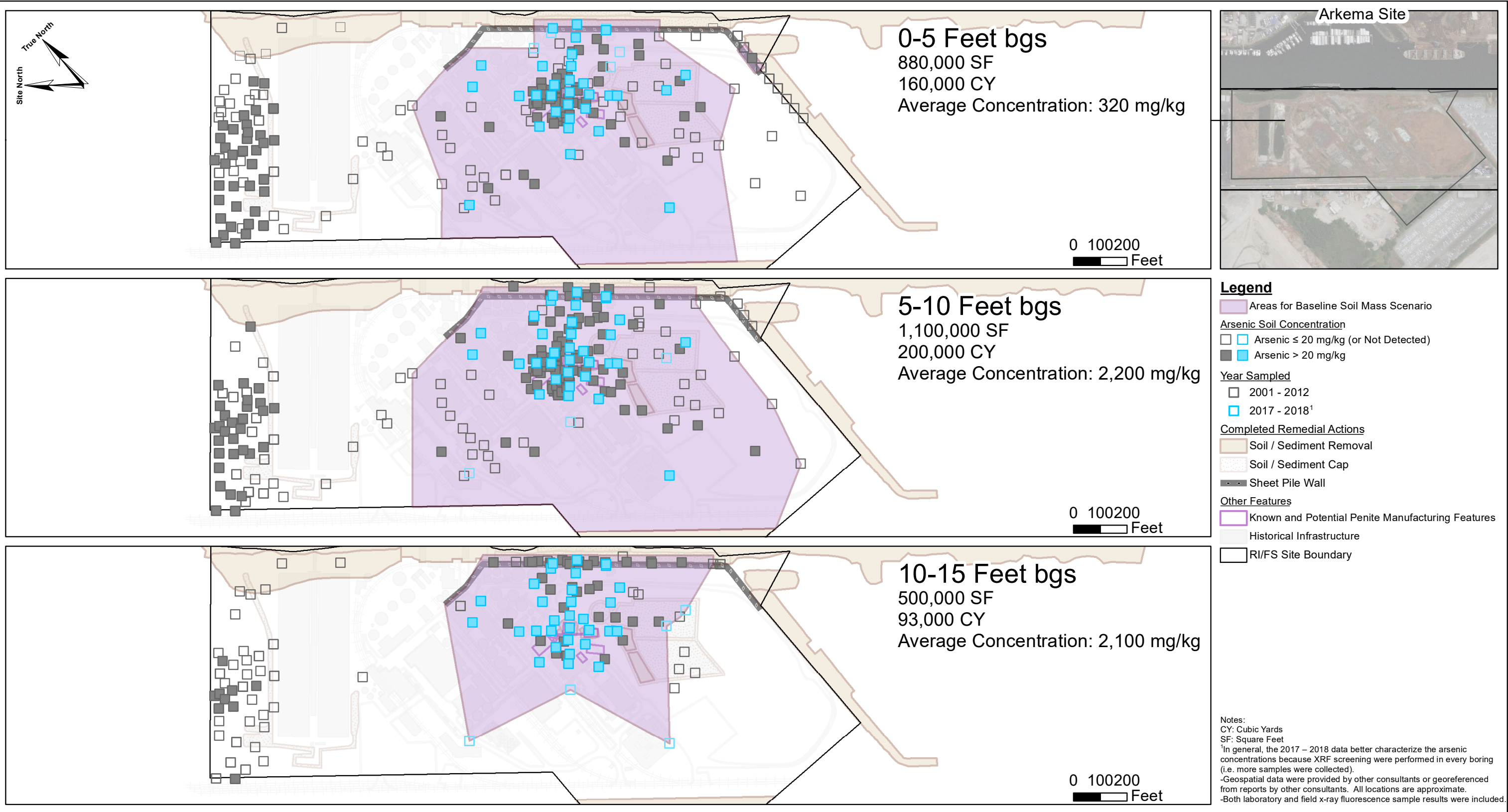
Notes:

- J: Estimated concentration
- ND: Not Detected
- Geospatial data were provided by other consultants or georeferenced from reports by other consultants. All locations are approximate.
- Some pore water and surface water samples were co-located. The symbols for these samples were adjusted slightly for visibility.
- Results are shown to two significant figures.
- Dashed isoconcentration contours are inferred.



2017 Non-Arsenic Exceedances in the Deep Aquifer
 FS Data Gap Investigation Report
 Former Arkema Manufacturing Site

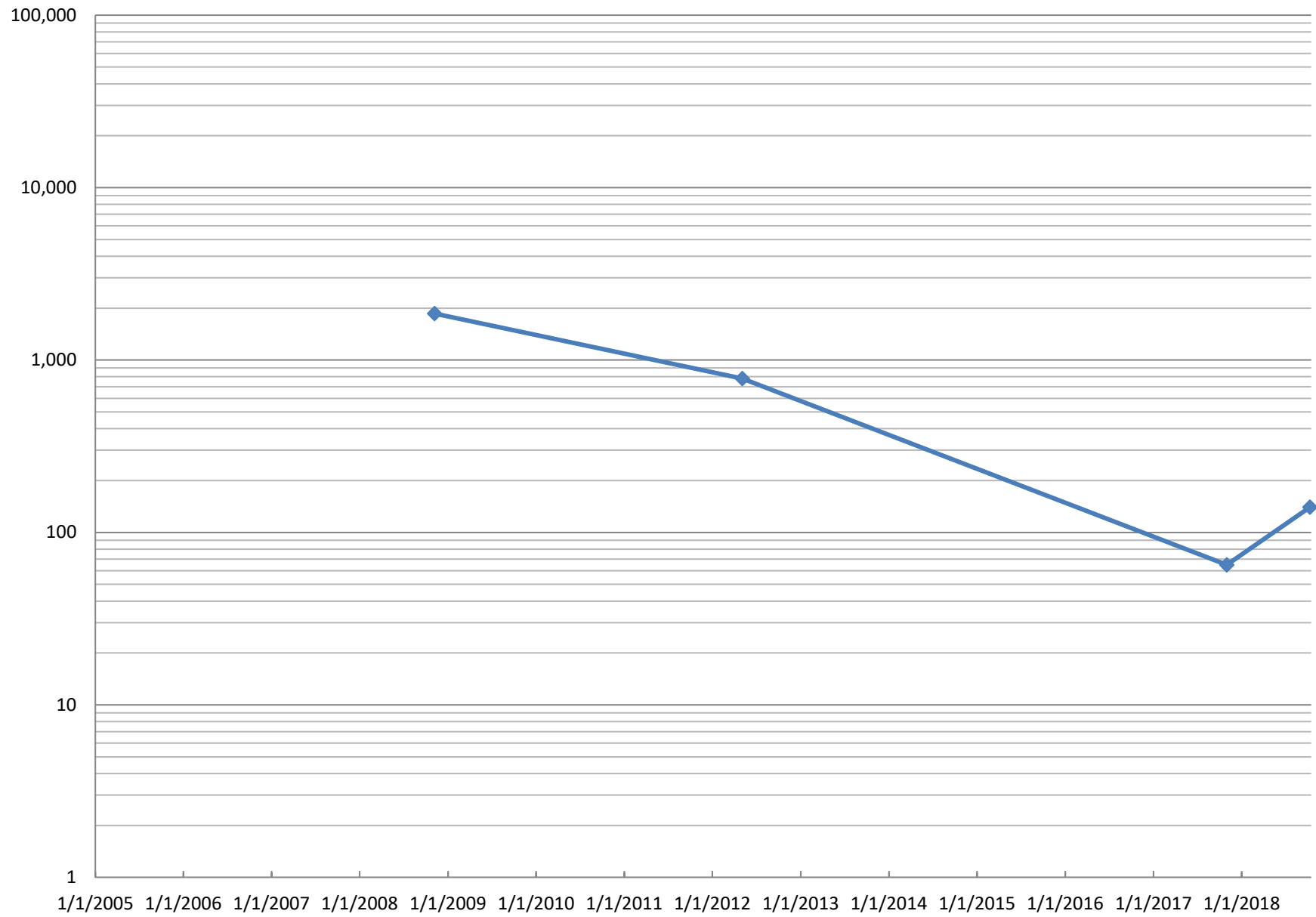
Figure H-26



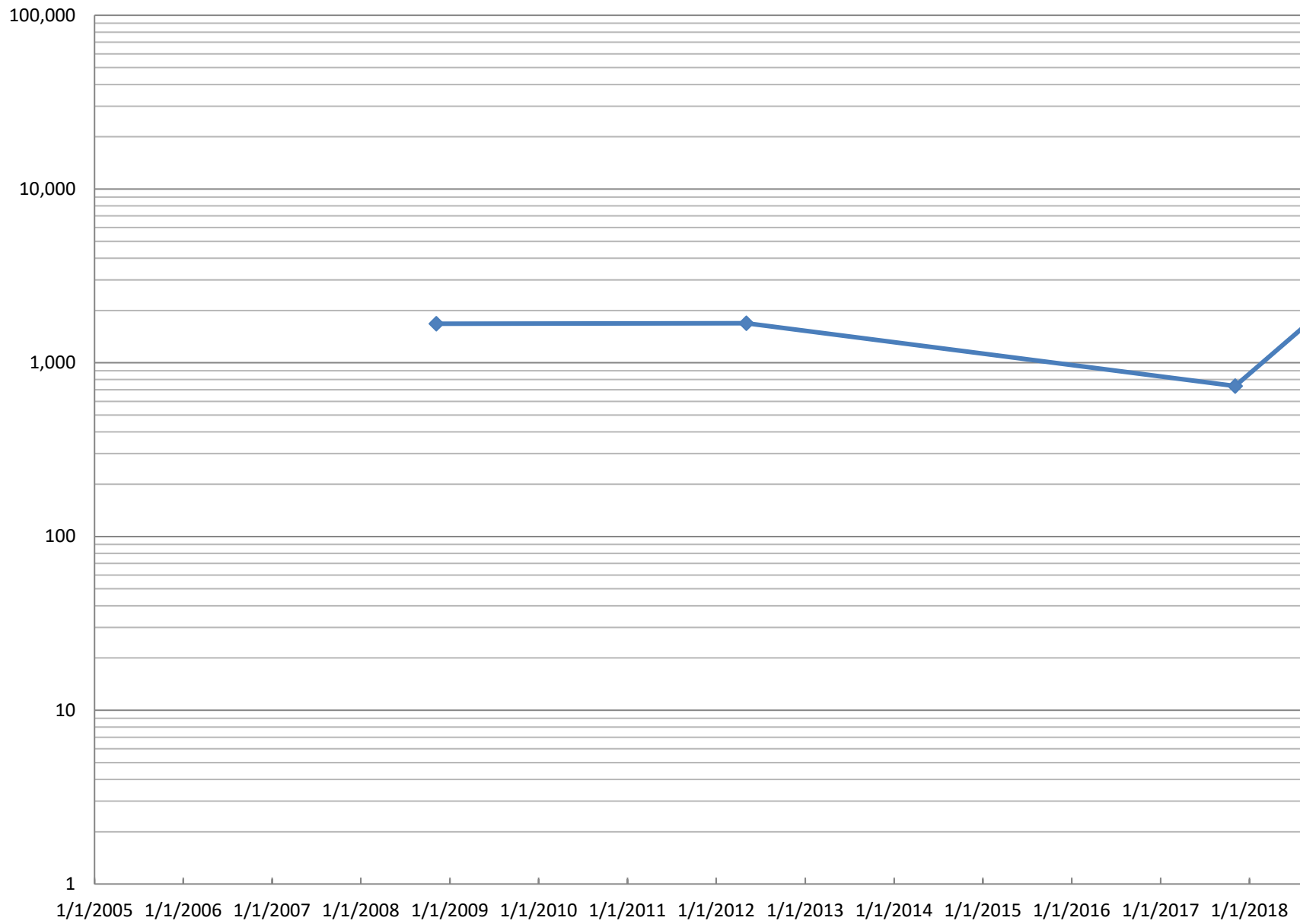
Appendix I

Backup for Figure 6-1A

Dissolved Arsenic Concentrations (ug/L) in 120+75-2



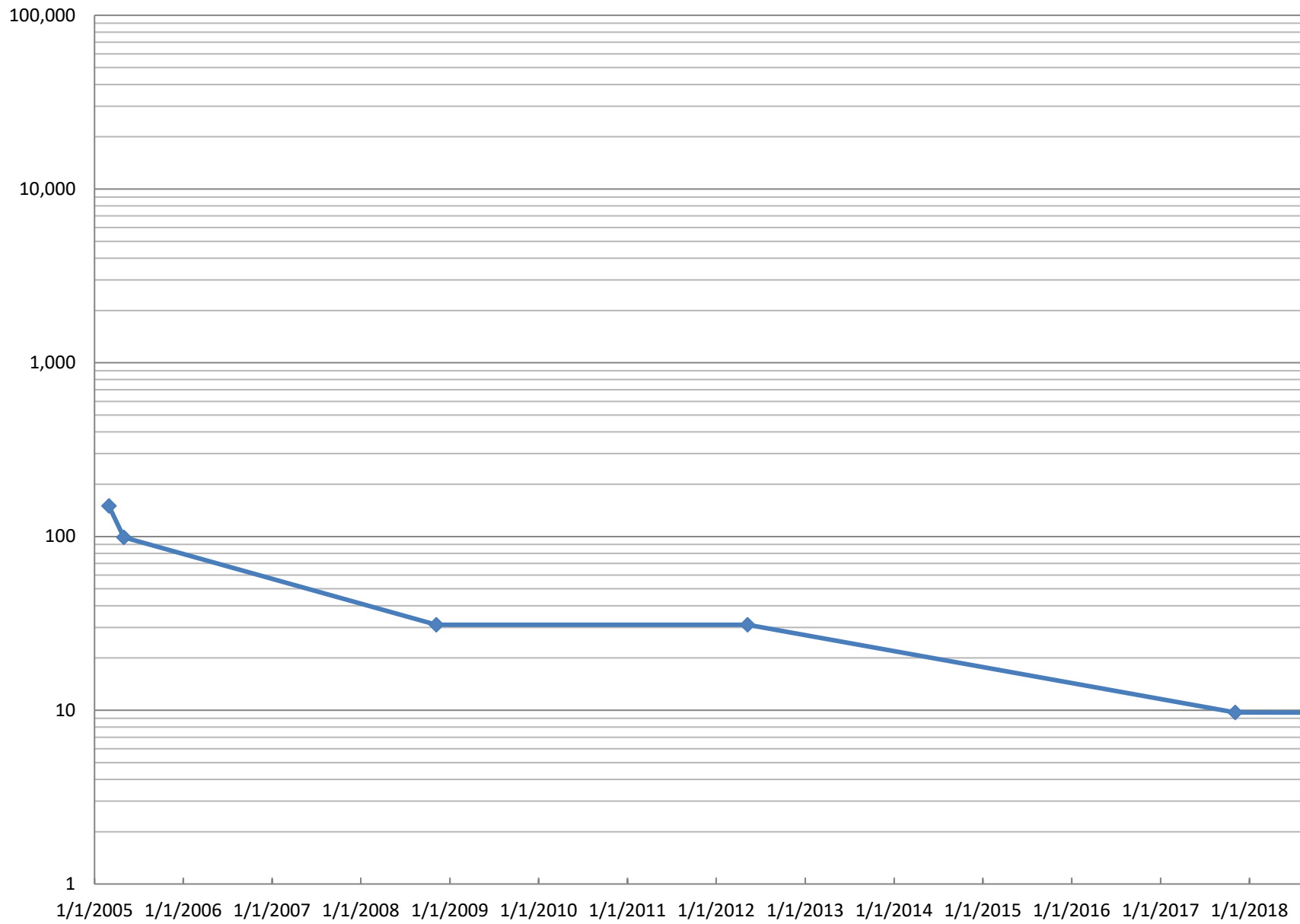
Dissolved Arsenic Concentrations (ug/L) in 121+80-1



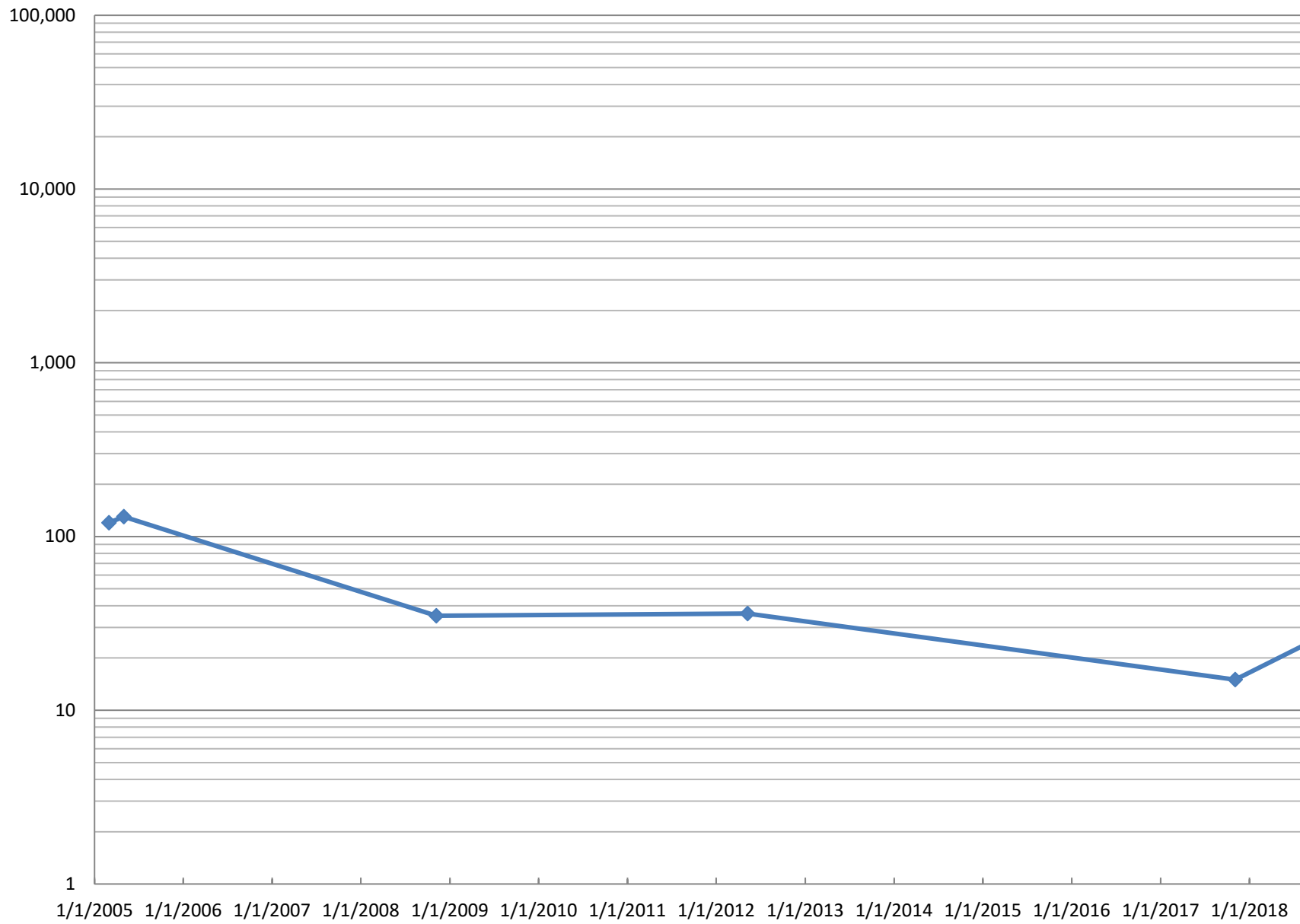
Dissolved Arsenic Concentrations (ug/L) in 121+80-2



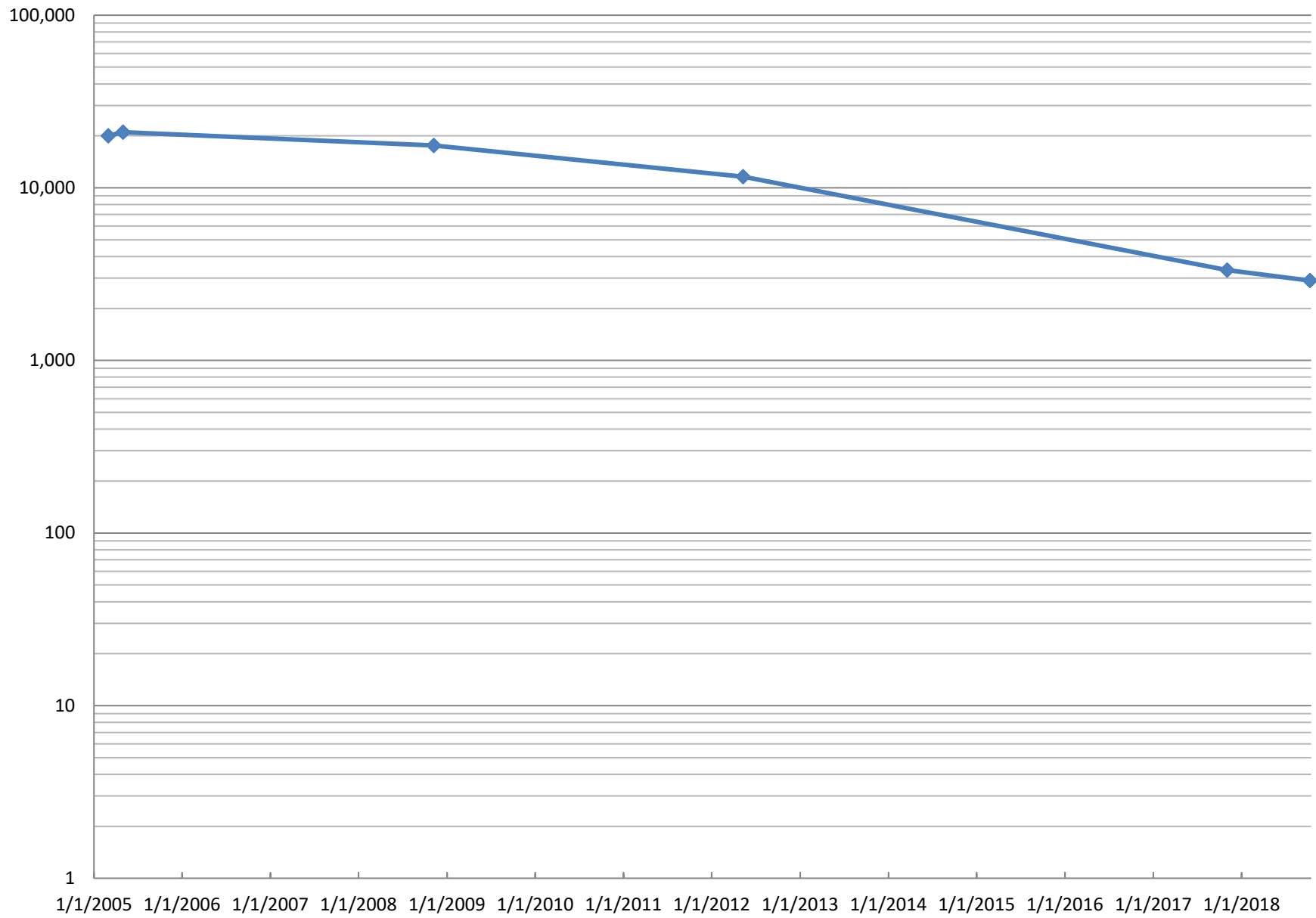
Dissolved Arsenic Concentrations (ug/L) in 122+60-0



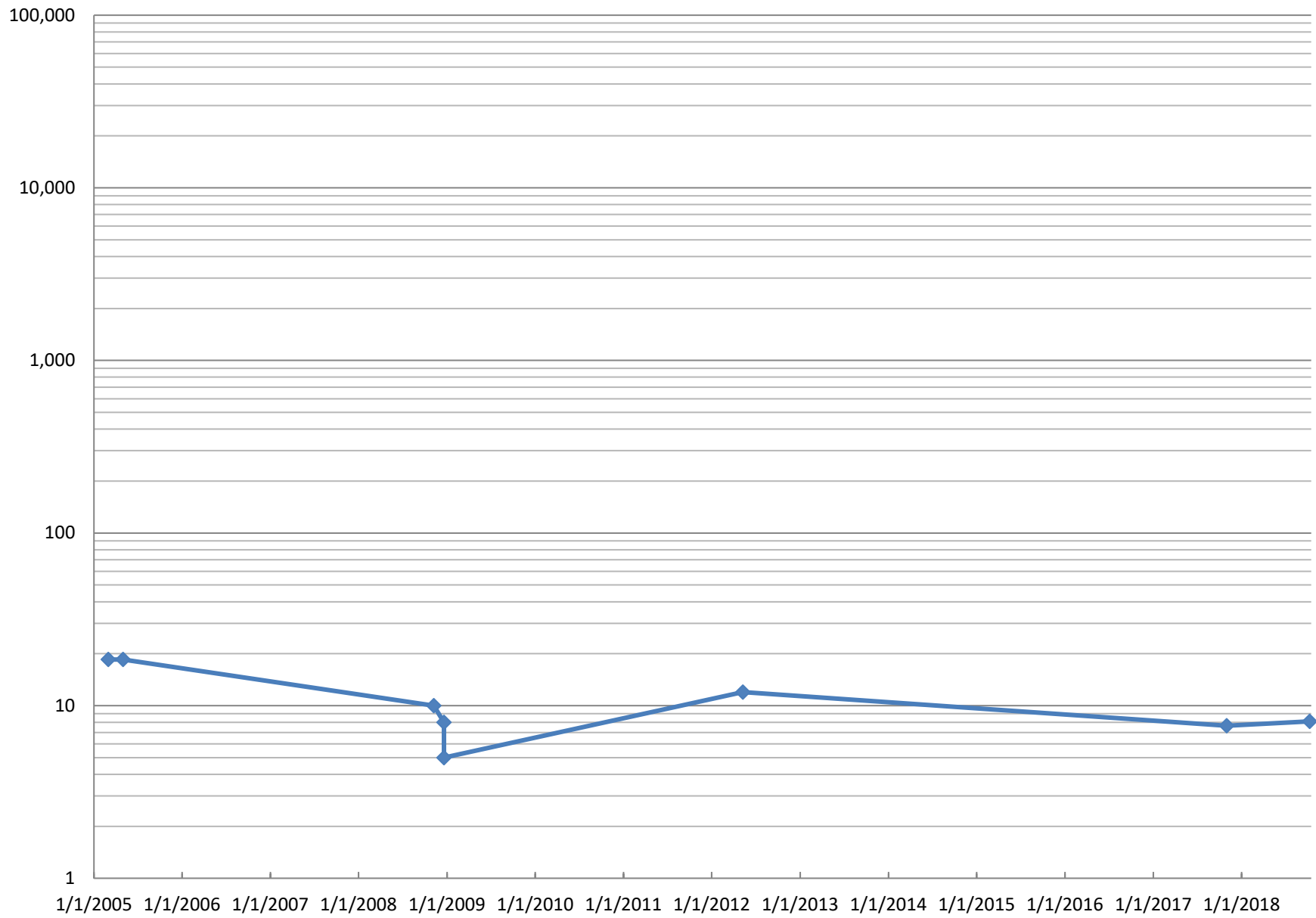
Dissolved Arsenic Concentrations (ug/L) in 122+60-1



Dissolved Arsenic Concentrations (ug/L) in 122+60-2



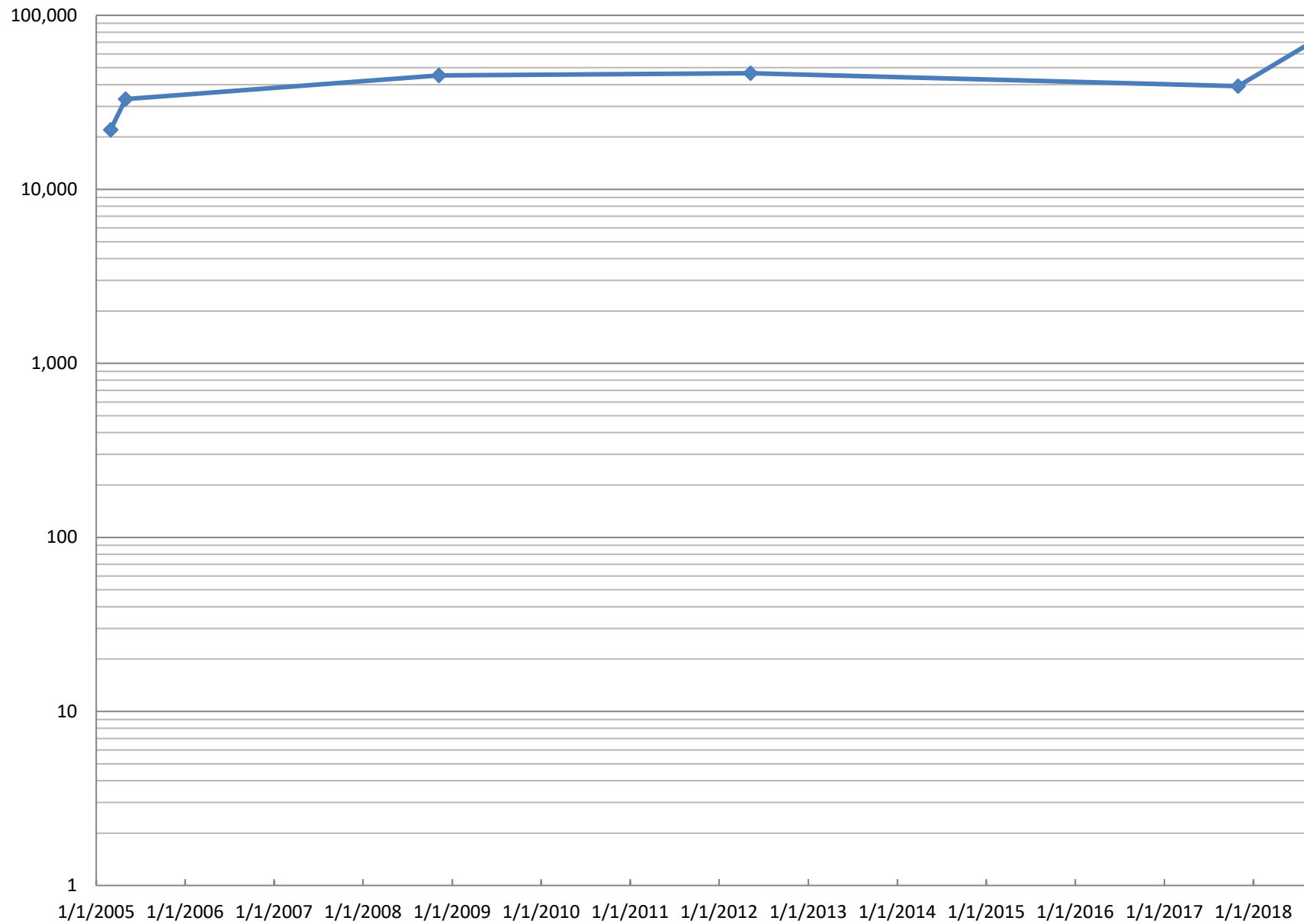
Dissolved Arsenic Concentrations (ug/L) in 124+00-0



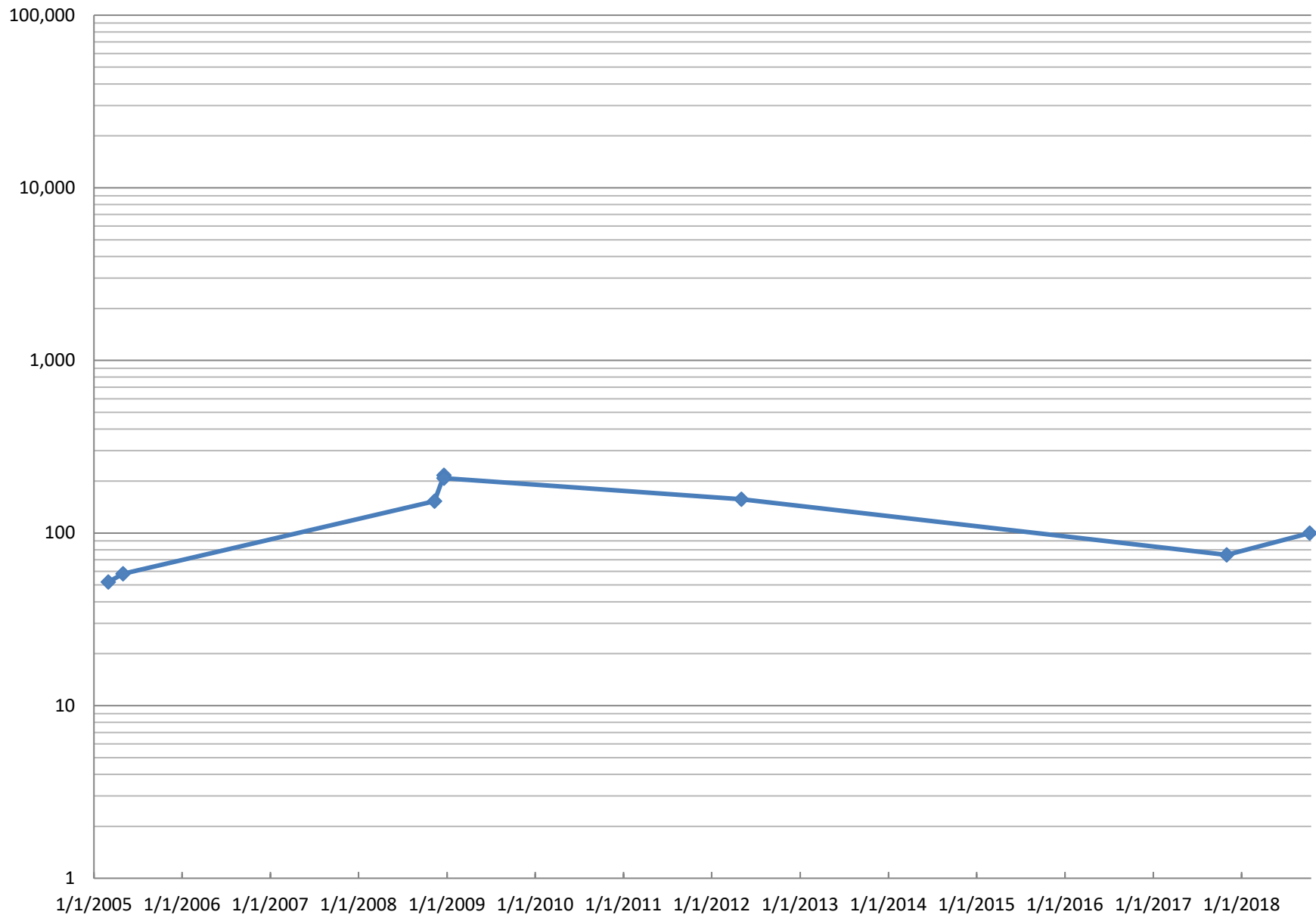
Dissolved Arsenic Concentrations (ug/L) in 124+00-1



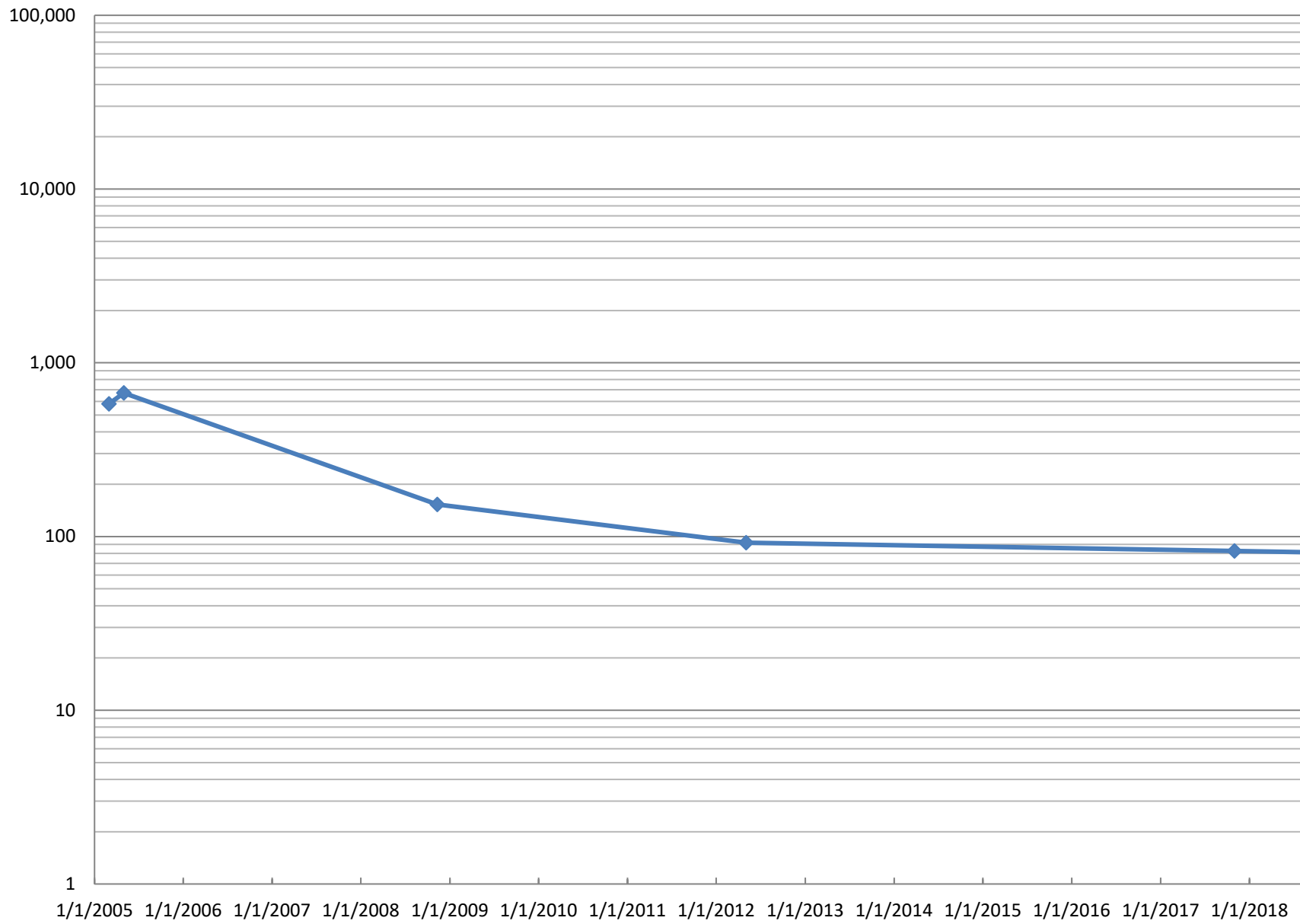
Dissolved Arsenic Concentrations (ug/L) in 124+00-2



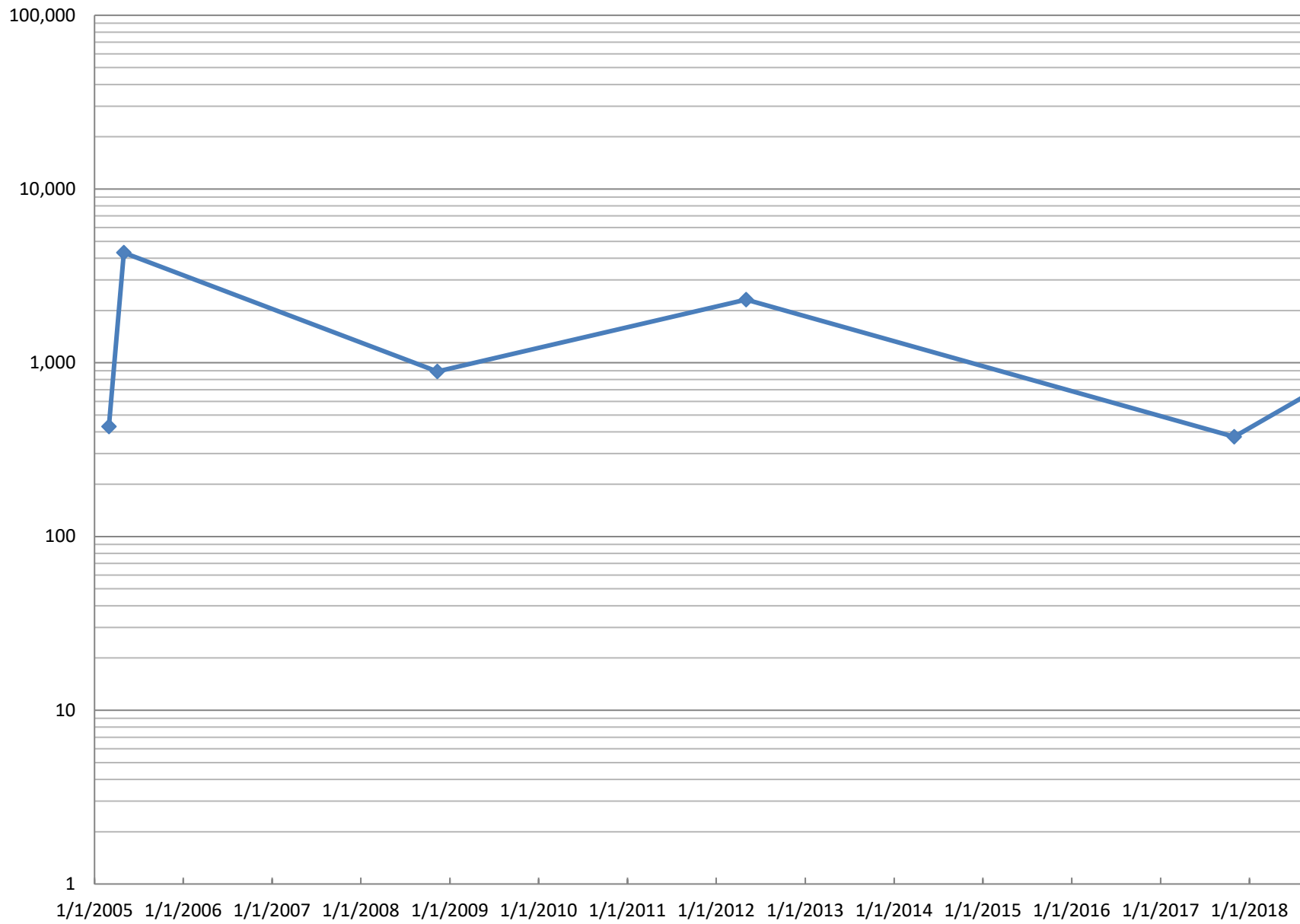
Dissolved Arsenic Concentrations (ug/L) in 125+50-0



Dissolved Arsenic Concentrations (ug/L) in 125+50-1

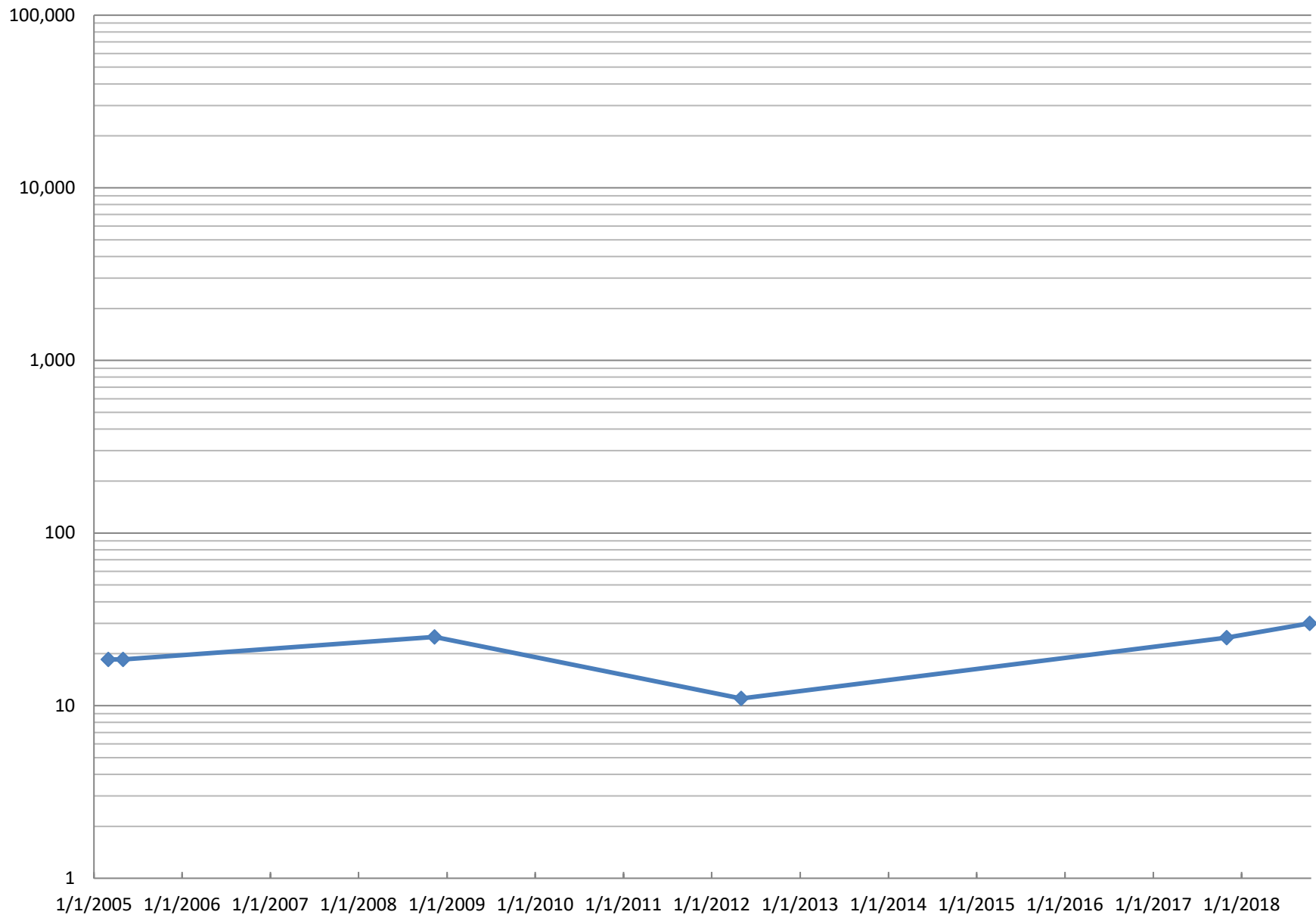


Dissolved Arsenic Concentrations (ug/L) in 125+50-2

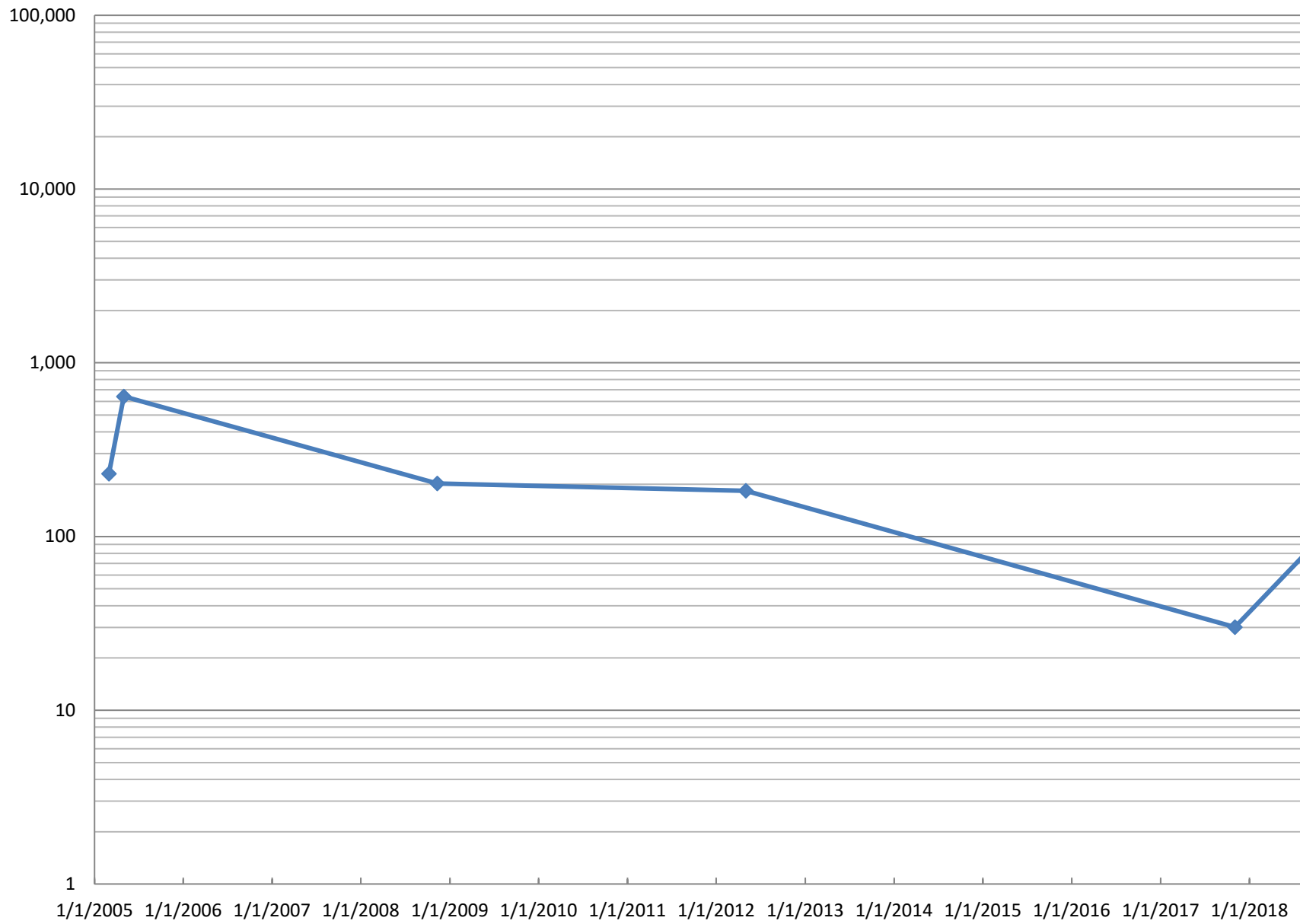


Backup for Figure 6-1B

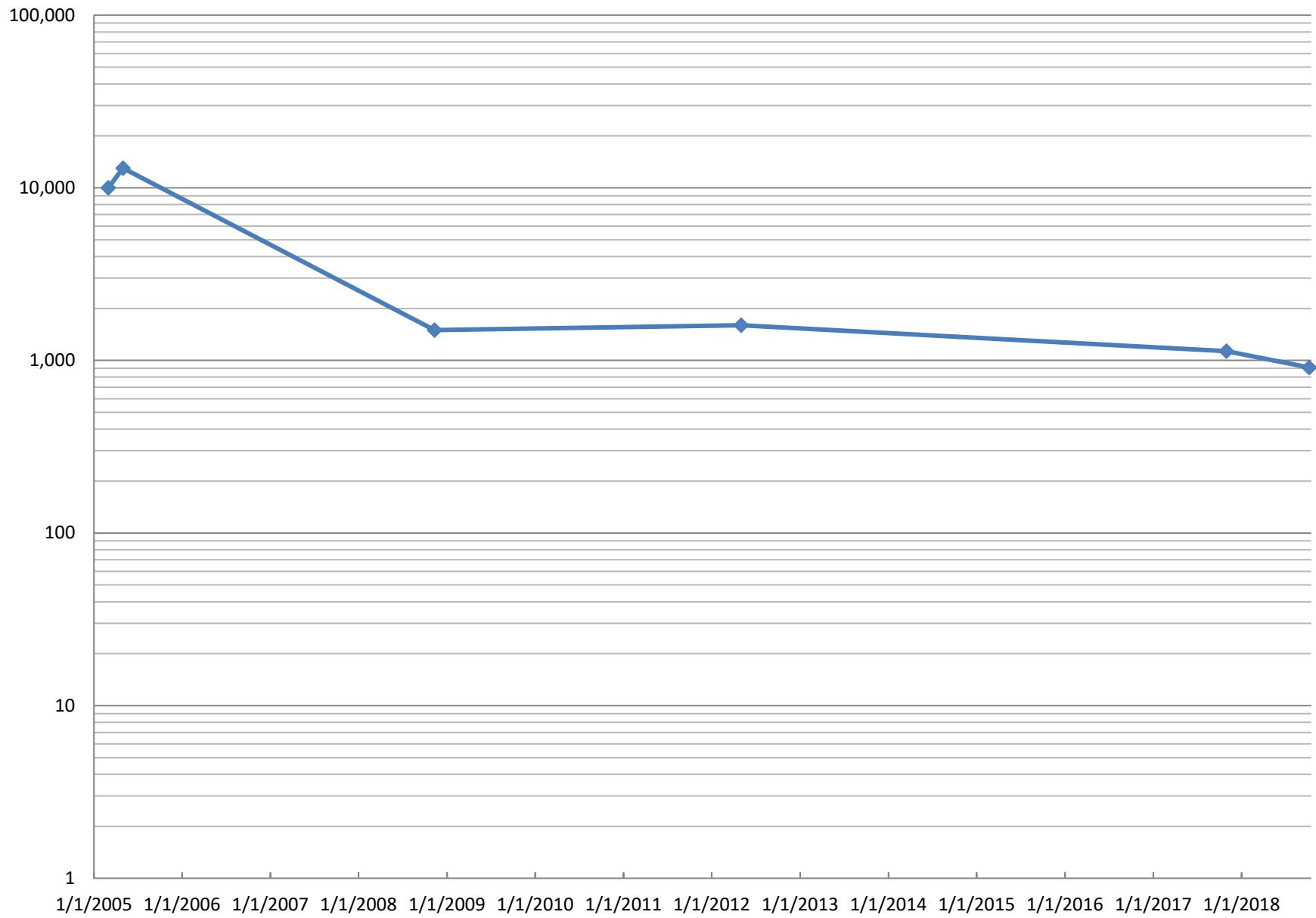
Dissolved Arsenic Concentrations (ug/L) in 126+90-0



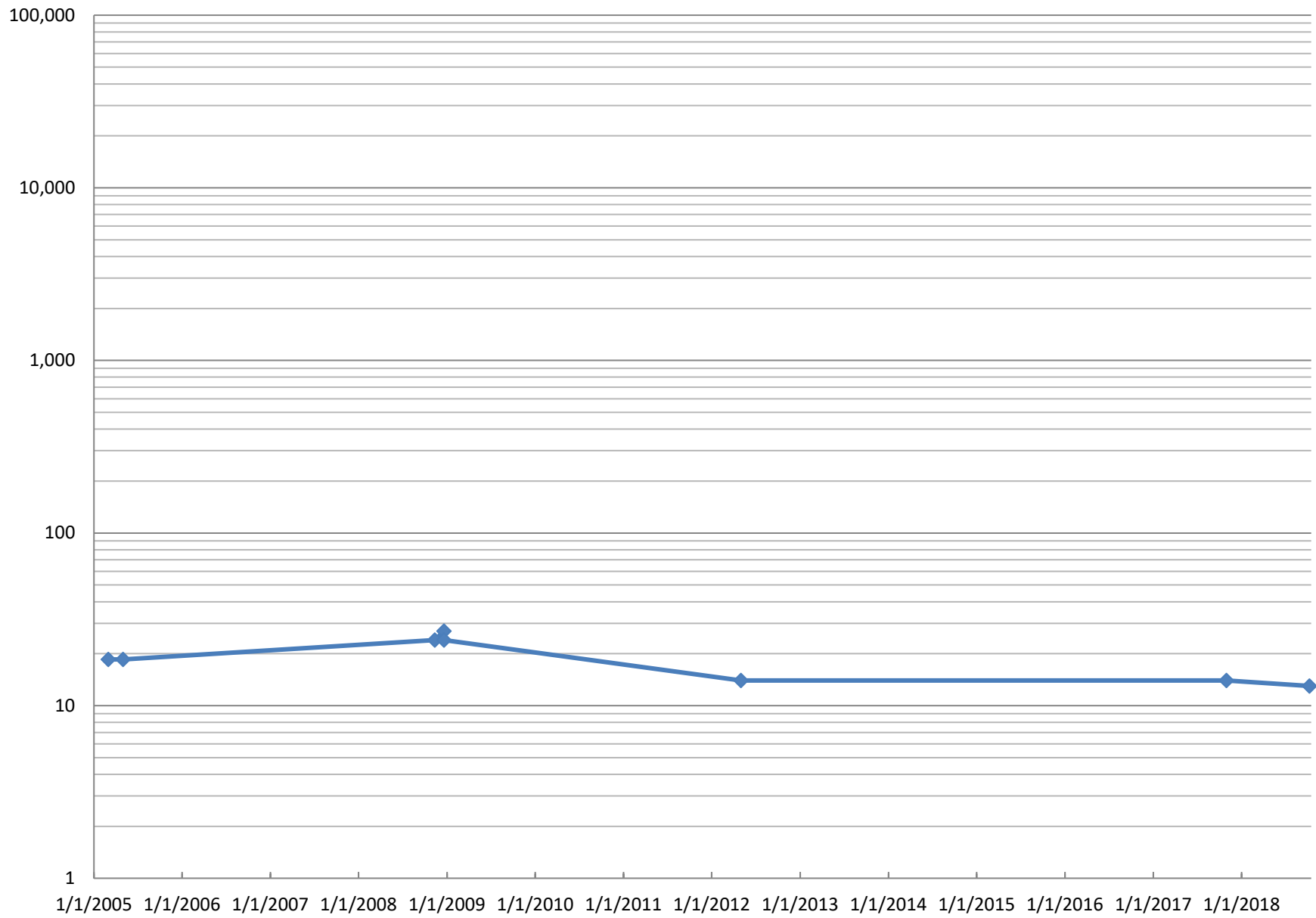
Dissolved Arsenic Concentrations (ug/L) in 126+90-1



Dissolved Arsenic Concentrations (ug/L) in 126+90-2



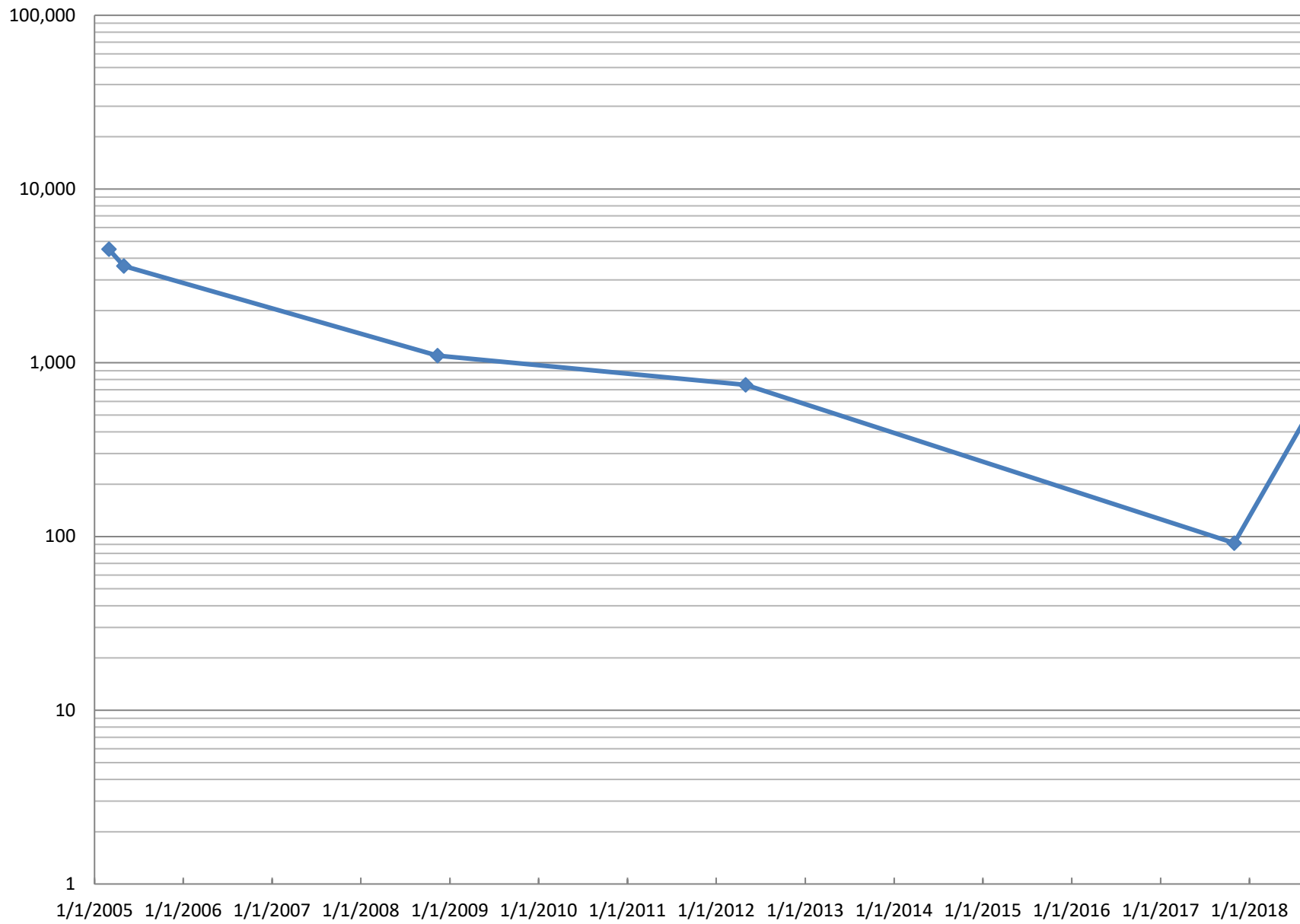
Dissolved Arsenic Concentrations (ug/L) in 128+30-0



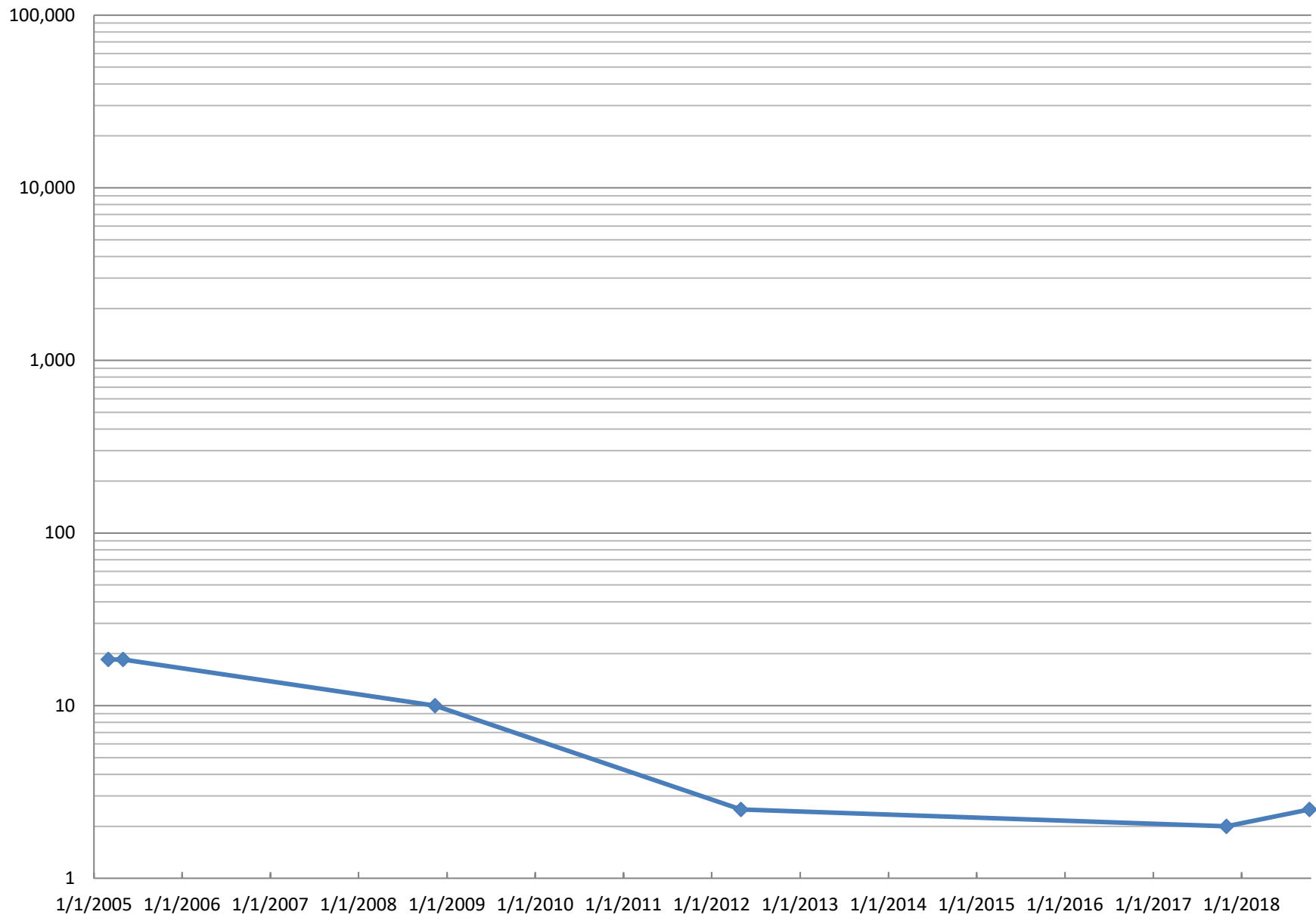
Dissolved Arsenic Concentrations (ug/L) in 128+30-1



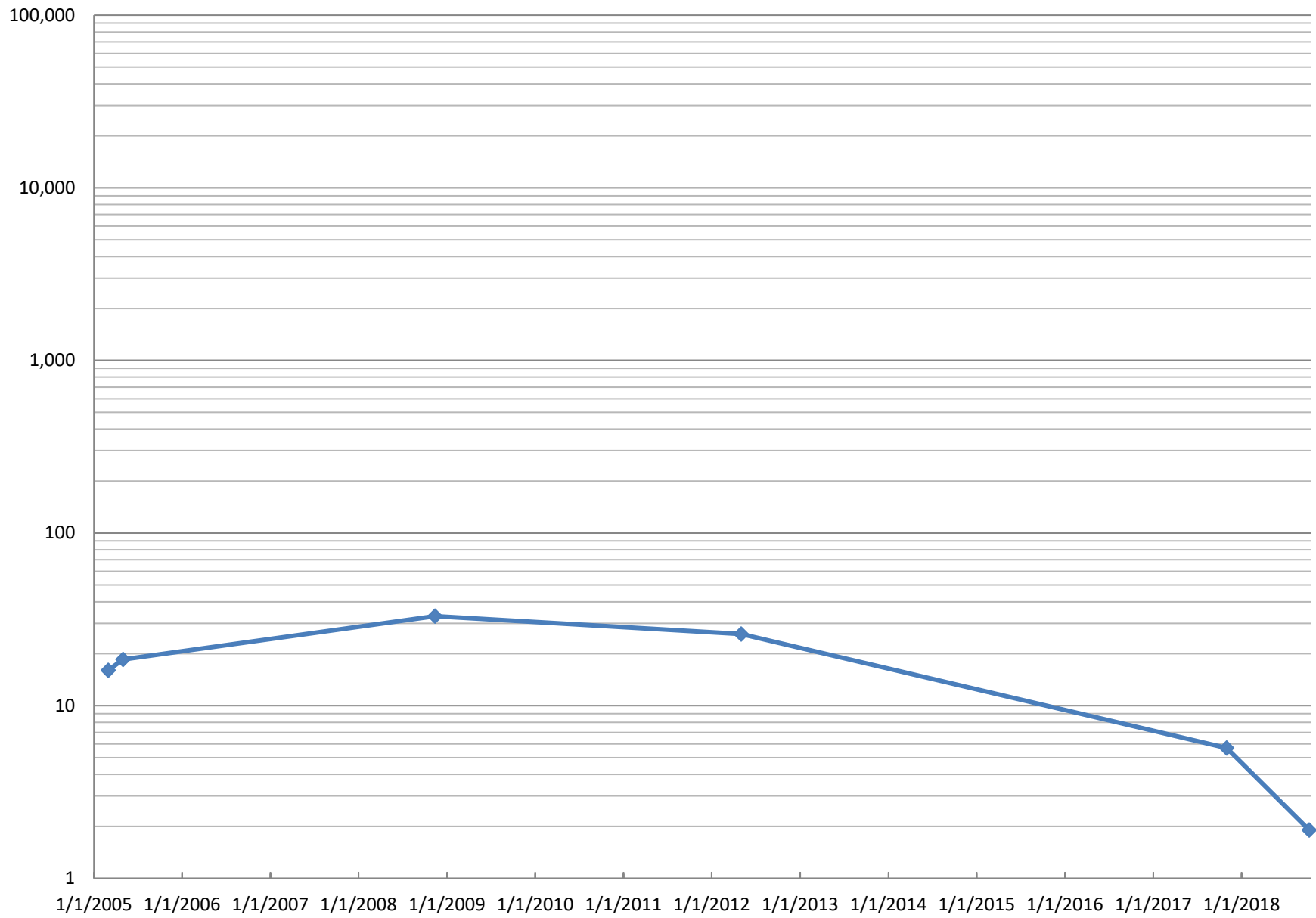
Dissolved Arsenic Concentrations (ug/L) in 128+30-2



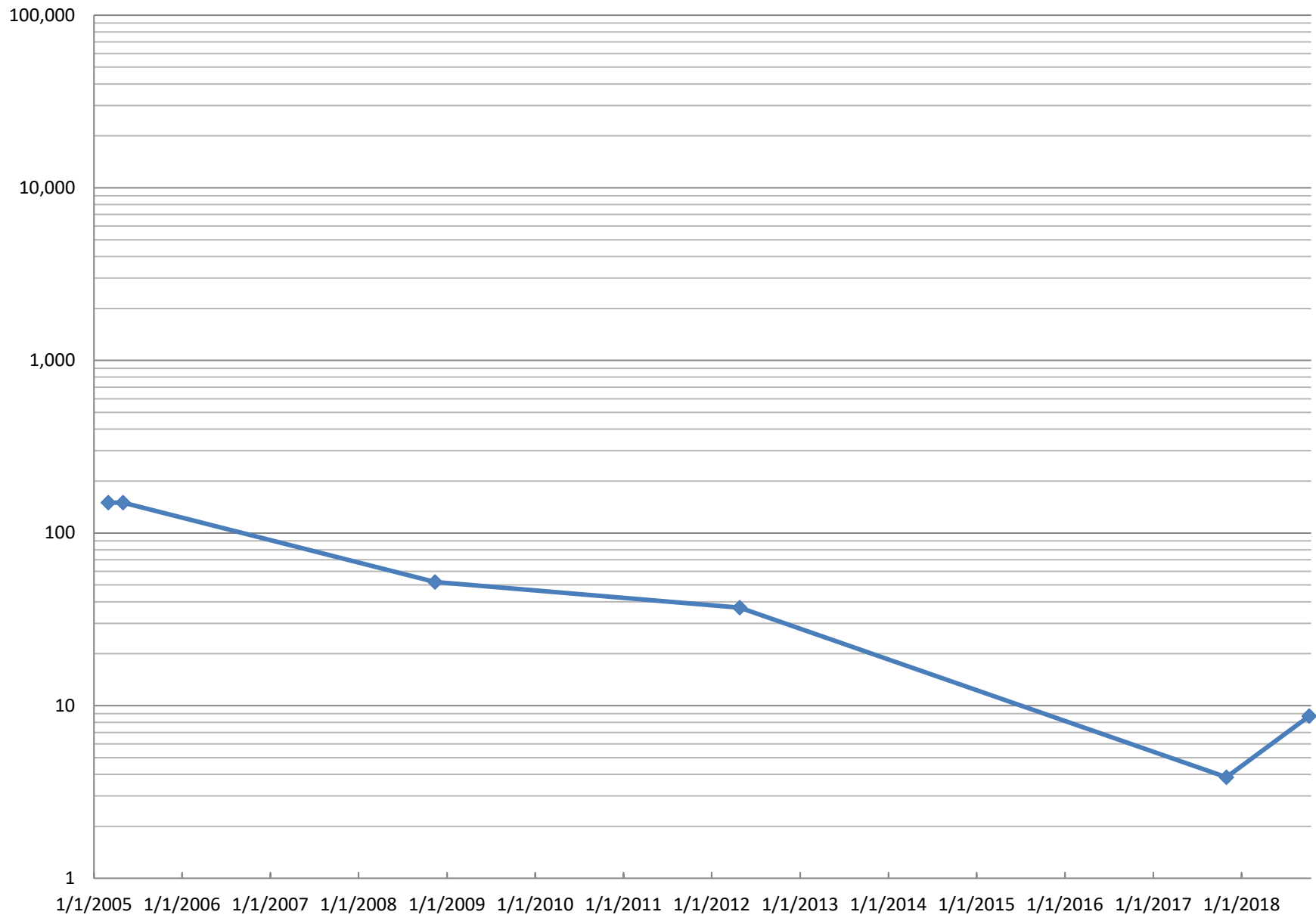
Dissolved Arsenic Concentrations (ug/L) in 129+65-0



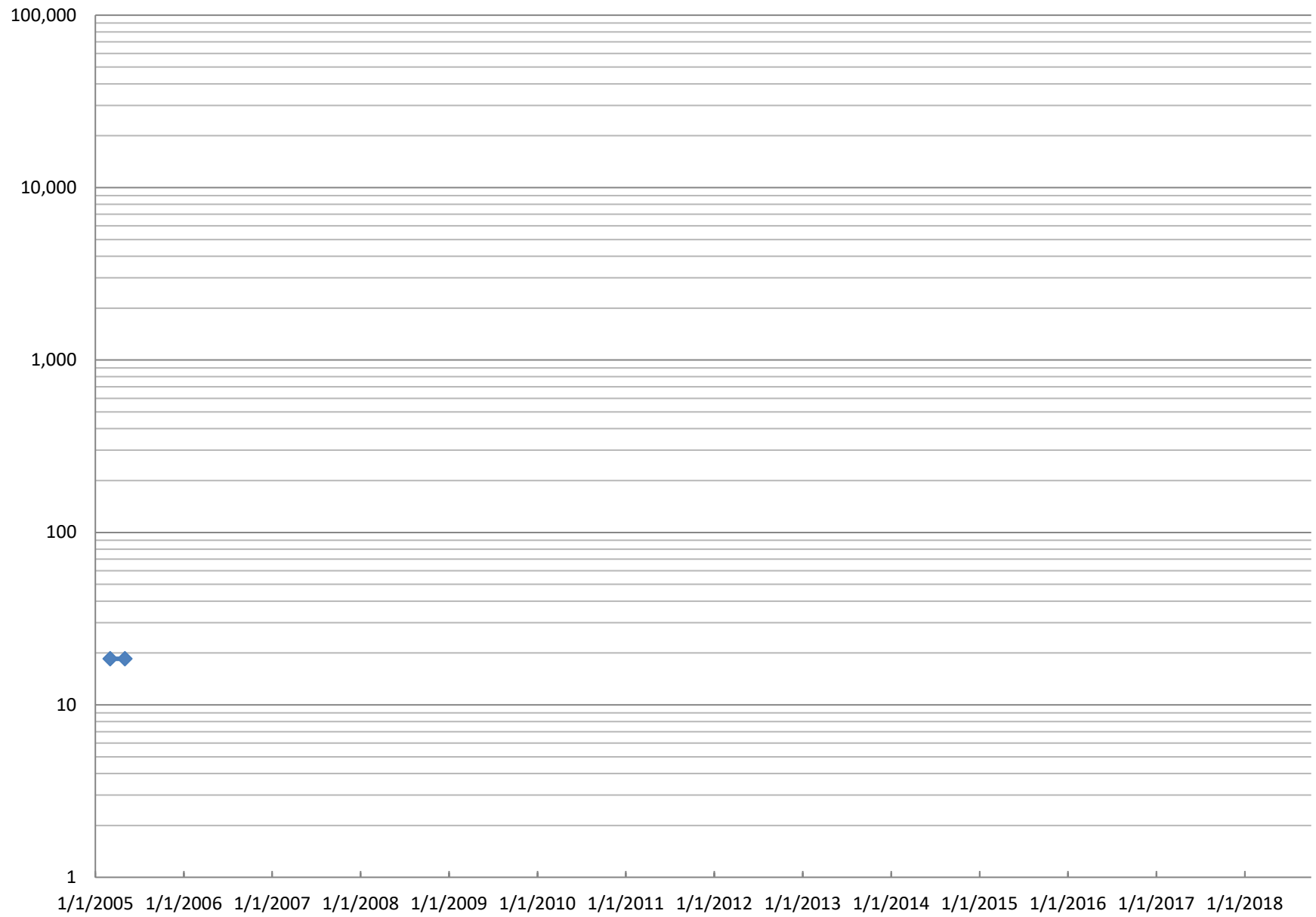
Dissolved Arsenic Concentrations (ug/L) in 129+65-1



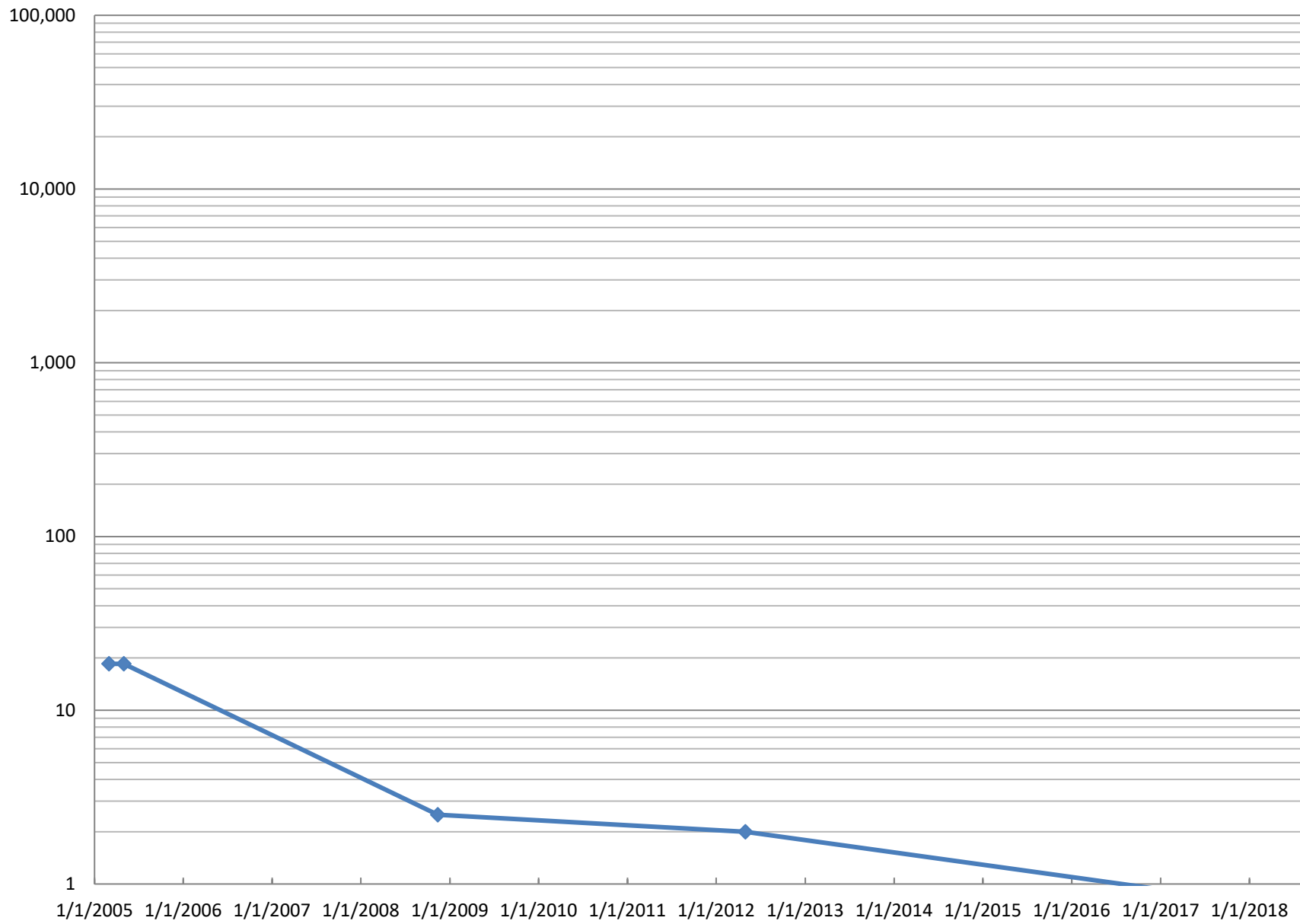
Dissolved Arsenic Concentrations (ug/L) in 129+65-2



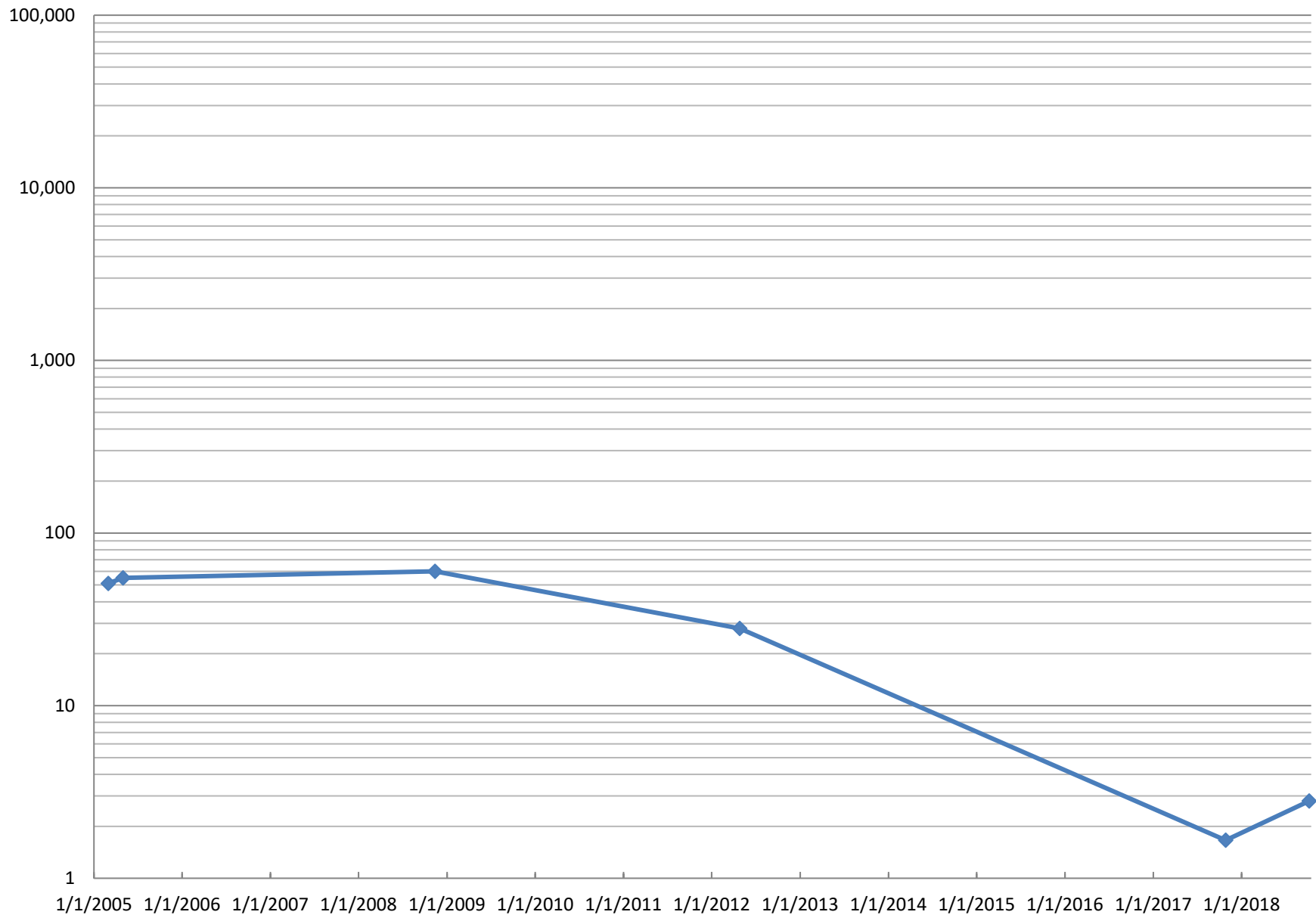
Dissolved Arsenic Concentrations (ug/L) in 131+00-0



Dissolved Arsenic Concentrations (ug/L) in 131+00-1

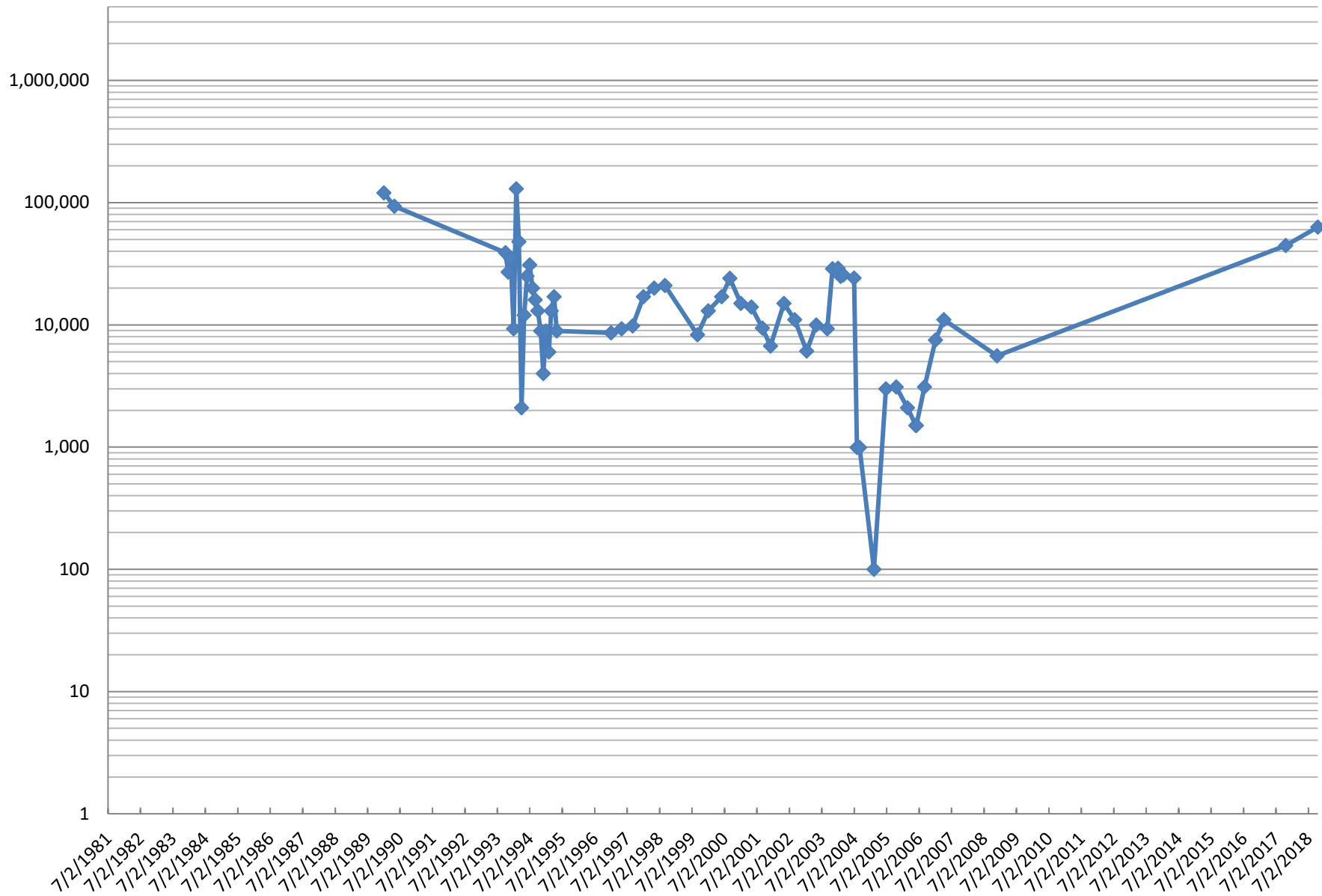


Dissolved Arsenic Concentrations (ug/L) in 131+00-2

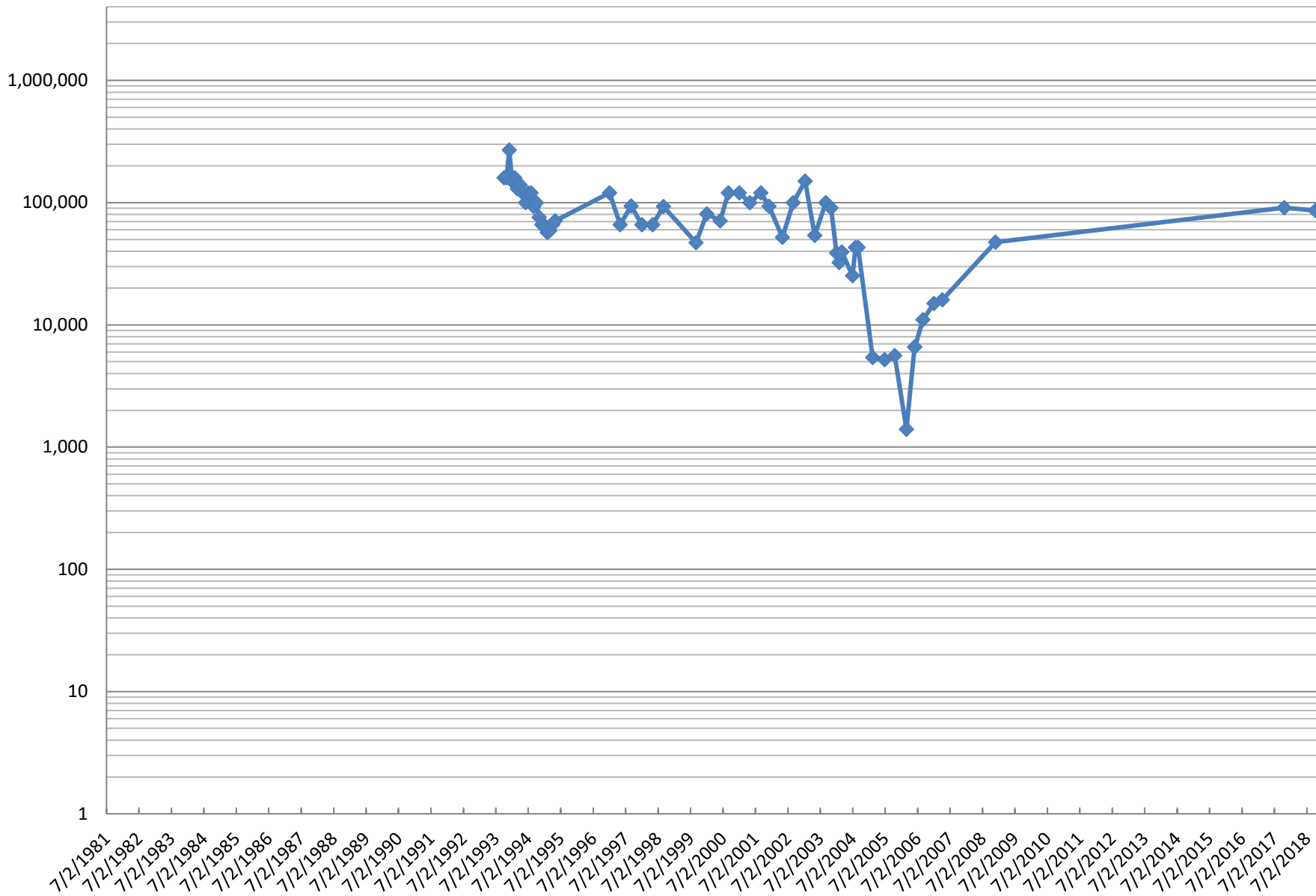


Backup for Figure 6-3

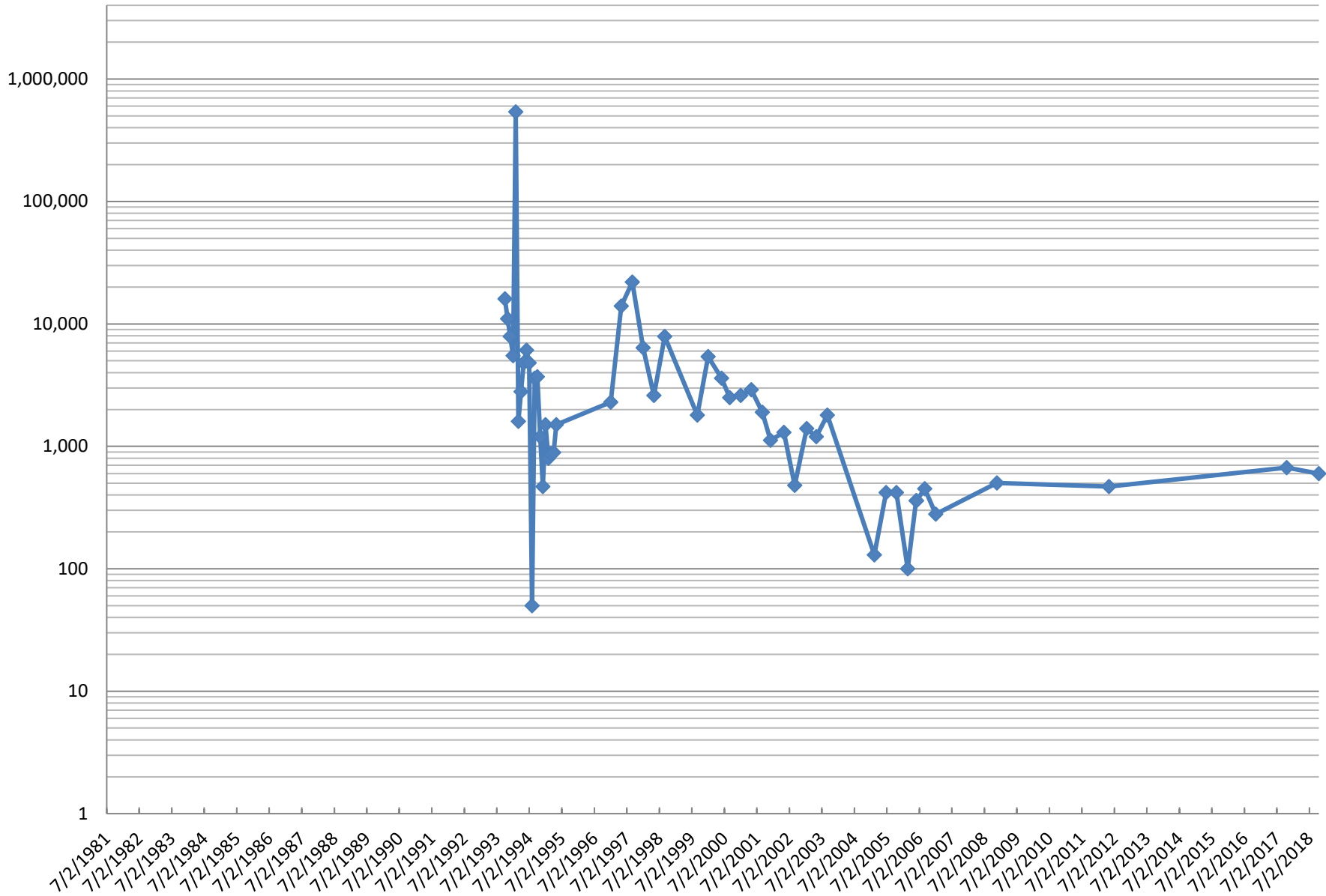
Dissolved Arsenic Concentrations (ug/L) in 5D5-1



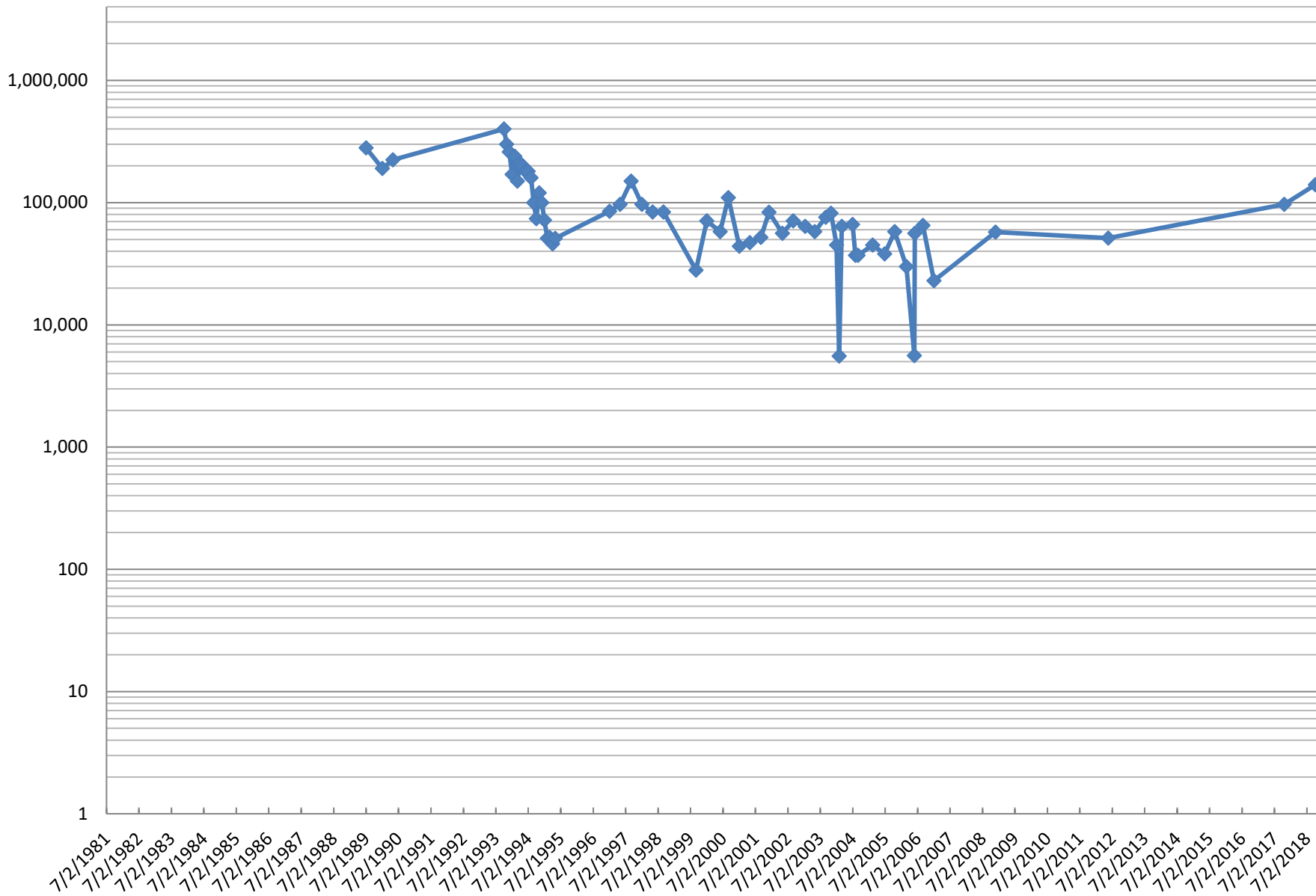
Dissolved Arsenic Concentrations (ug/L) in 5D7-1 & 5D7-1R



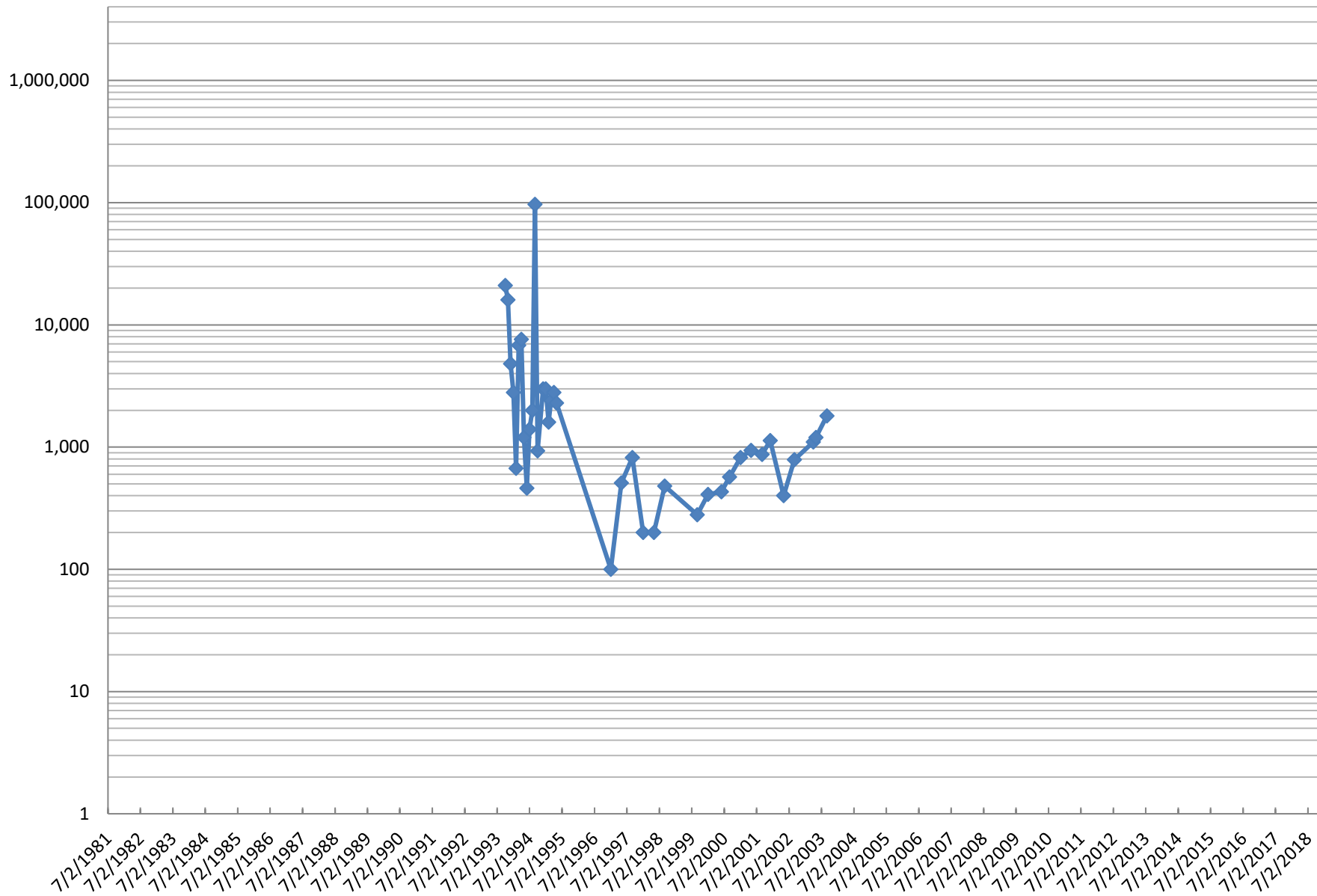
Dissolved Arsenic Concentrations (ug/L) in 5E1-1



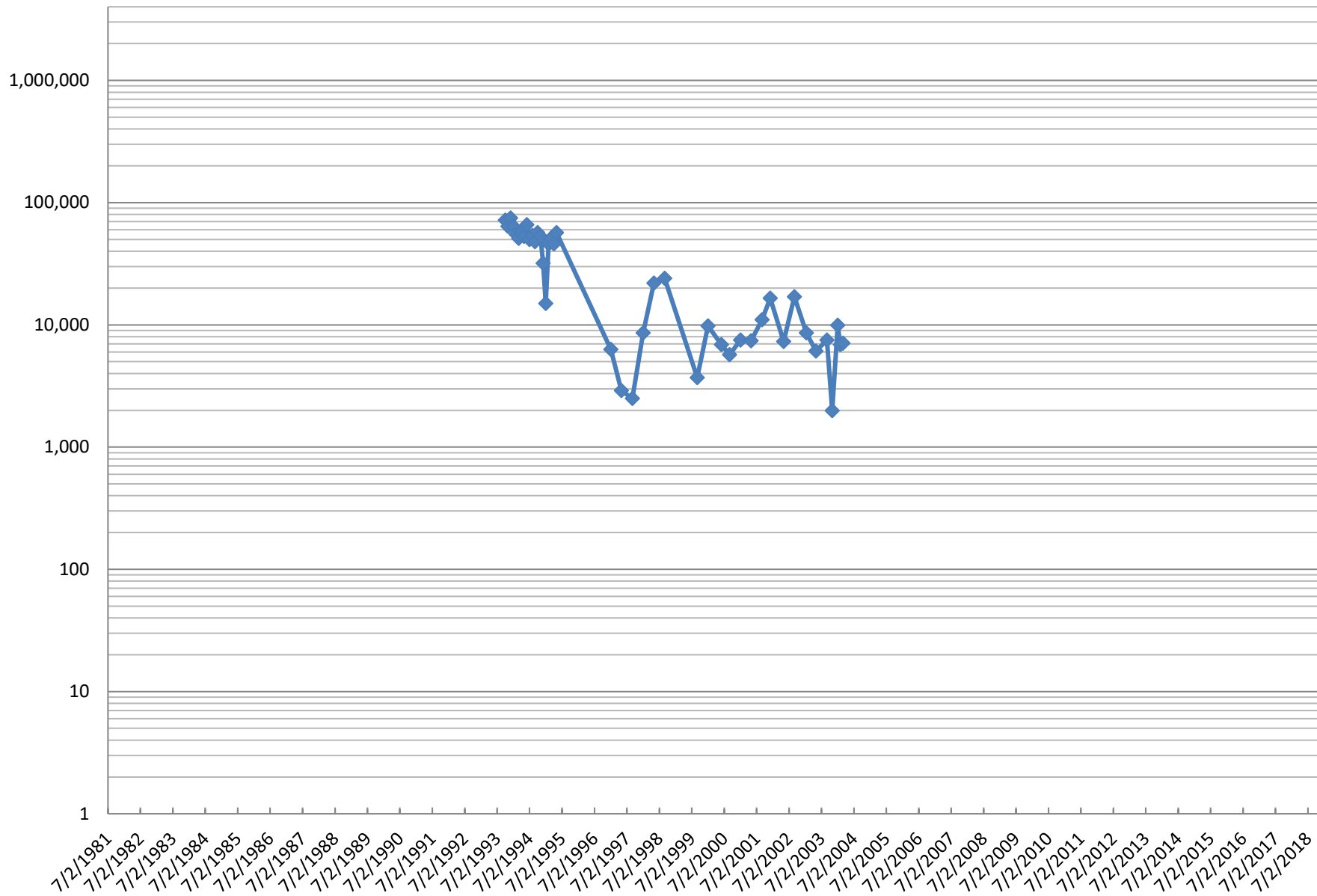
Dissolved Arsenic Concentrations (ug/L) in 5E4-1



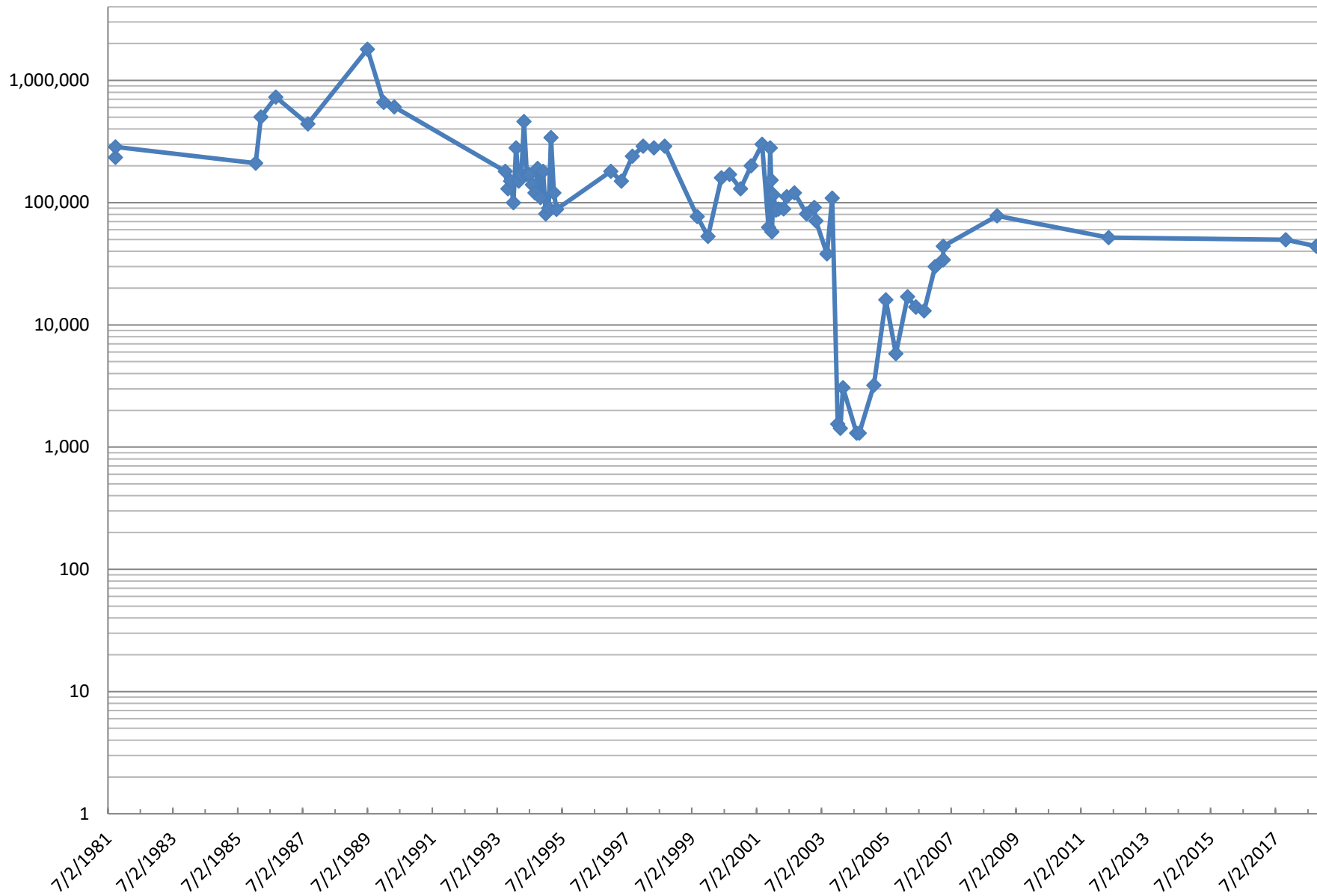
Dissolved Arsenic Concentrations (ug/L) in 6D3-1



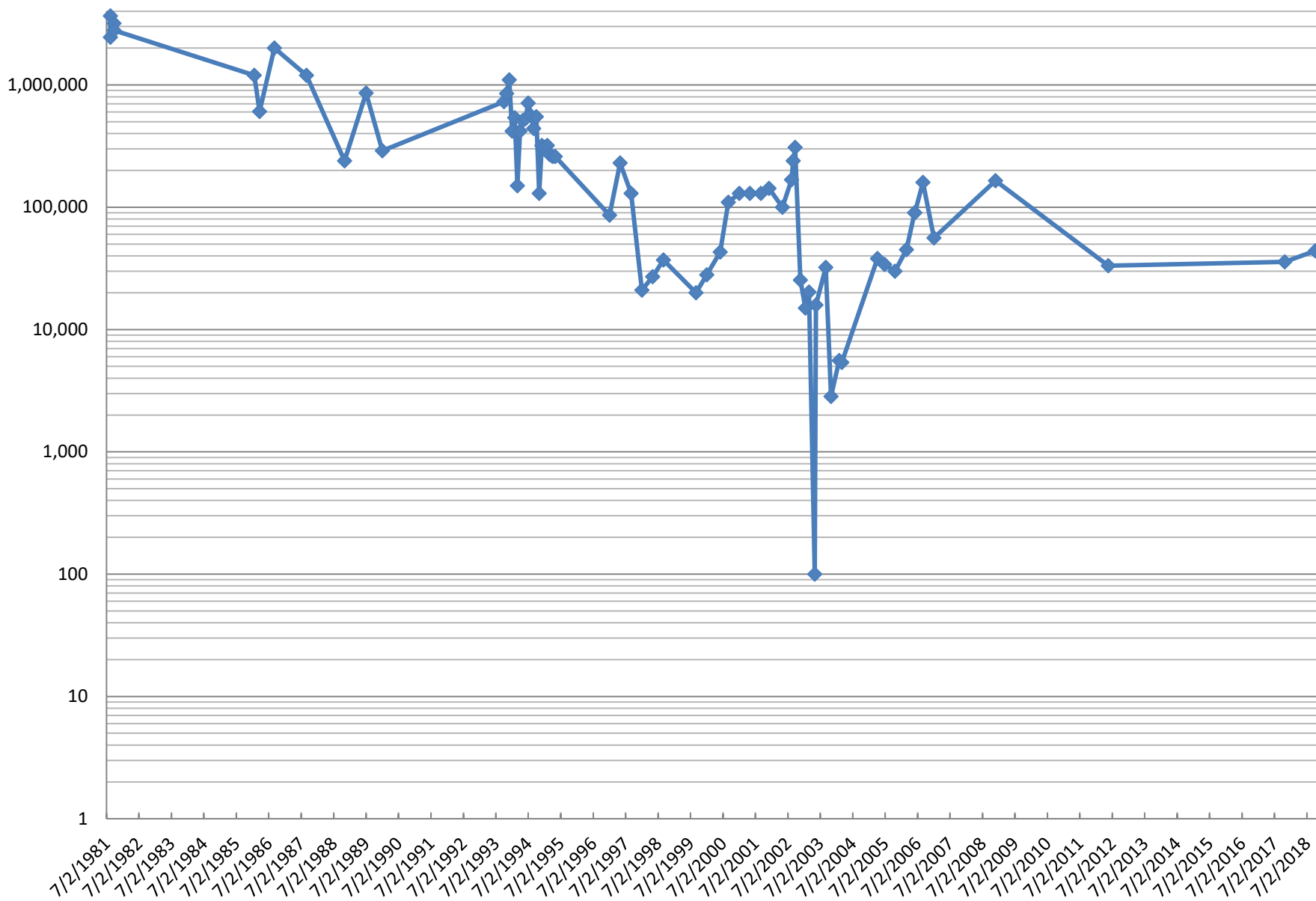
Dissolved Arsenic Concentrations (ug/L) in 6D9-1



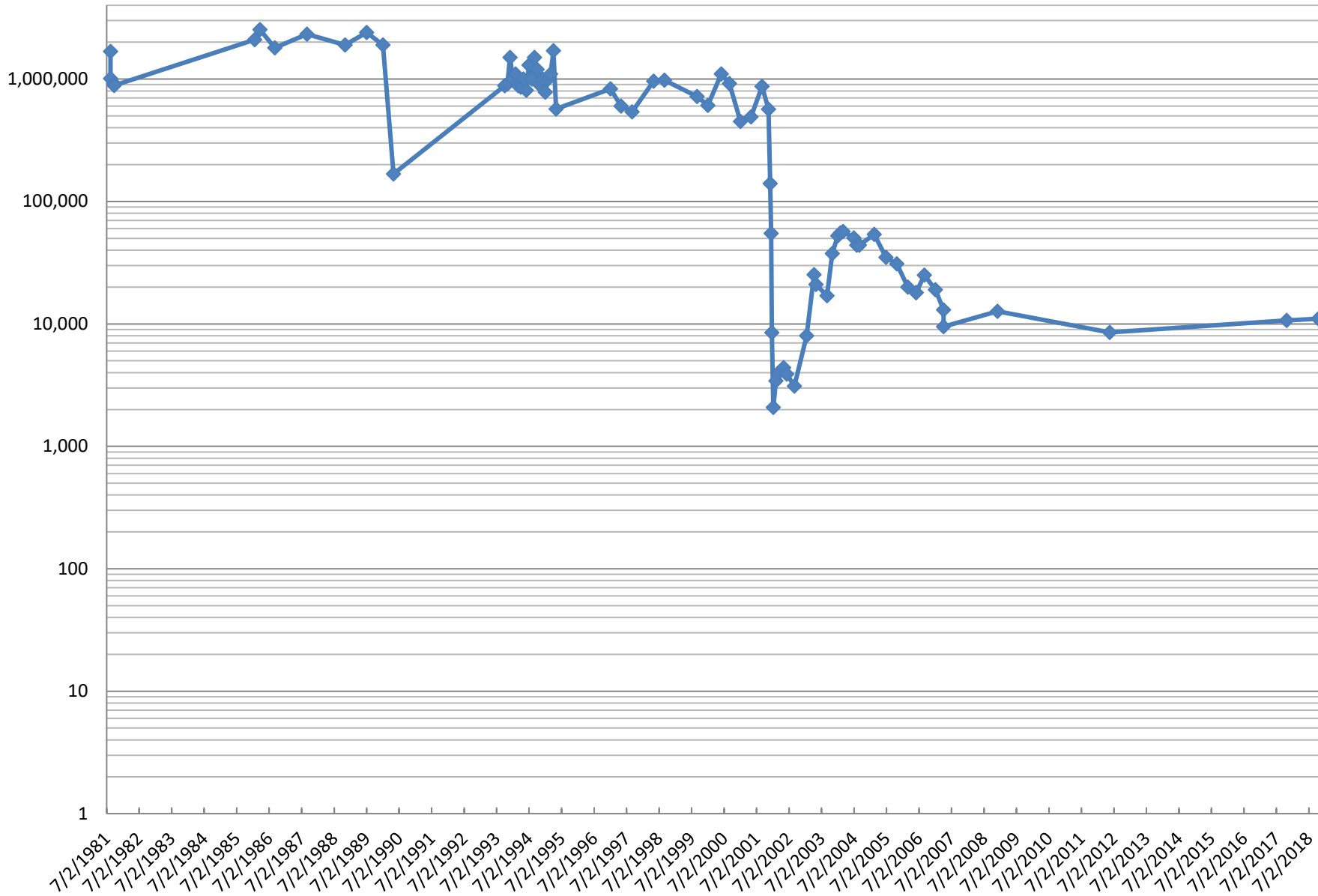
Dissolved Arsenic Concentrations (ug/L) in 6D14-1



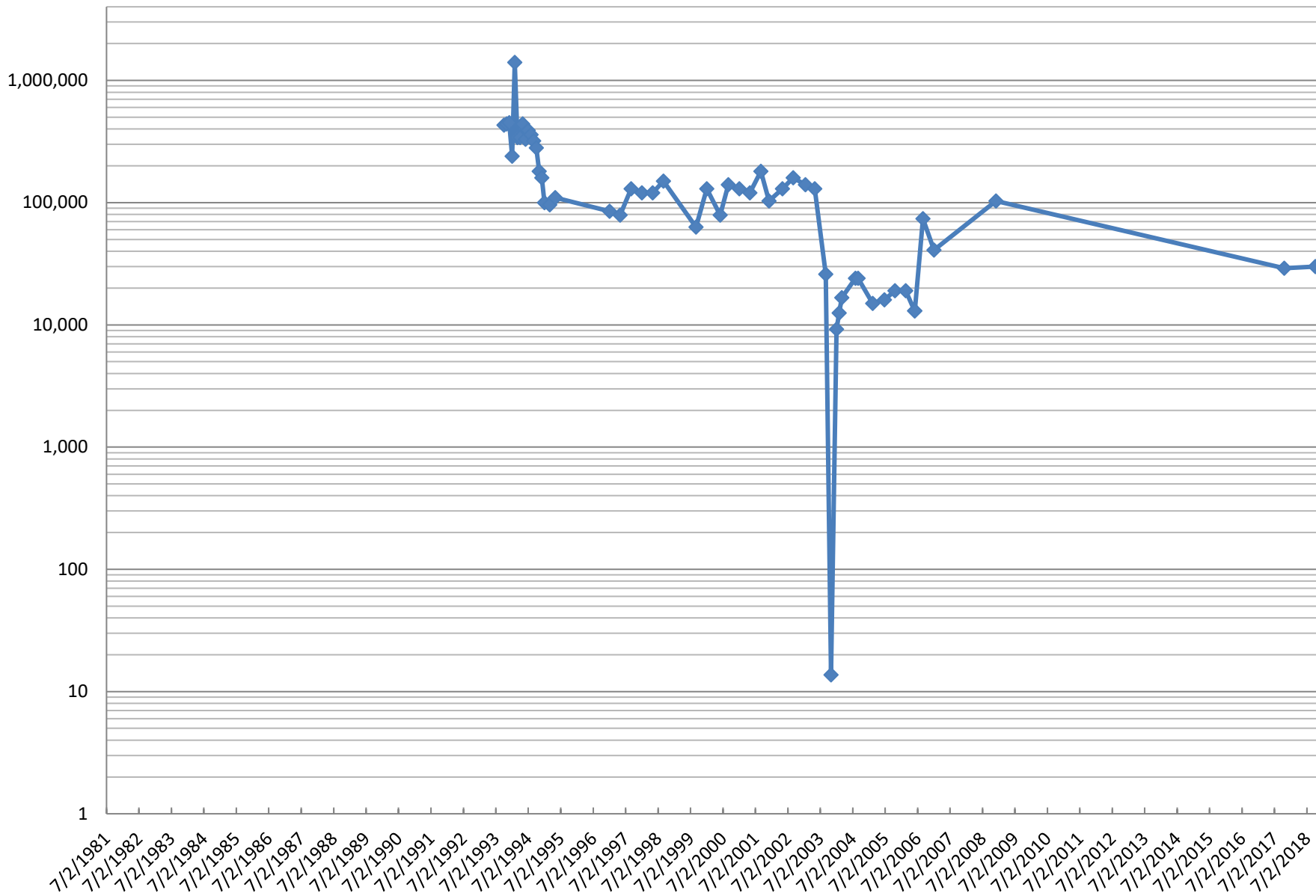
Dissolved Arsenic Concentrations (ug/L) in 6E1-1



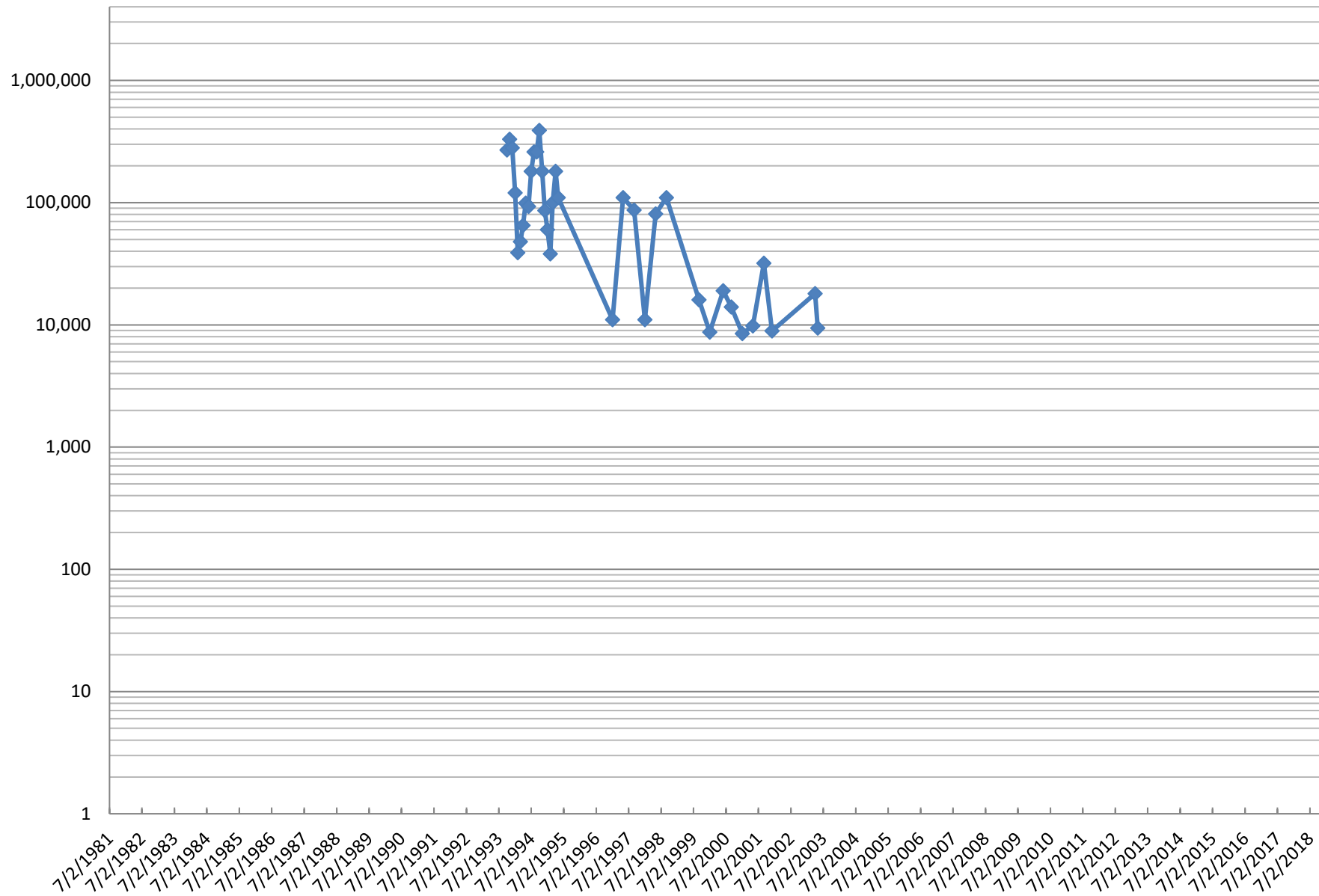
Dissolved Arsenic Concentrations (ug/L) in 6E2-1



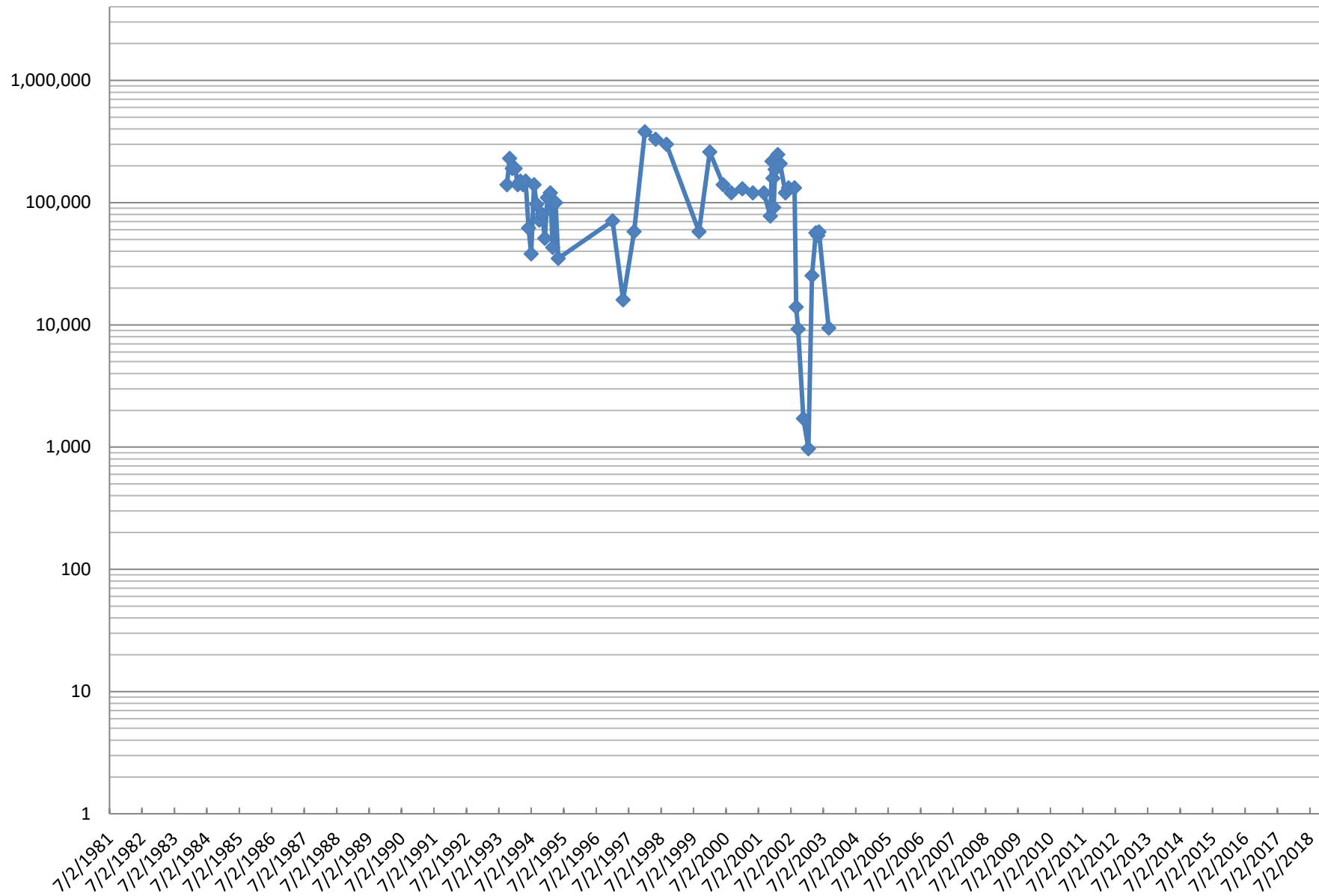
Dissolved Arsenic Concentrations (ug/L) in 6E5-1



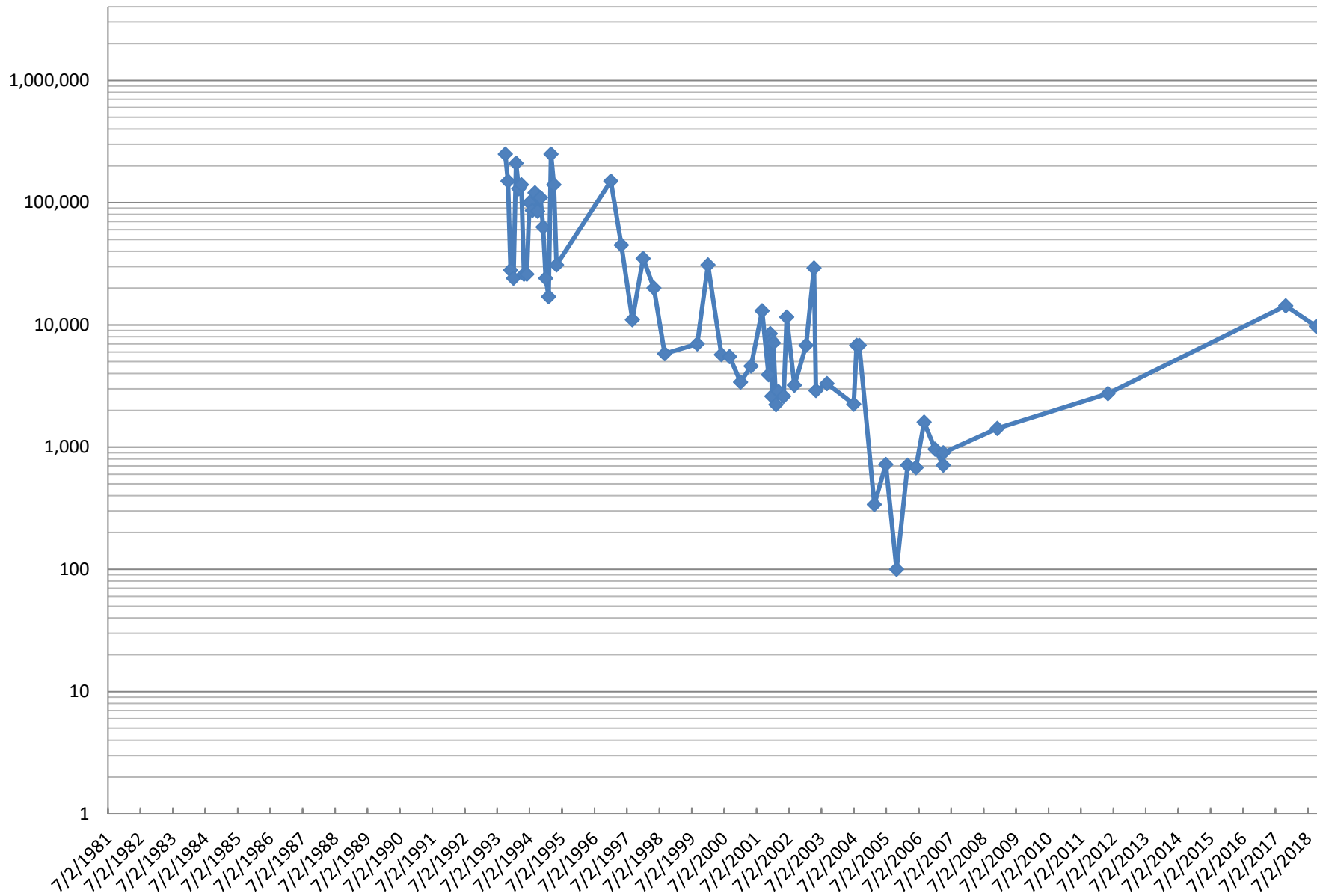
Dissolved Arsenic Concentrations (ug/L) in 7D2-1



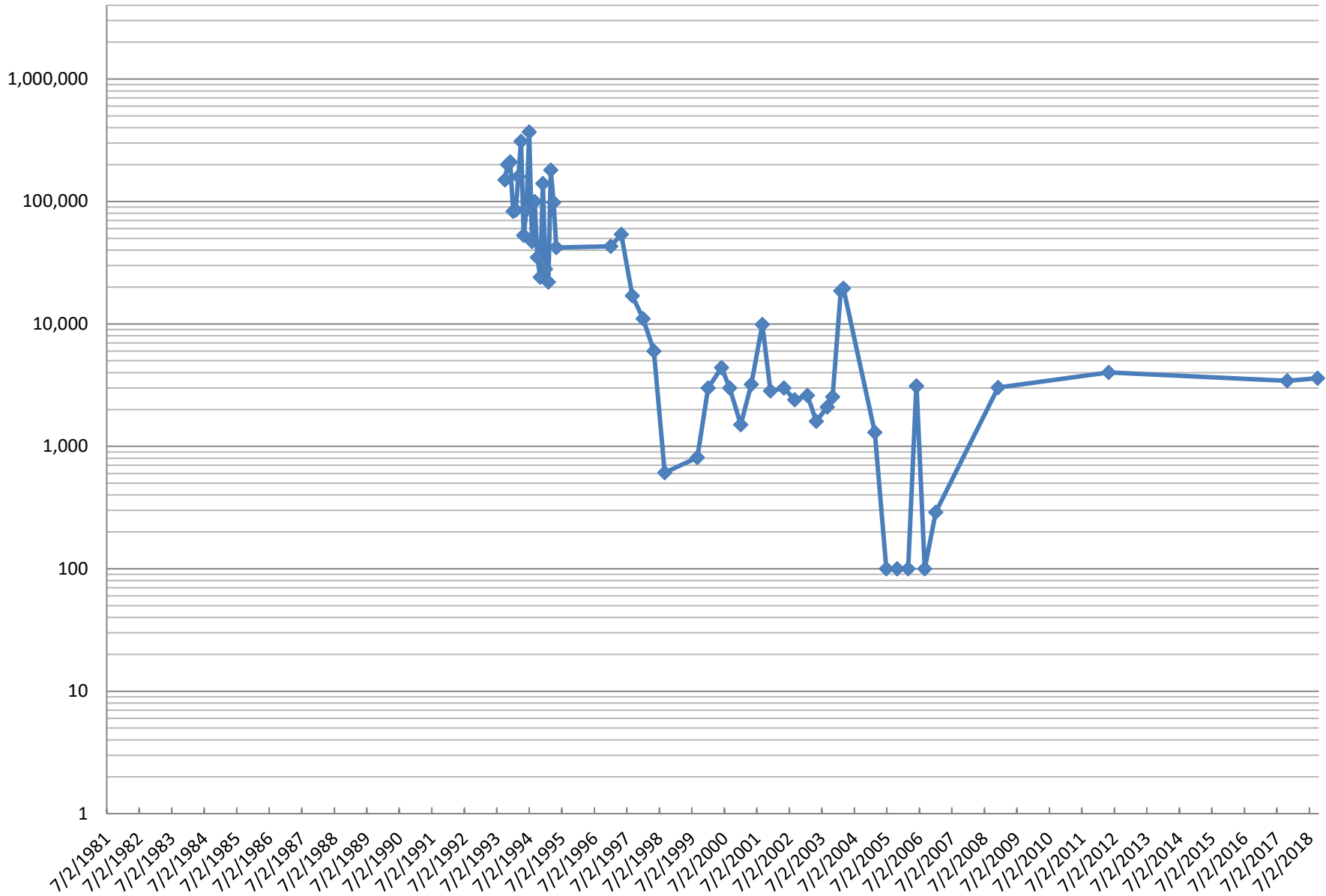
Dissolved Arsenic Concentrations (ug/L) in 7D3-1



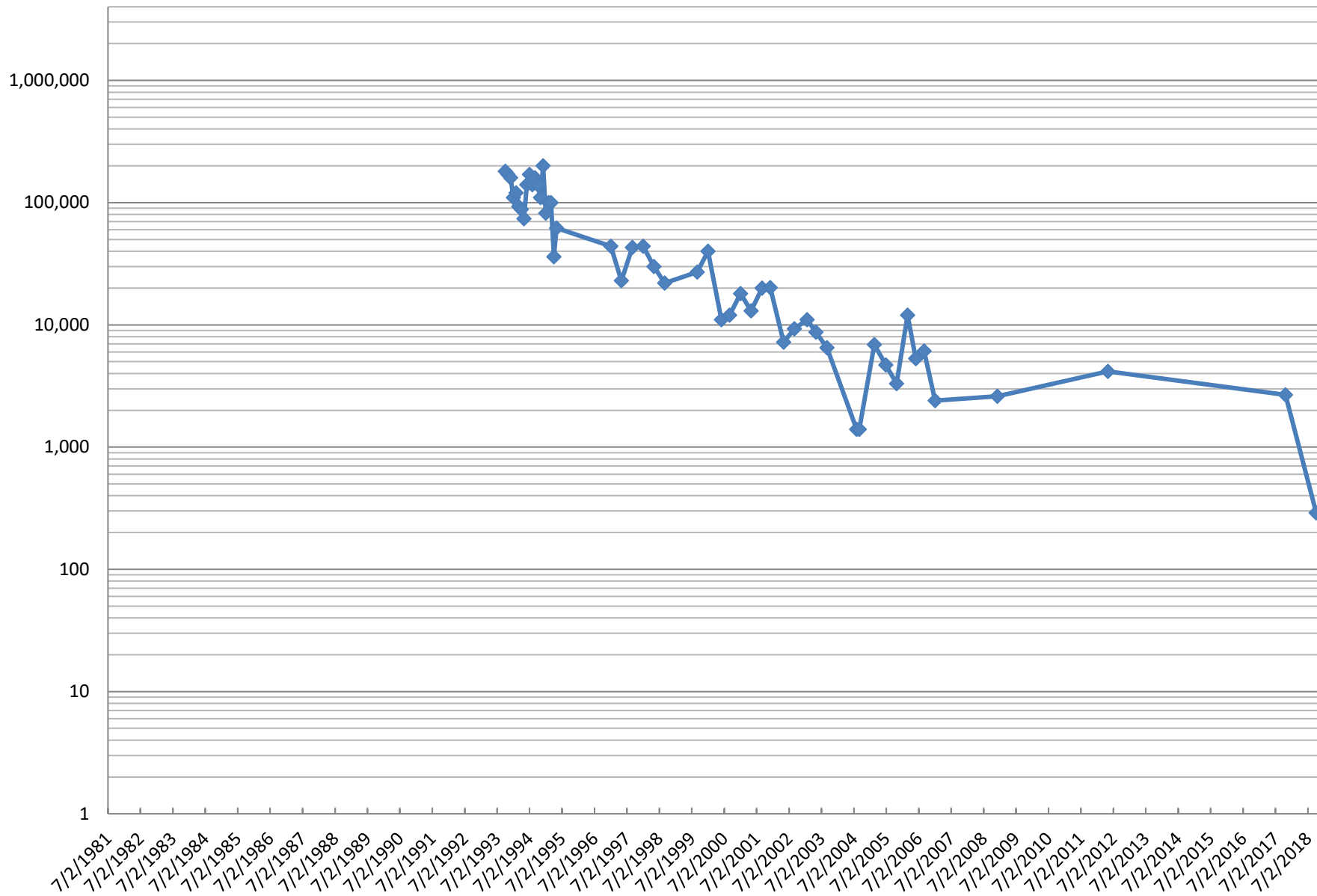
Dissolved Arsenic Concentrations (ug/L) in 7E3-1



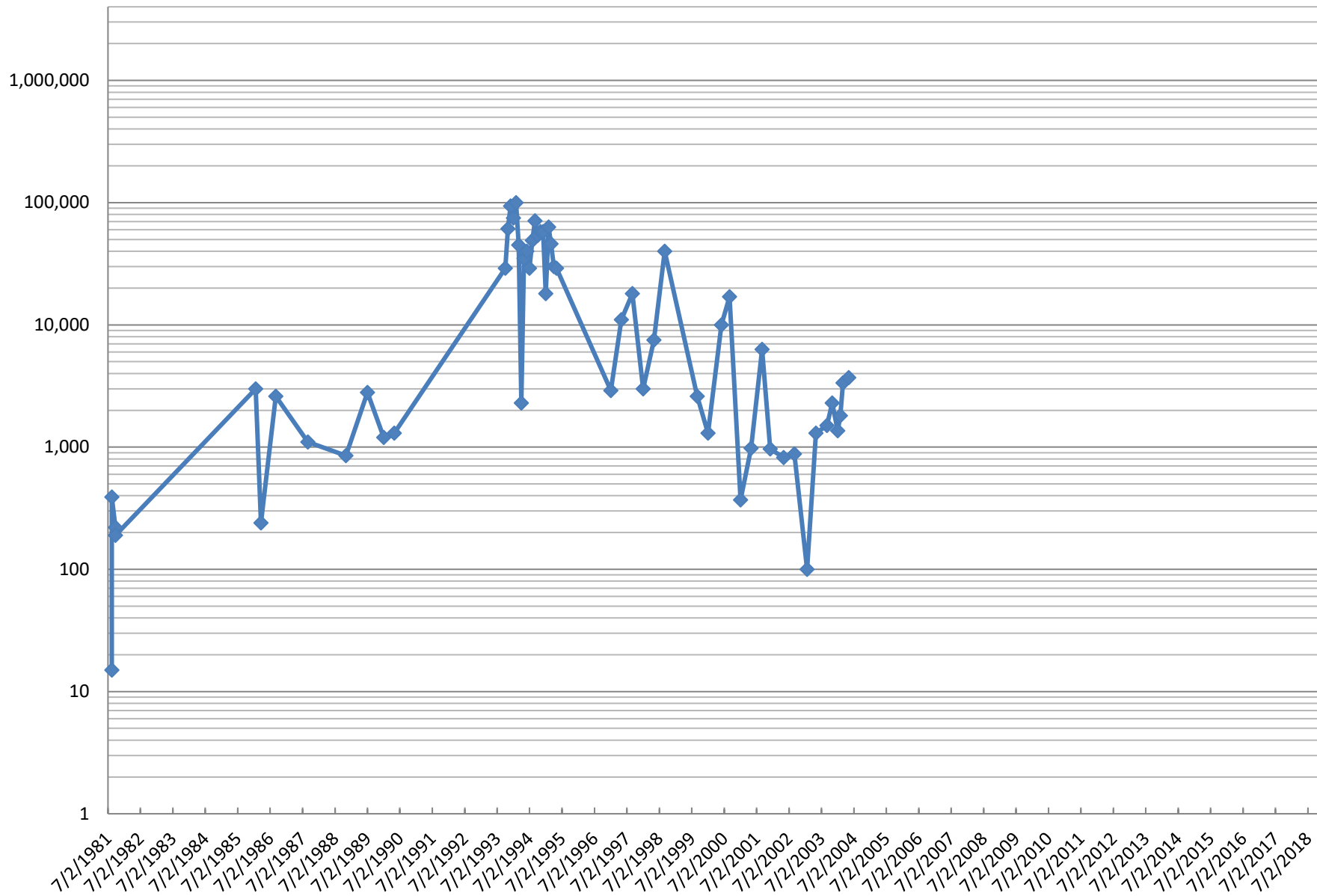
Dissolved Arsenic Concentrations (ug/L) in 7E8-1



Dissolved Arsenic Concentrations (ug/L) in 7E10-1

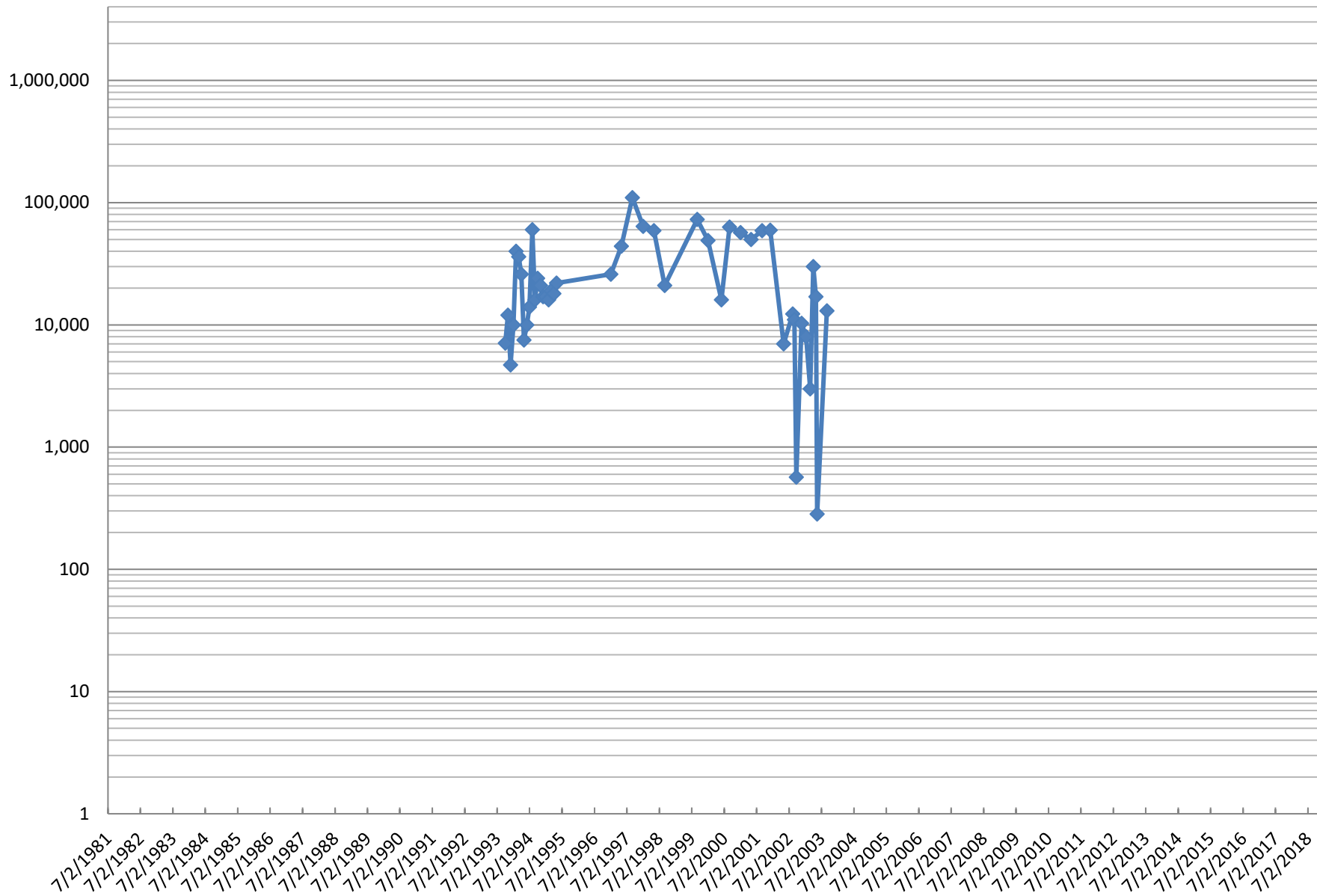


Dissolved Arsenic Concentrations (ug/L) in 7E12-1

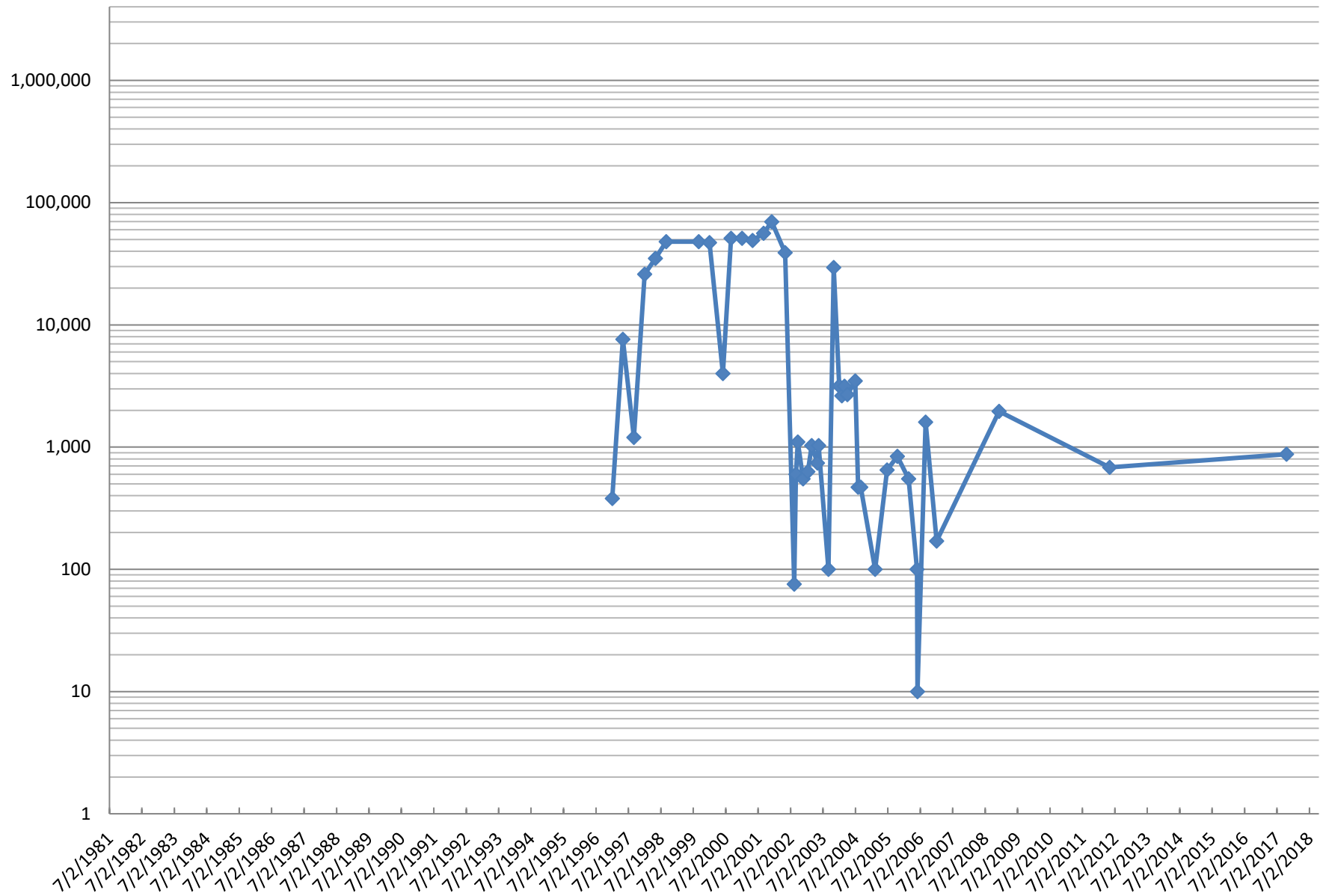


Backup for Figure 6-4

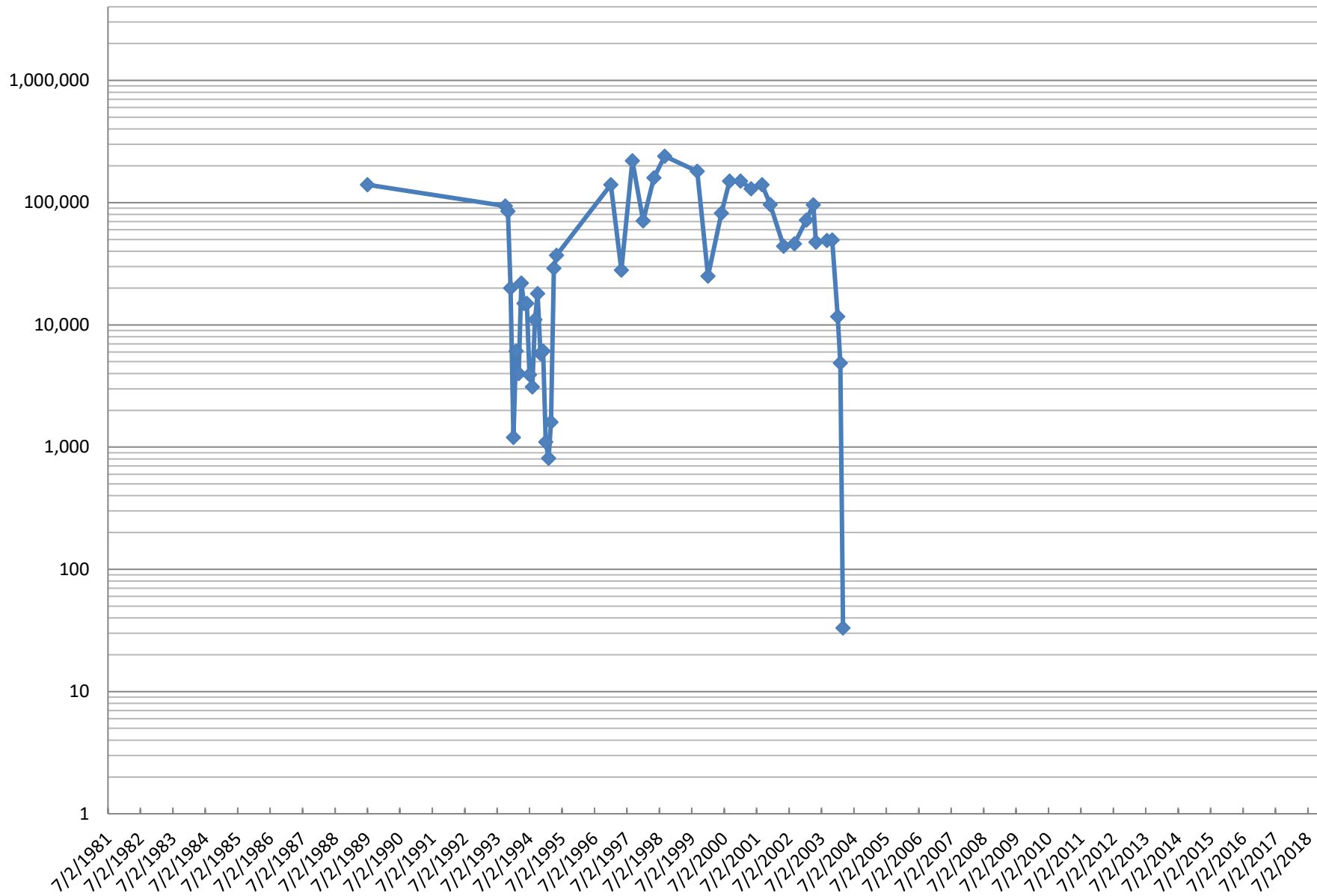
Dissolved Arsenic Concentrations (ug/L) in 5C4-2



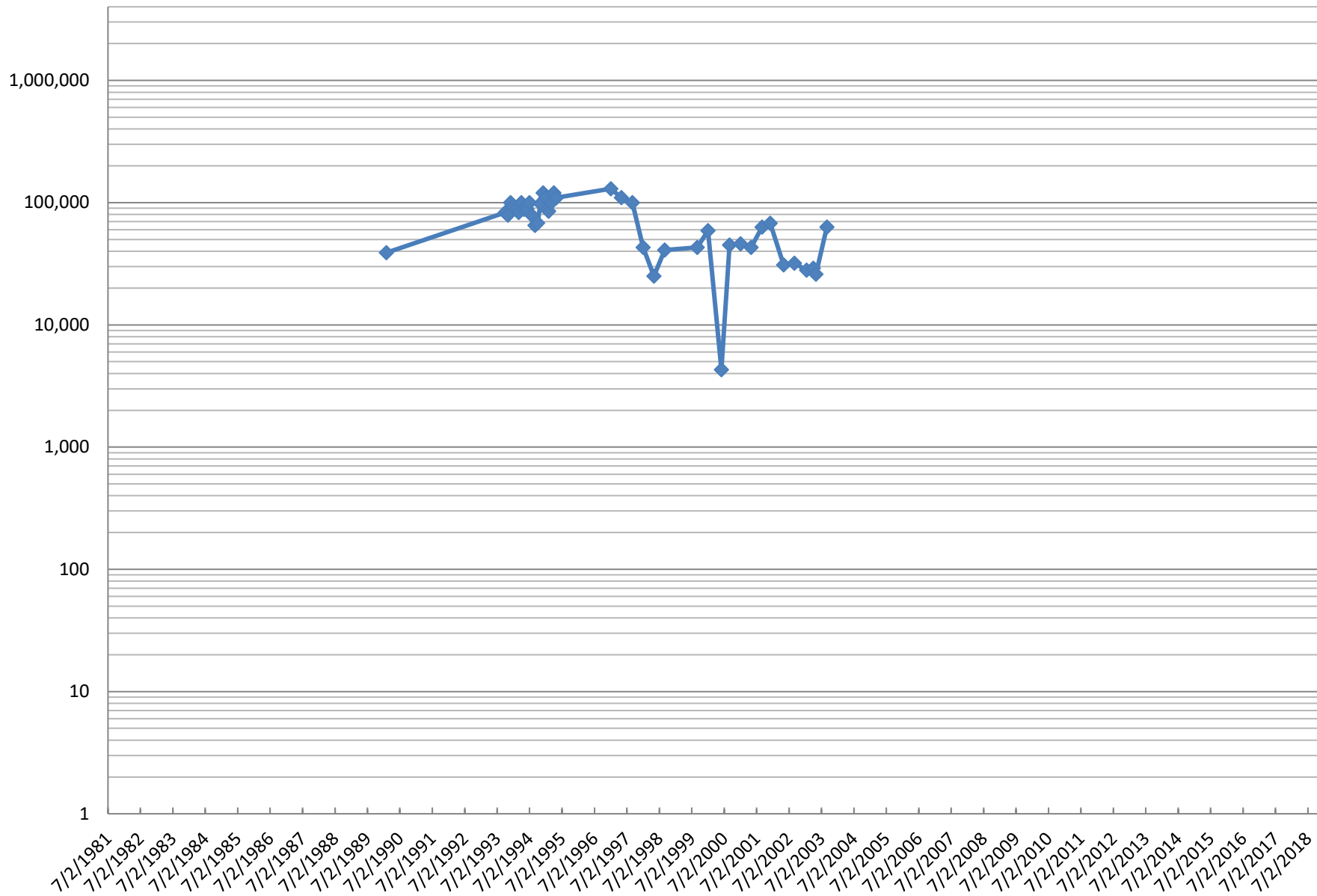
Dissolved Arsenic Concentrations (ug/L) in 5C10-2



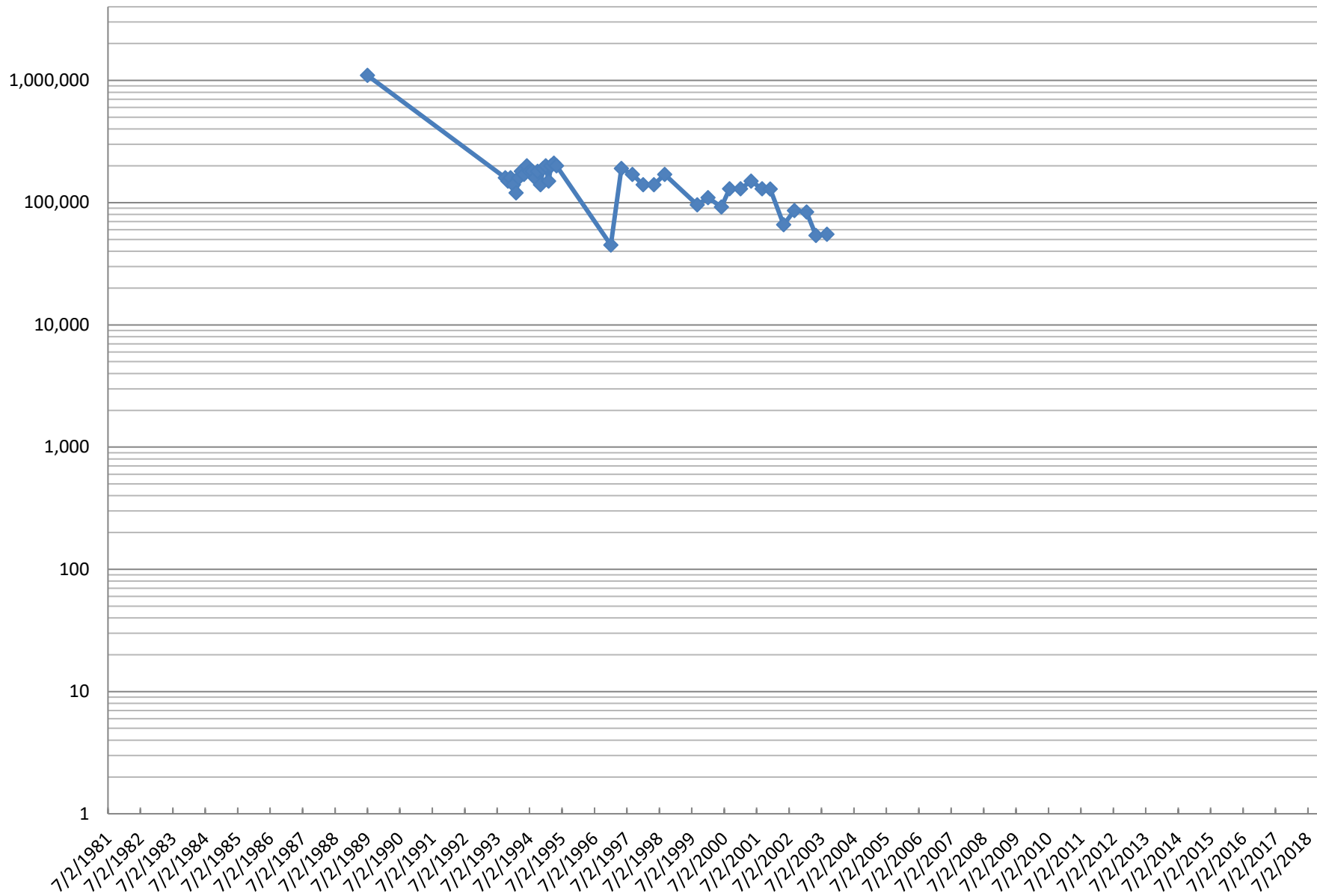
Dissolved Arsenic Concentrations (ug/L) in 6D2-2



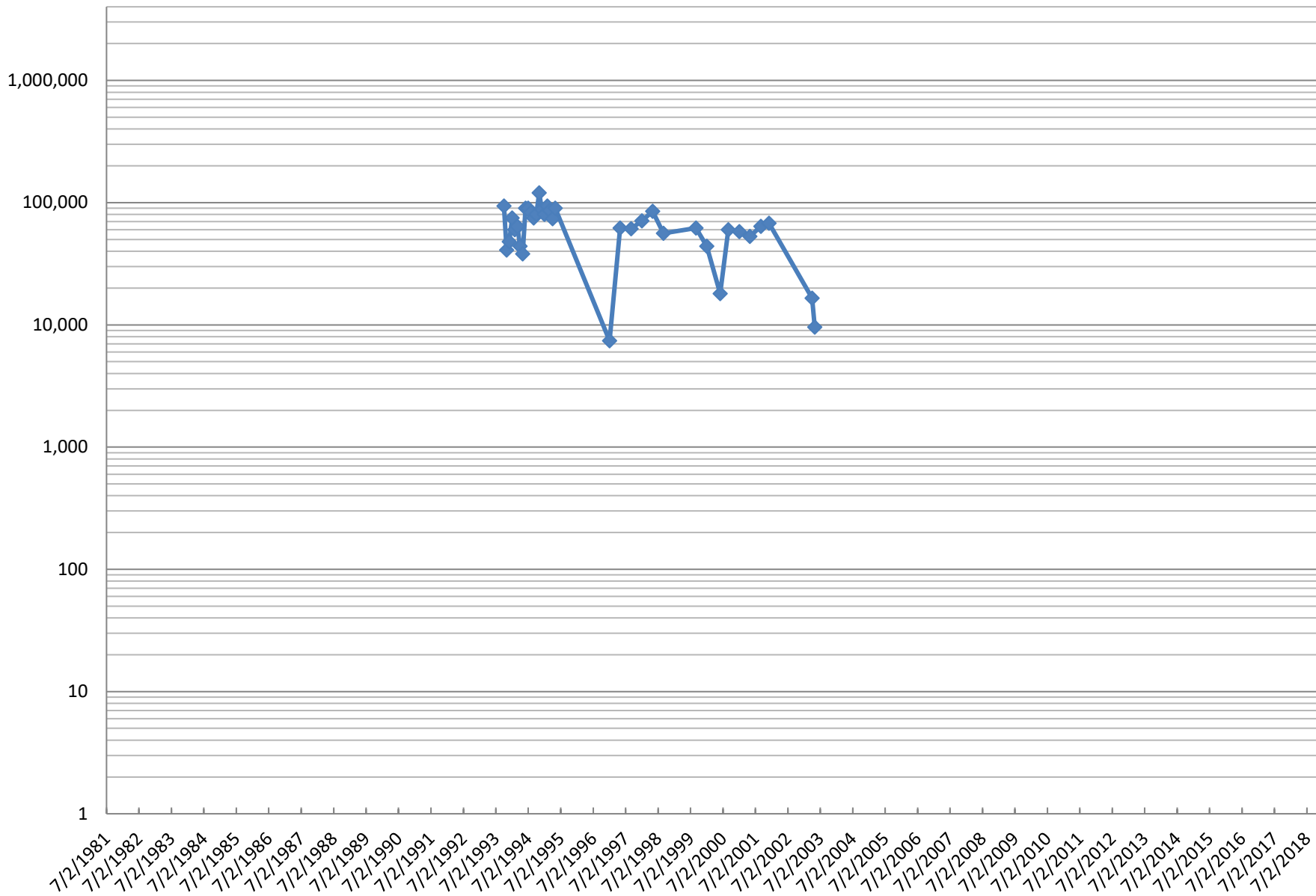
Dissolved Arsenic Concentrations (ug/L) in 6D7-2



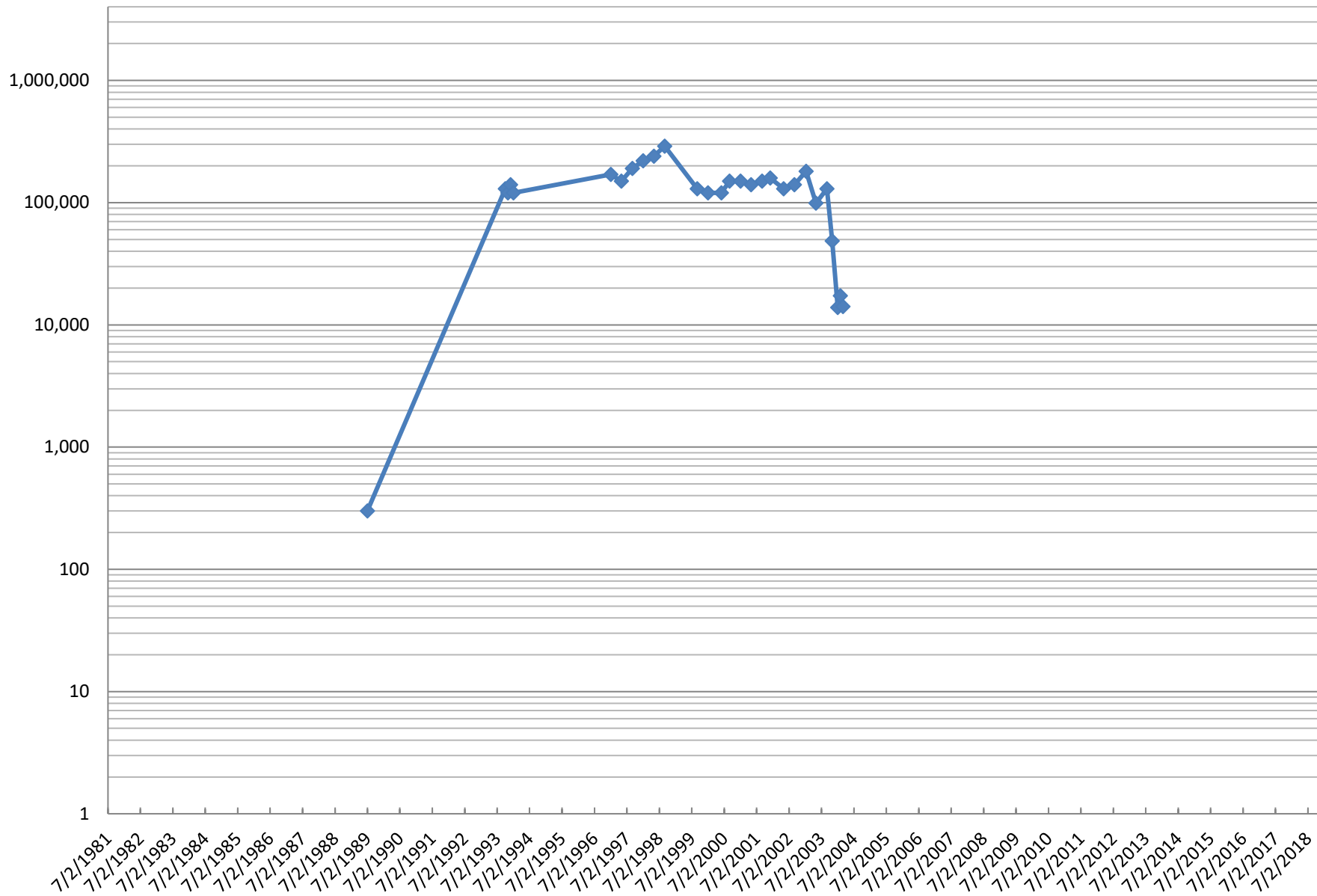
Dissolved Arsenic Concentrations (ug/L) in 6D10-2



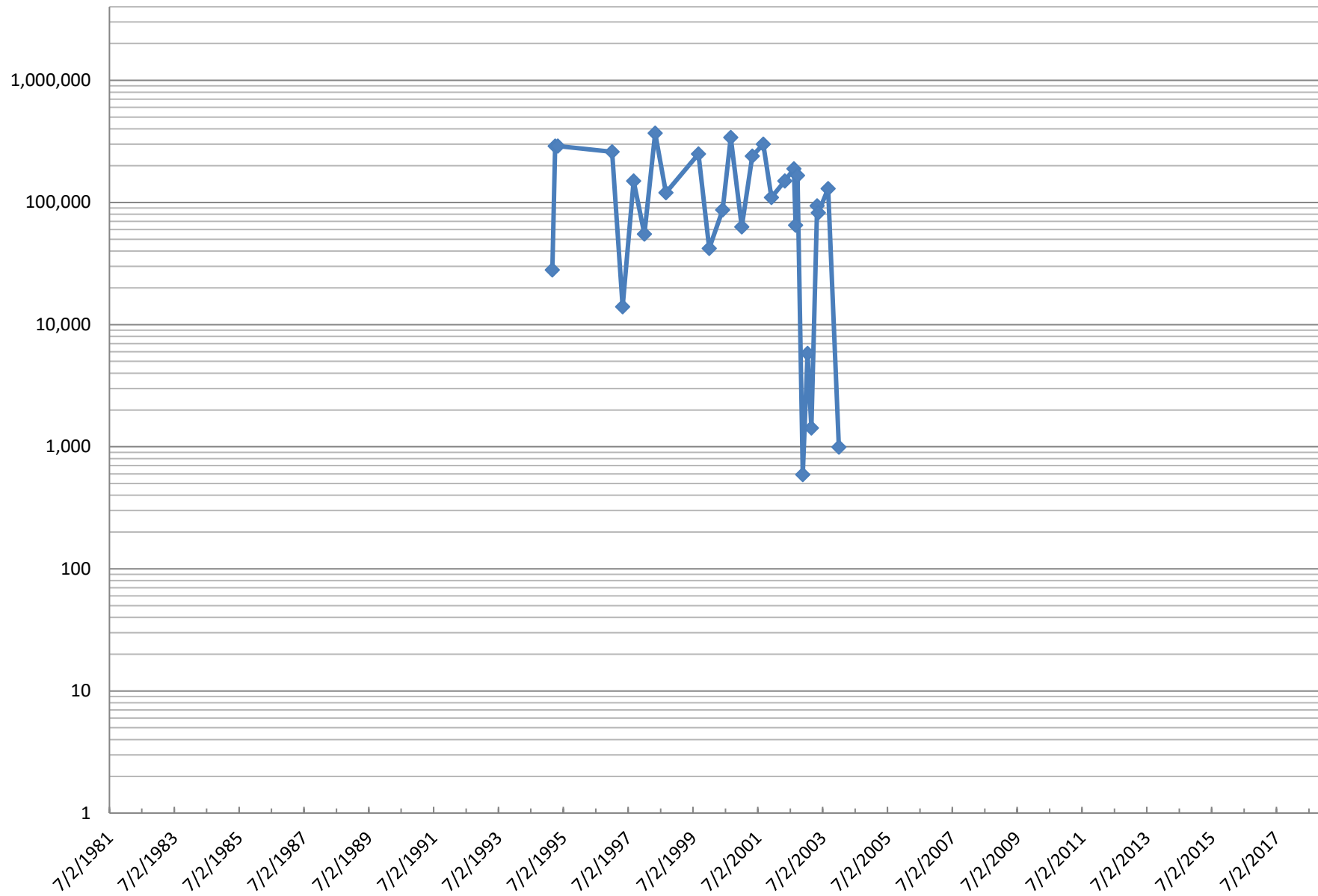
Dissolved Arsenic Concentrations (ug/L) in 6D12-2



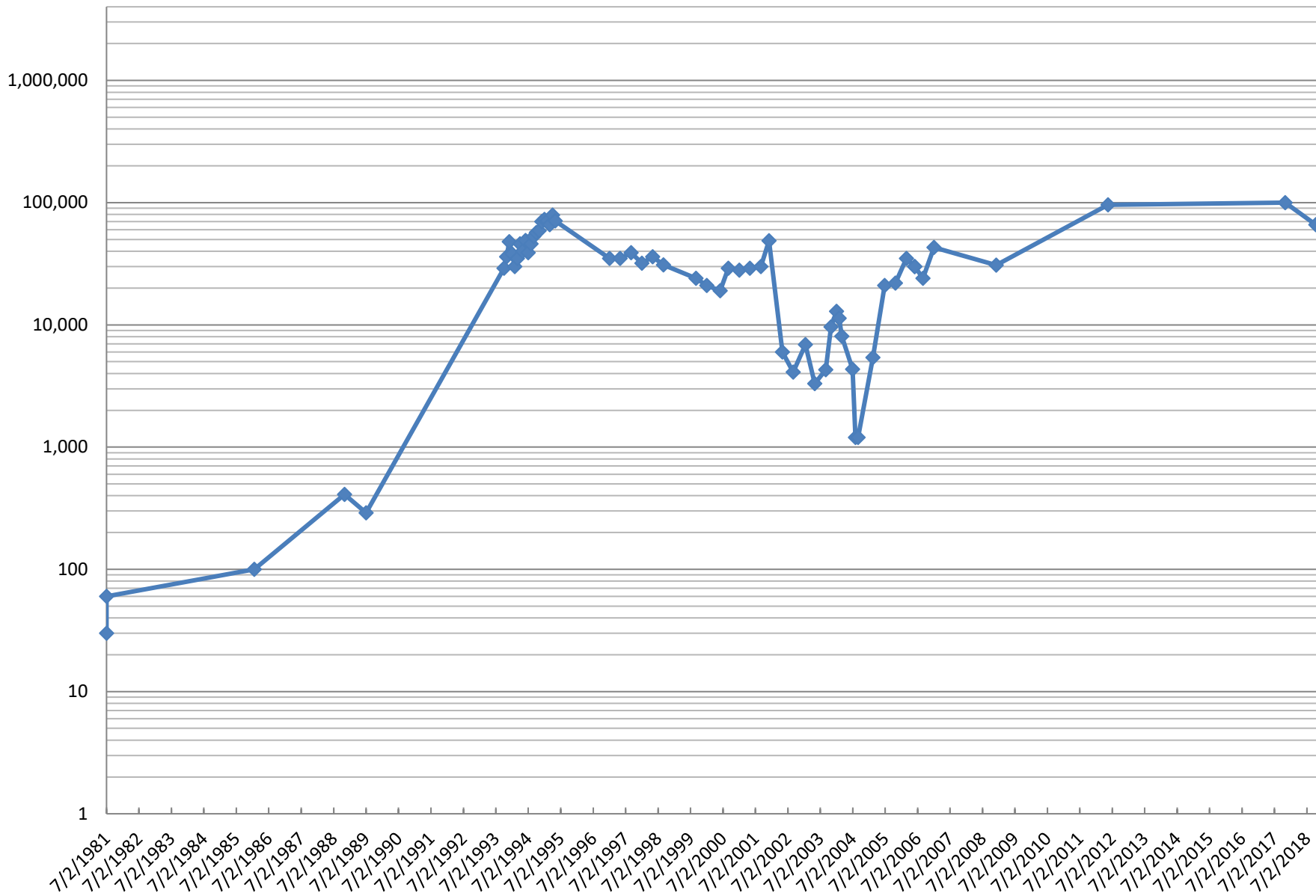
Dissolved Arsenic Concentrations (ug/L) in 6D15-2



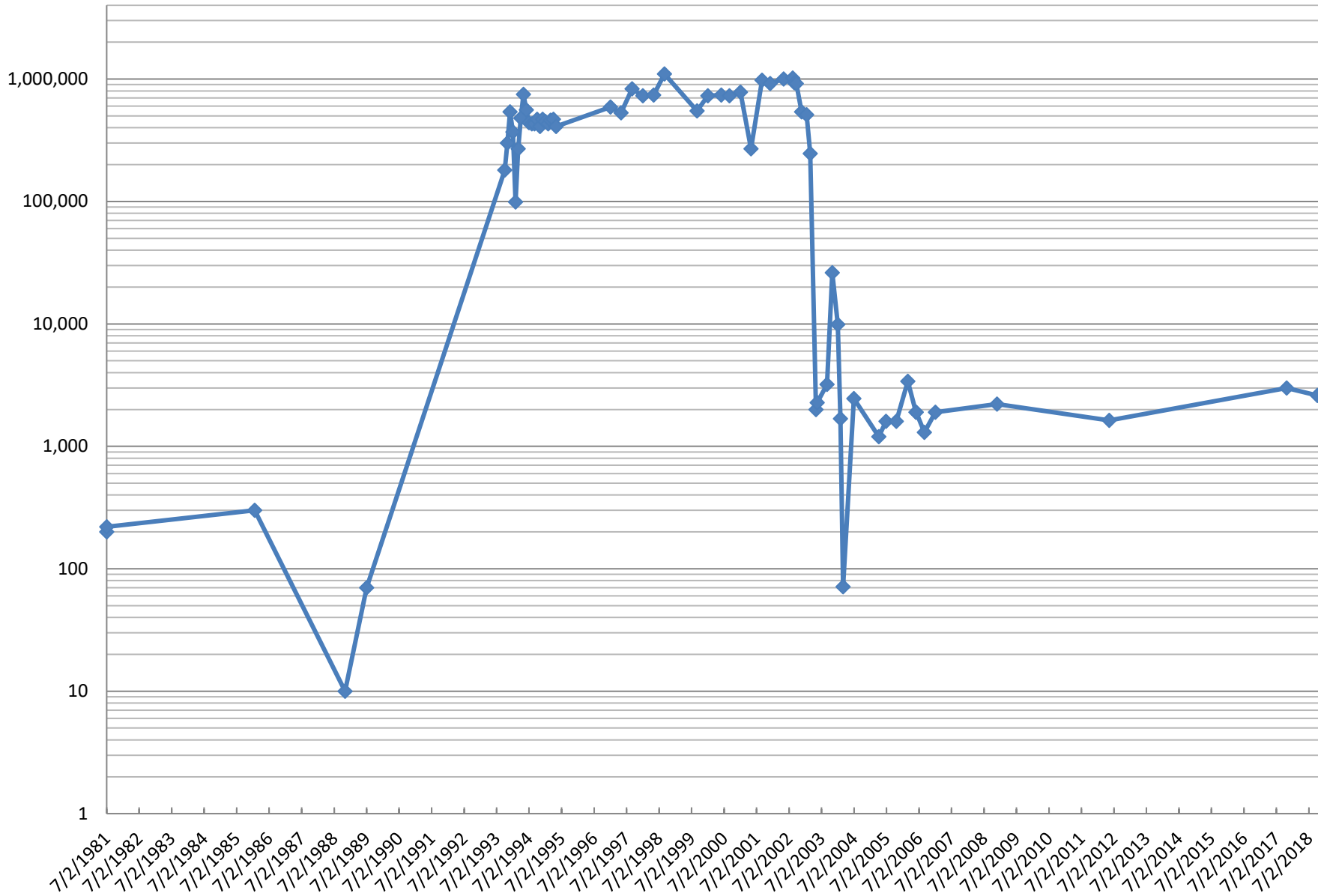
Dissolved Arsenic Concentrations (ug/L) in 6D22-2



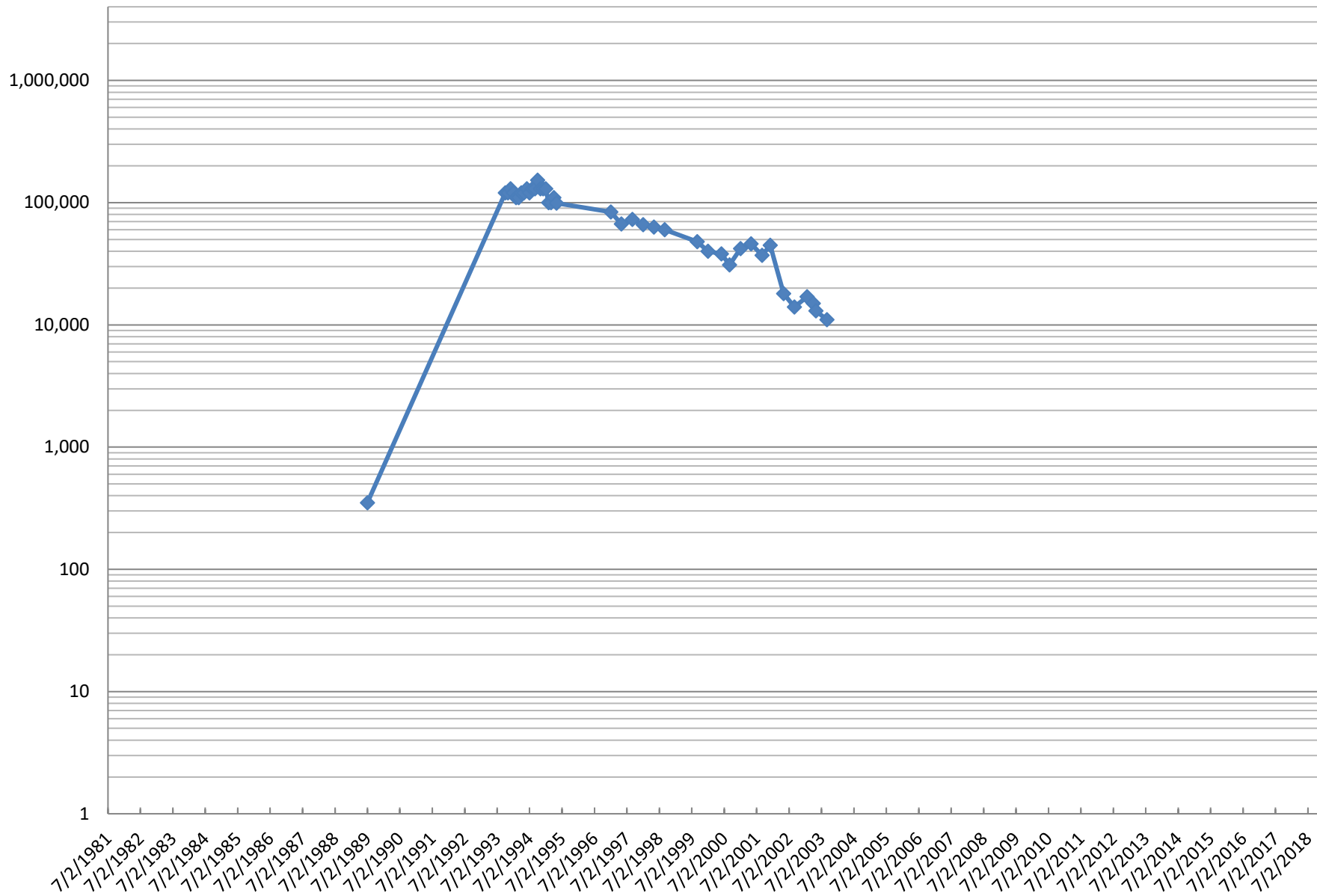
Dissolved Arsenic Concentrations (ug/L) in 6E3-2



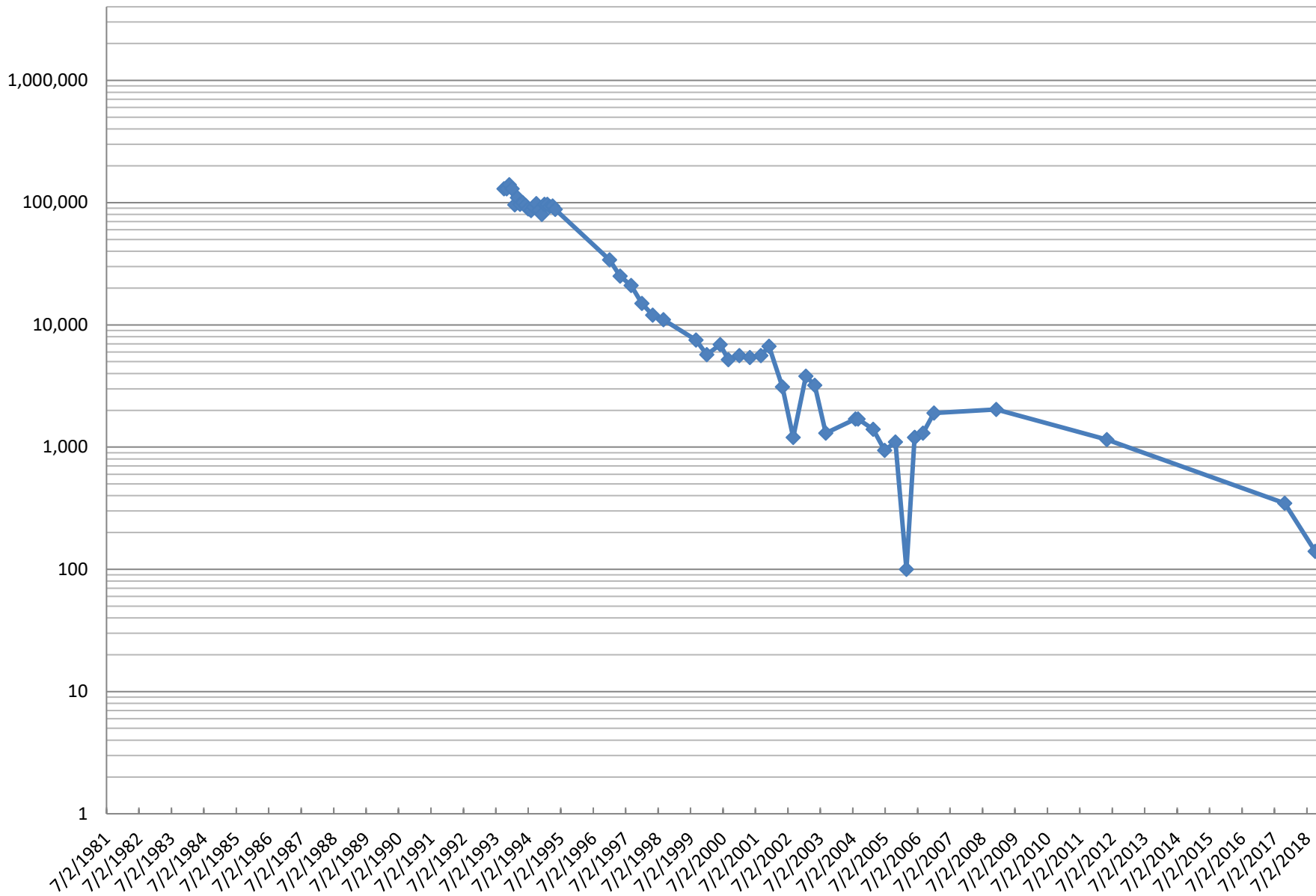
Dissolved Arsenic Concentrations (ug/L) in 6E9-2



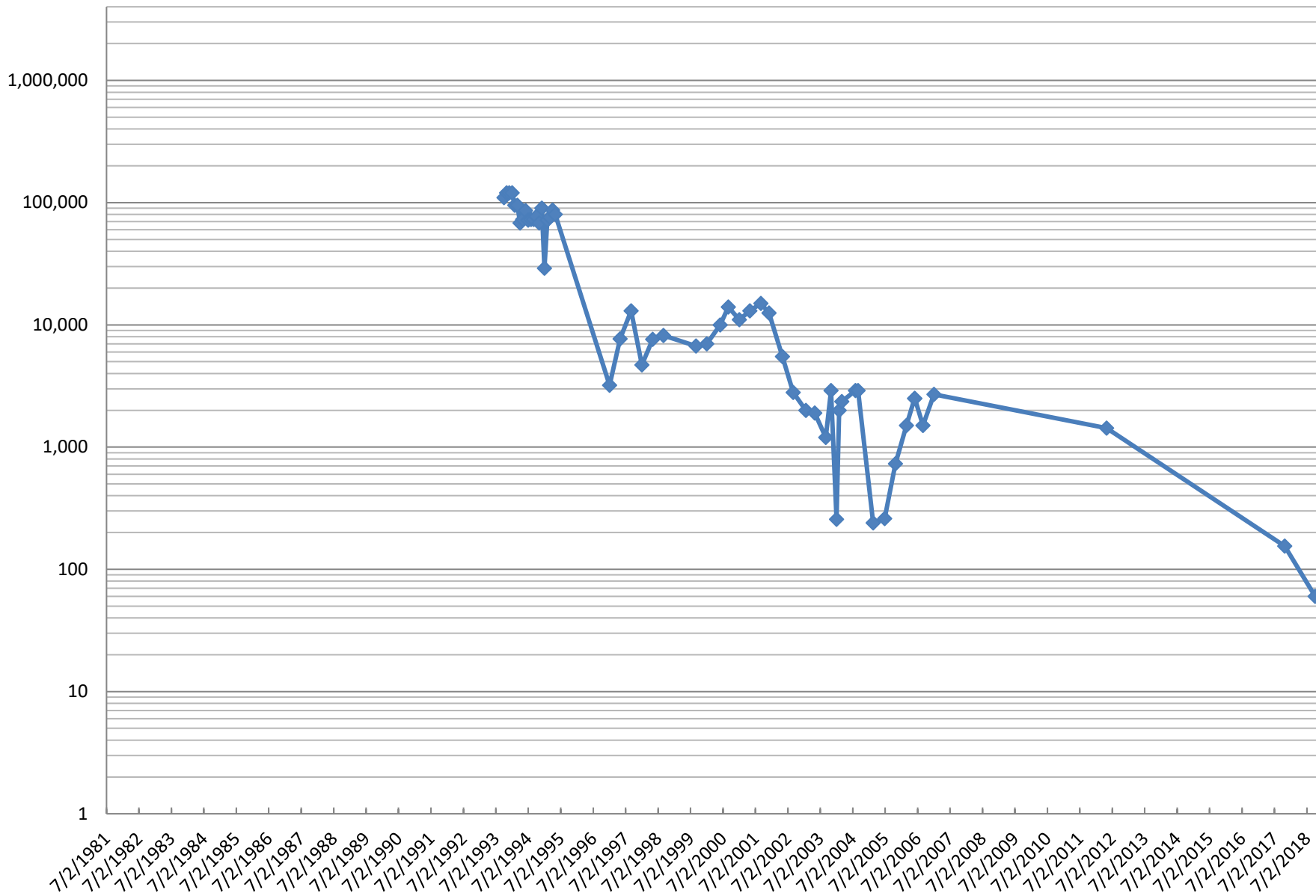
Dissolved Arsenic Concentrations (ug/L) in 7D1-2



Dissolved Arsenic Concentrations (ug/L) in 7E6-2

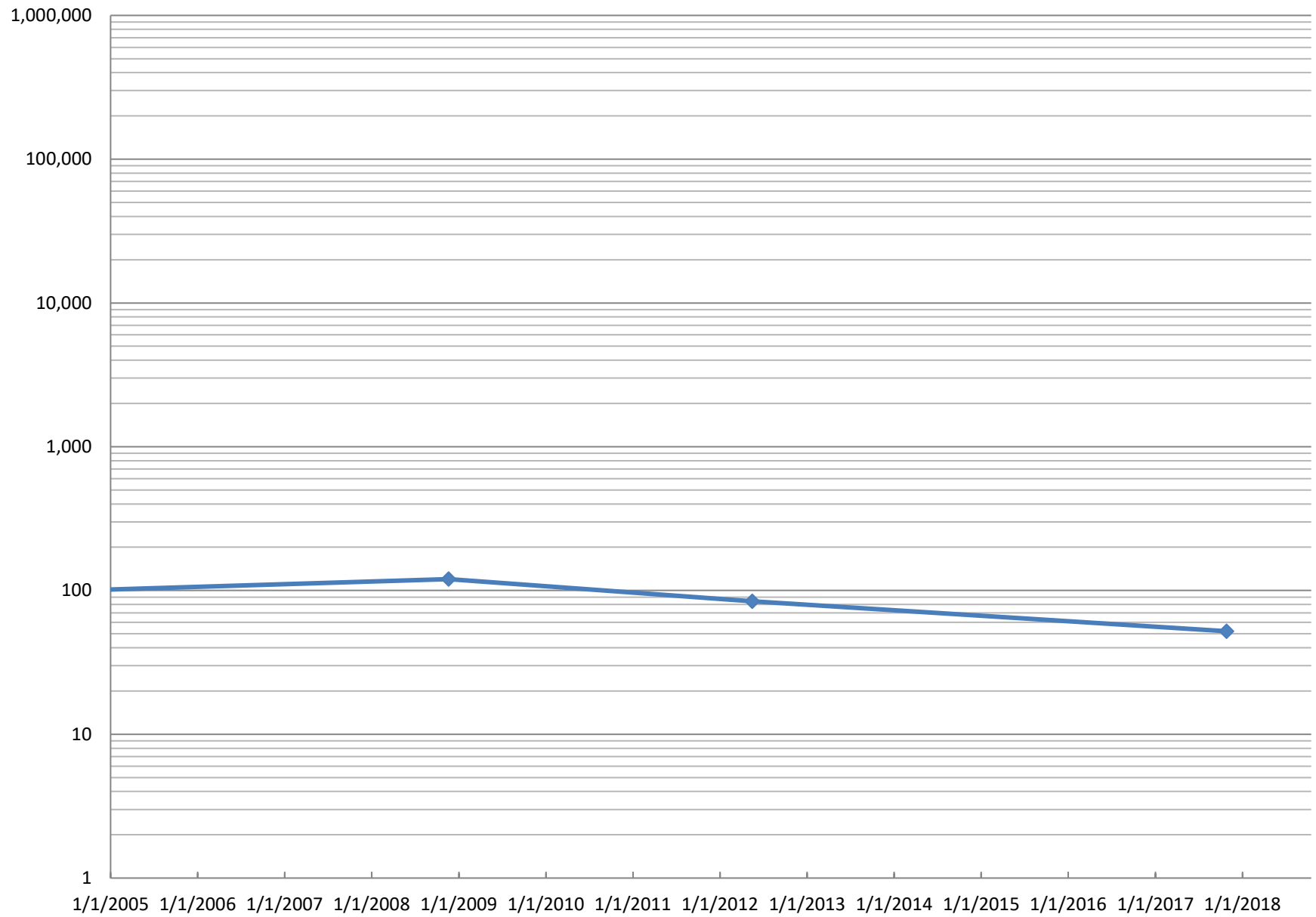


Dissolved Arsenic Concentrations (ug/L) in 7E7-2

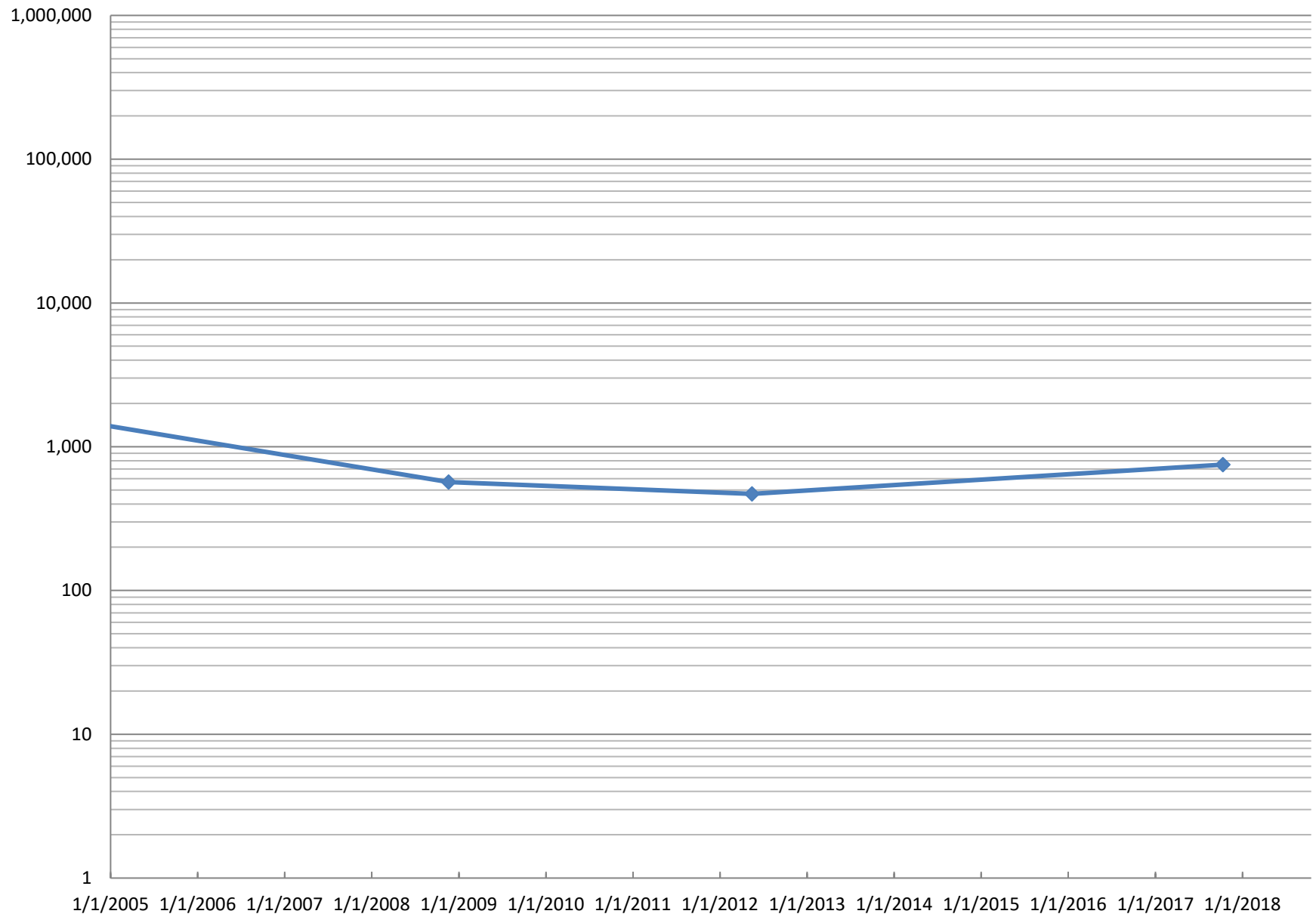


Backup for Figure 6-11

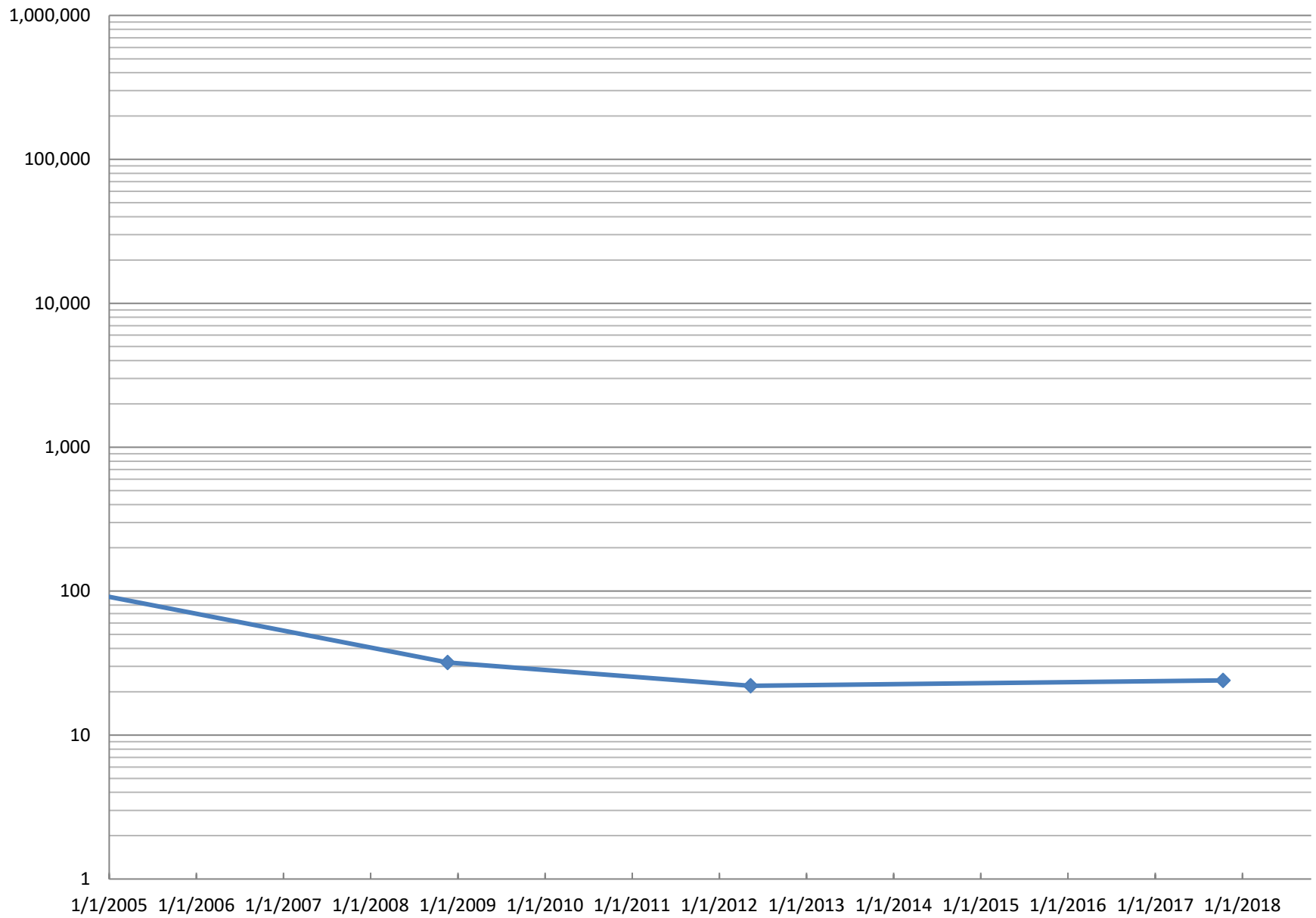
Dissolved Arsenic Concentrations (ug/L) in 1B4-1



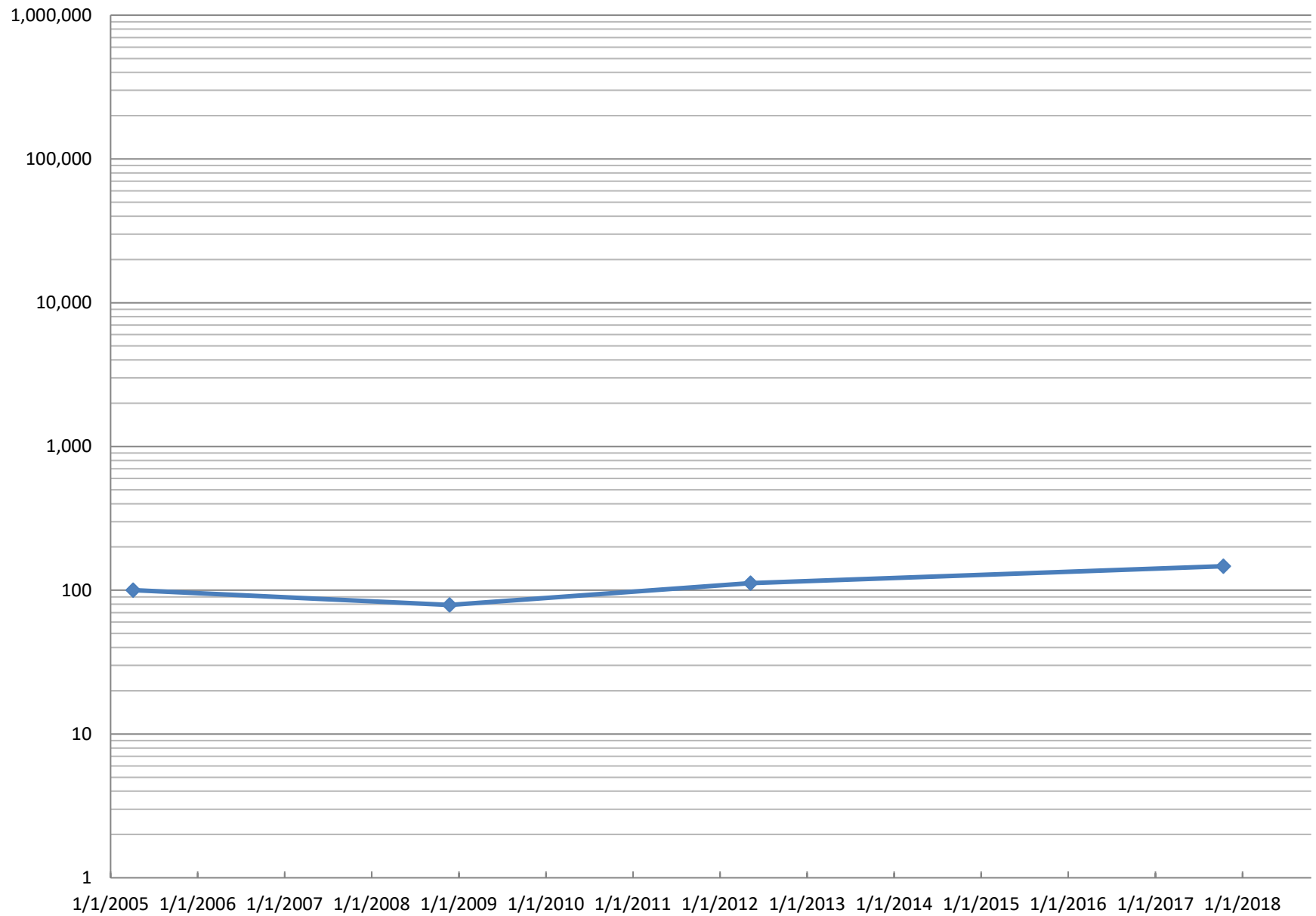
Dissolved Arsenic Concentrations (ug/L) in 1C3-1



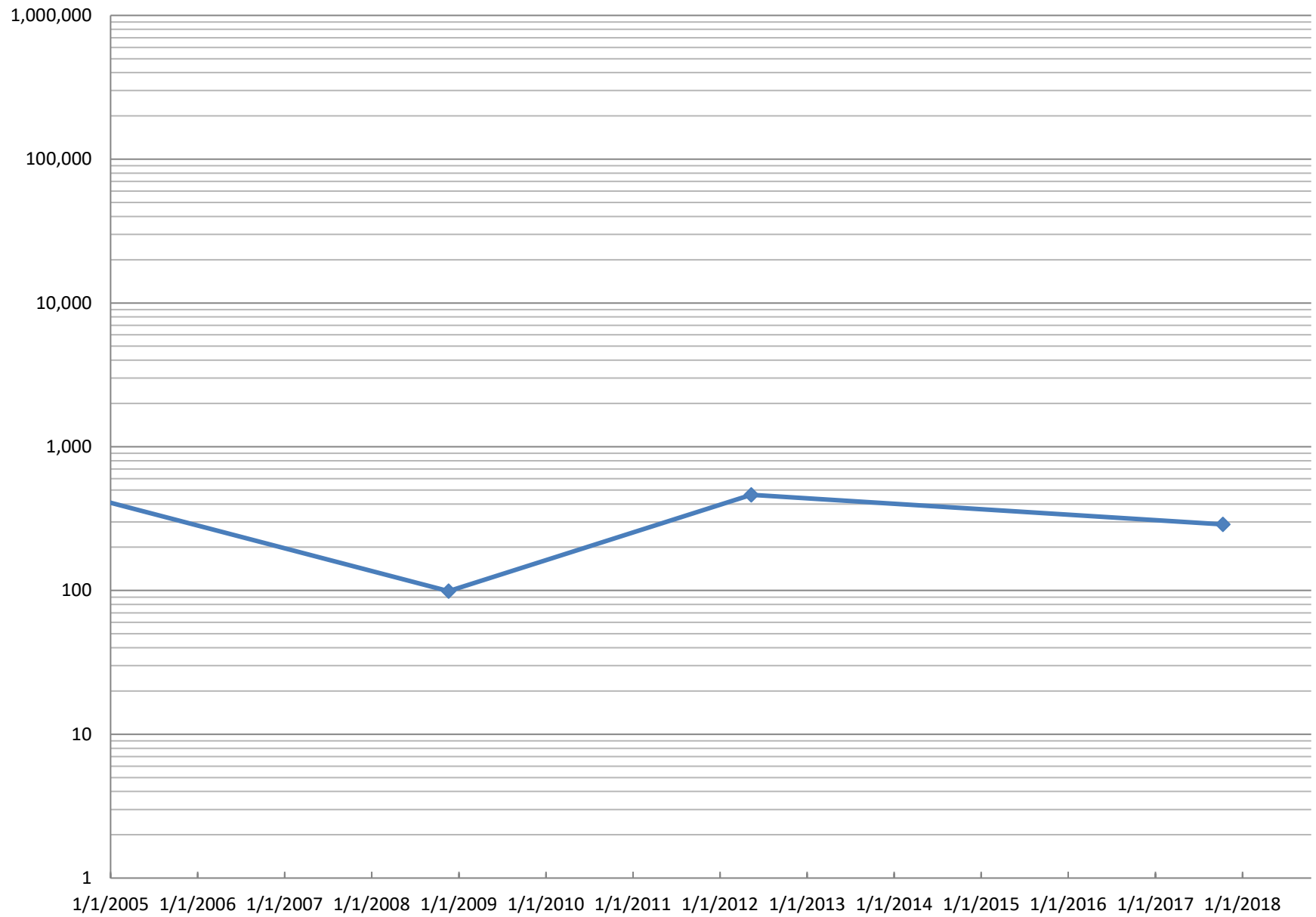
Dissolved Arsenic Concentrations (ug/L) in 1D1-1



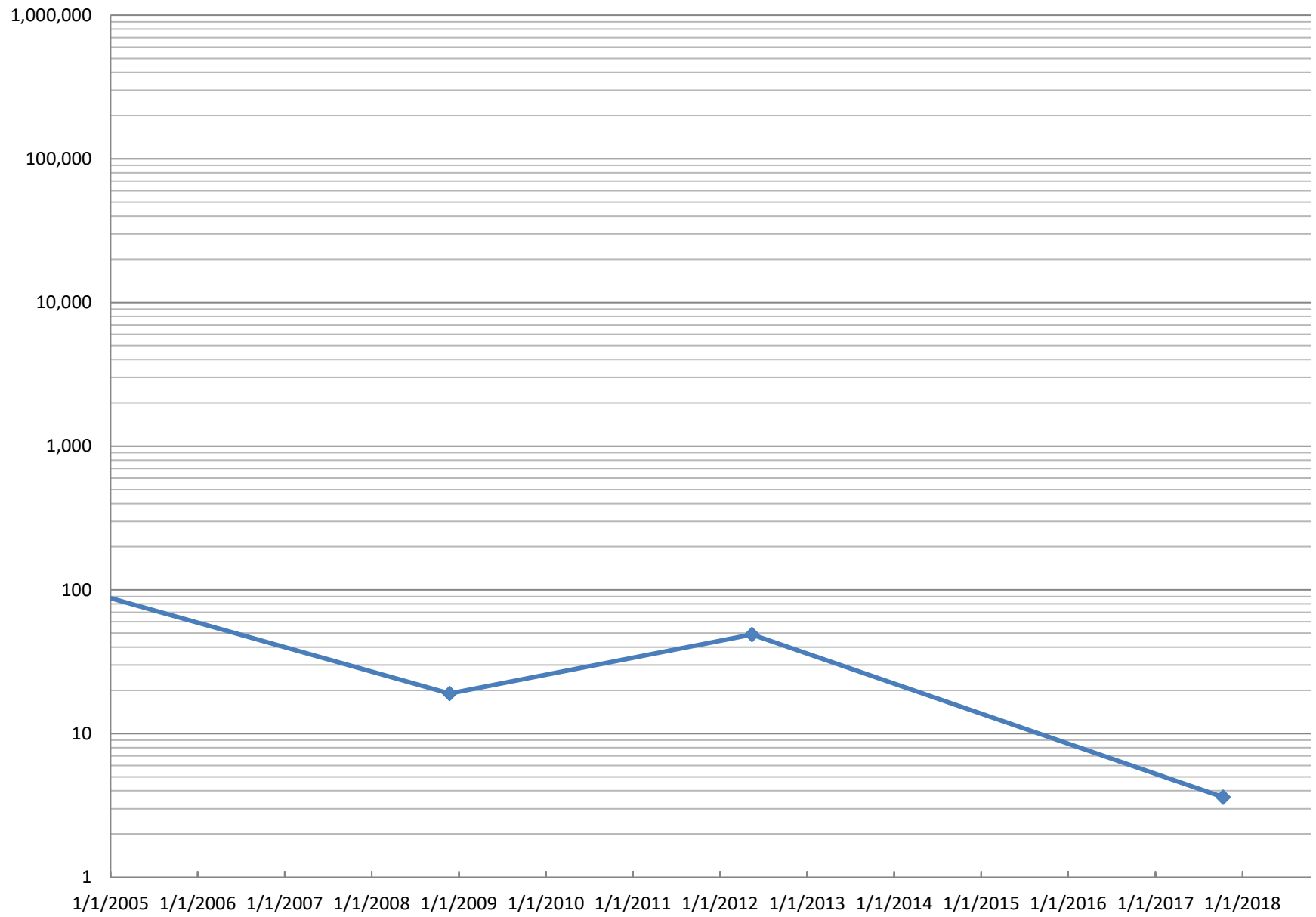
Dissolved Arsenic Concentrations (ug/L) in 2B1-1



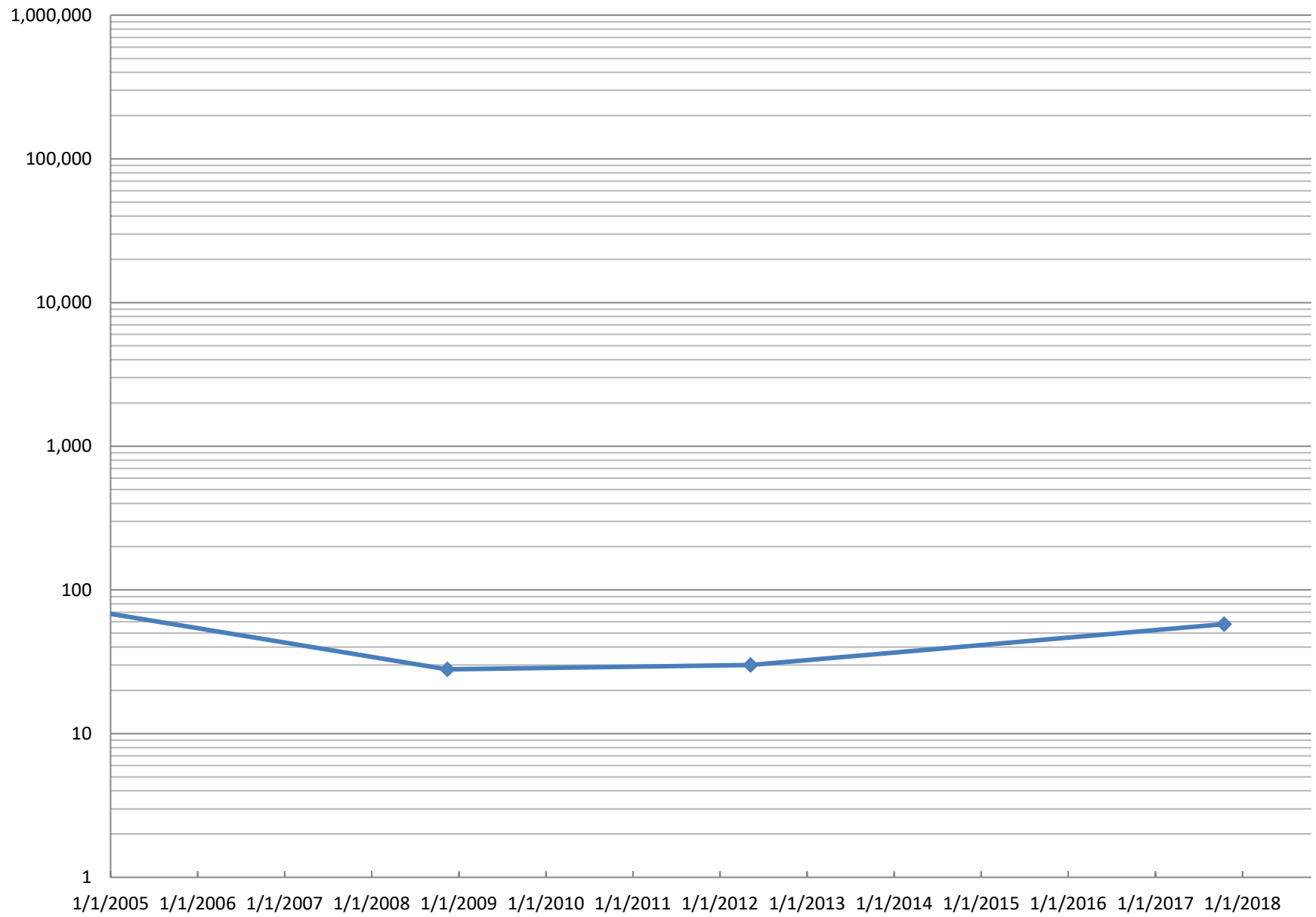
Dissolved Arsenic Concentrations (ug/L) in 2C1-1R



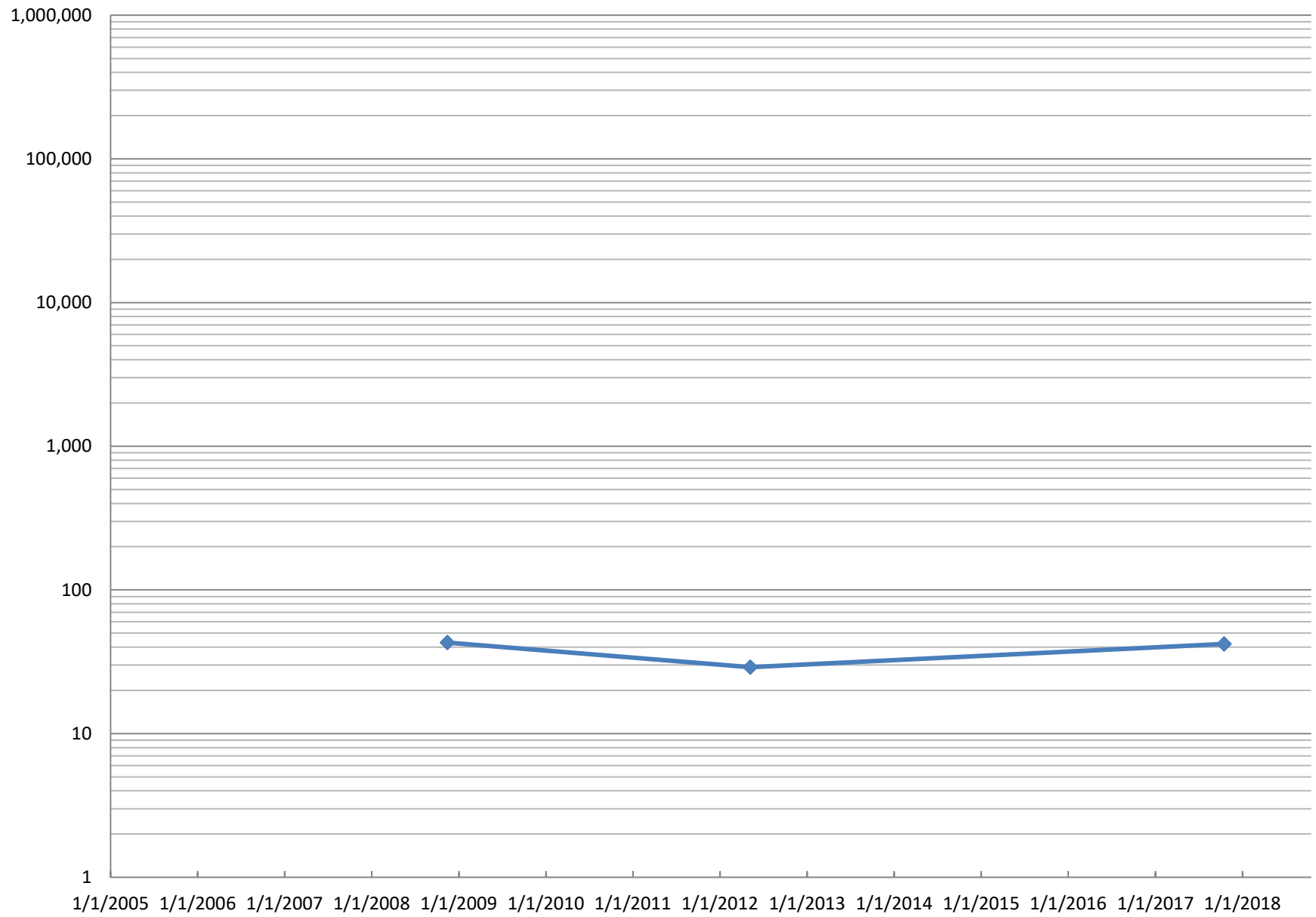
Dissolved Arsenic Concentrations (ug/L) in 2D1-1



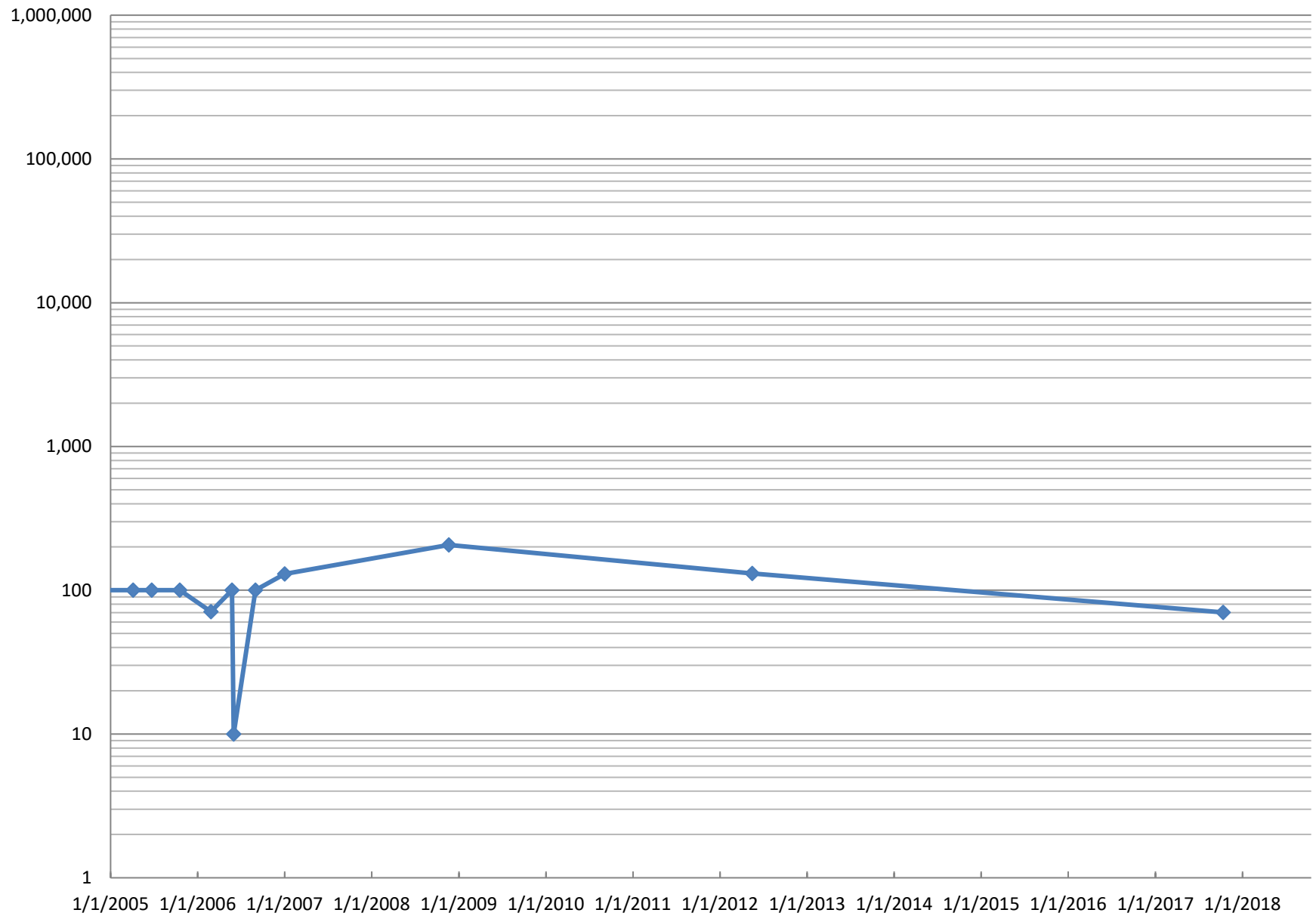
Dissolved Arsenic Concentrations (ug/L) in 3A3-1R



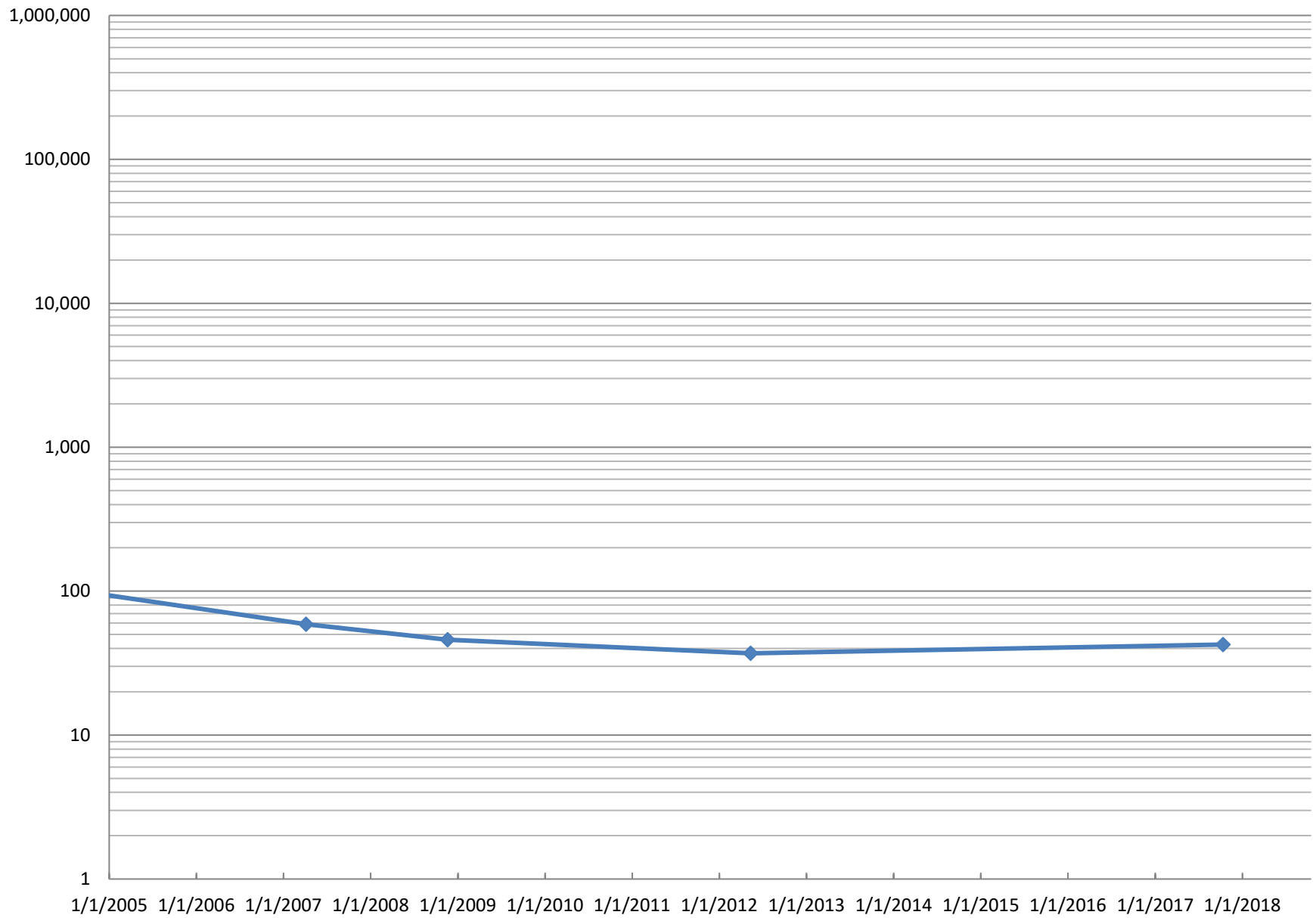
Dissolved Arsenic Concentrations (ug/L) in 3A7-1R



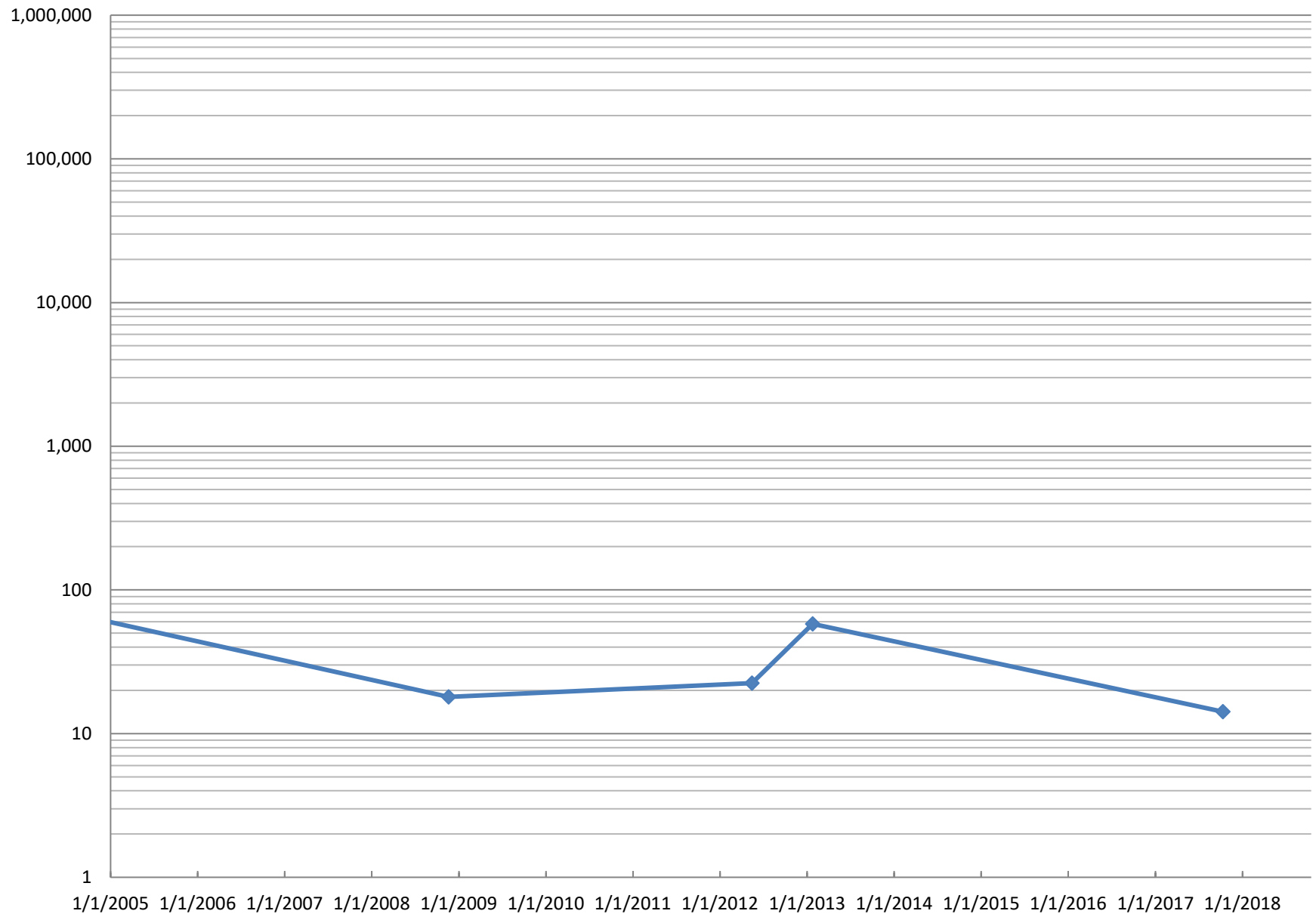
Dissolved Arsenic Concentrations (ug/L) in 3C1-1



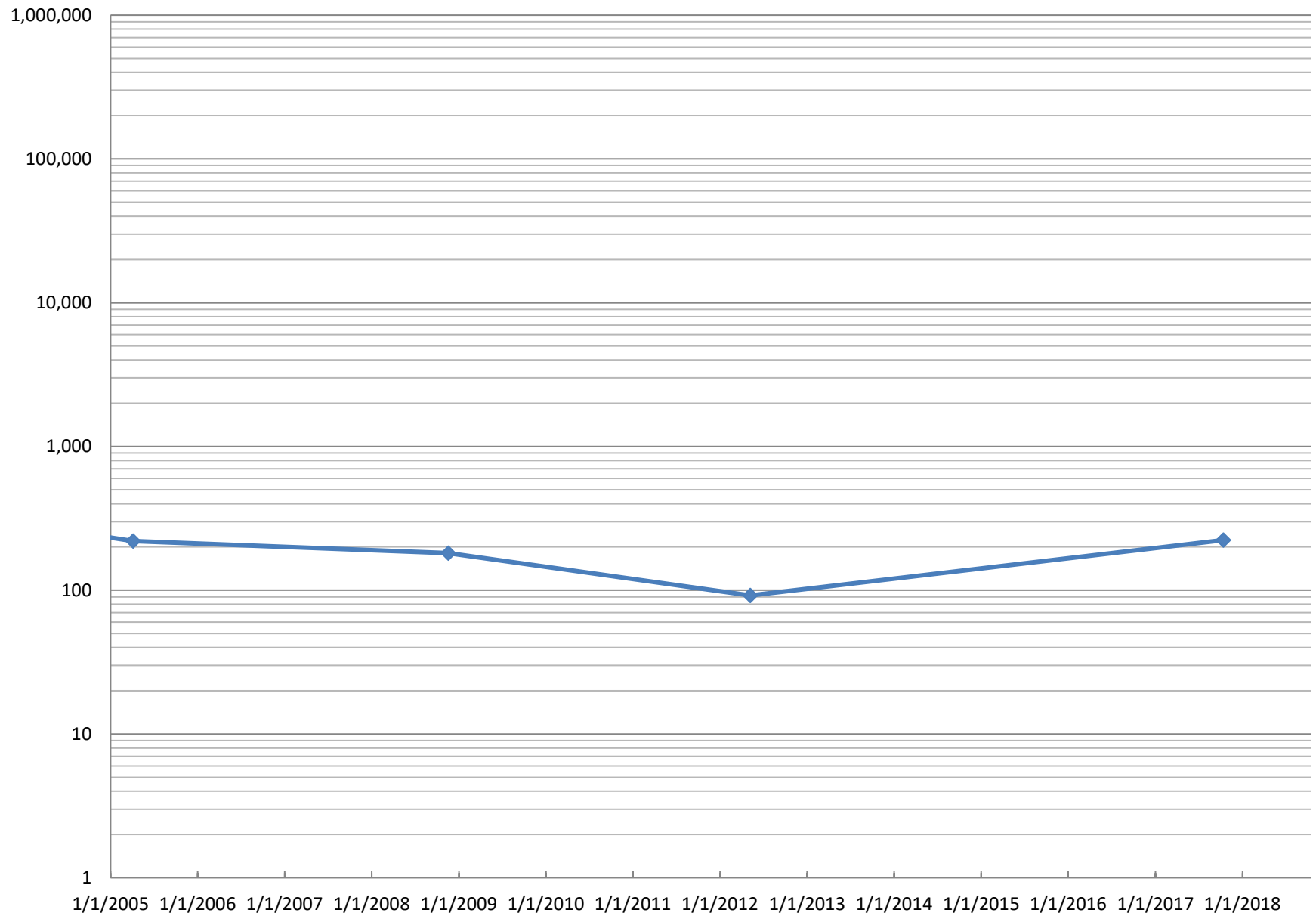
Dissolved Arsenic Concentrations (ug/L) in 3C2-1



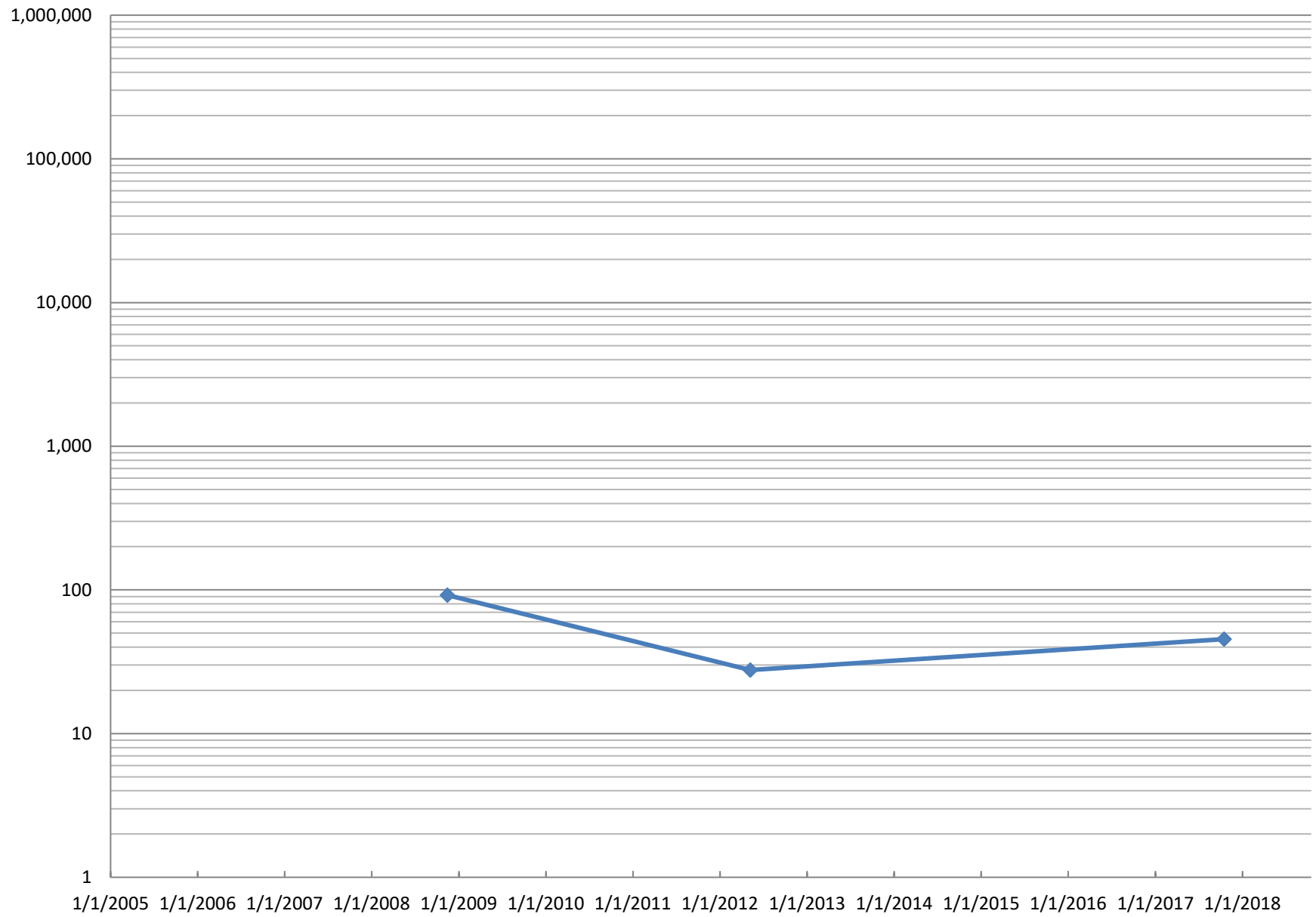
Dissolved Arsenic Concentrations (ug/L) in 3C6-1R



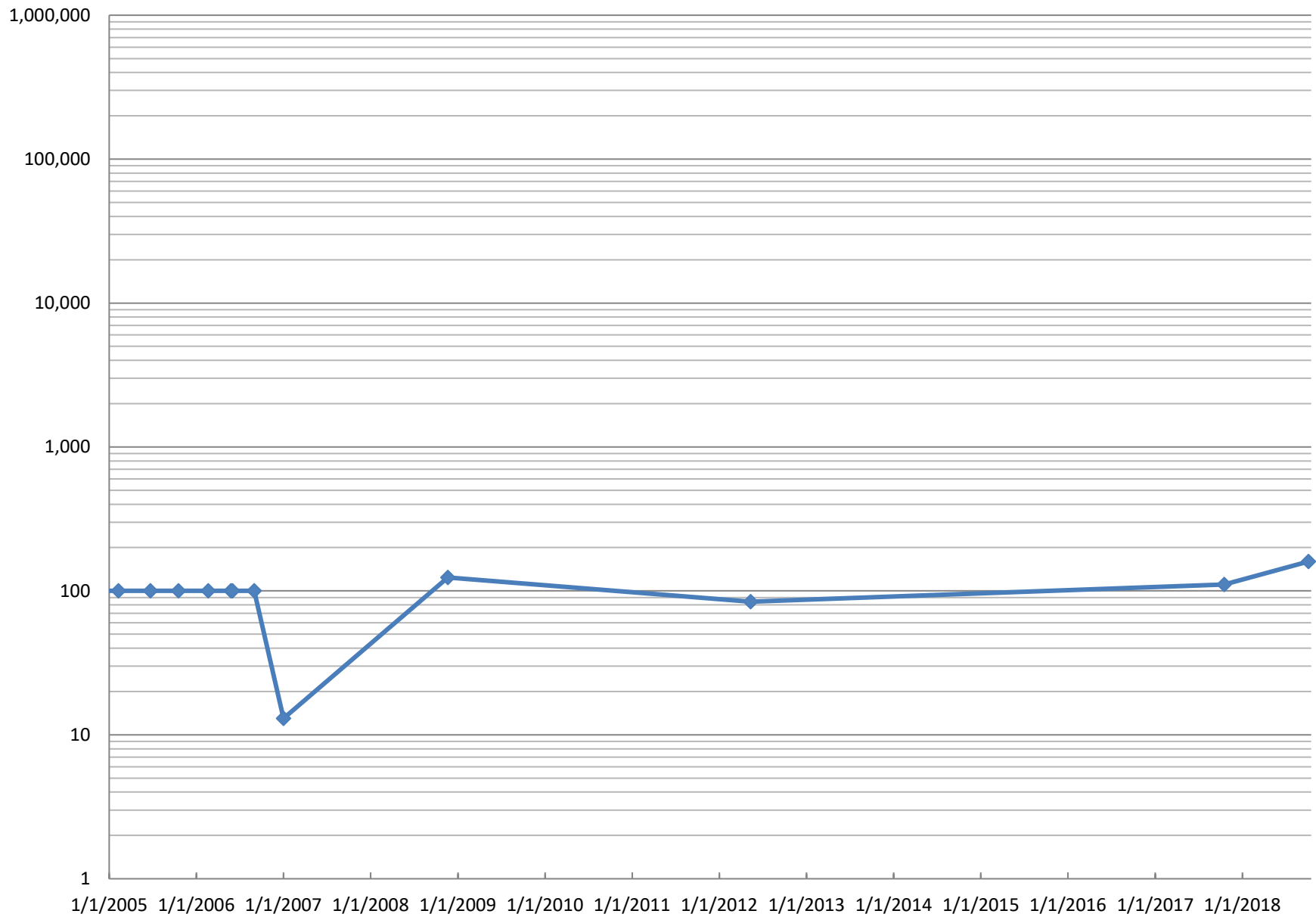
Dissolved Arsenic Concentrations (ug/L) in 4B3-1



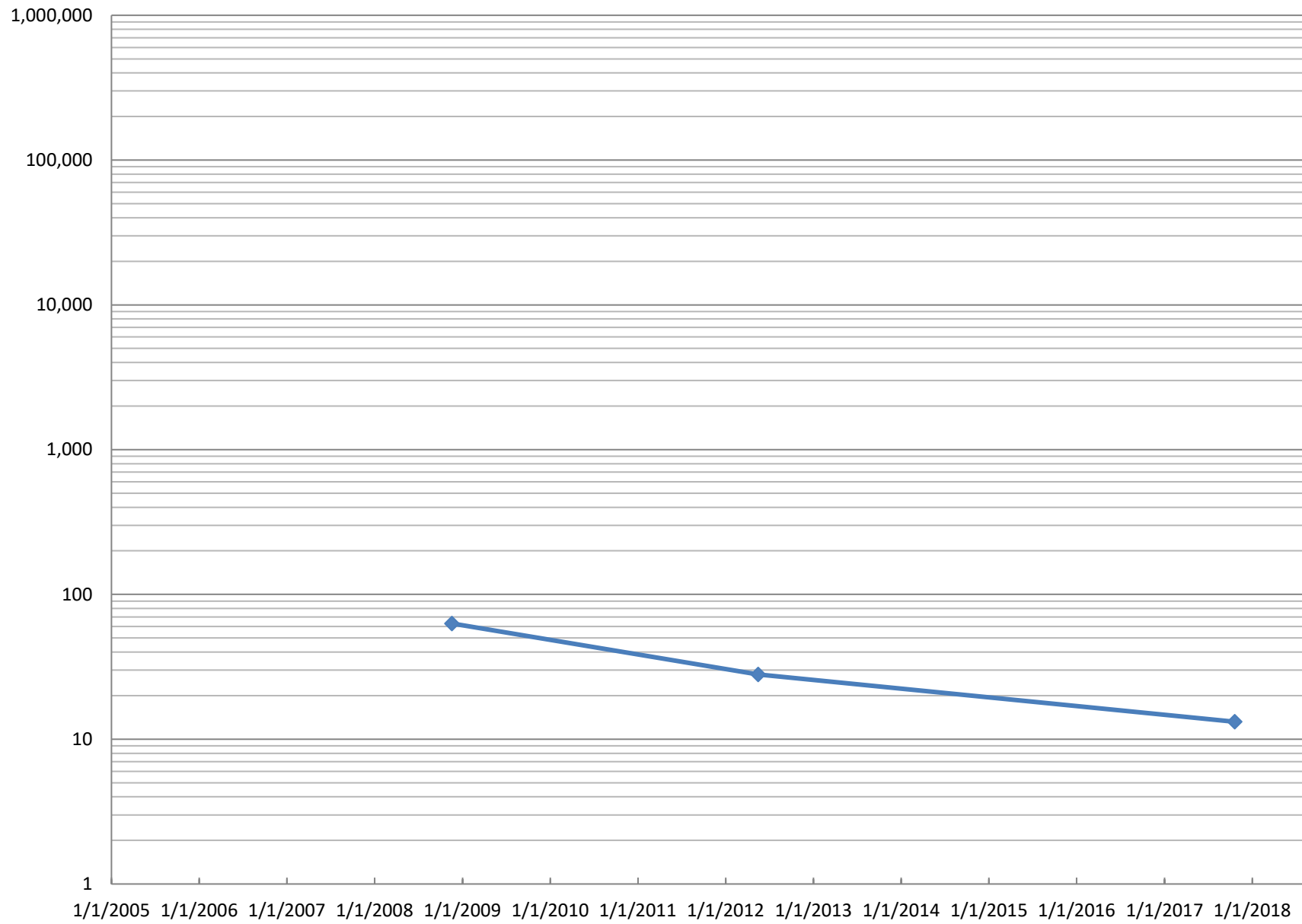
Dissolved Arsenic Concentrations (ug/L) in 4B4-1



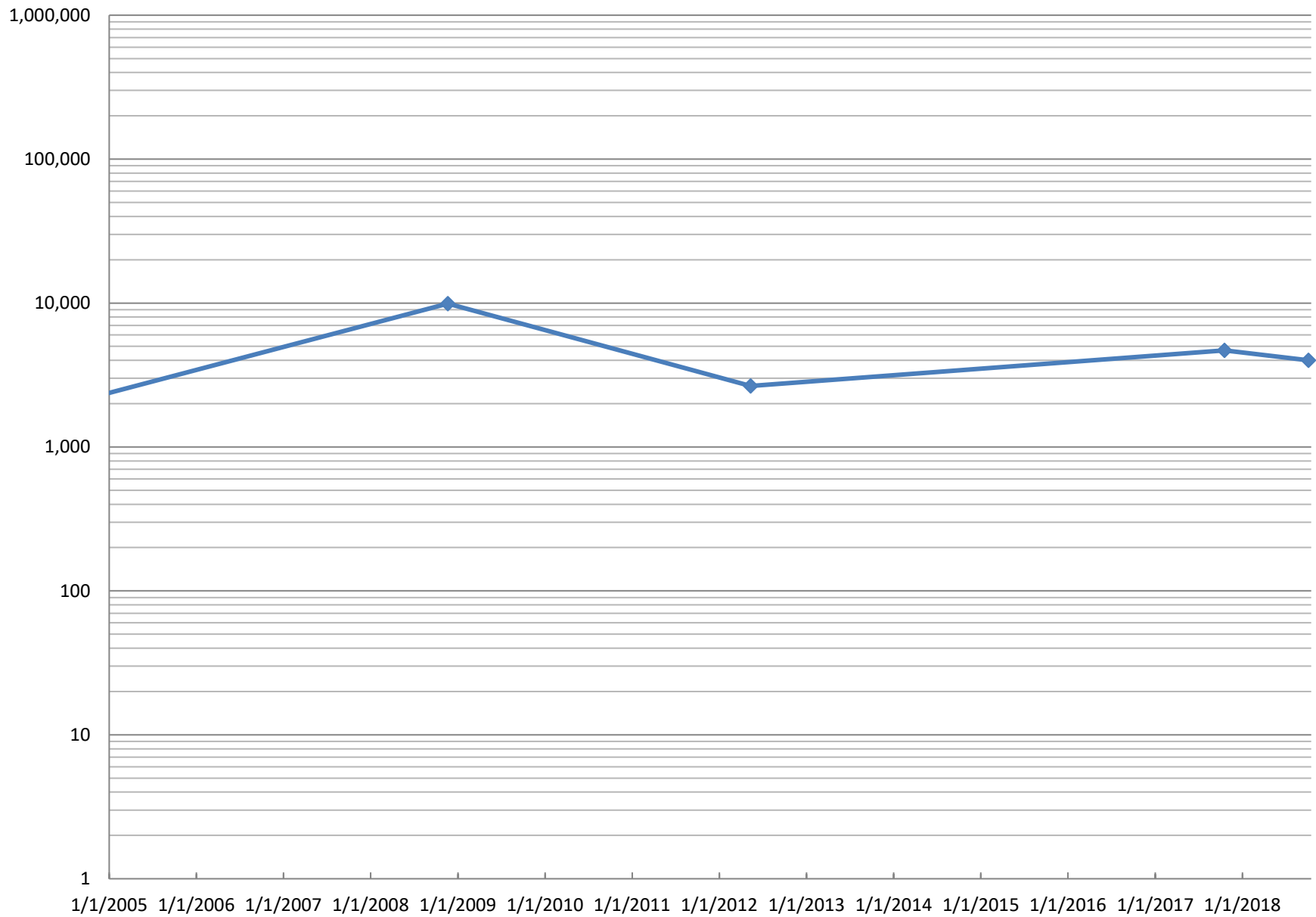
Dissolved Arsenic Concentrations (ug/L) in 4C1-1



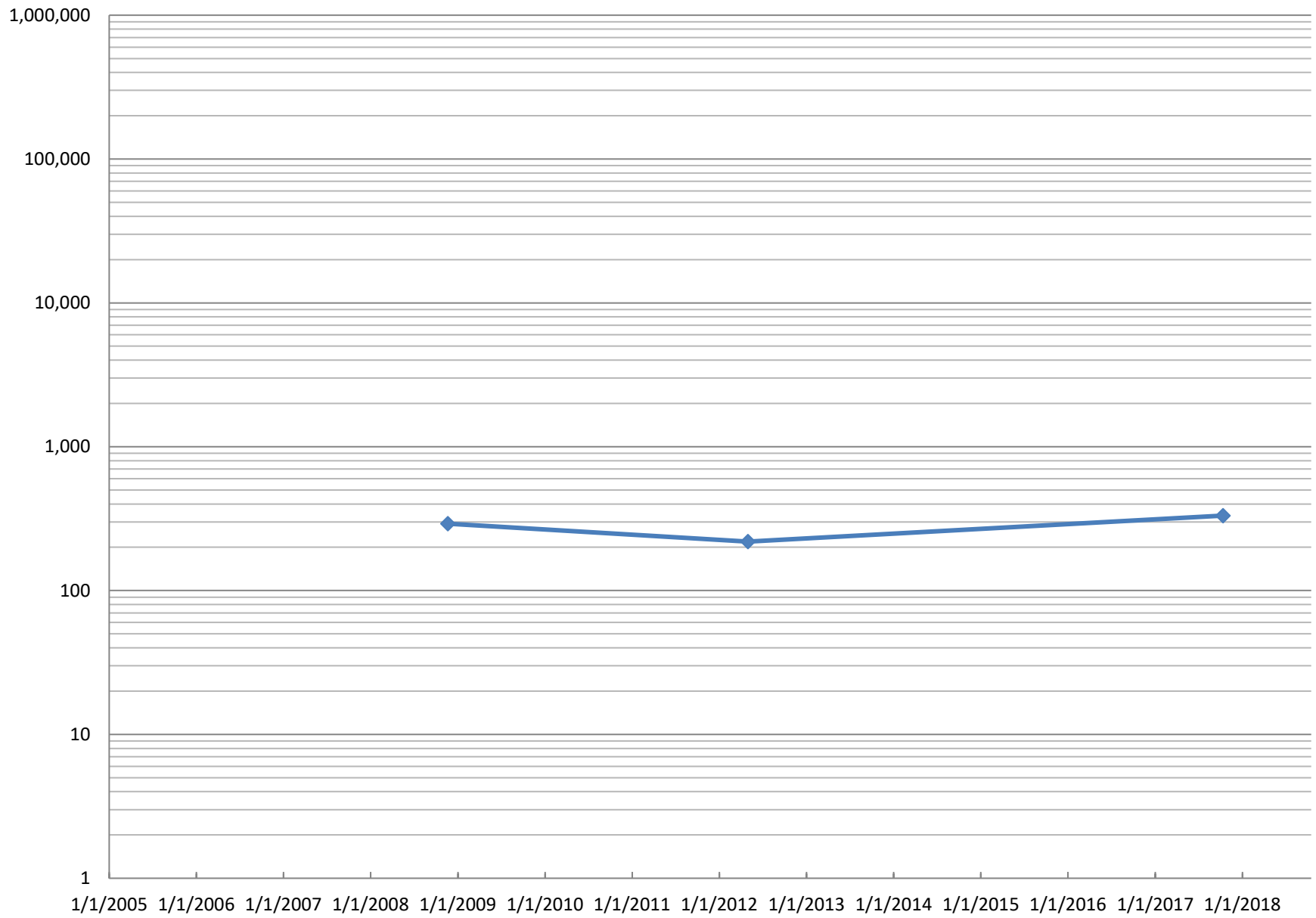
Dissolved Arsenic Concentrations (ug/L) in 4C2-1



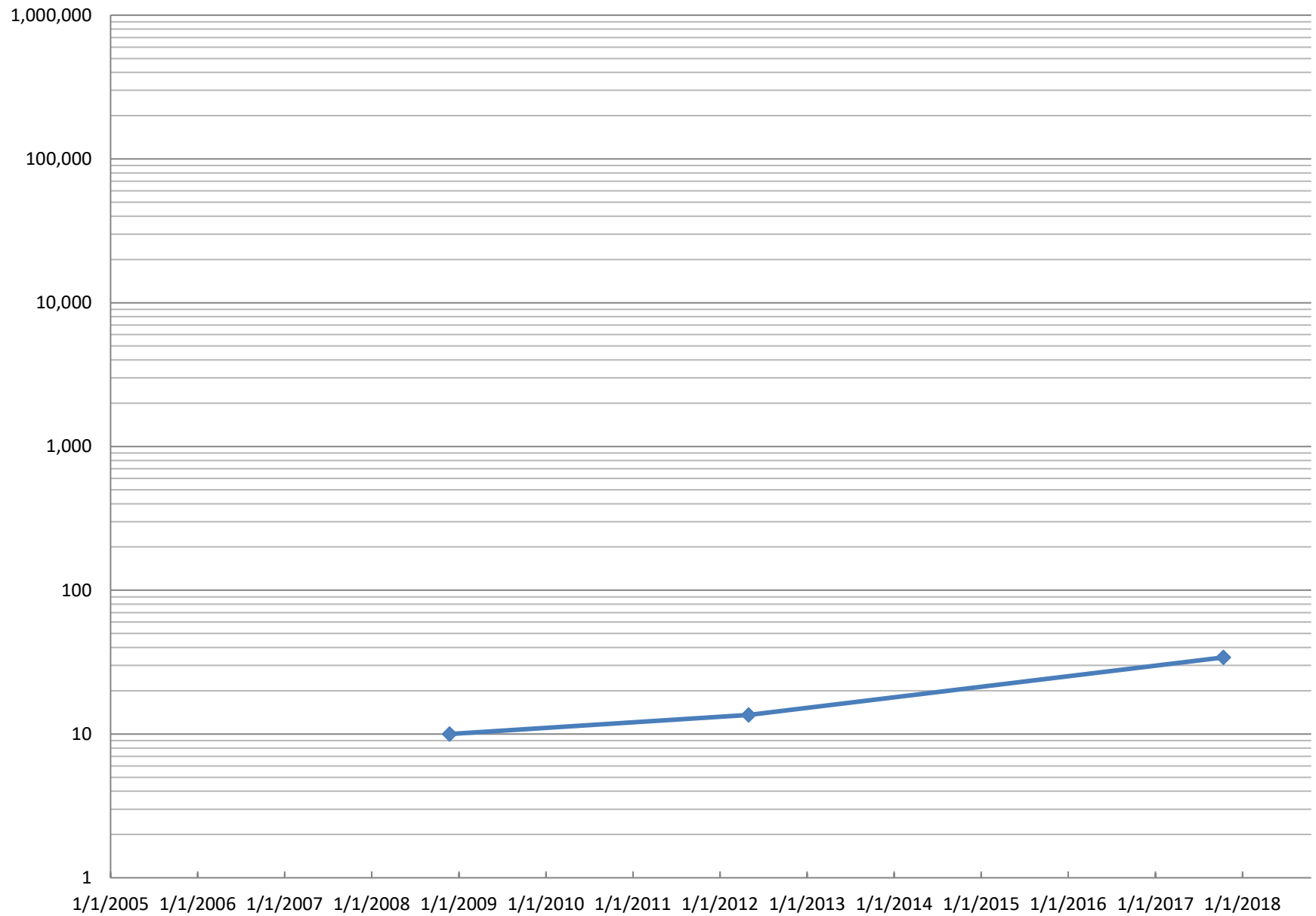
Dissolved Arsenic Concentrations (ug/L) in 4D1-1



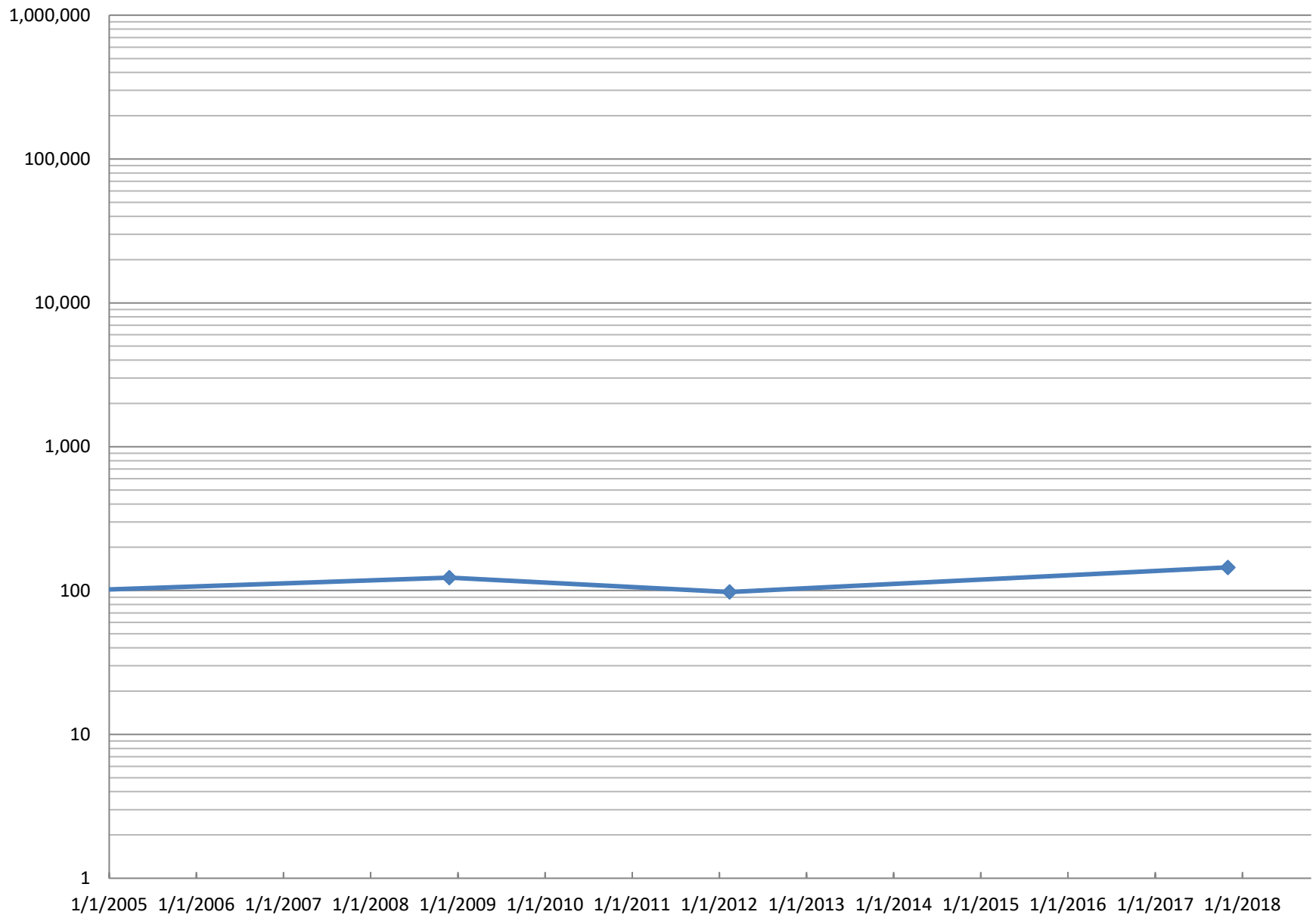
Dissolved Arsenic Concentrations (ug/L) in 4D2-1



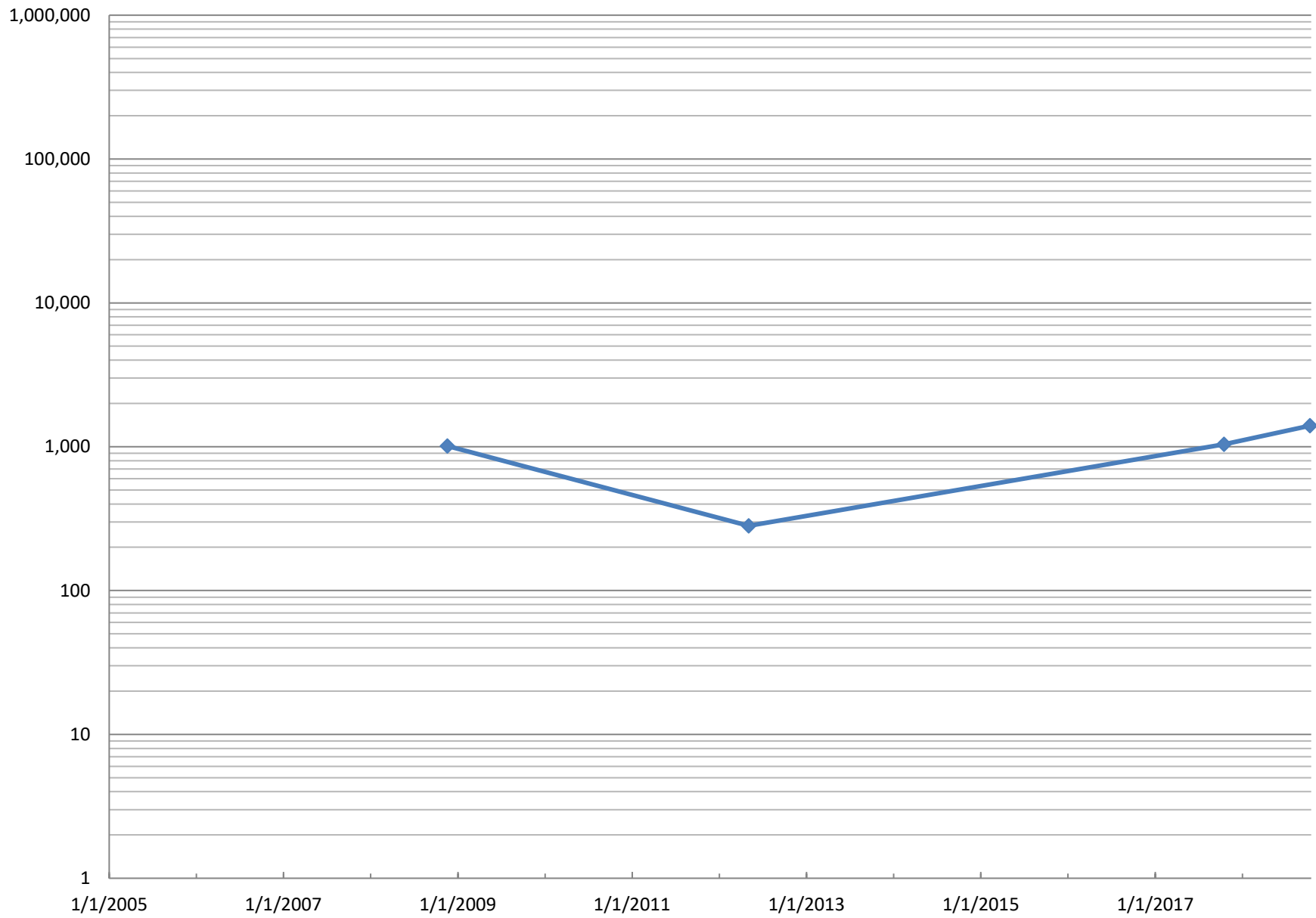
Dissolved Arsenic Concentrations (ug/L) in 4F1-1



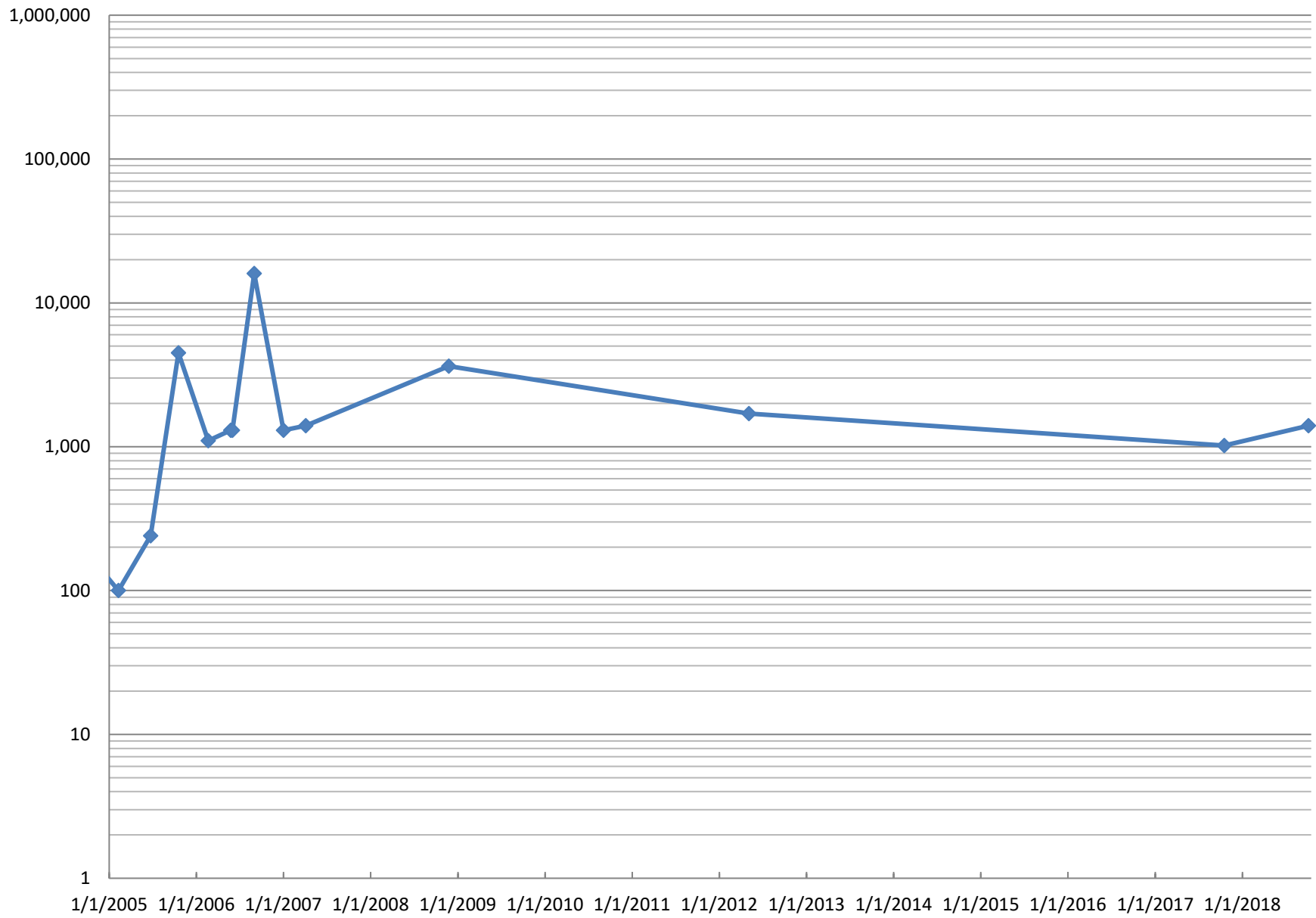
Dissolved Arsenic Concentrations (ug/L) in 4G1-1



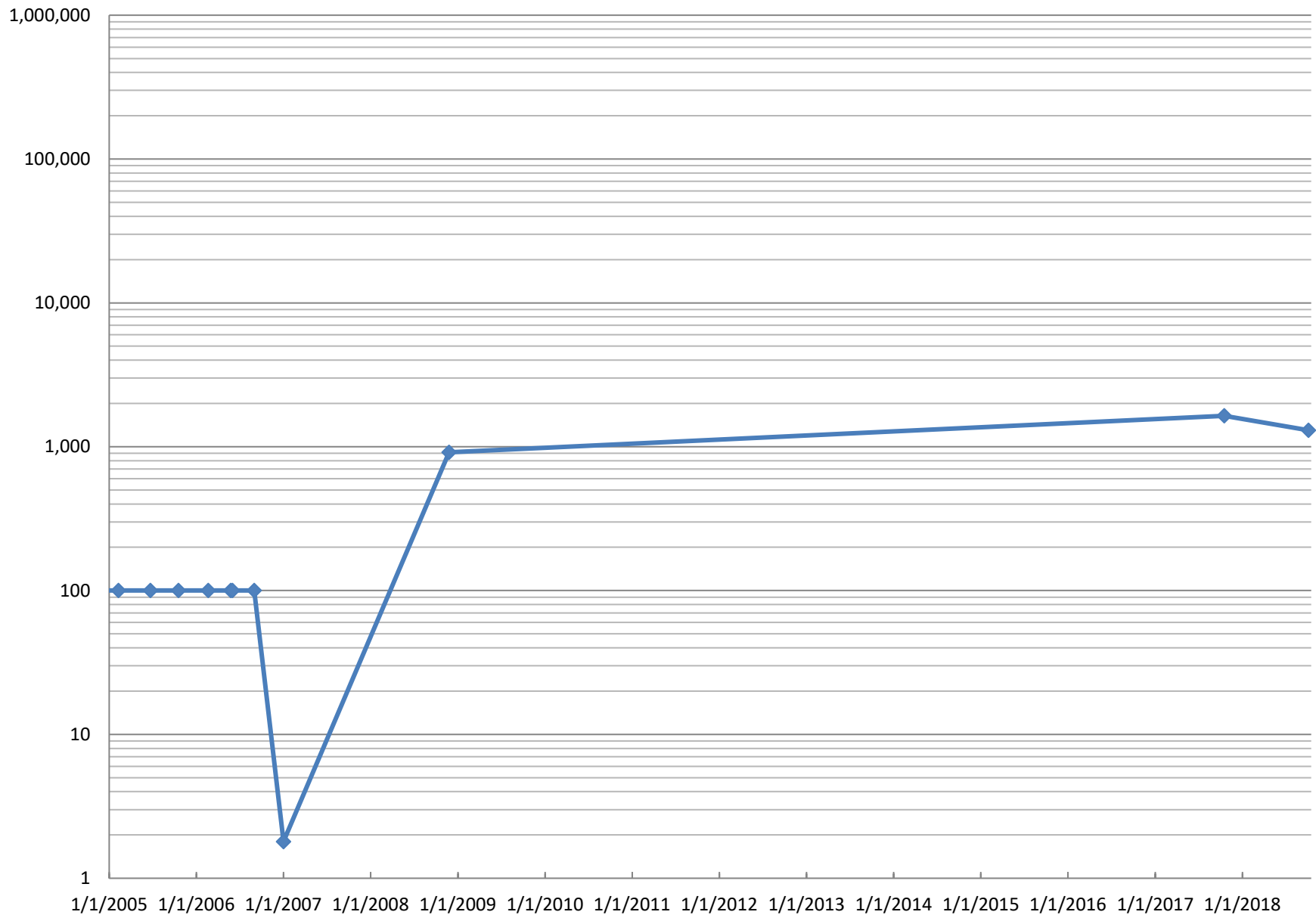
Dissolved Arsenic Concentrations (ug/L) in 5B1-1R



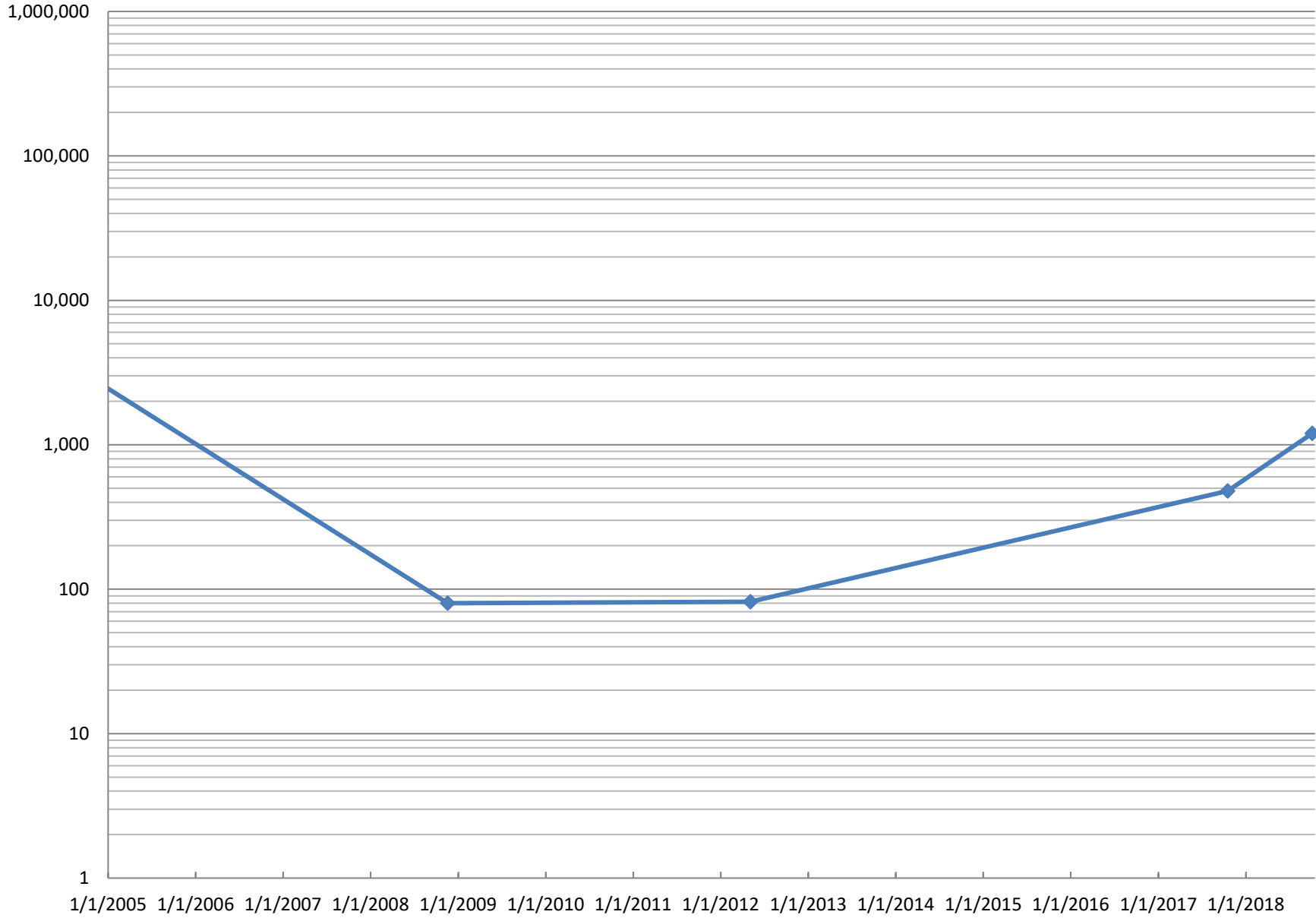
Dissolved Arsenic Concentrations (ug/L) in 5C12-1



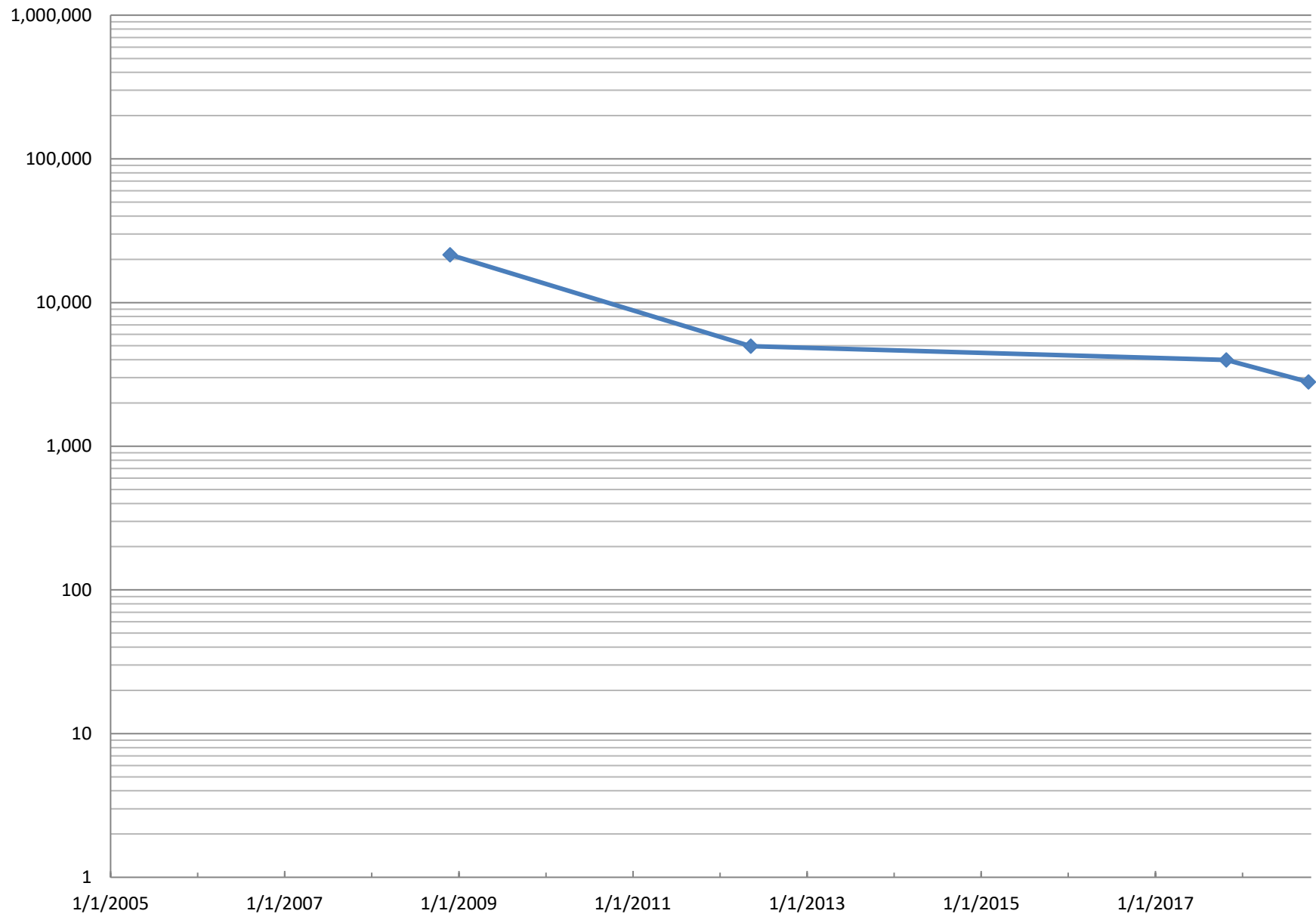
Dissolved Arsenic Concentrations (ug/L) in 5C13-1



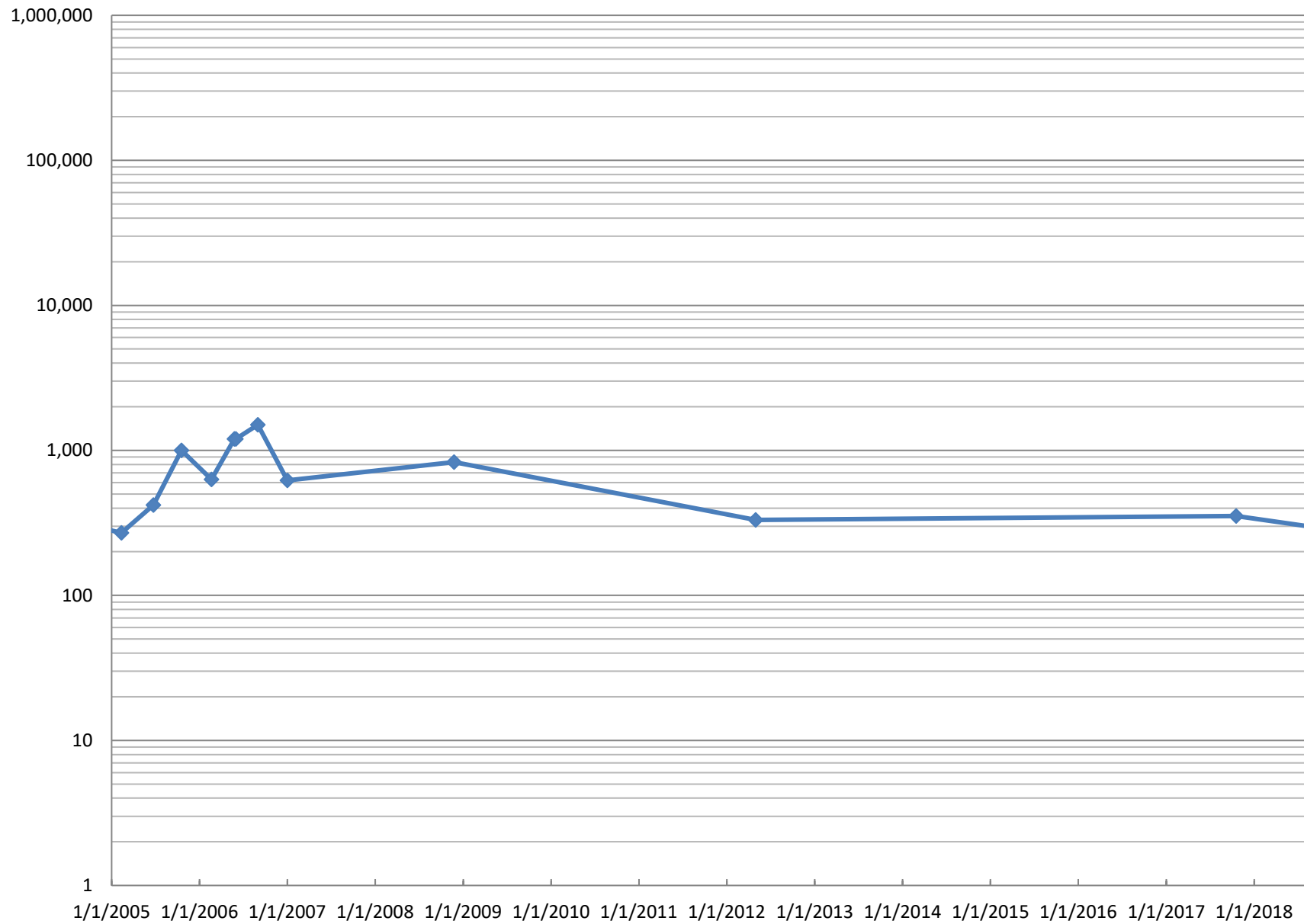
Dissolved Arsenic Concentrations (ug/L) in 5C16-1R



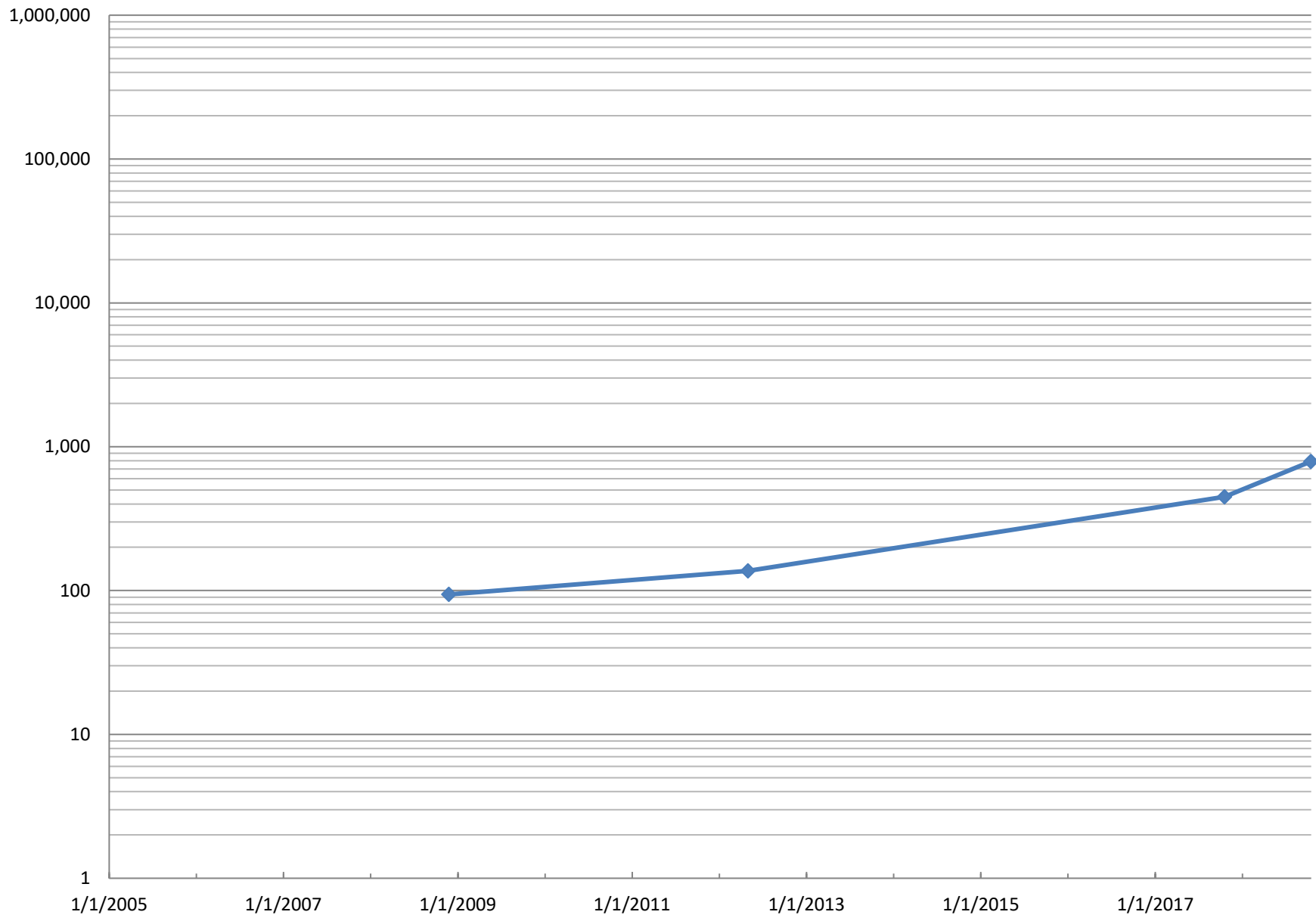
Dissolved Arsenic Concentrations (ug/L) in 5D2-1R



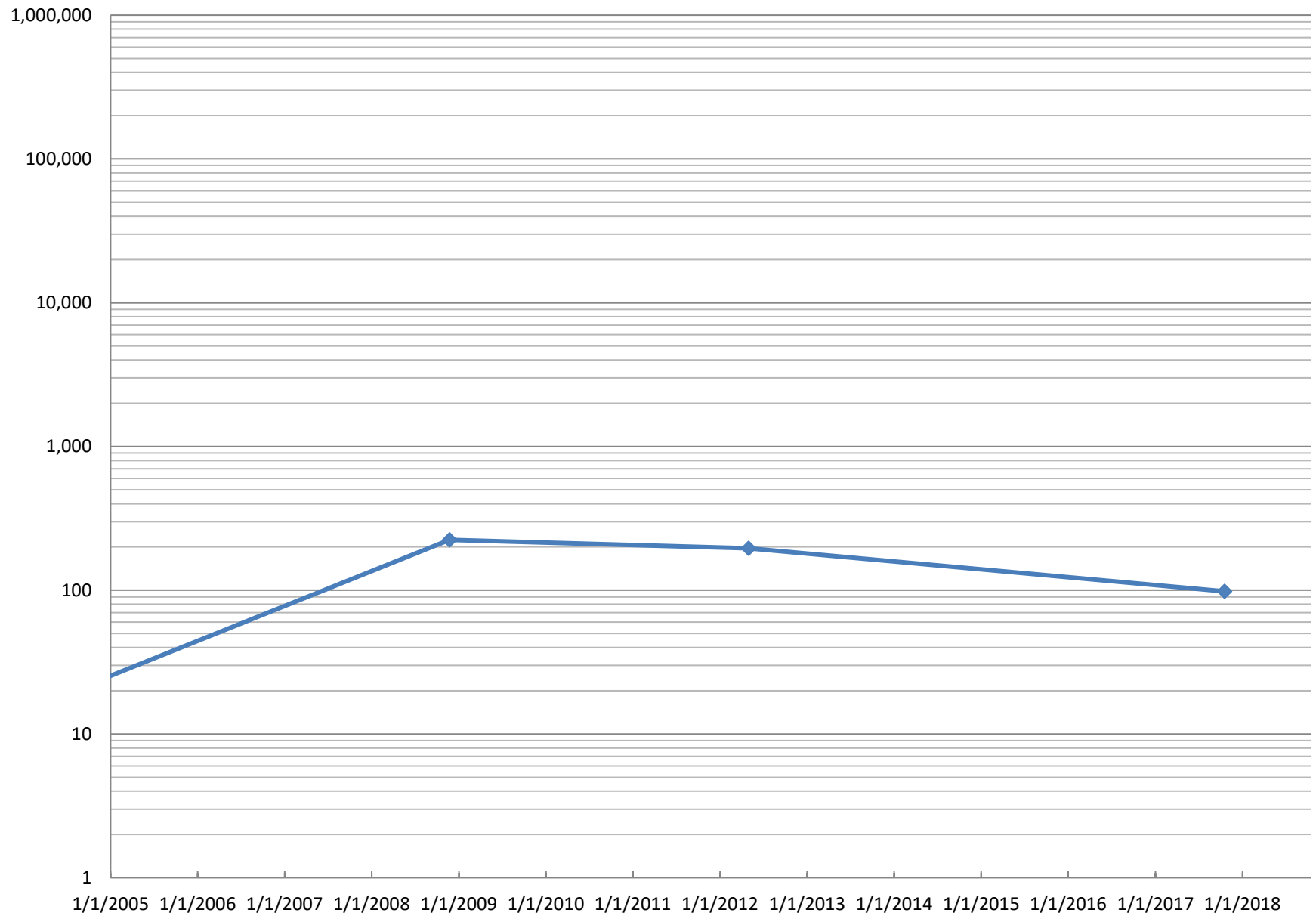
Dissolved Arsenic Concentrations (ug/L) in 5E2-1



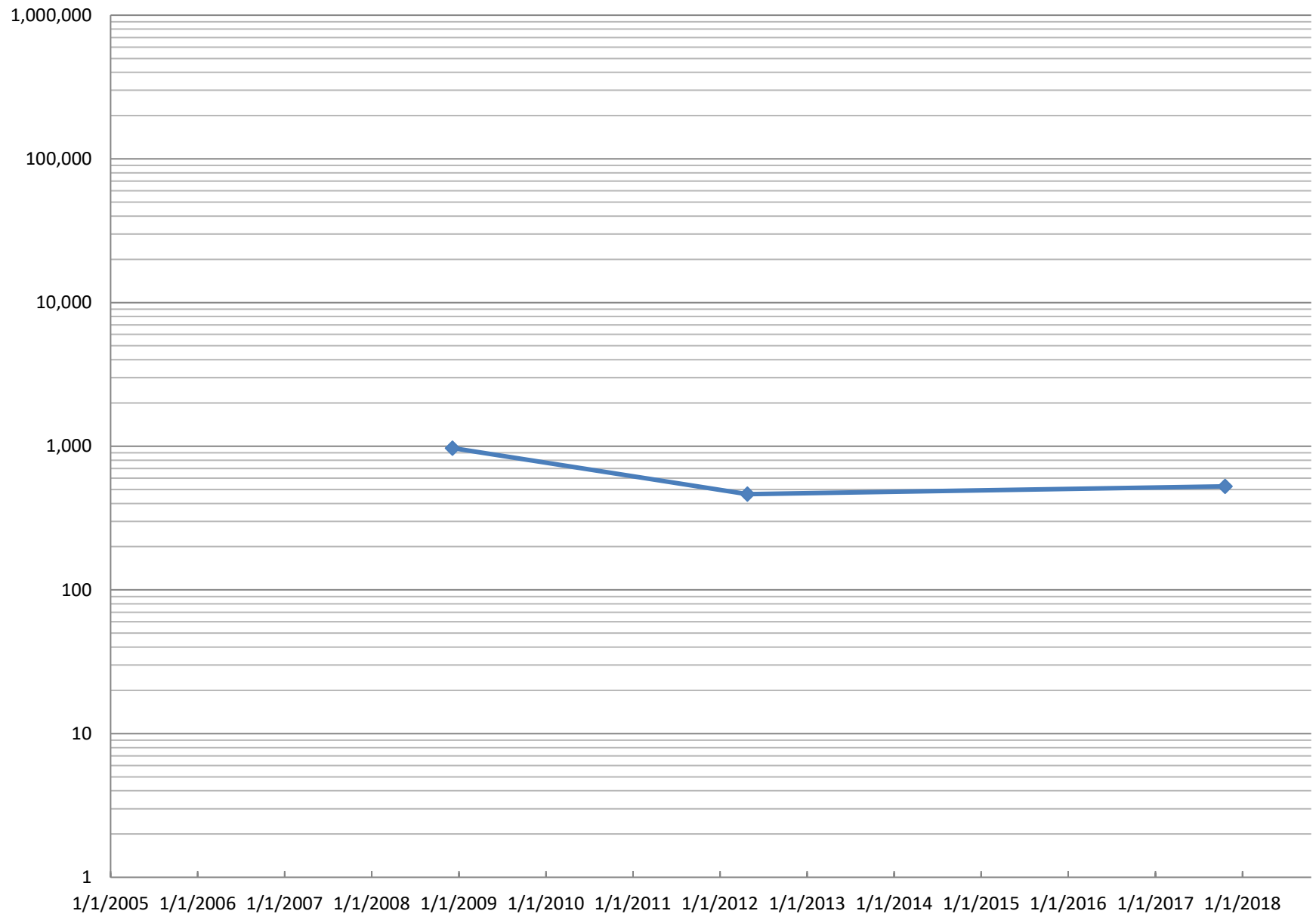
Dissolved Arsenic Concentrations (ug/L) in 5E8-1



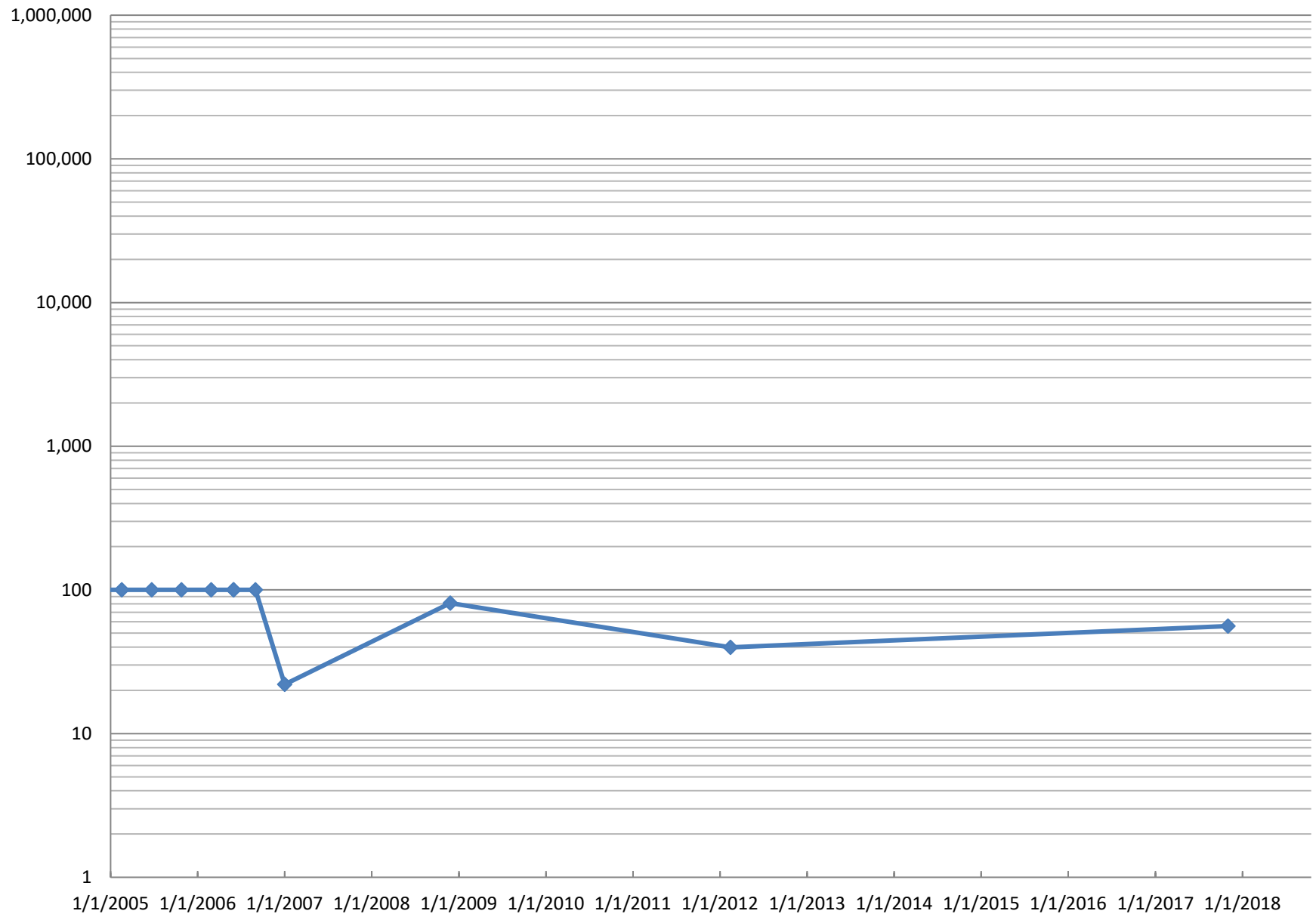
Dissolved Arsenic Concentrations (ug/L) in 5F1-1



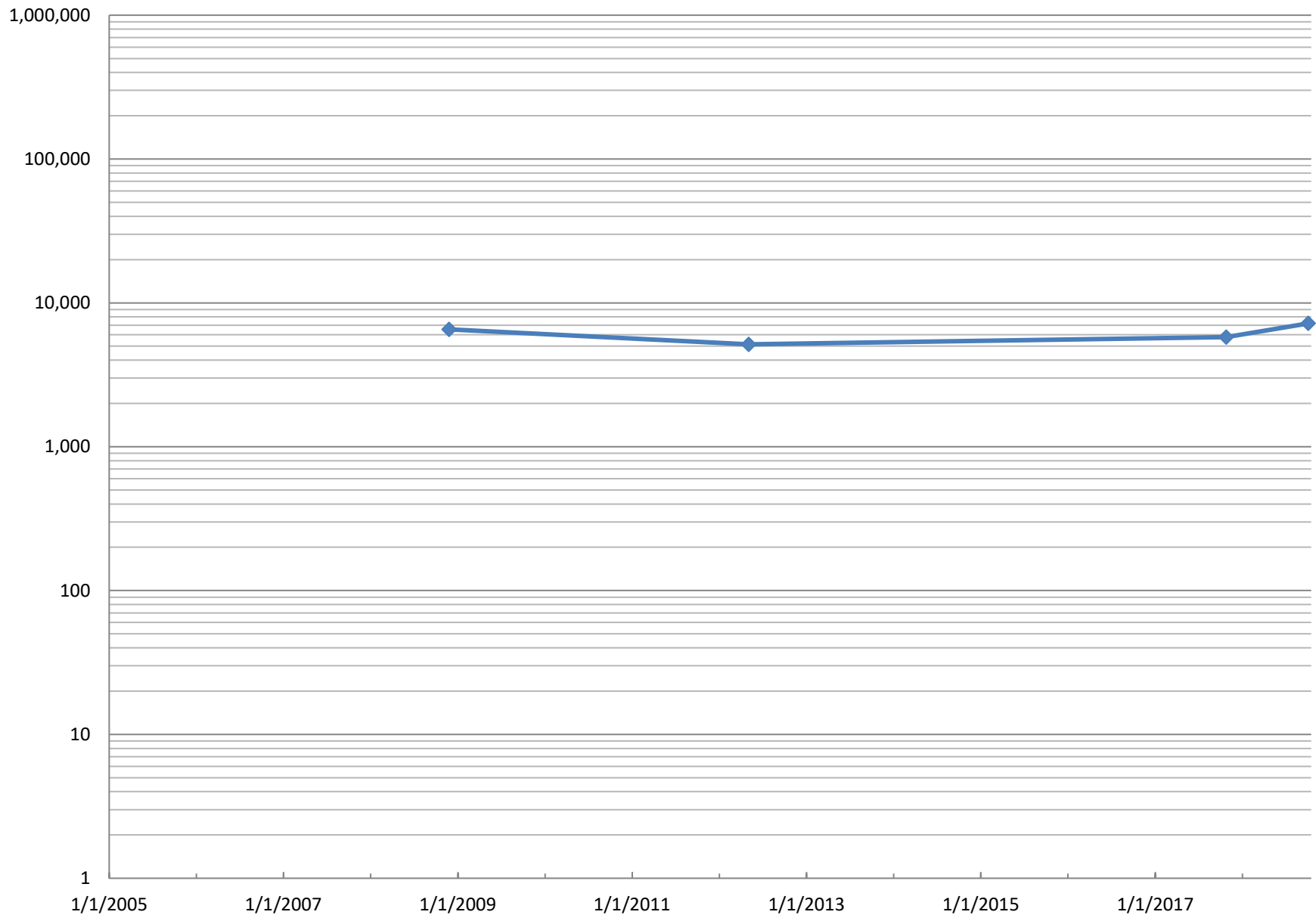
Dissolved Arsenic Concentrations (ug/L) in 5G1-1



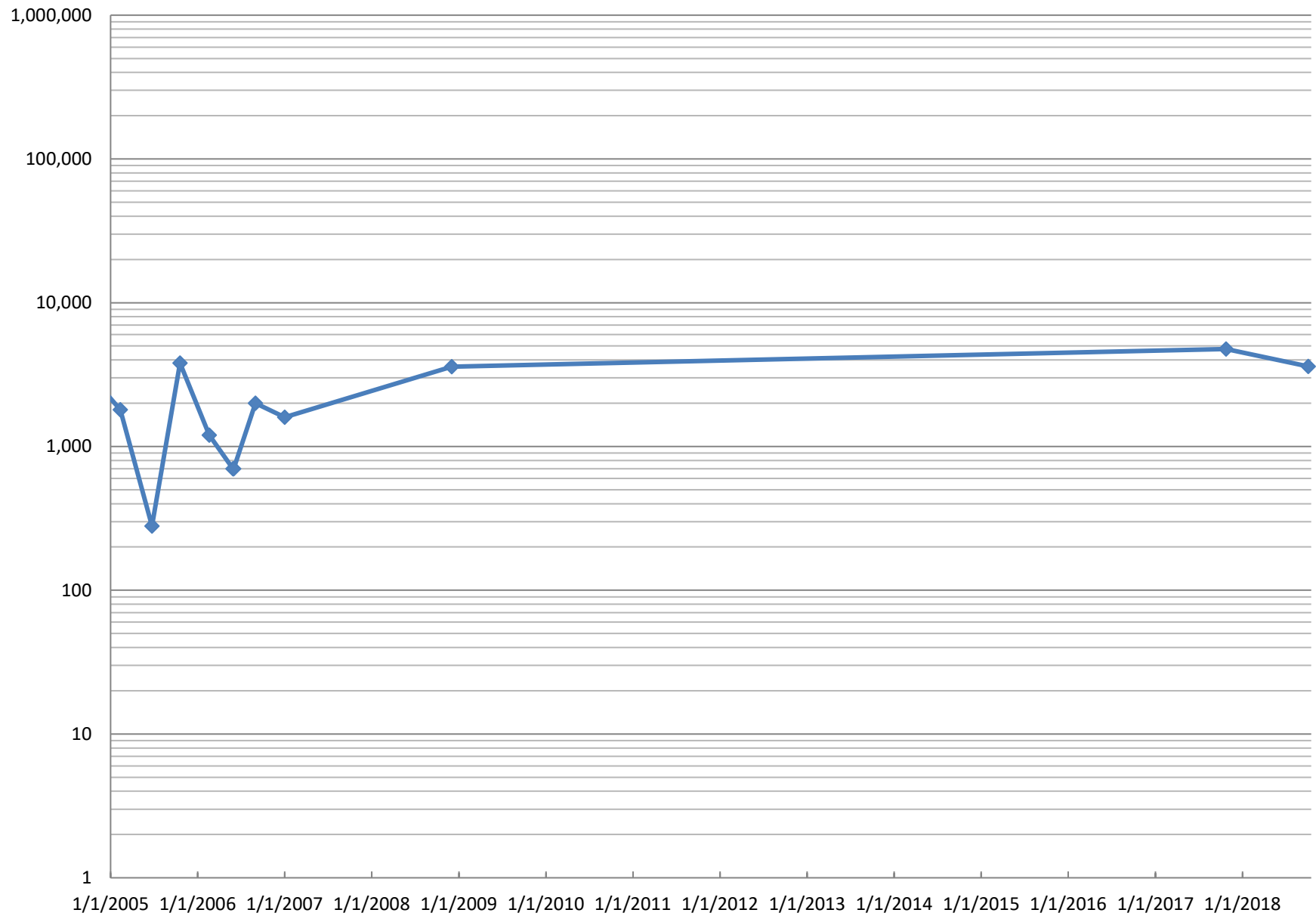
Dissolved Arsenic Concentrations (ug/L) in 5H1-1



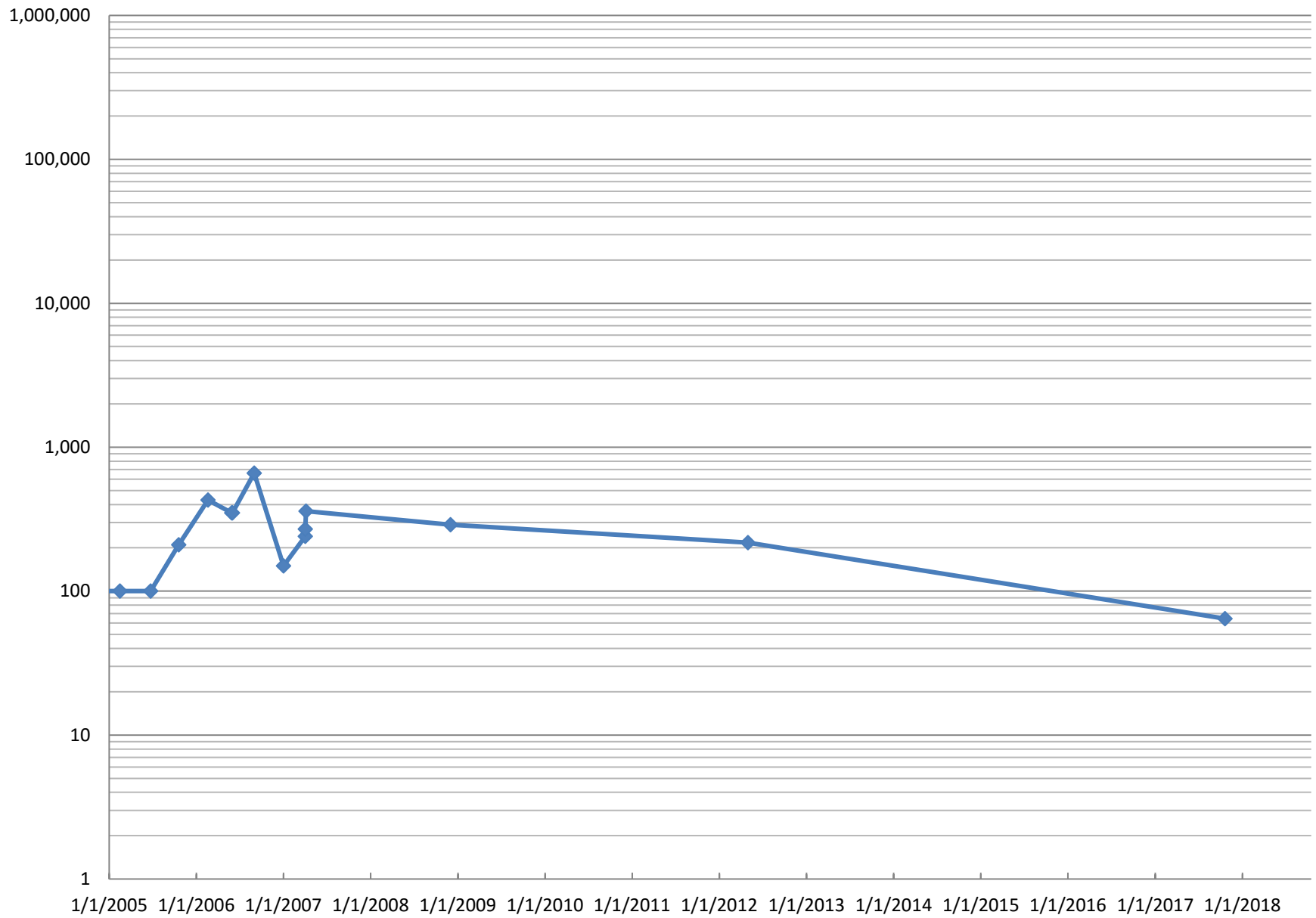
Dissolved Arsenic Concentrations (ug/L) in 6D25-1



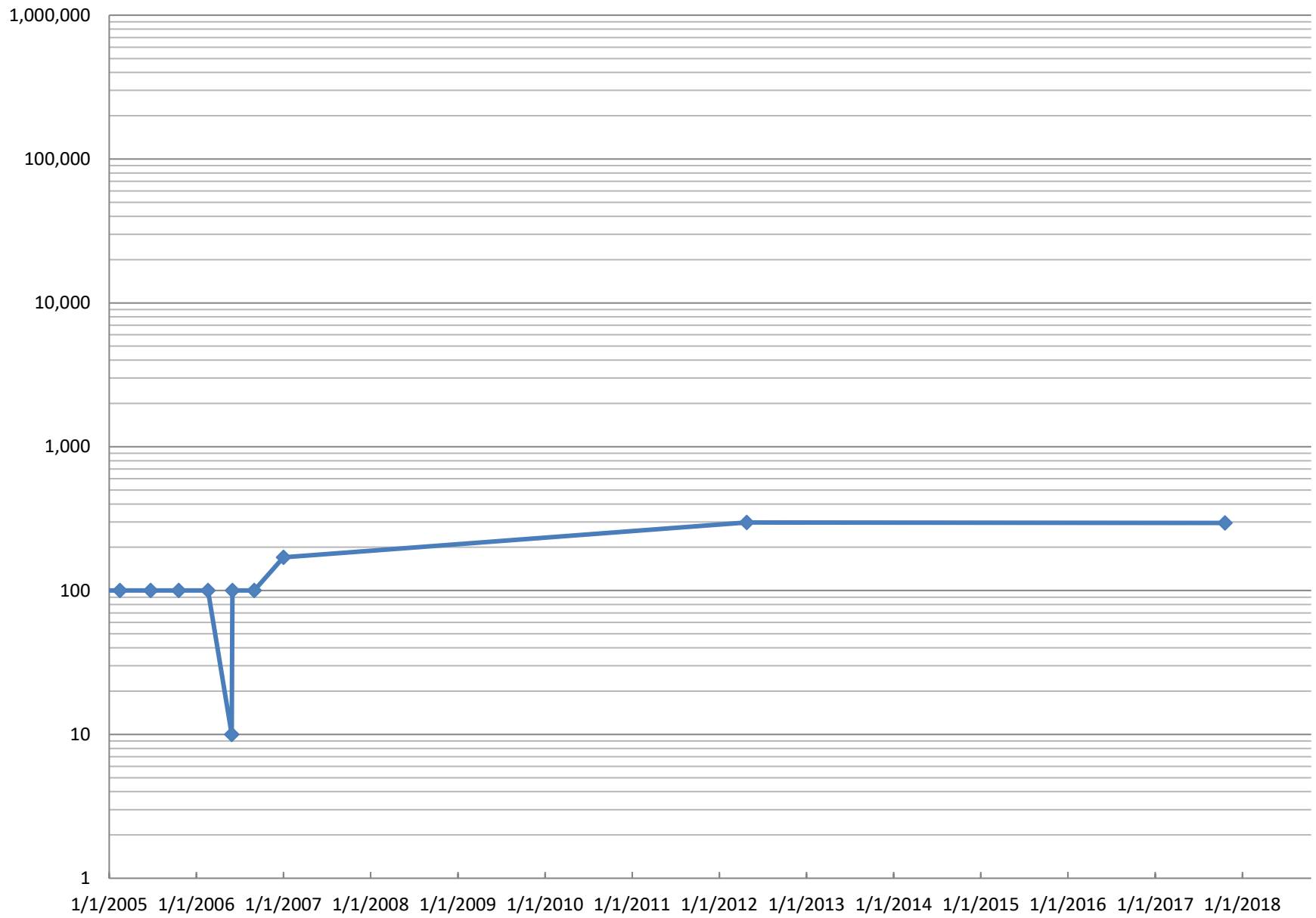
Dissolved Arsenic Concentrations (ug/L) in 6E6-1



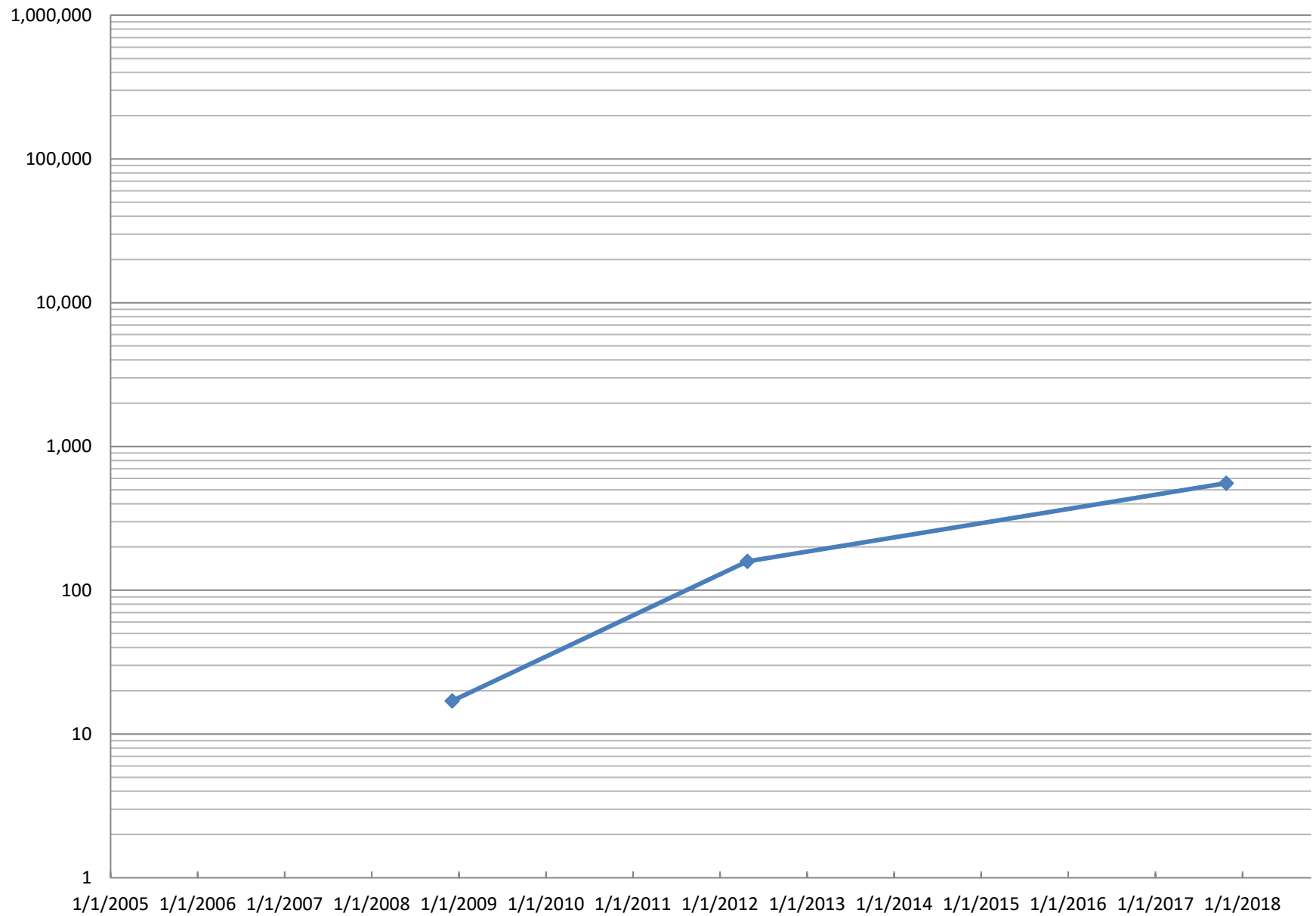
Dissolved Arsenic Concentrations (ug/L) in 6F2-1



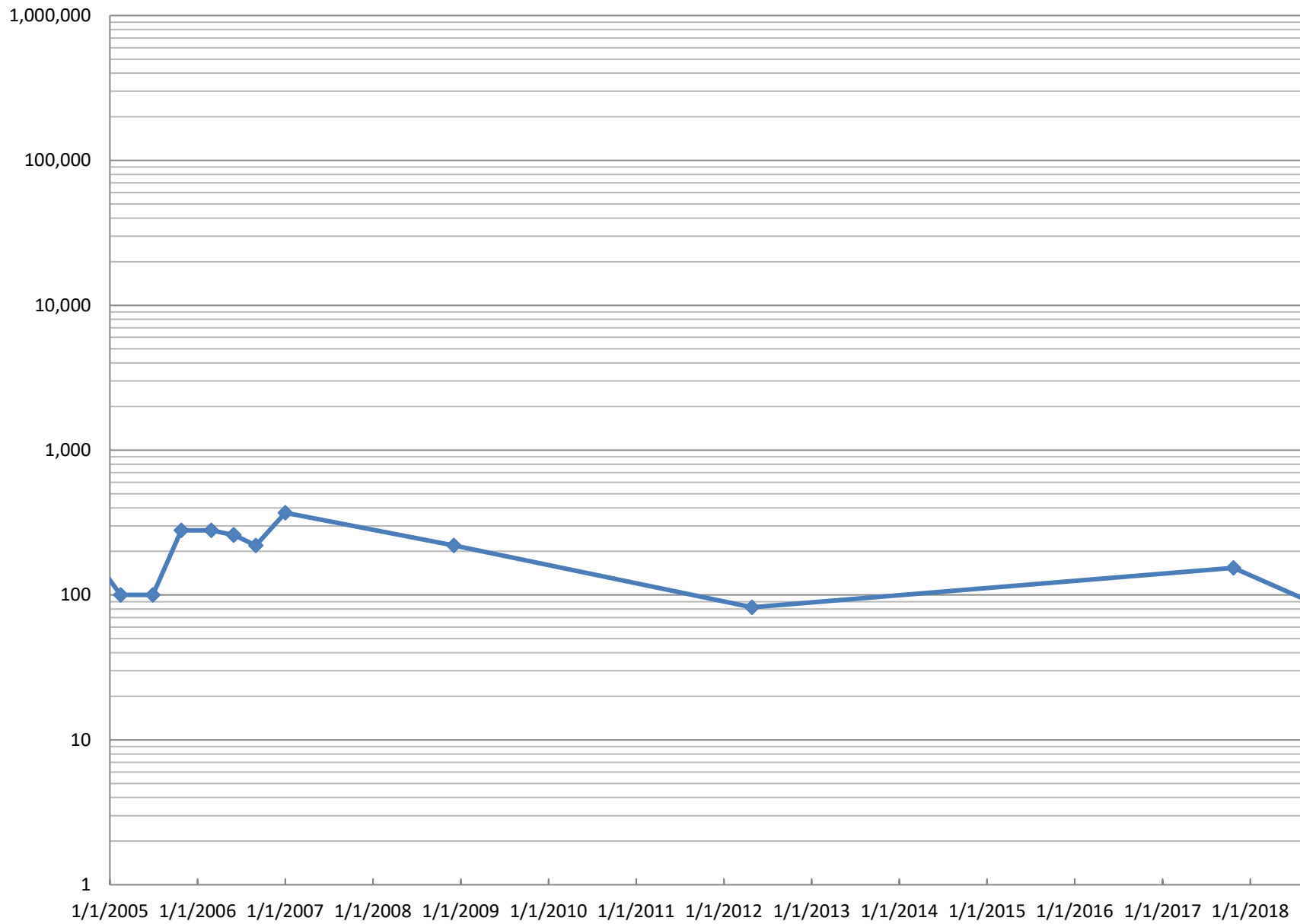
Dissolved Arsenic Concentrations (ug/L) in 6G1-1



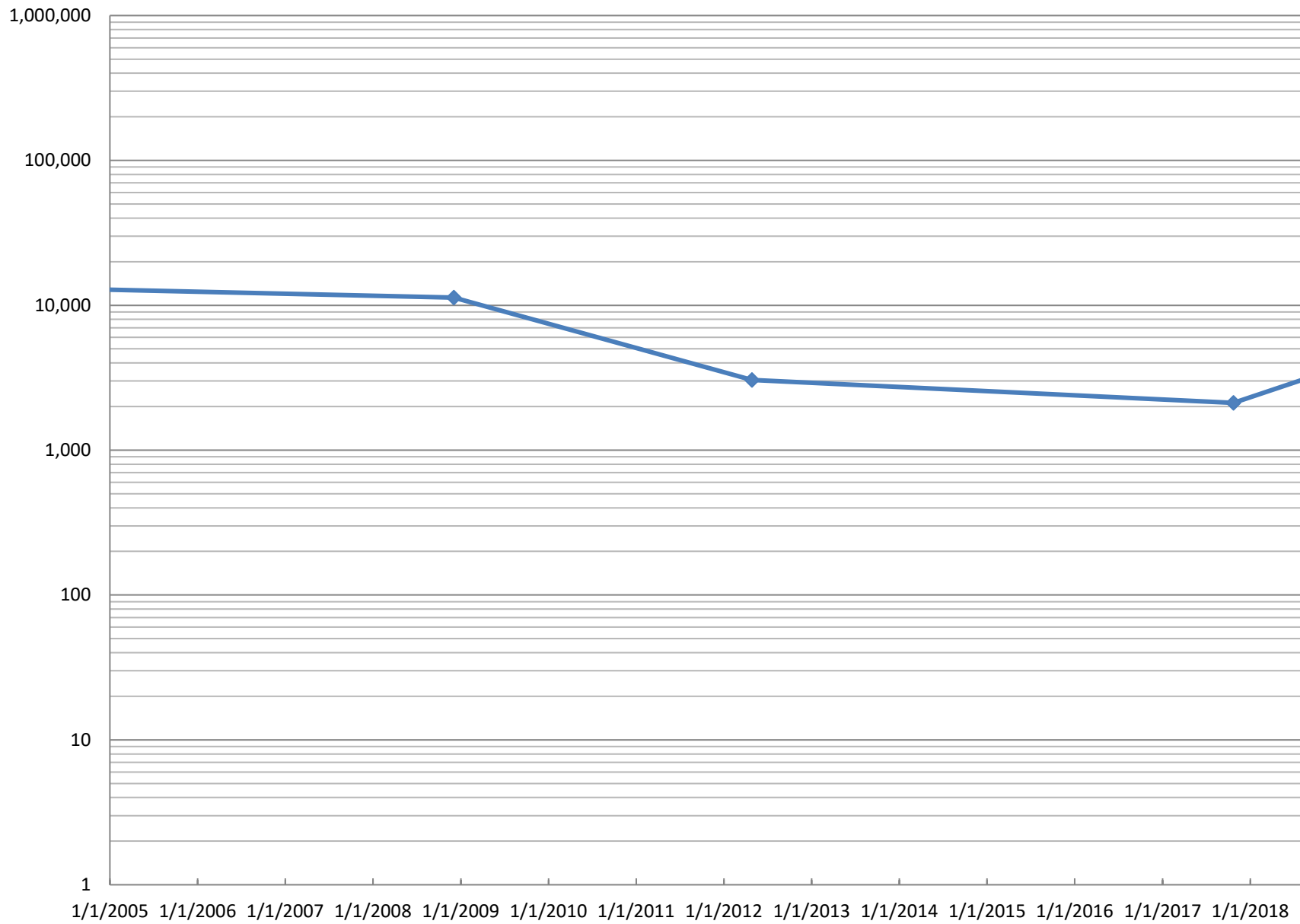
Dissolved Arsenic Concentrations (ug/L) in 6H1-1



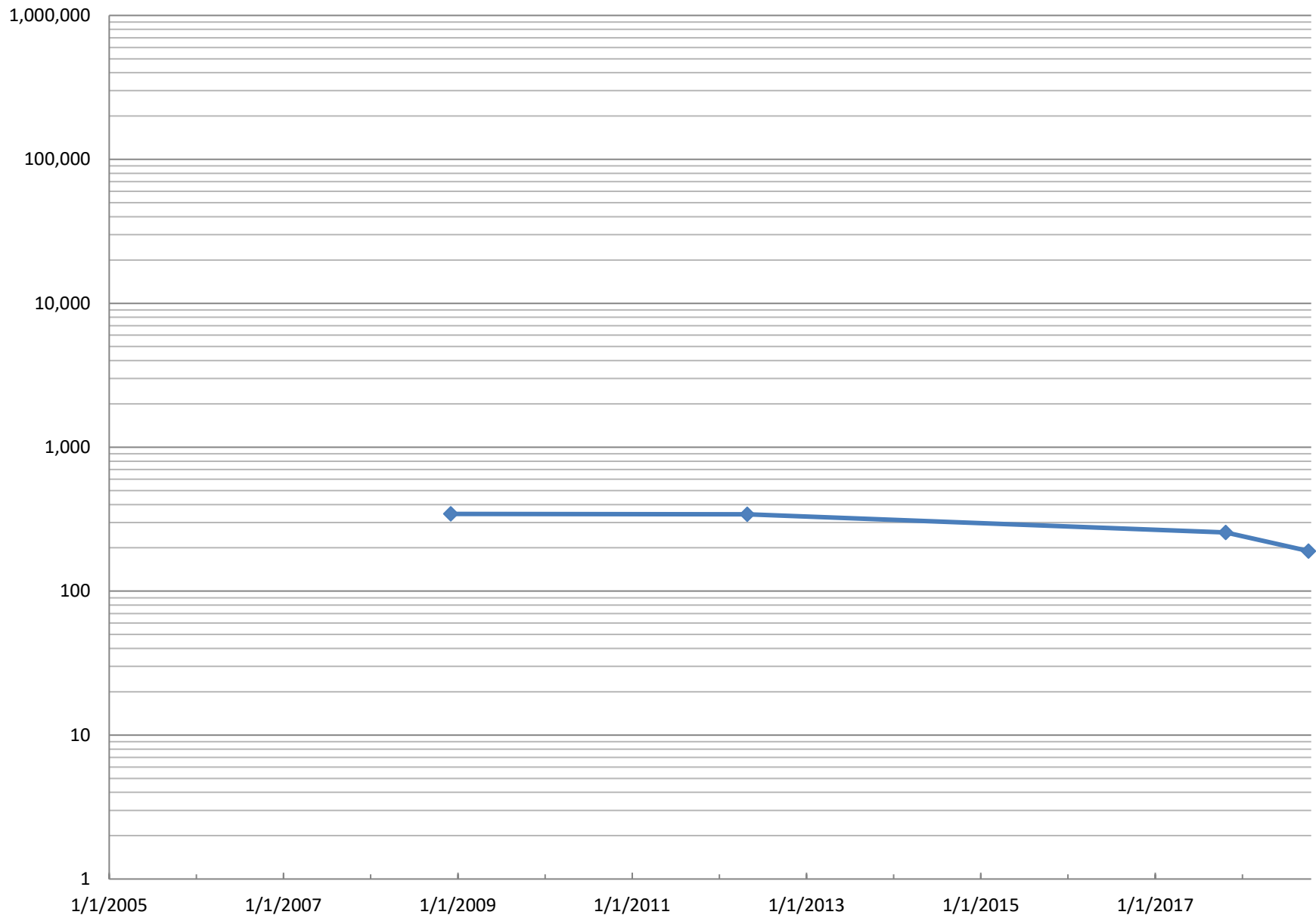
Dissolved Arsenic Concentrations (ug/L) in 7F2-1



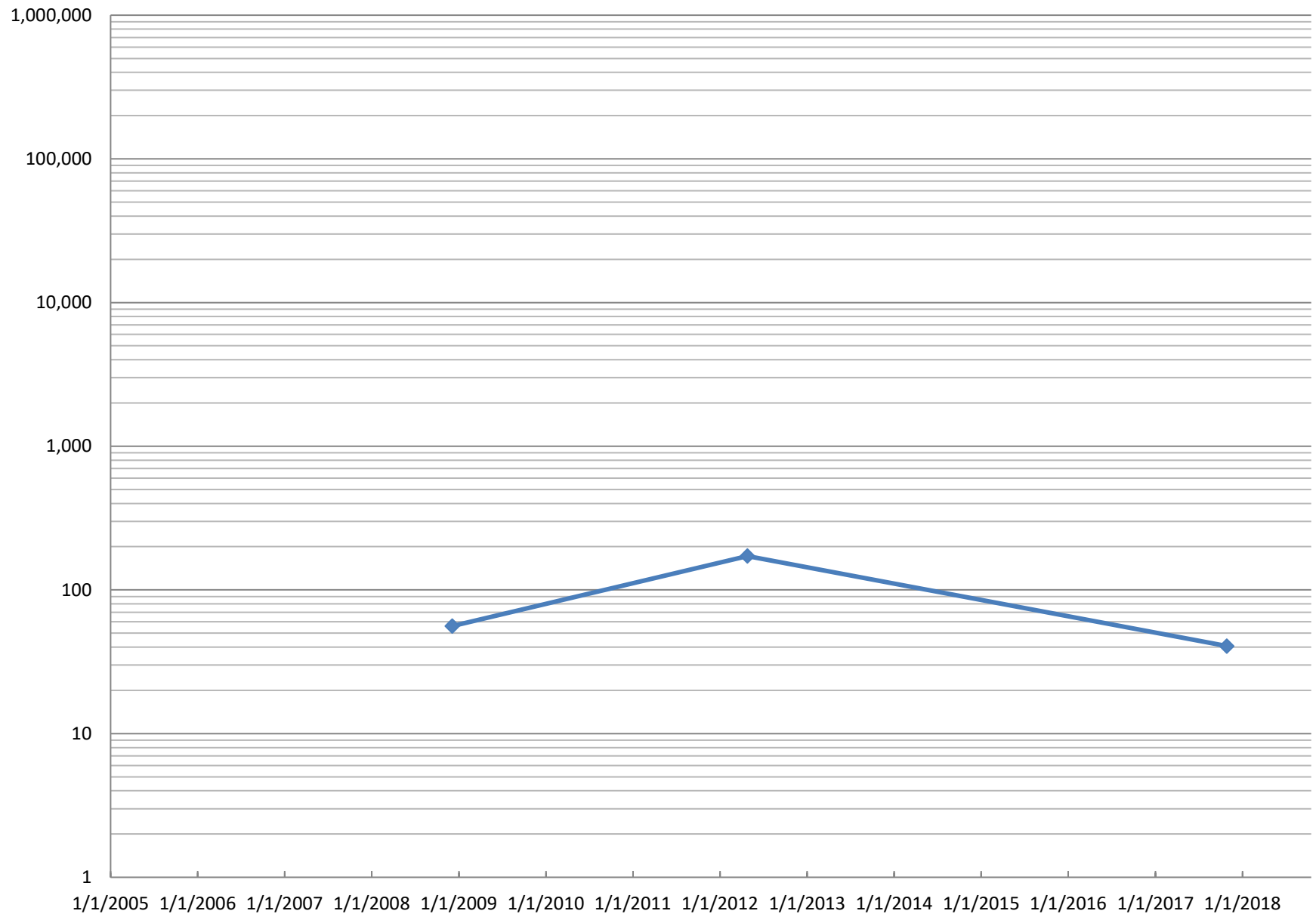
Dissolved Arsenic Concentrations (ug/L) in 7F3-1



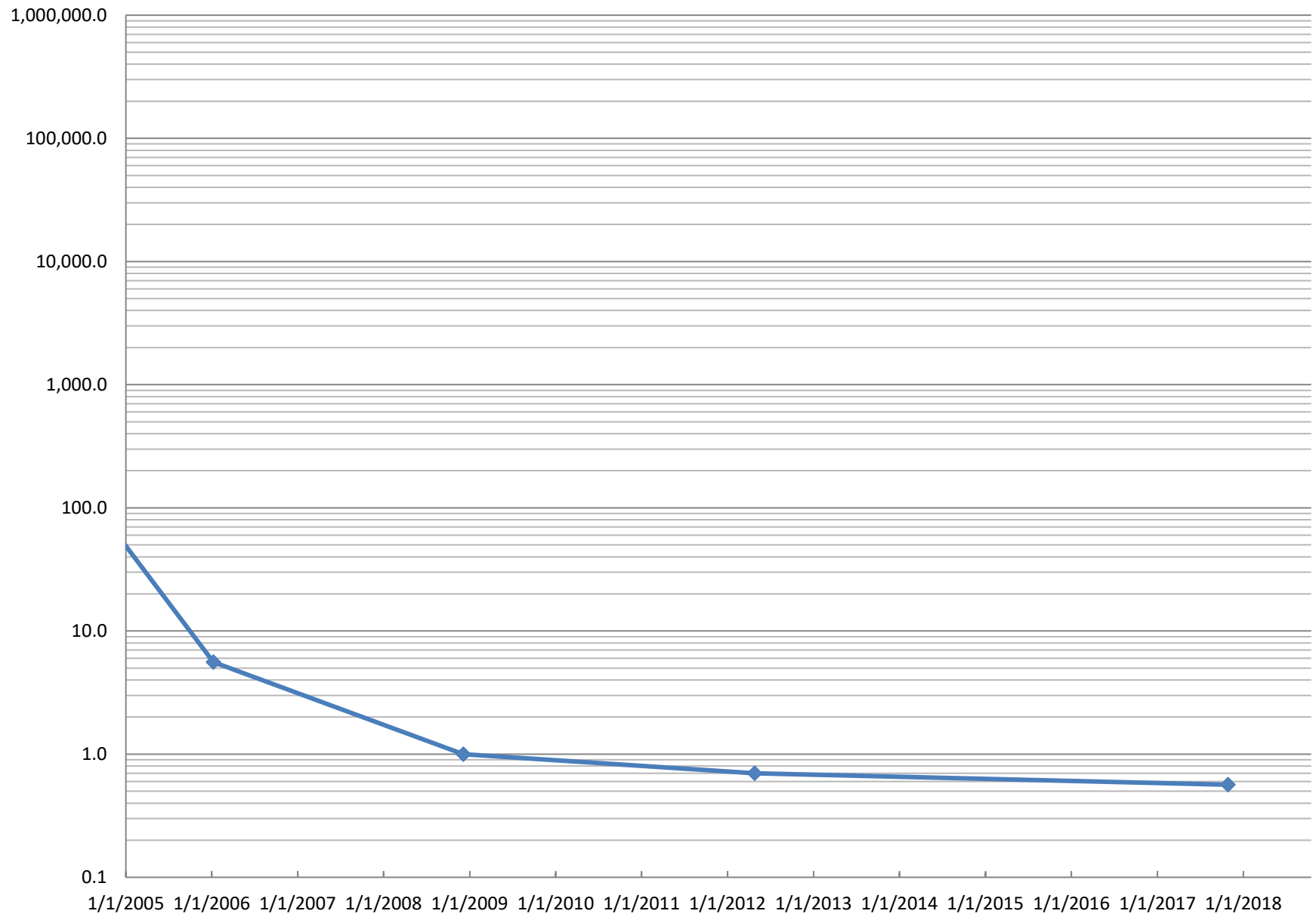
Dissolved Arsenic Concentrations (ug/L) in 7F4-1



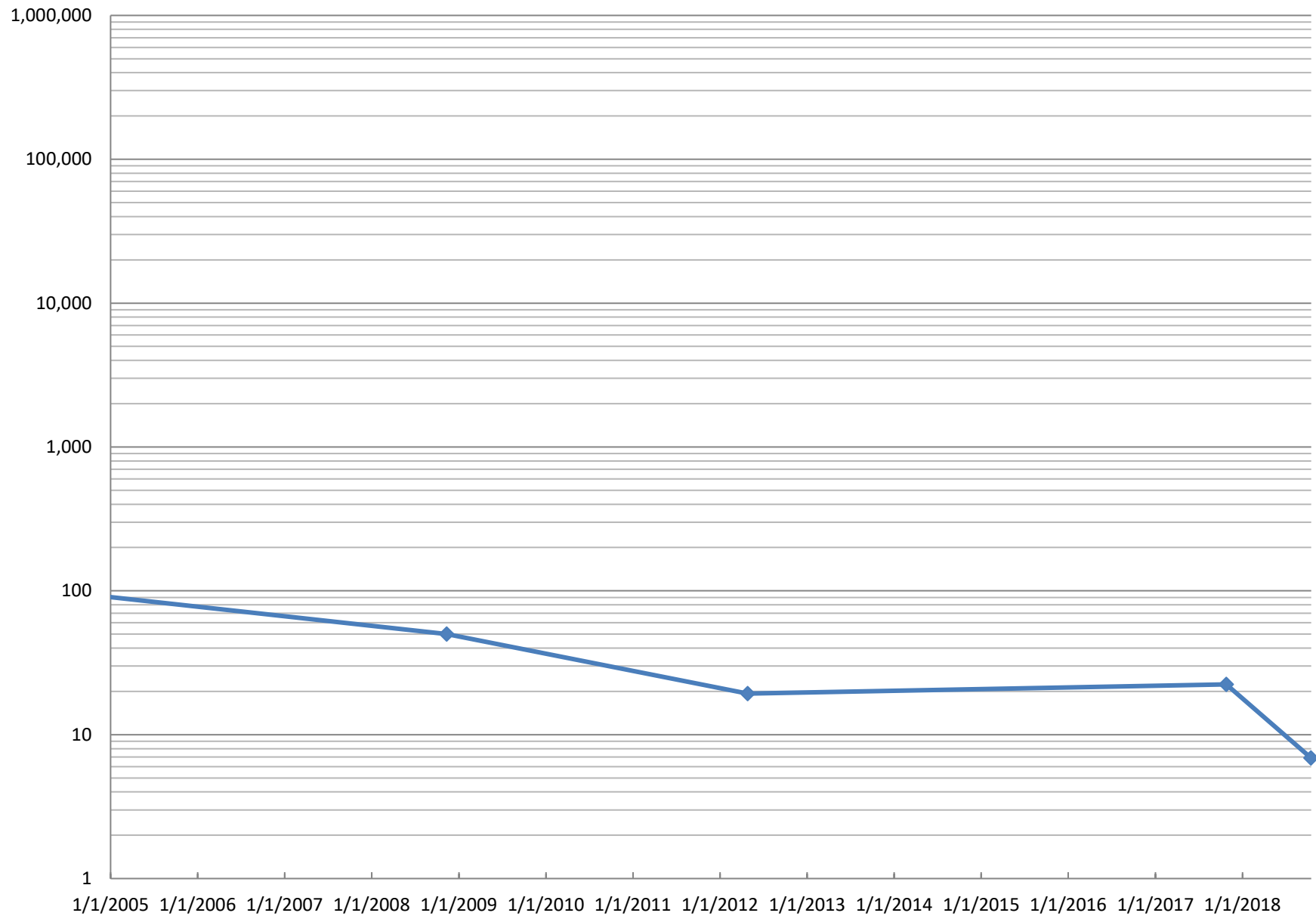
Dissolved Arsenic Concentrations (ug/L) in 7G1-1



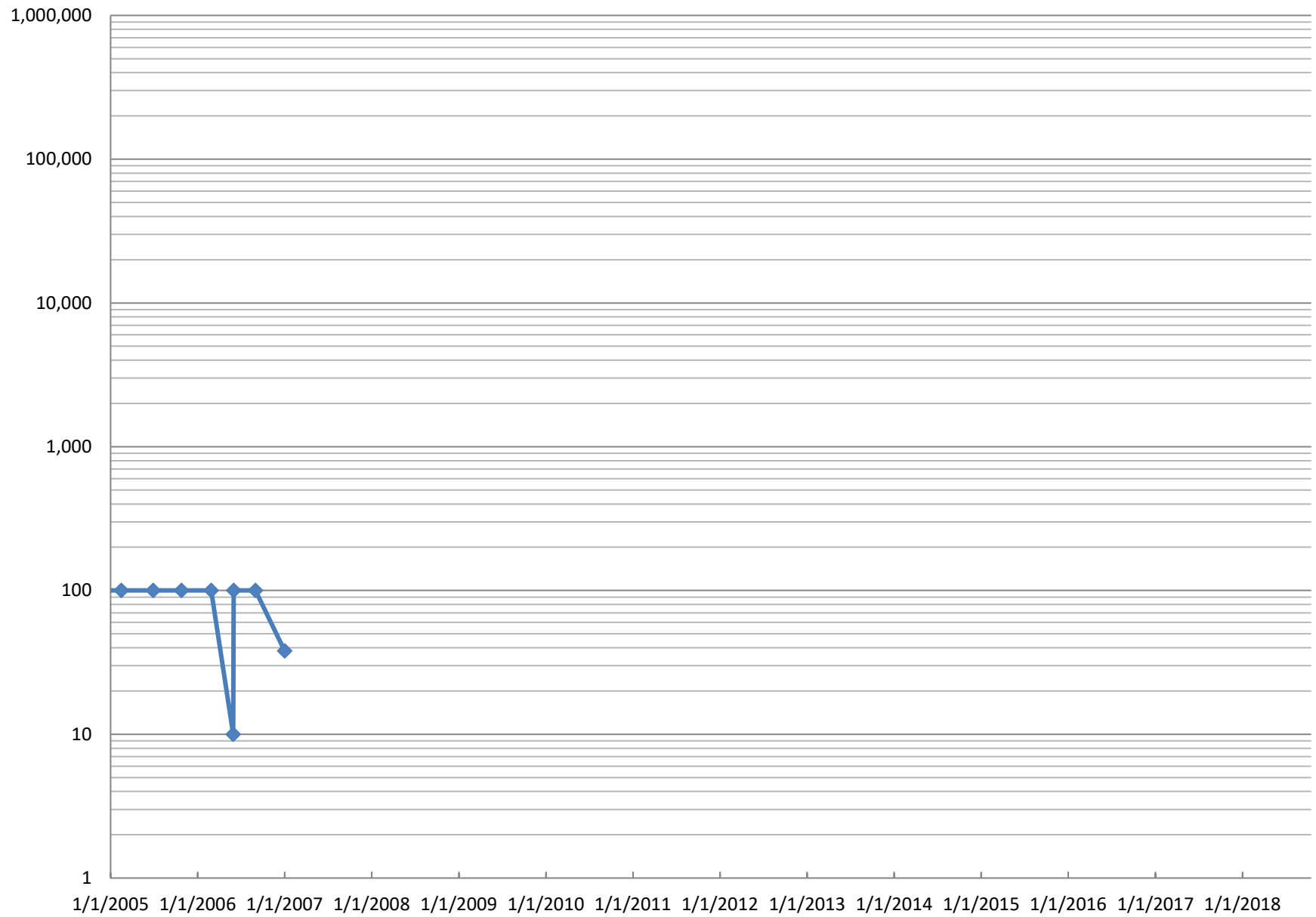
Dissolved Arsenic Concentrations (ug/L) in 711-1



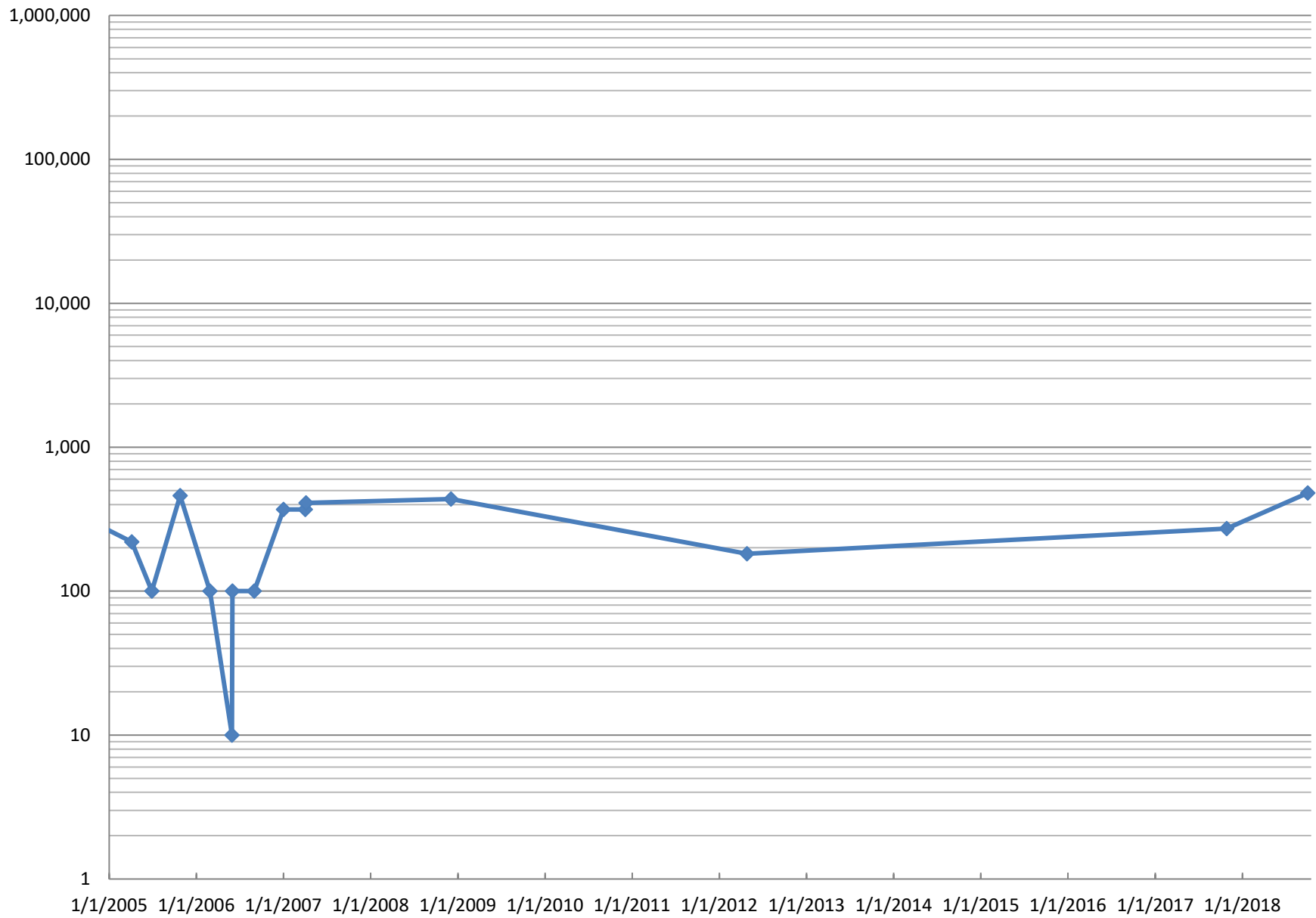
Dissolved Arsenic Concentrations (ug/L) in 8F1-1R



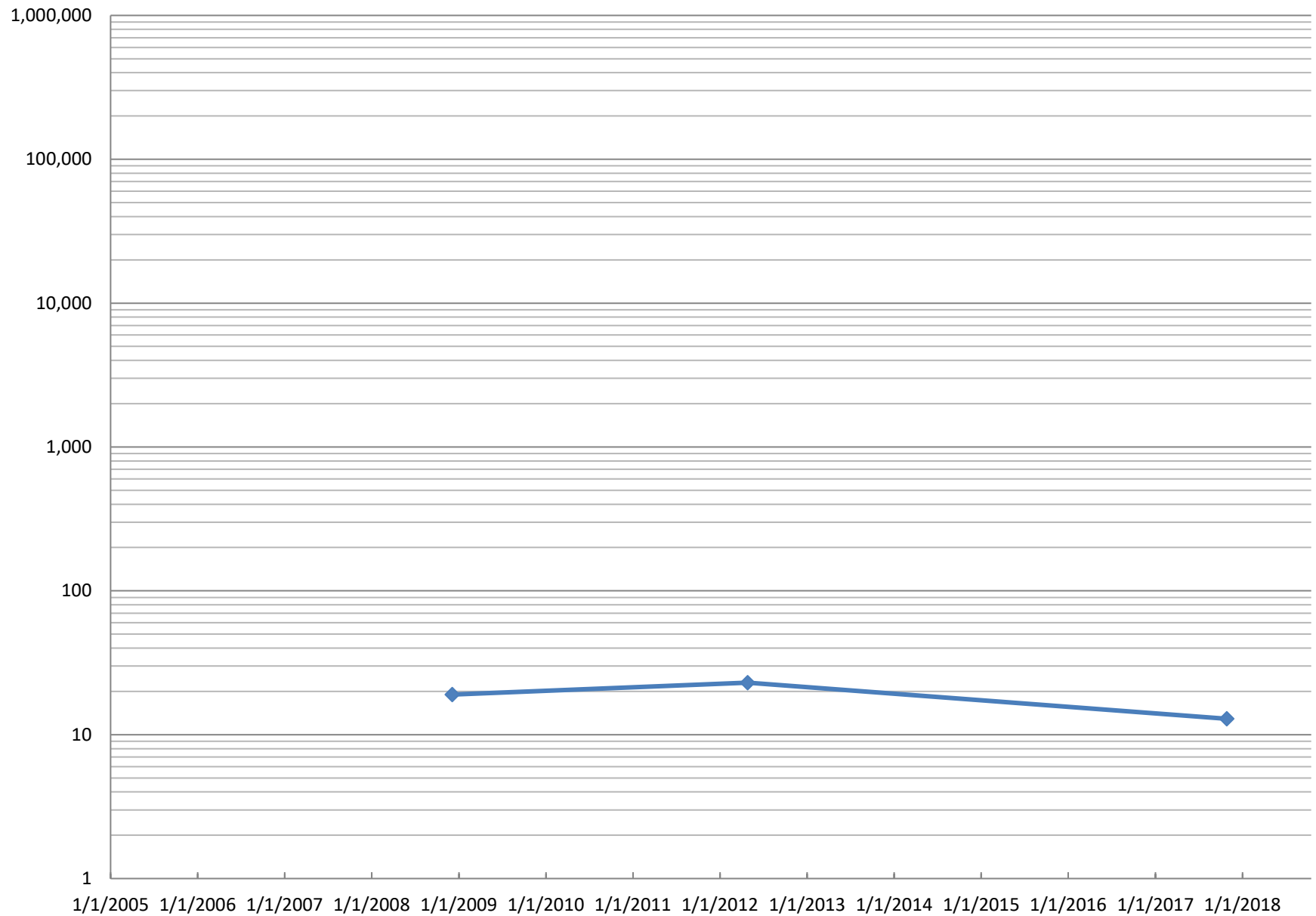
Dissolved Arsenic Concentrations (ug/L) in 8G1-1



Dissolved Arsenic Concentrations (ug/L) in 8G2-1

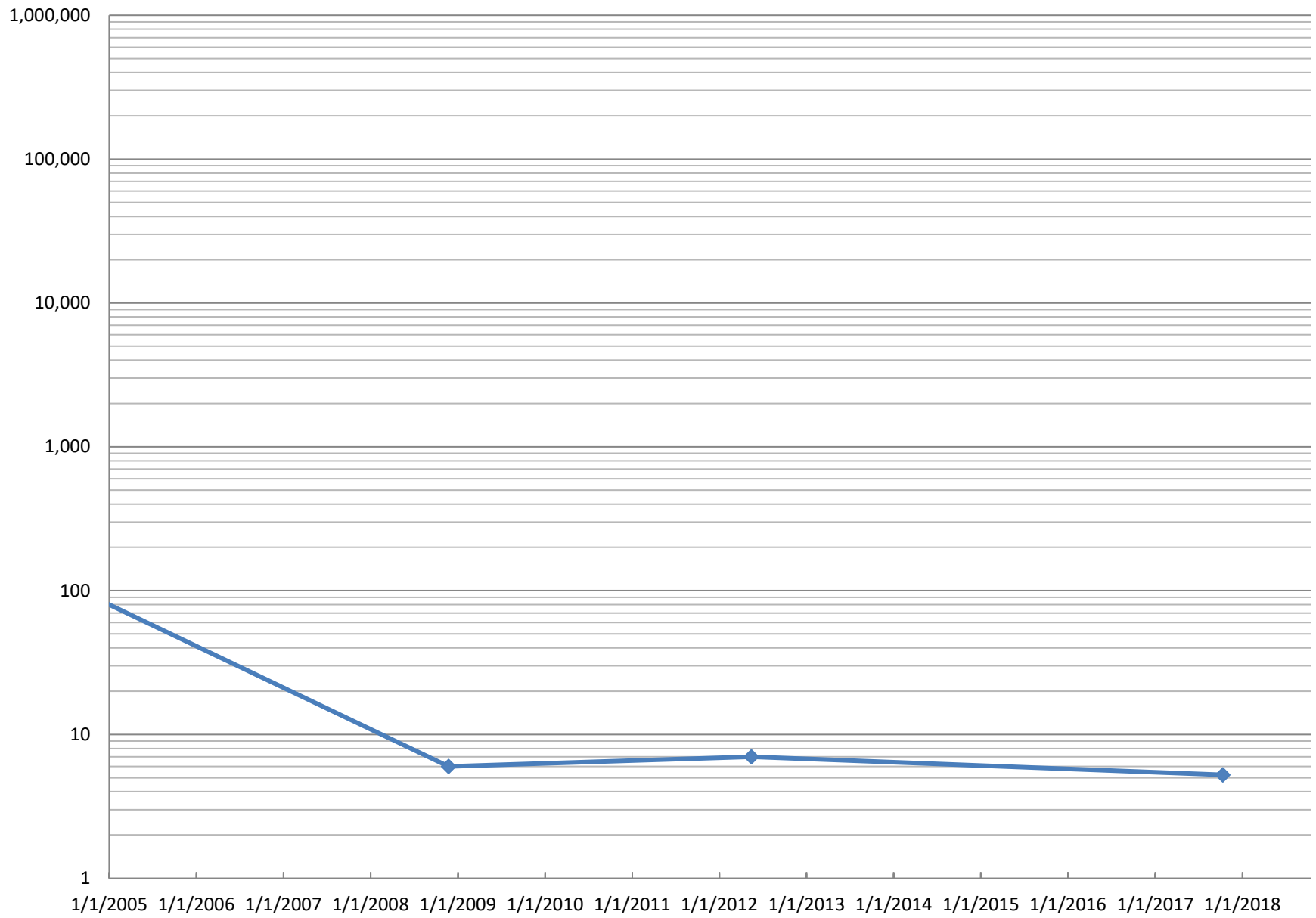


Dissolved Arsenic Concentrations (ug/L) in 8H1-1

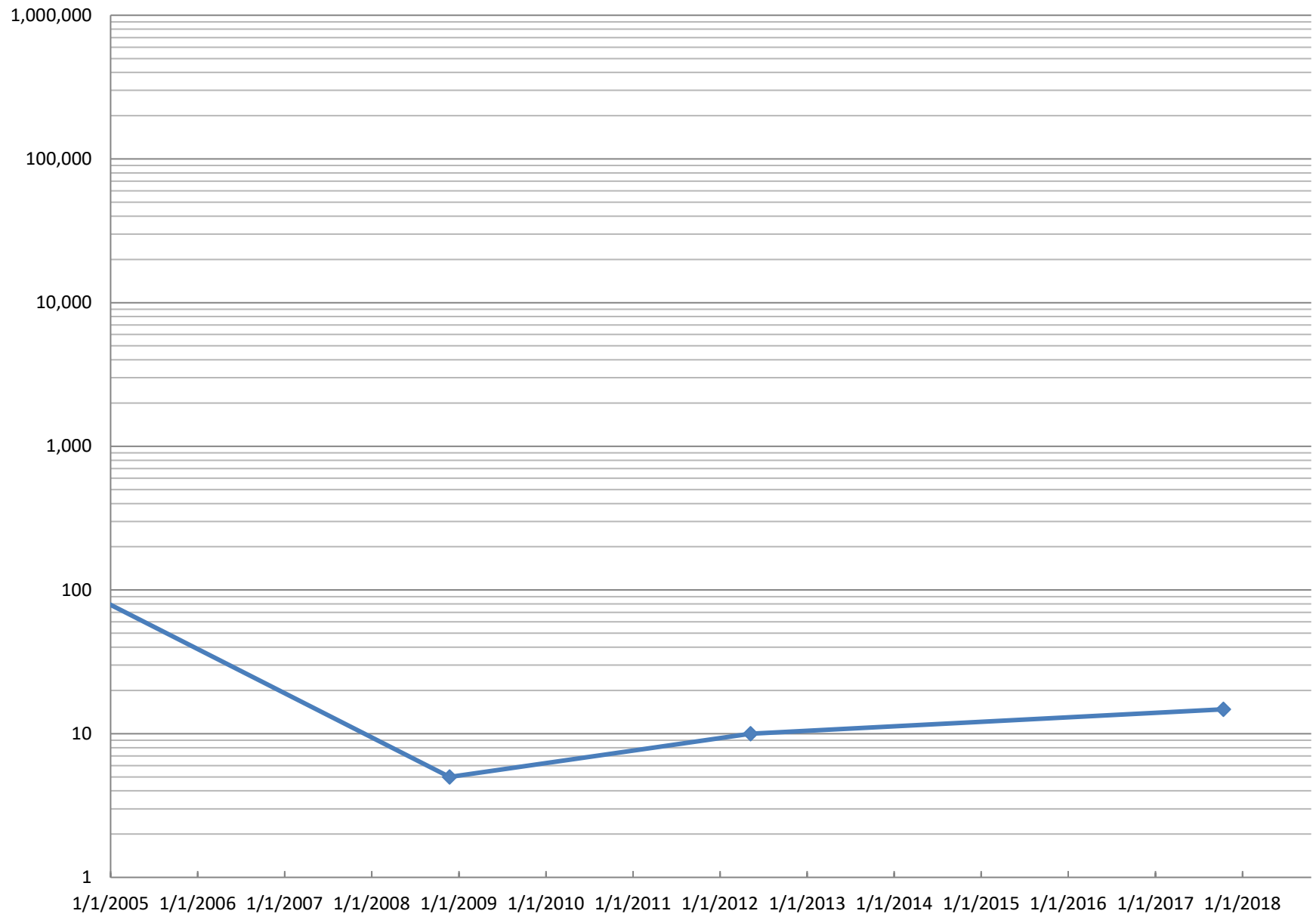


Backup for Figure 6-12

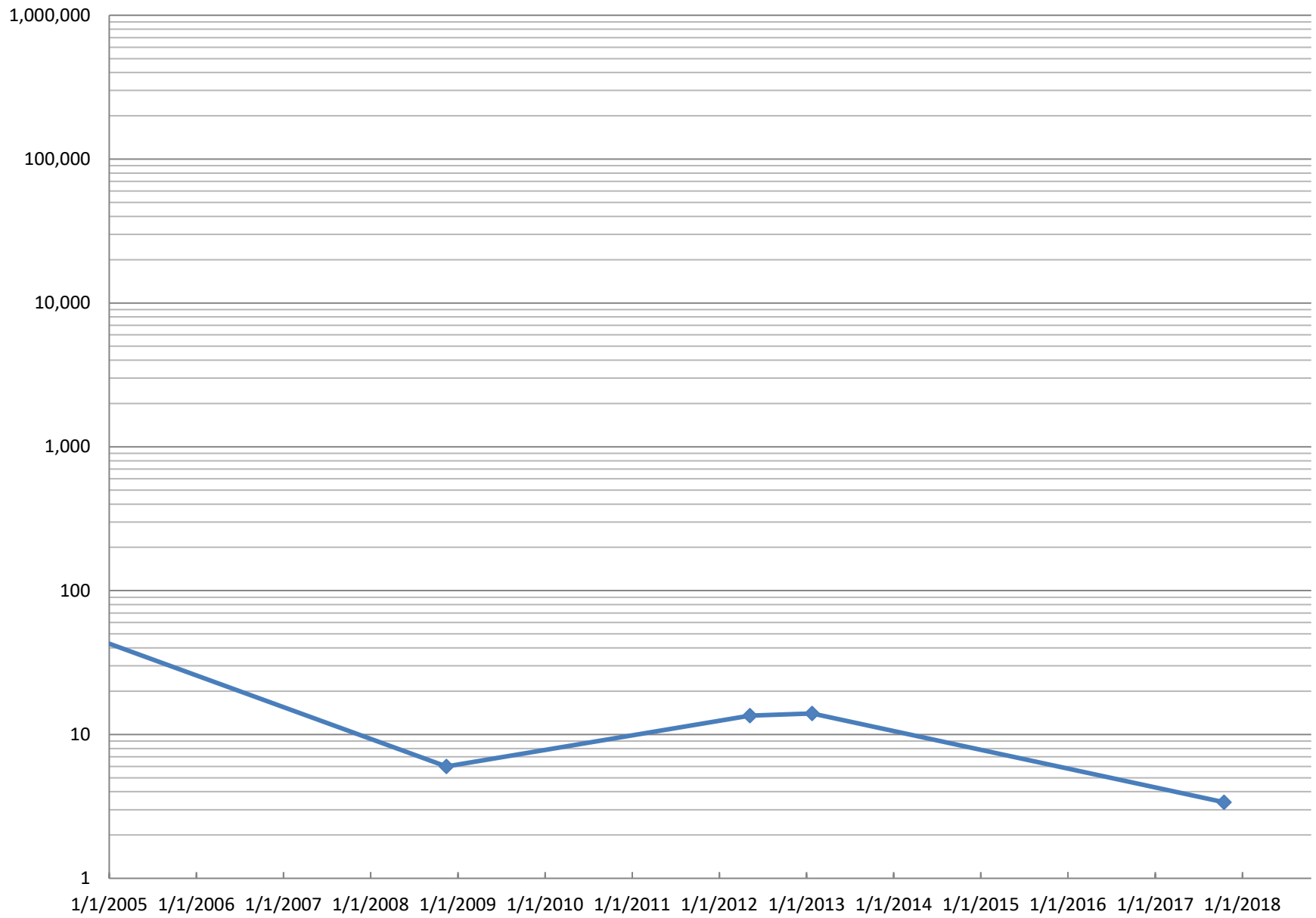
Dissolved Arsenic Concentrations (ug/L) in 1C2-2



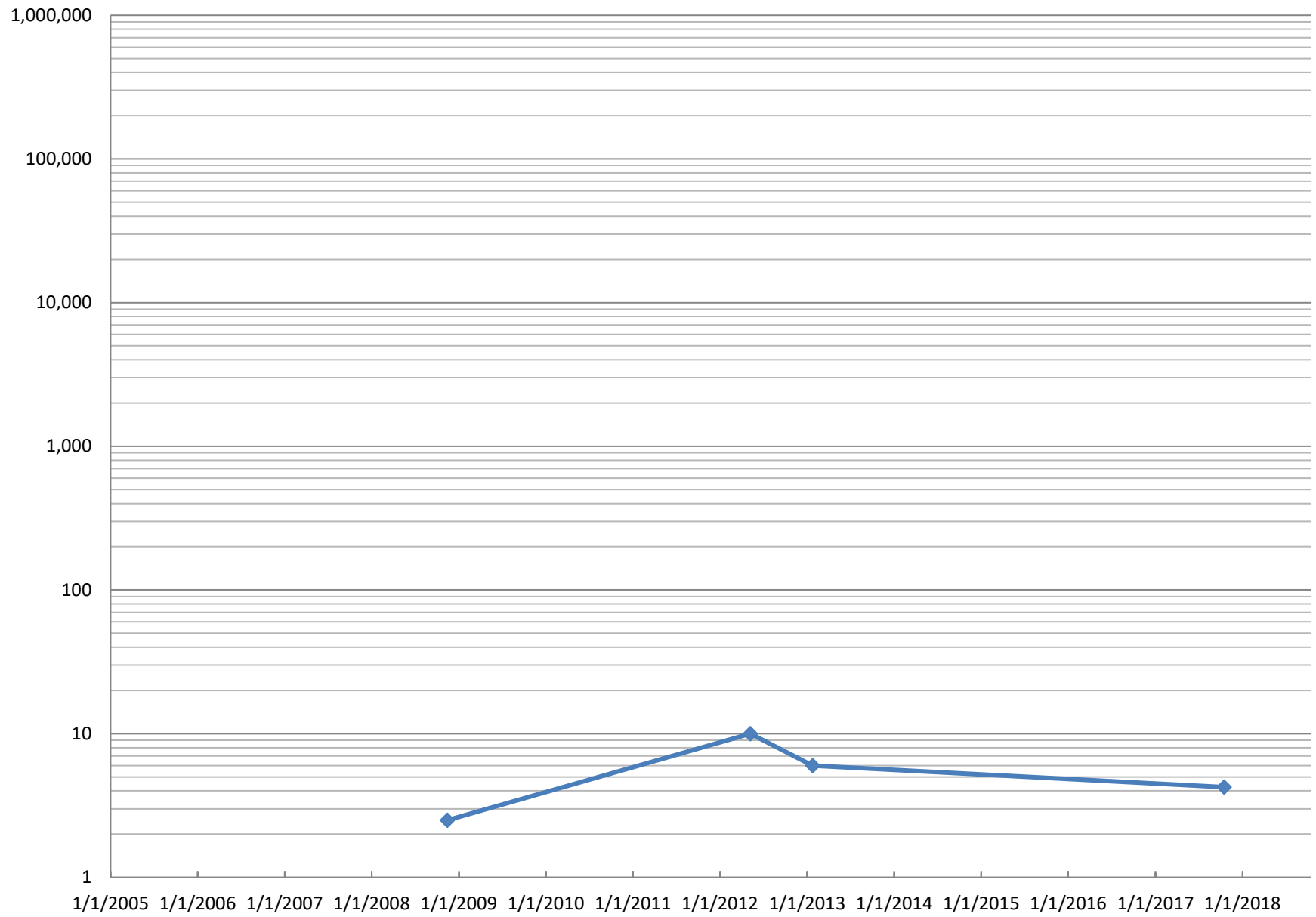
Dissolved Arsenic Concentrations (ug/L) in 2B2-2



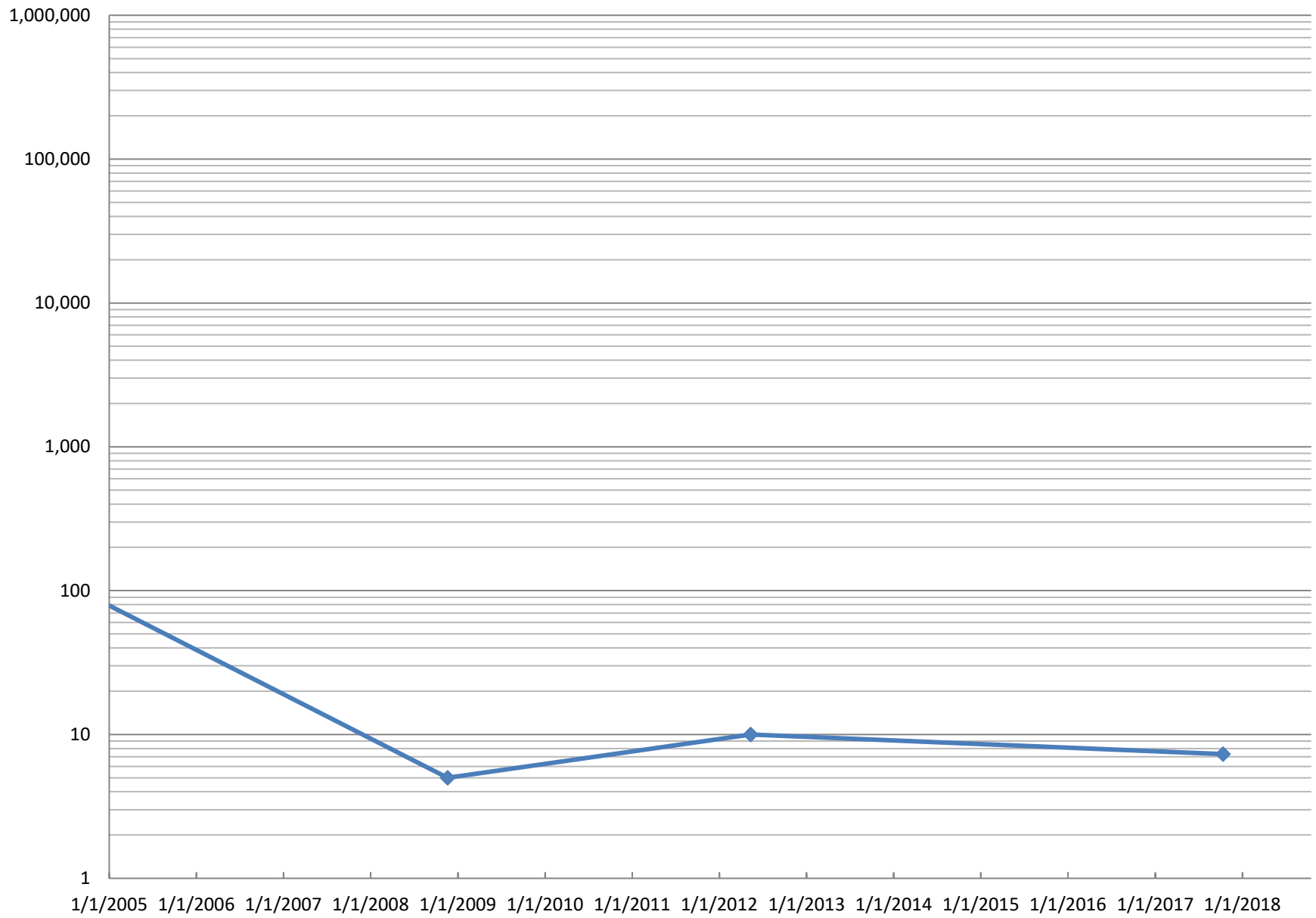
Dissolved Arsenic Concentrations (ug/L) in 3A2-2R



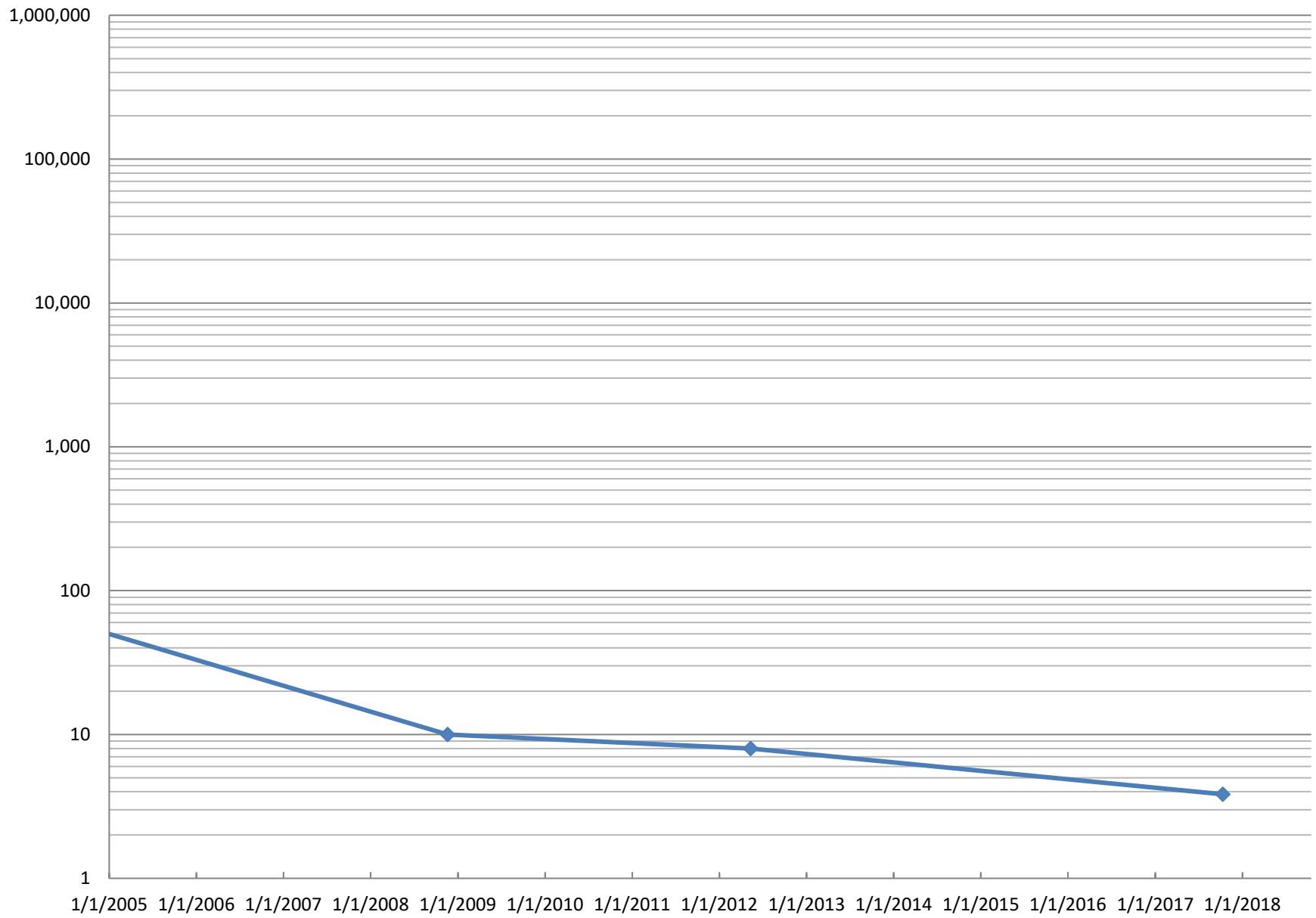
Dissolved Arsenic Concentrations (ug/L) in 3A6-2R



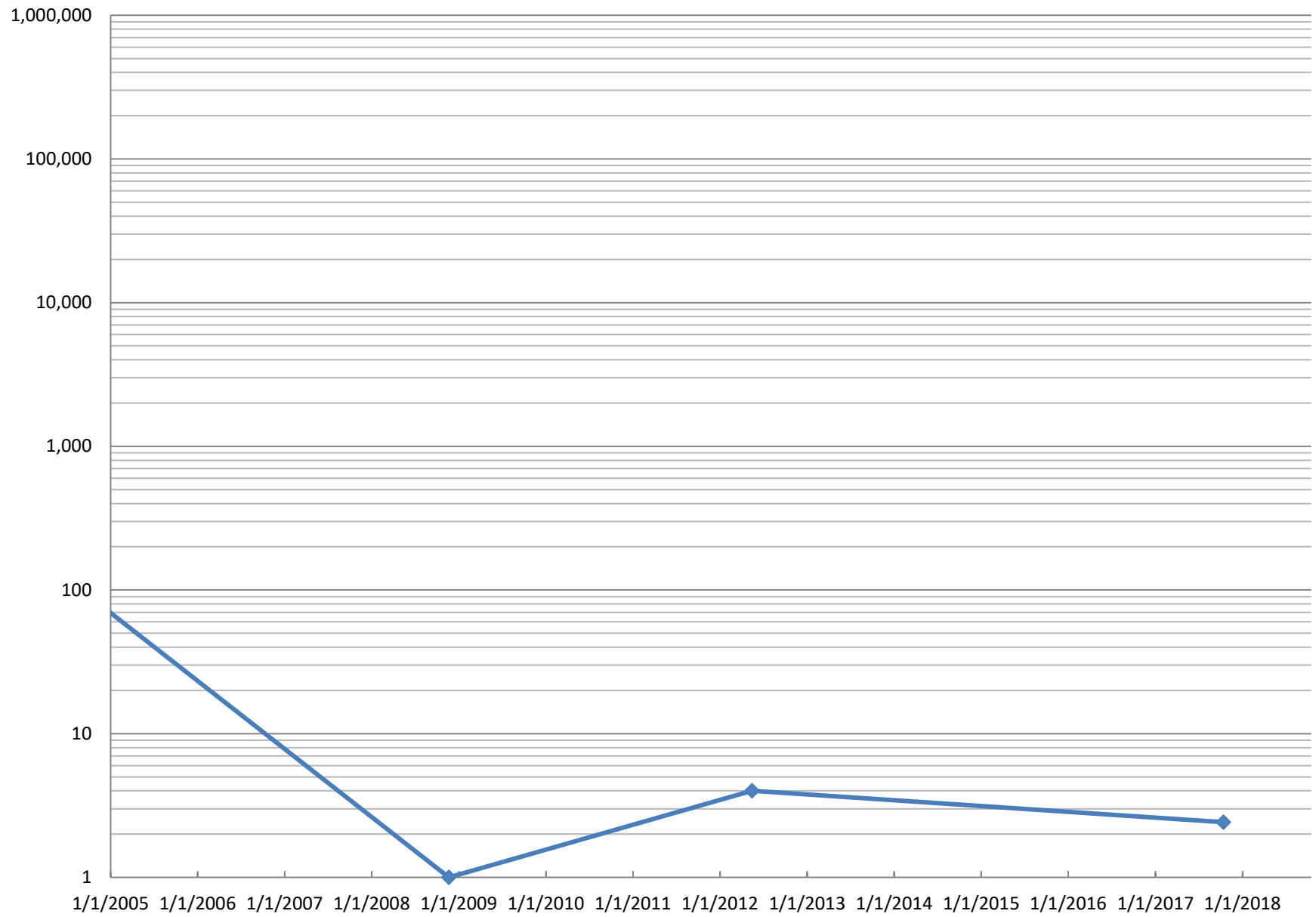
Dissolved Arsenic Concentrations (ug/L) in 3C5-2



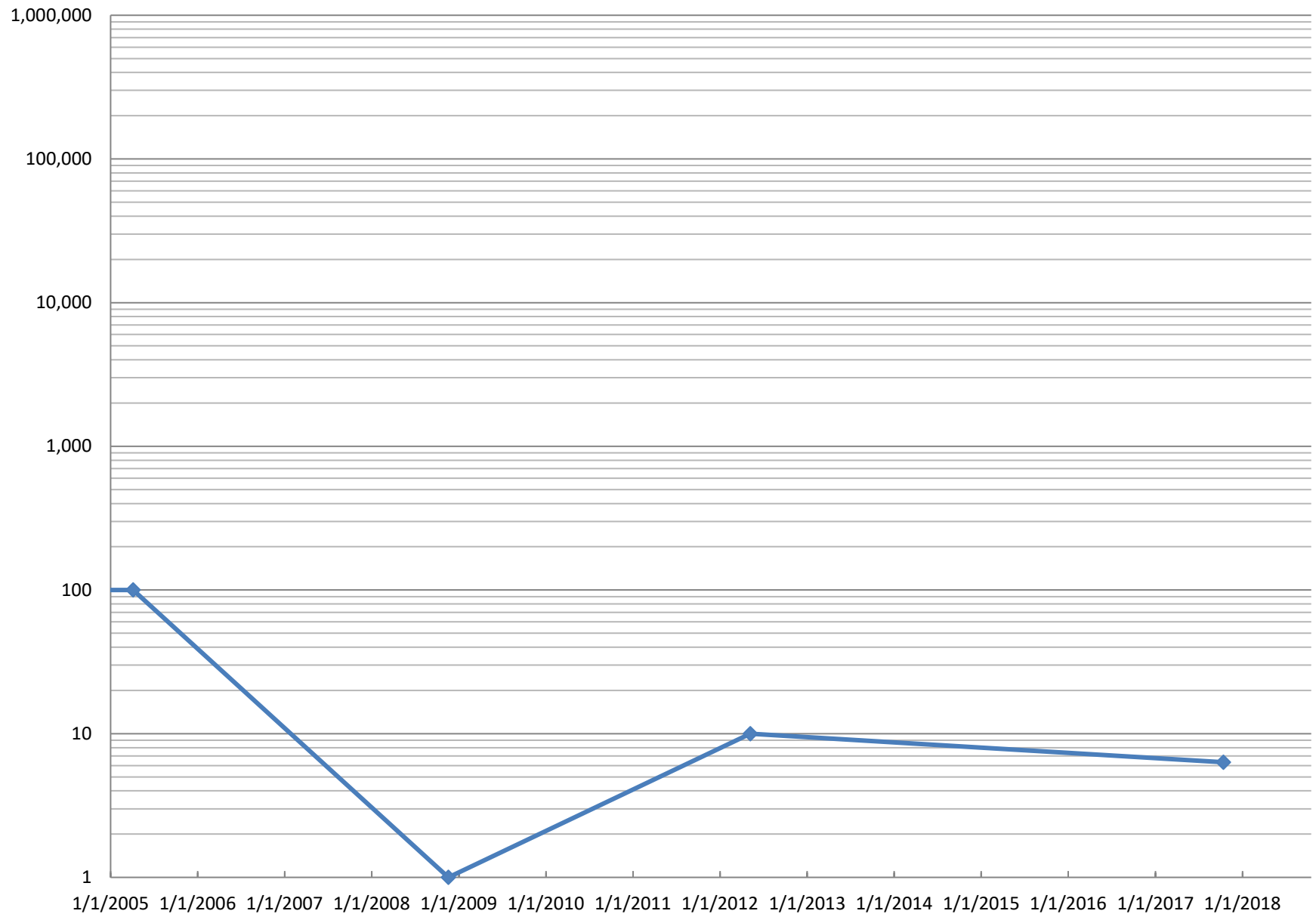
Dissolved Arsenic Concentrations (ug/L) in 3C7-2R



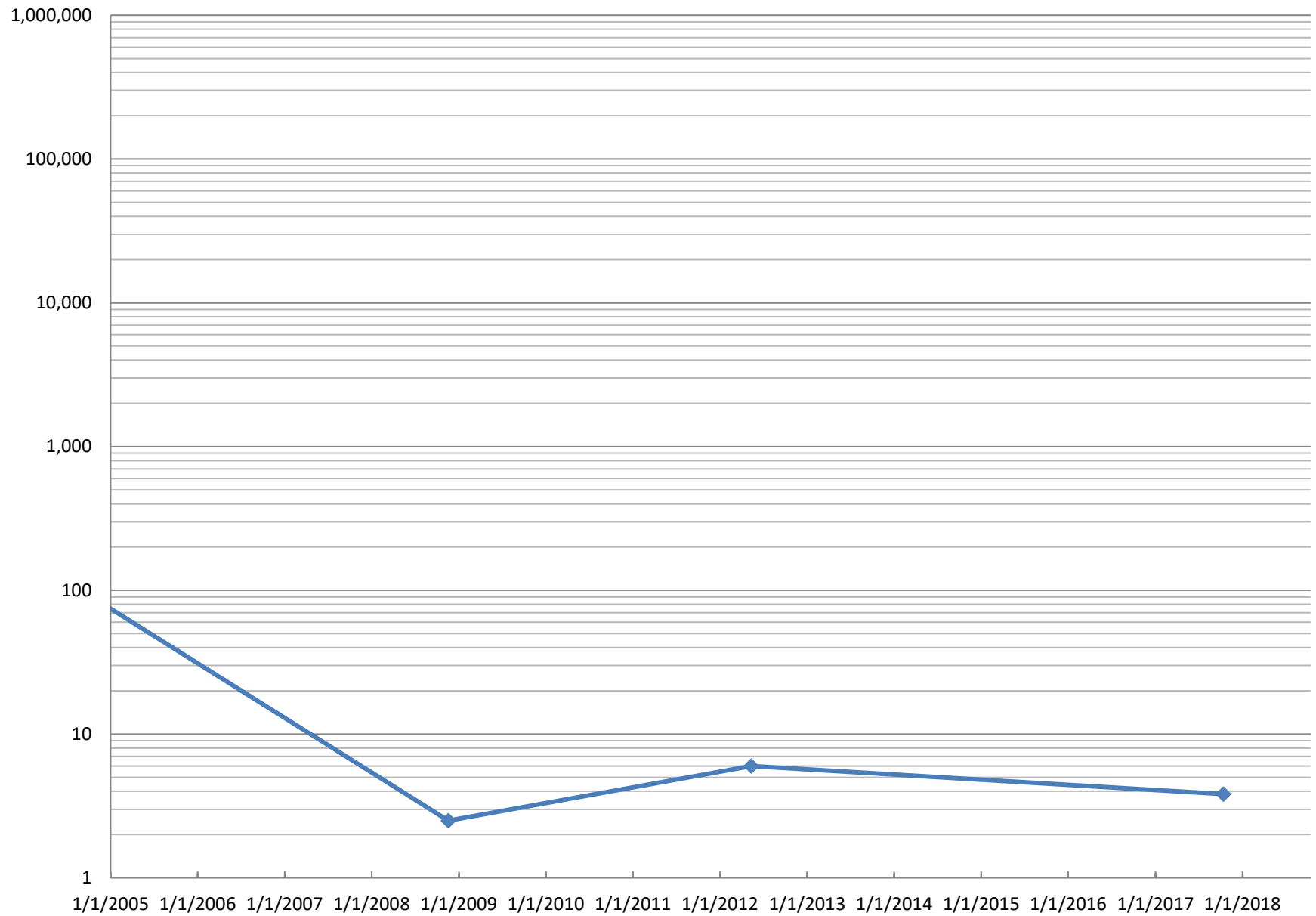
Dissolved Arsenic Concentrations (ug/L) in 3E1-2



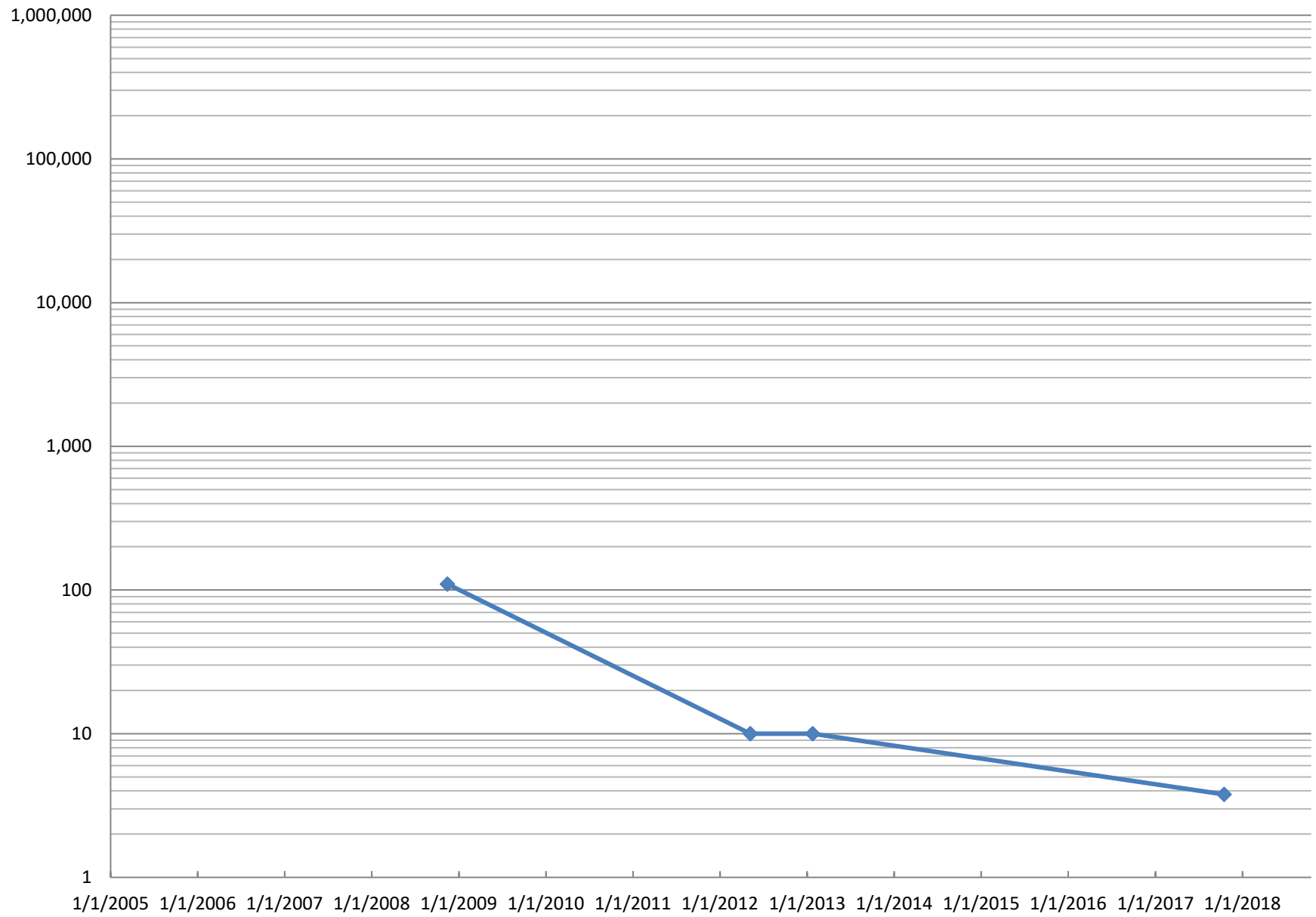
Dissolved Arsenic Concentrations (ug/L) in 4B2-2



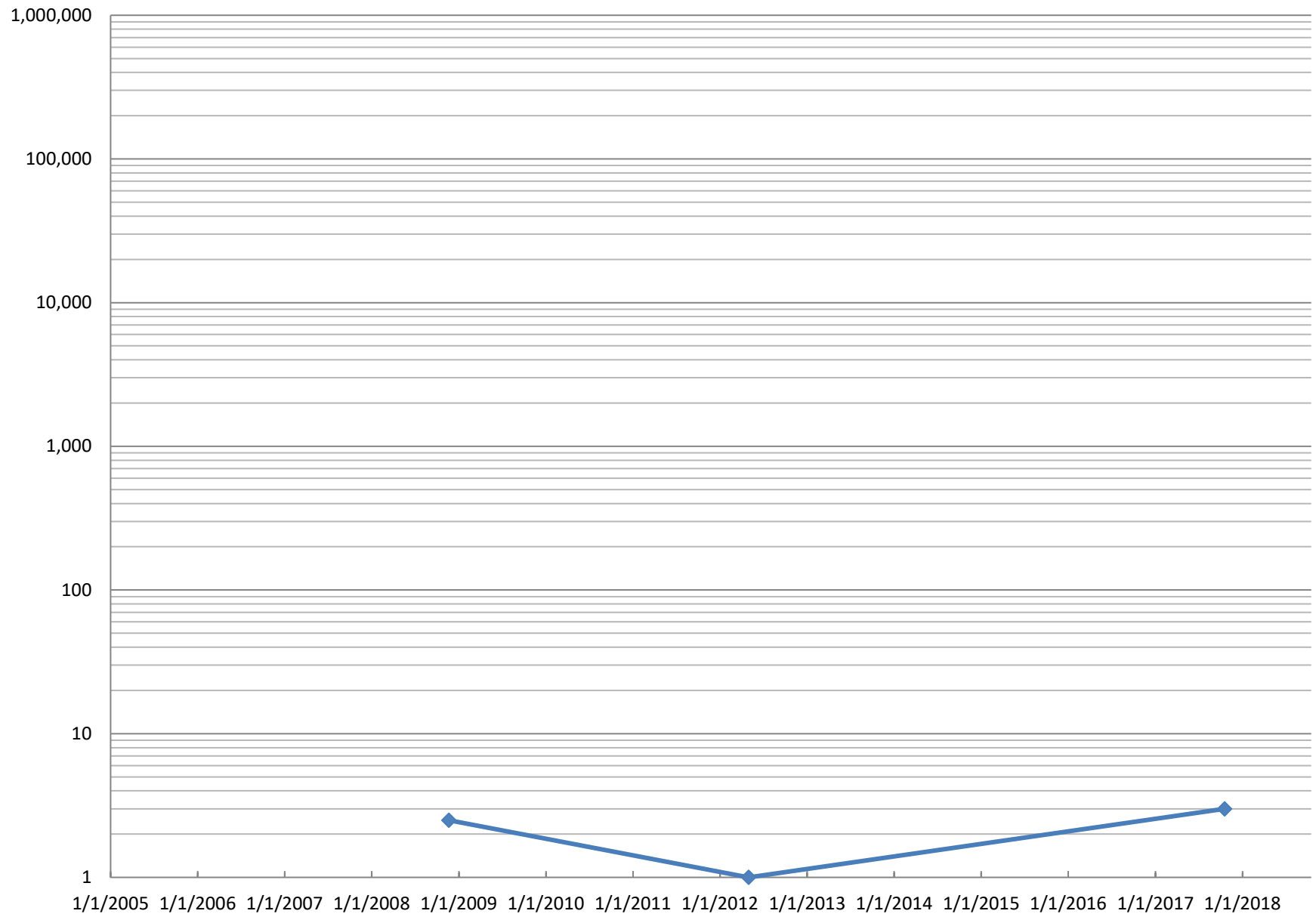
Dissolved Arsenic Concentrations (ug/L) in 4B3-2



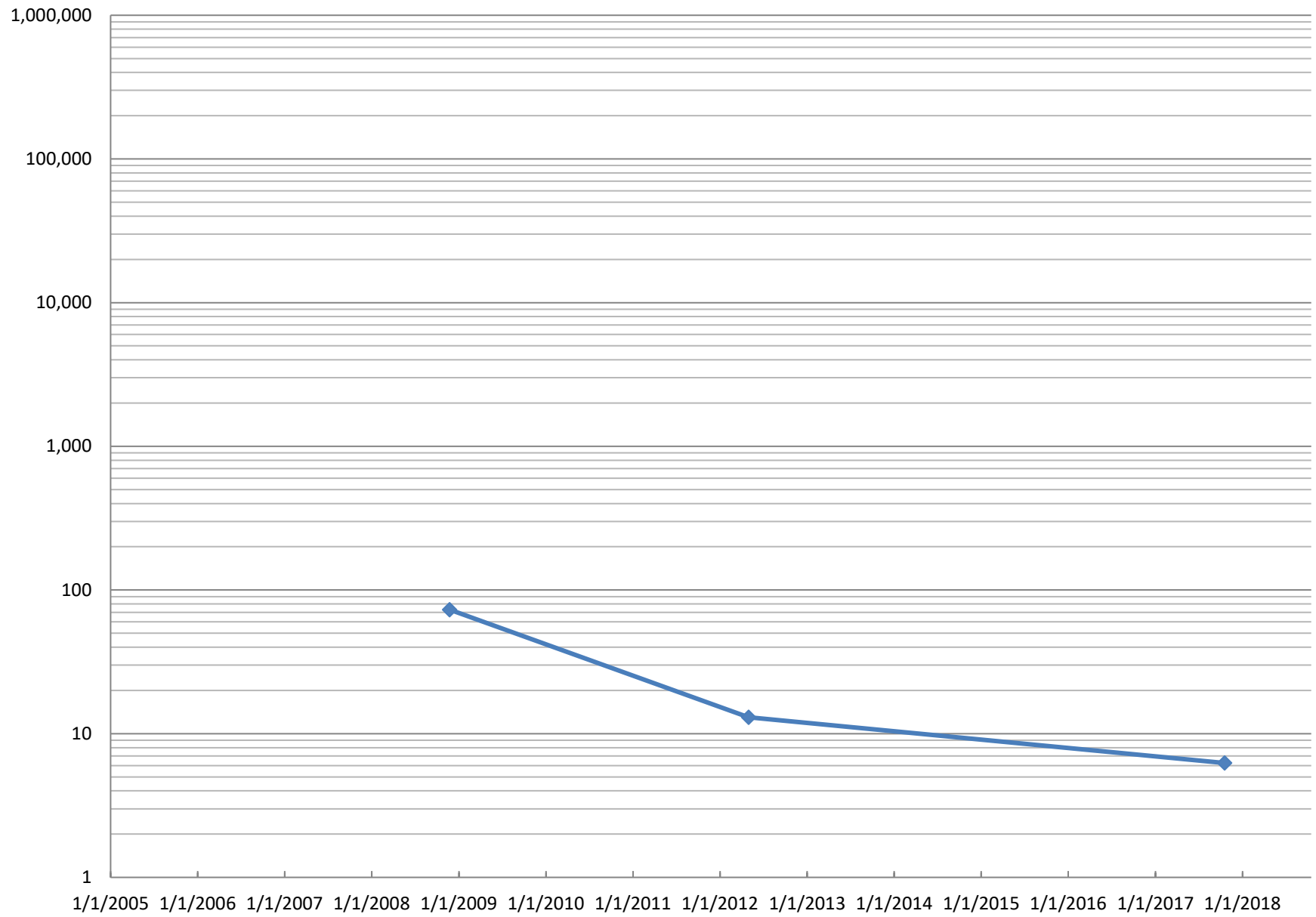
Dissolved Arsenic Concentrations (ug/L) in 4B4-2



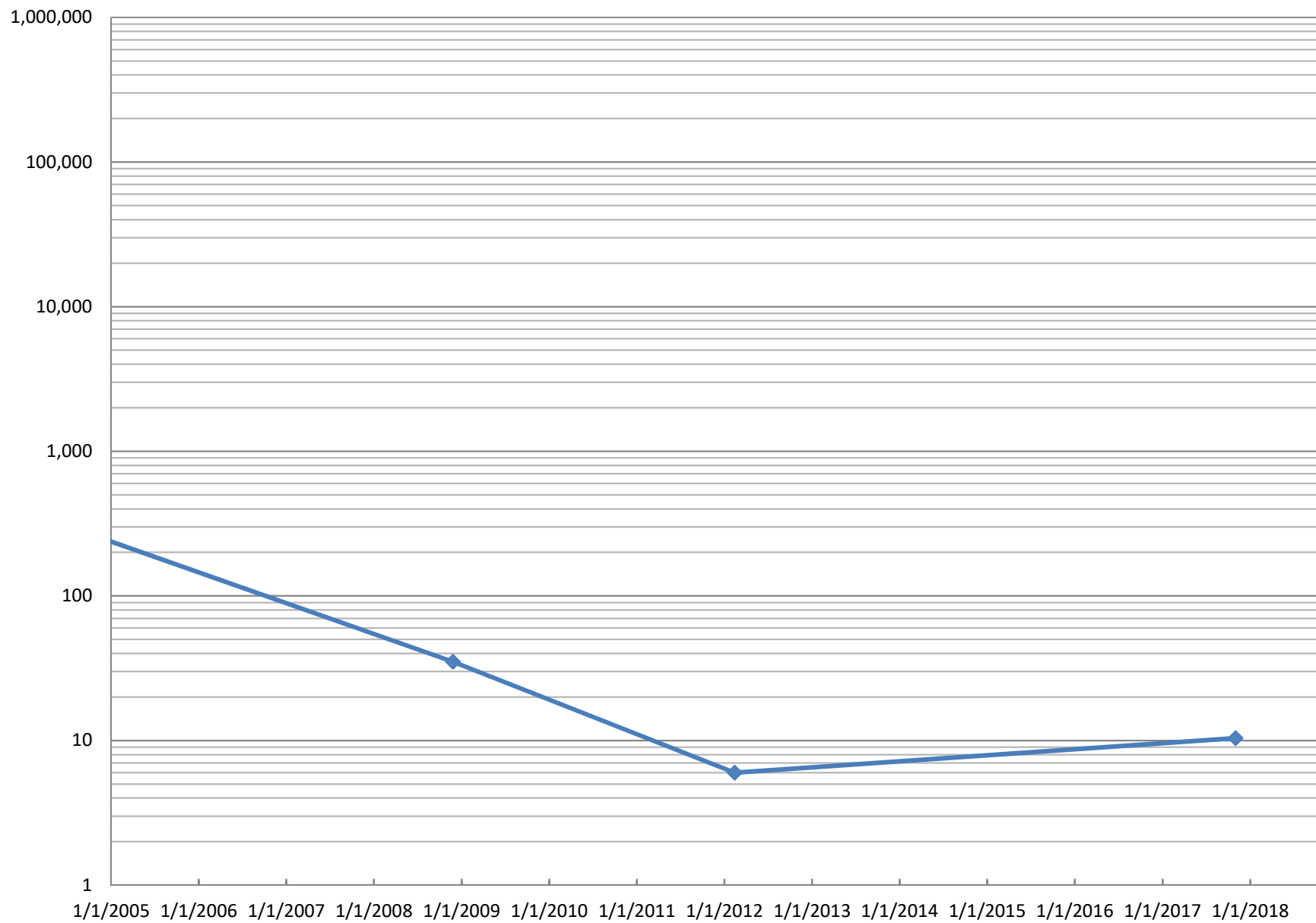
Dissolved Arsenic Concentrations (ug/L) in 4E1-2



Dissolved Arsenic Concentrations (ug/L) in 4F1-2



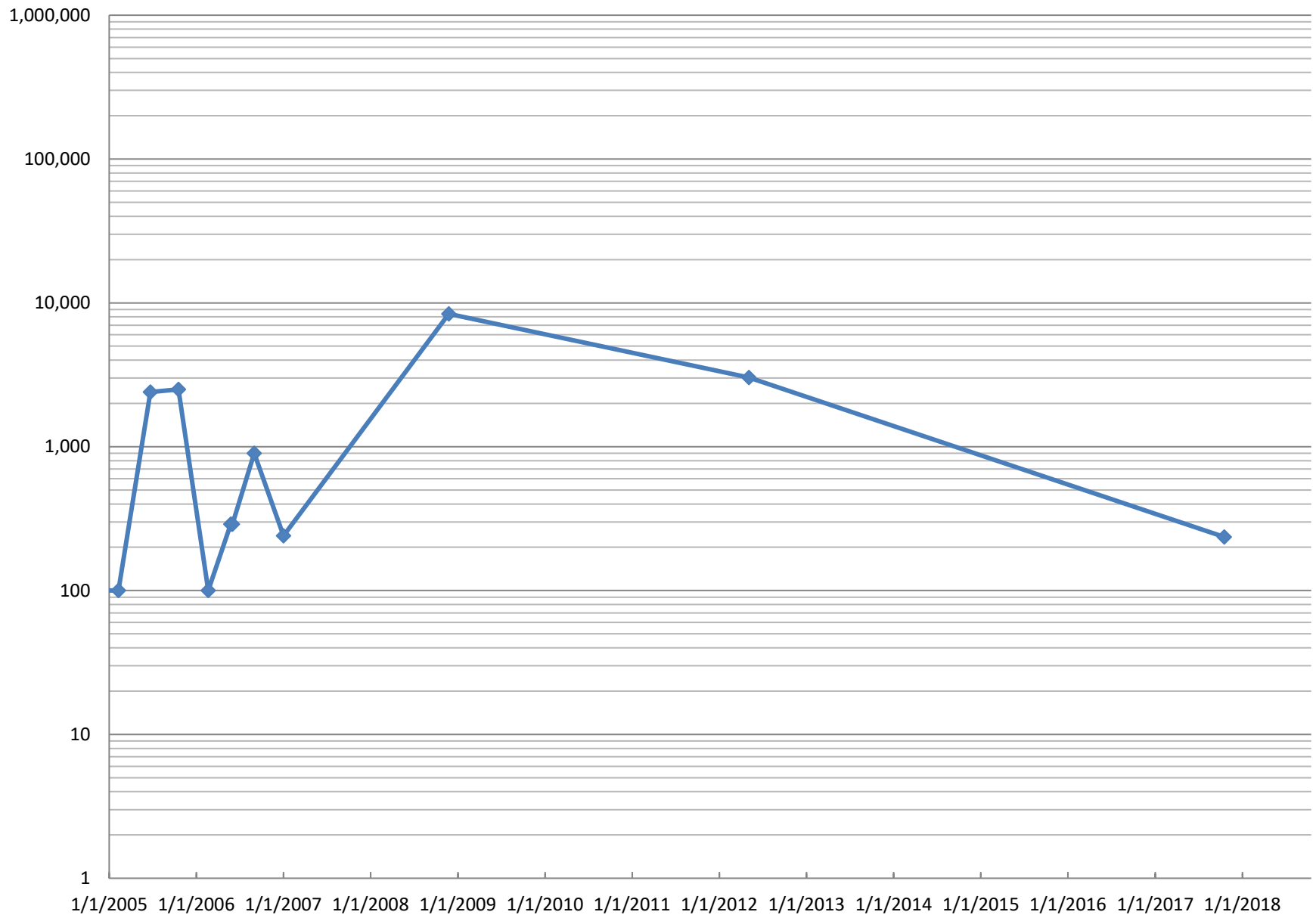
Dissolved Arsenic Concentrations (ug/L) in 4G2-2



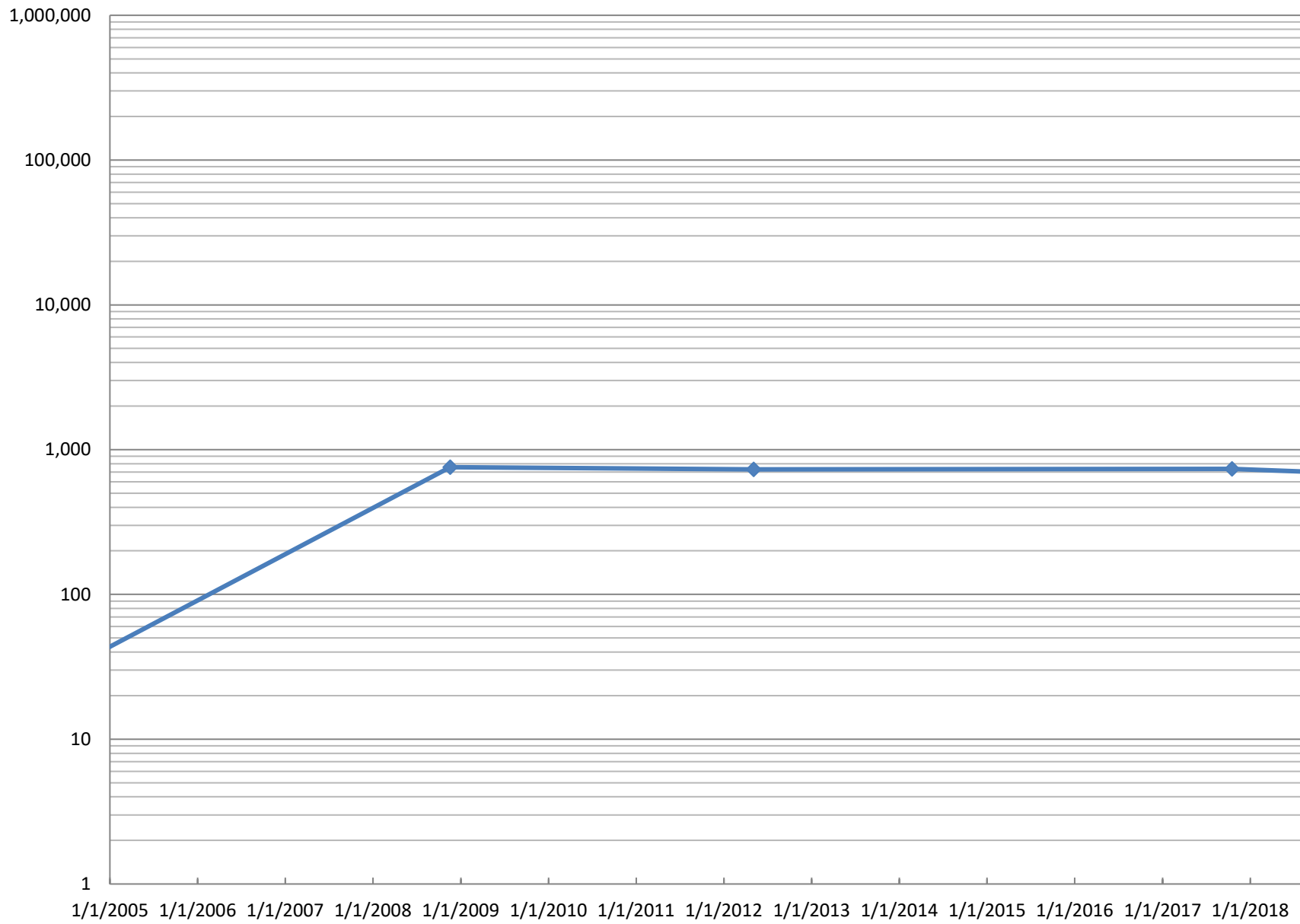
Dissolved Arsenic Concentrations (ug/L) in 5B1-2R



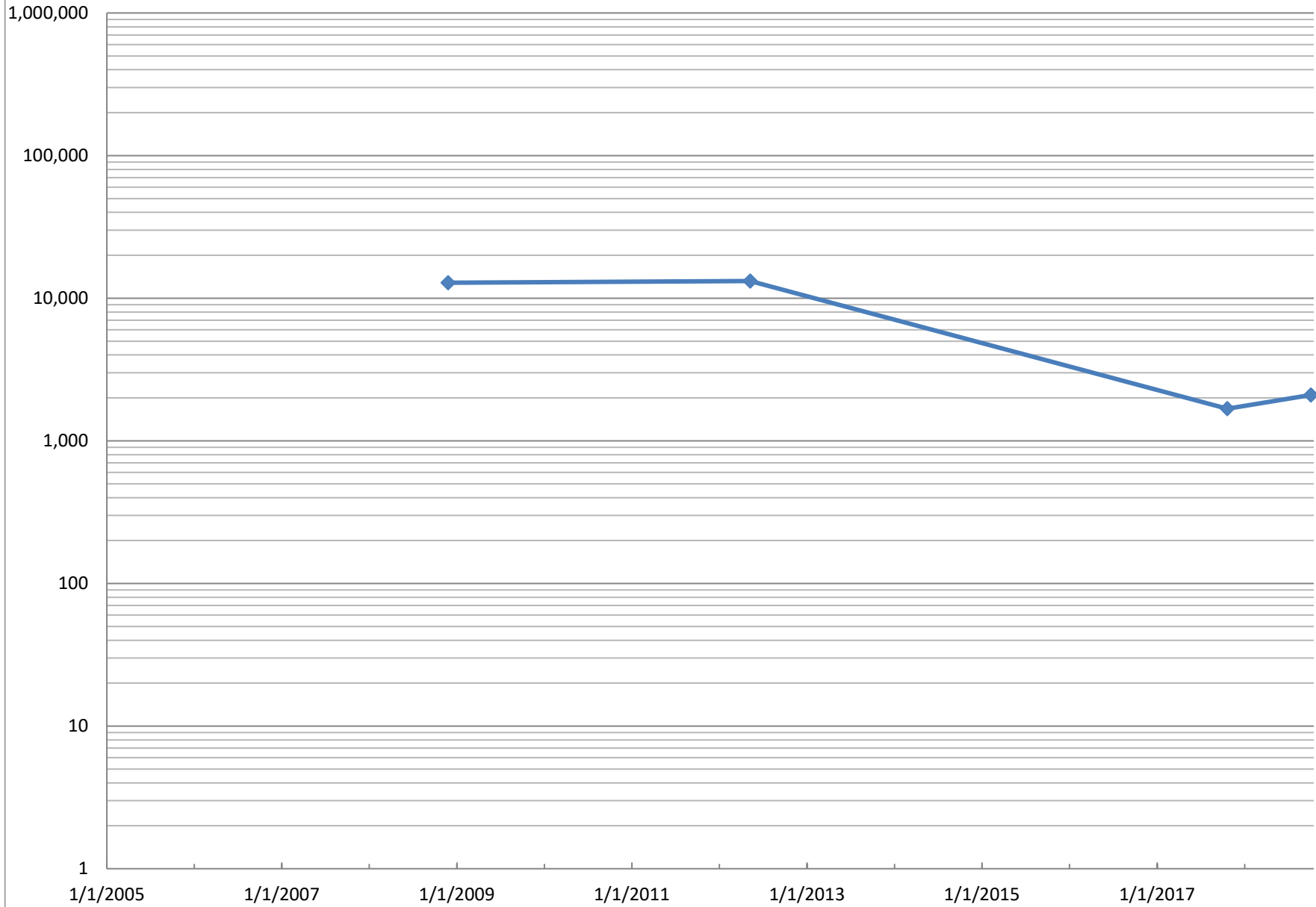
Dissolved Arsenic Concentrations (ug/L) in 5C14-2



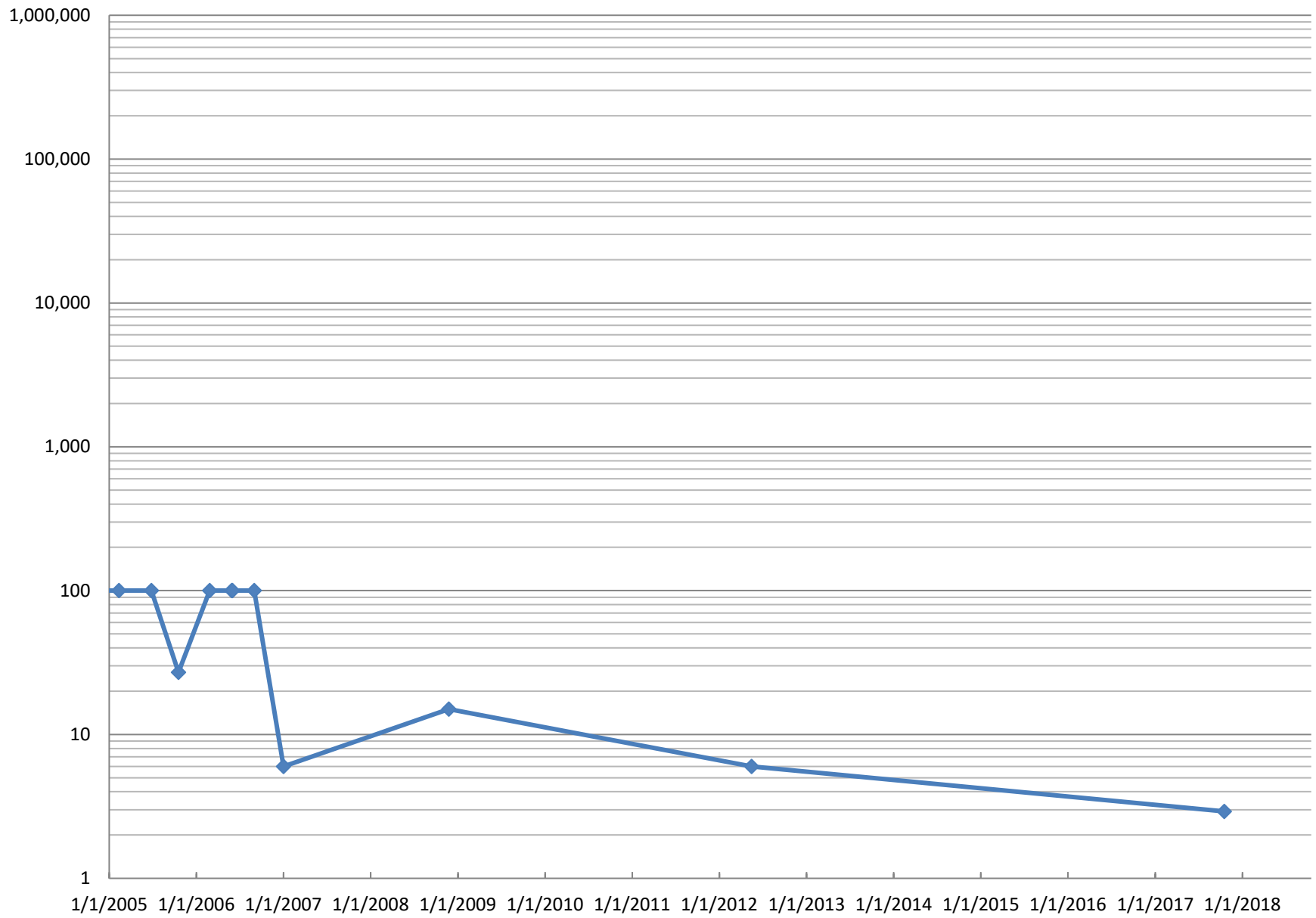
Dissolved Arsenic Concentrations (ug/L) in 5C16-2R



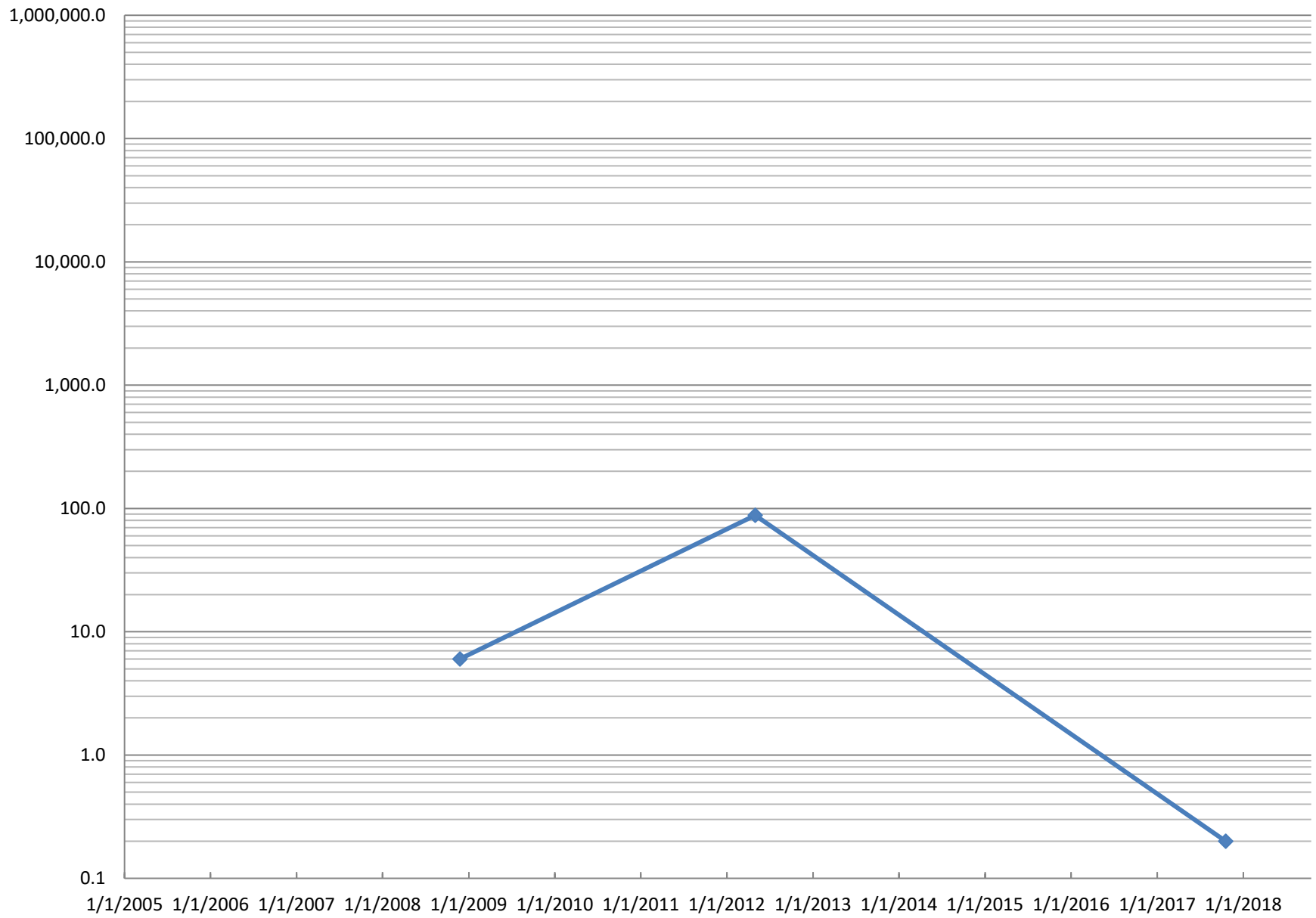
Dissolved Arsenic Concentrations (ug/L) in 5C21-2



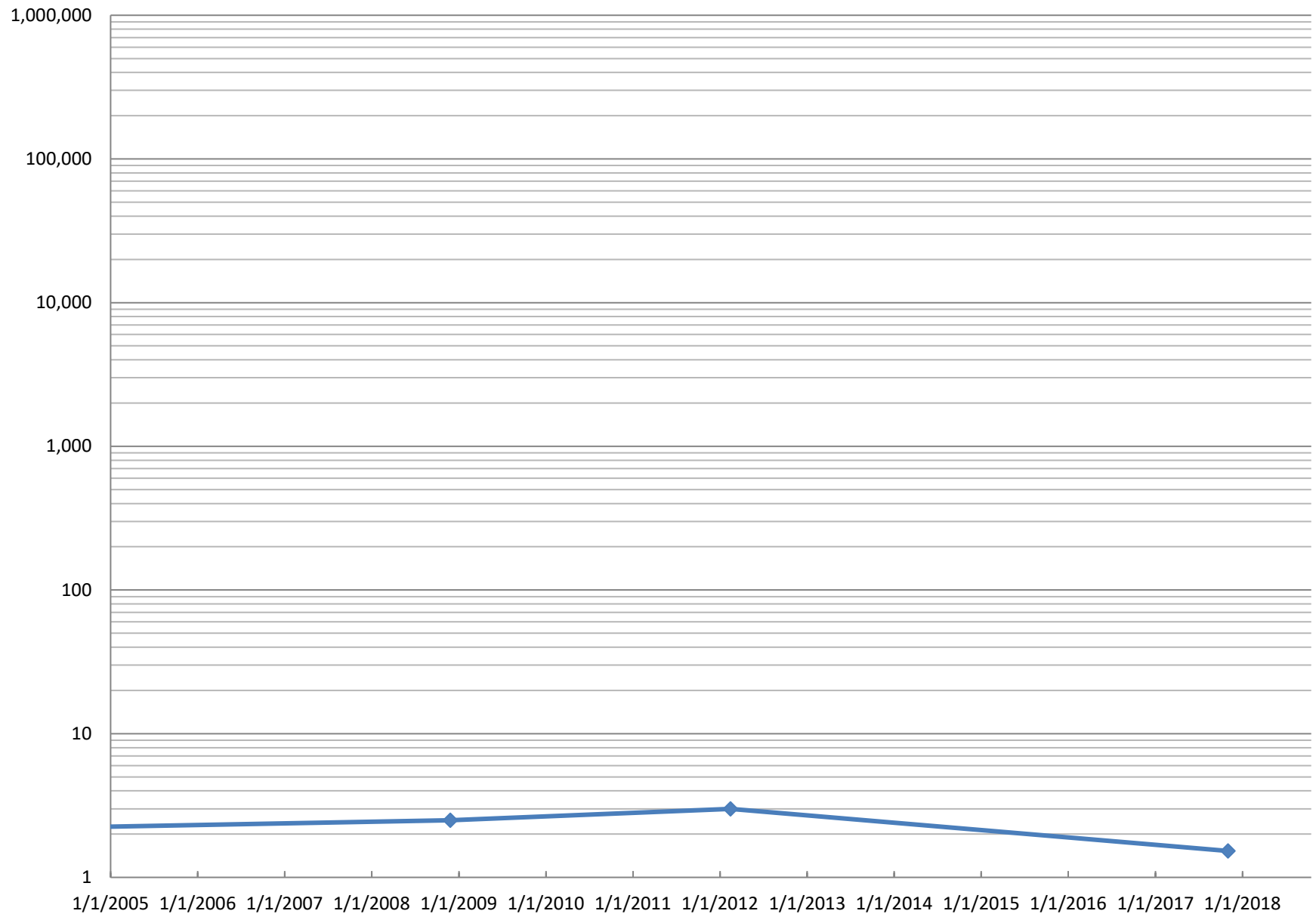
Dissolved Arsenic Concentrations (ug/L) in 5D8-2



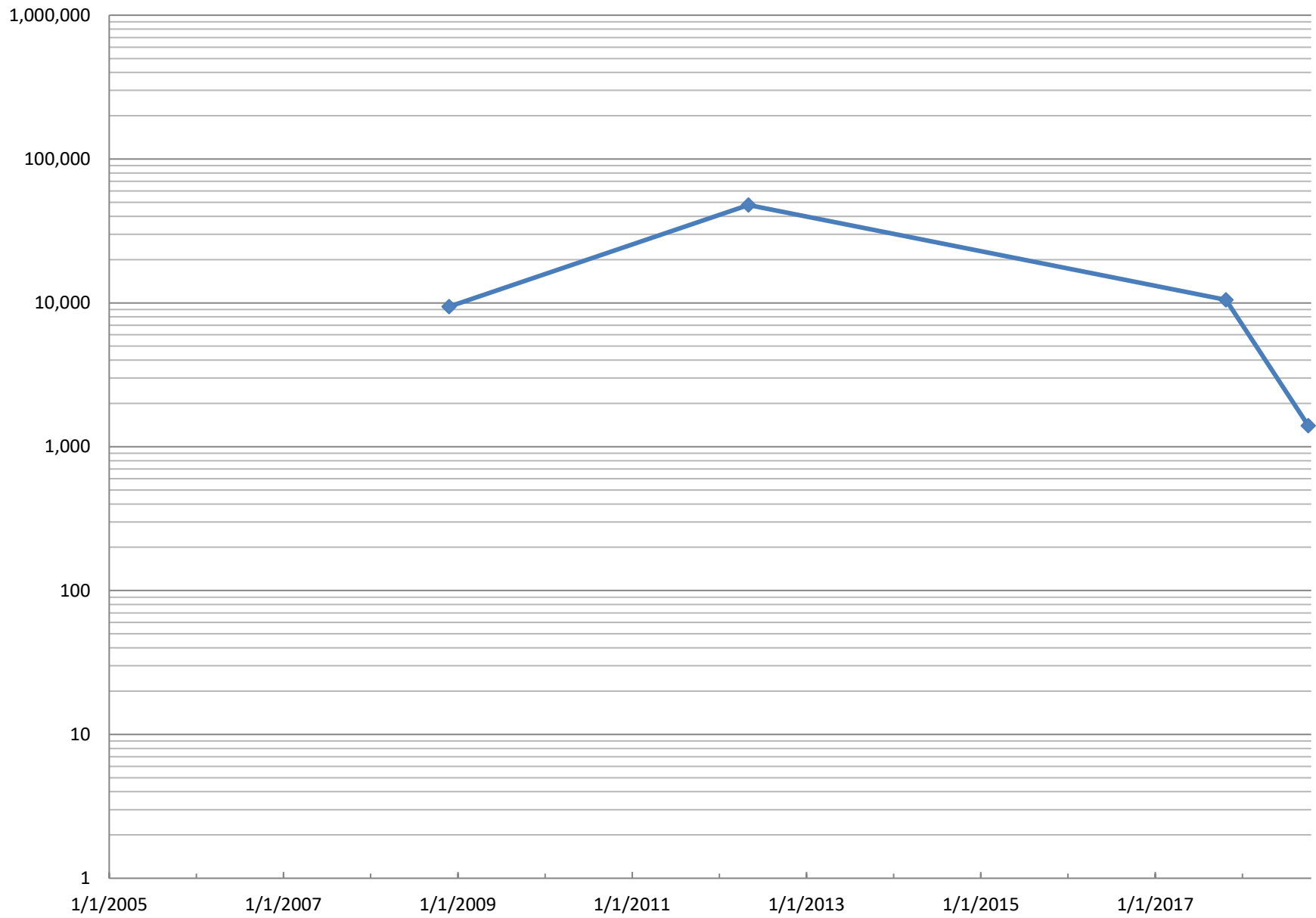
Dissolved Arsenic Concentrations (ug/L) in 5E1-2



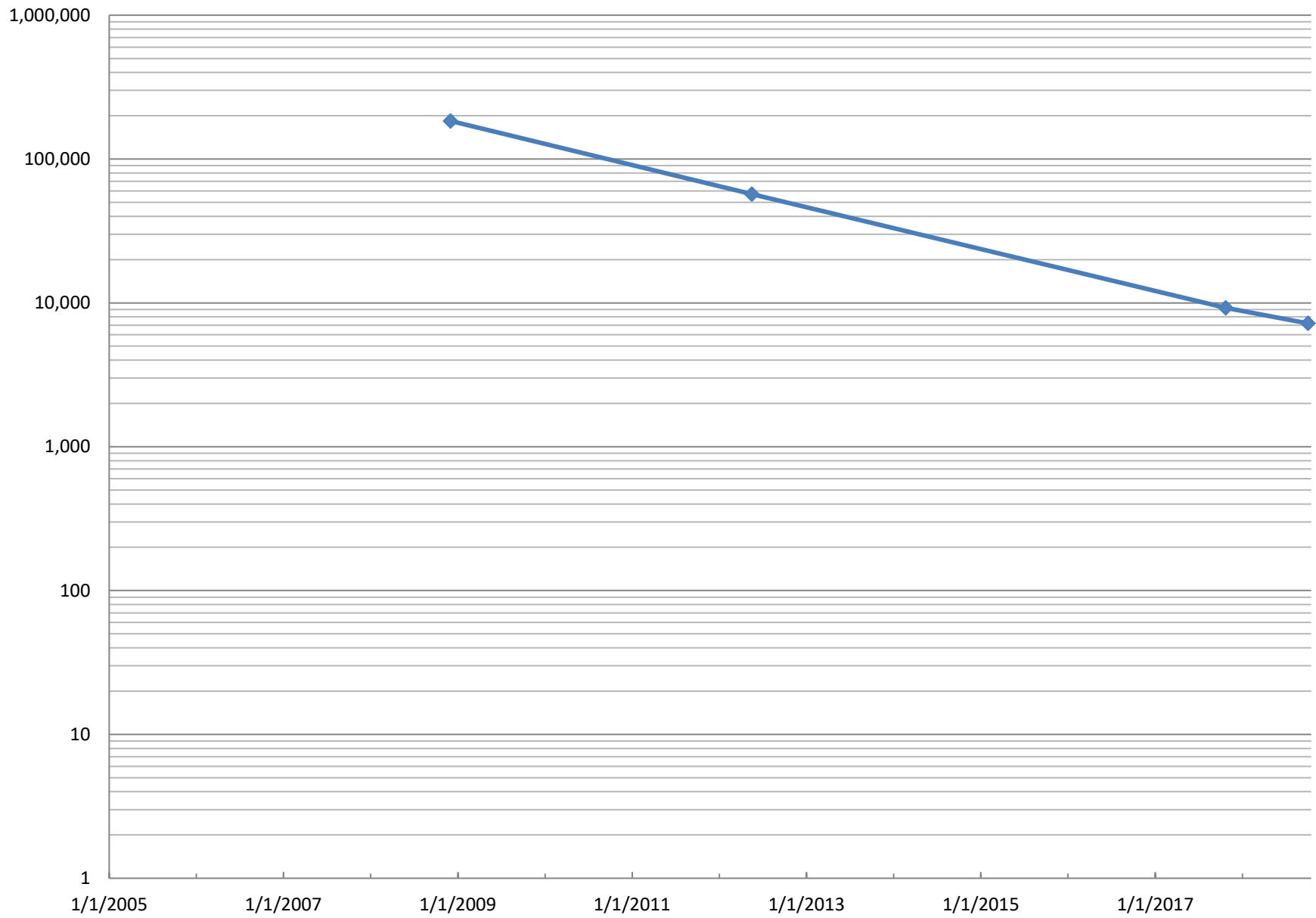
Dissolved Arsenic Concentrations (ug/L) in 5H2-2



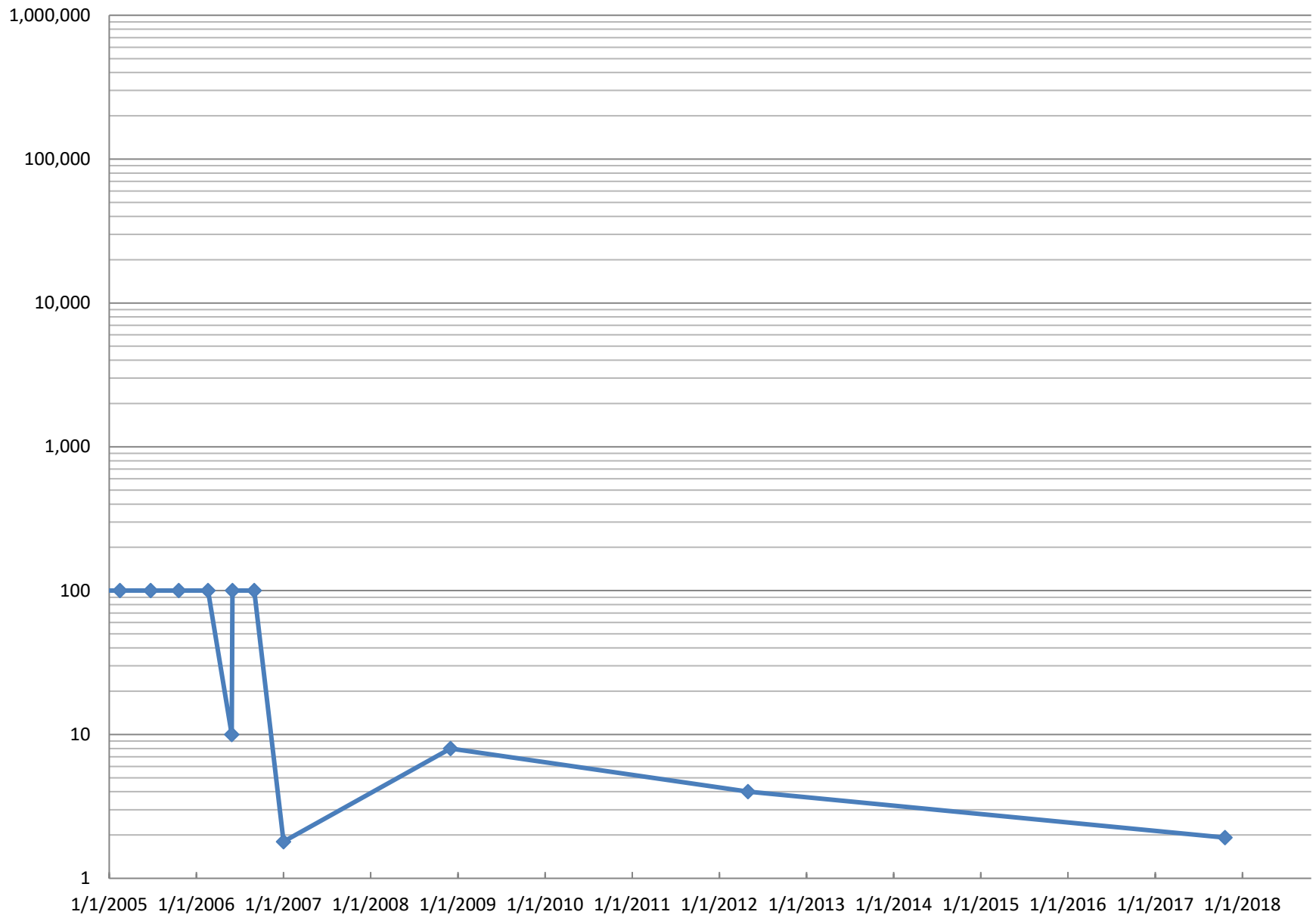
Dissolved Arsenic Concentrations (ug/L) in 6D25-2



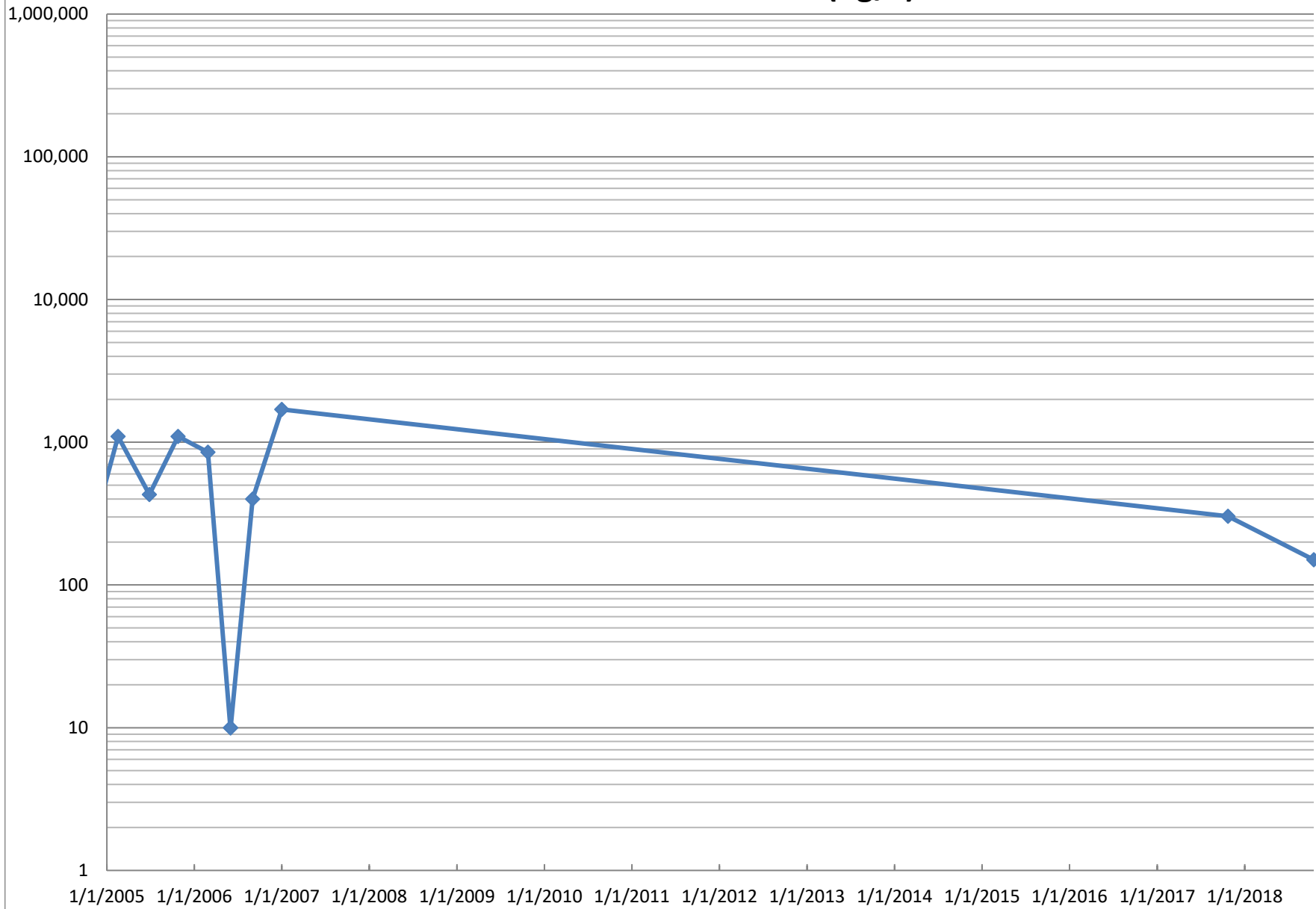
Dissolved Arsenic Concentrations (ug/L) in 6E12-2



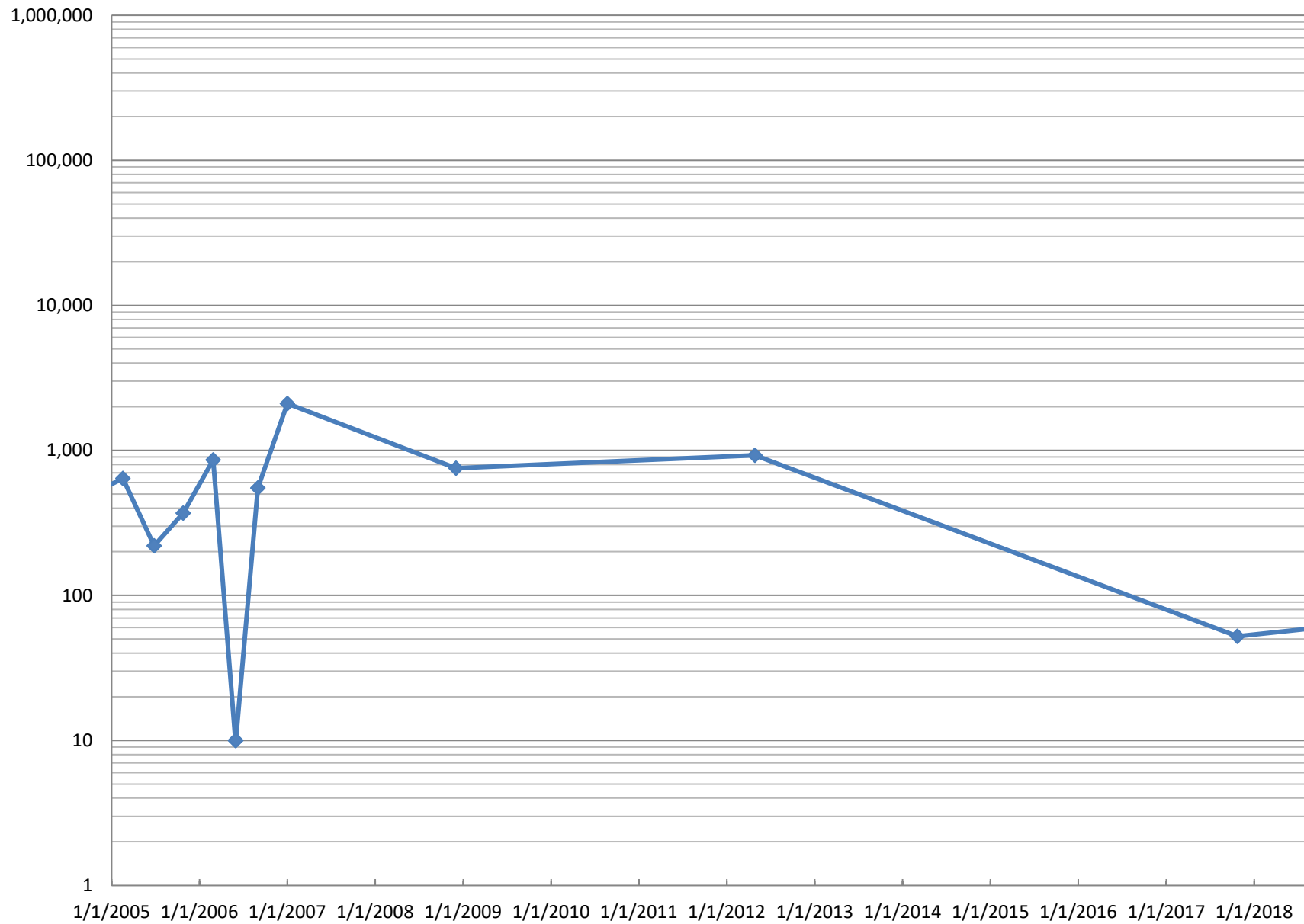
Dissolved Arsenic Concentrations (ug/L) in 6F1-2



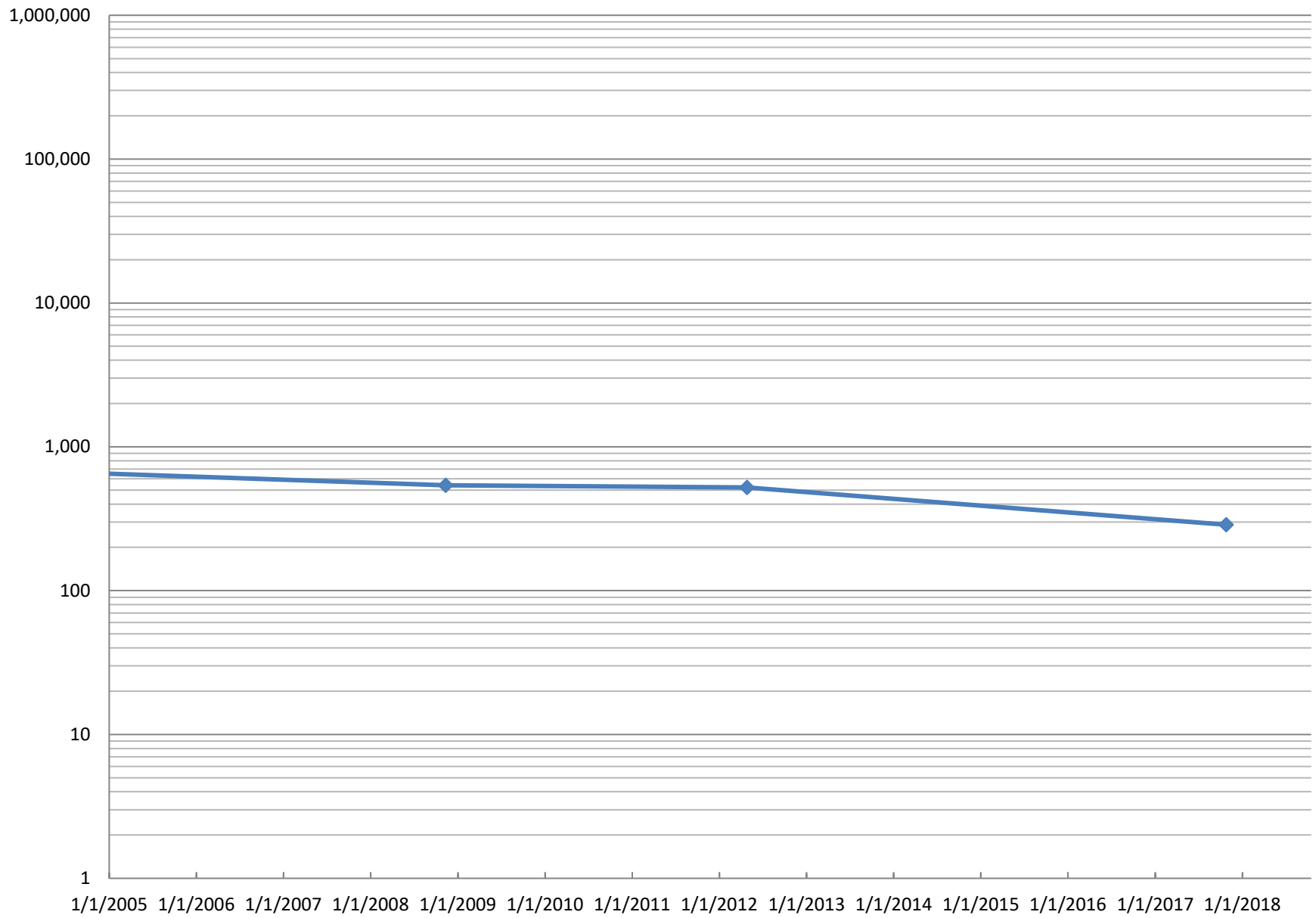
Dissolved Arsenic Concentrations (ug/L) in 7E4-2



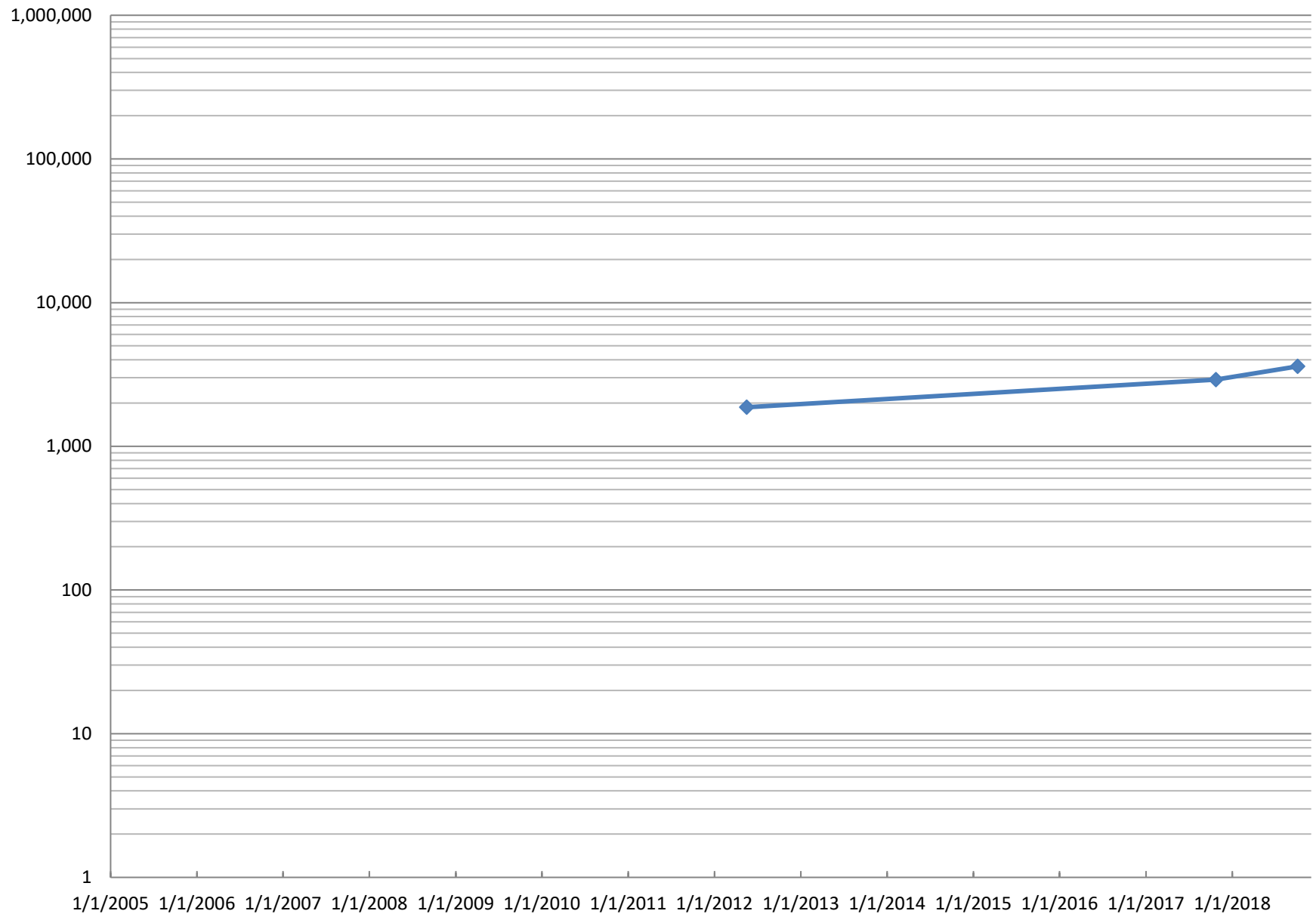
Dissolved Arsenic Concentrations (ug/L) in 7E9-2



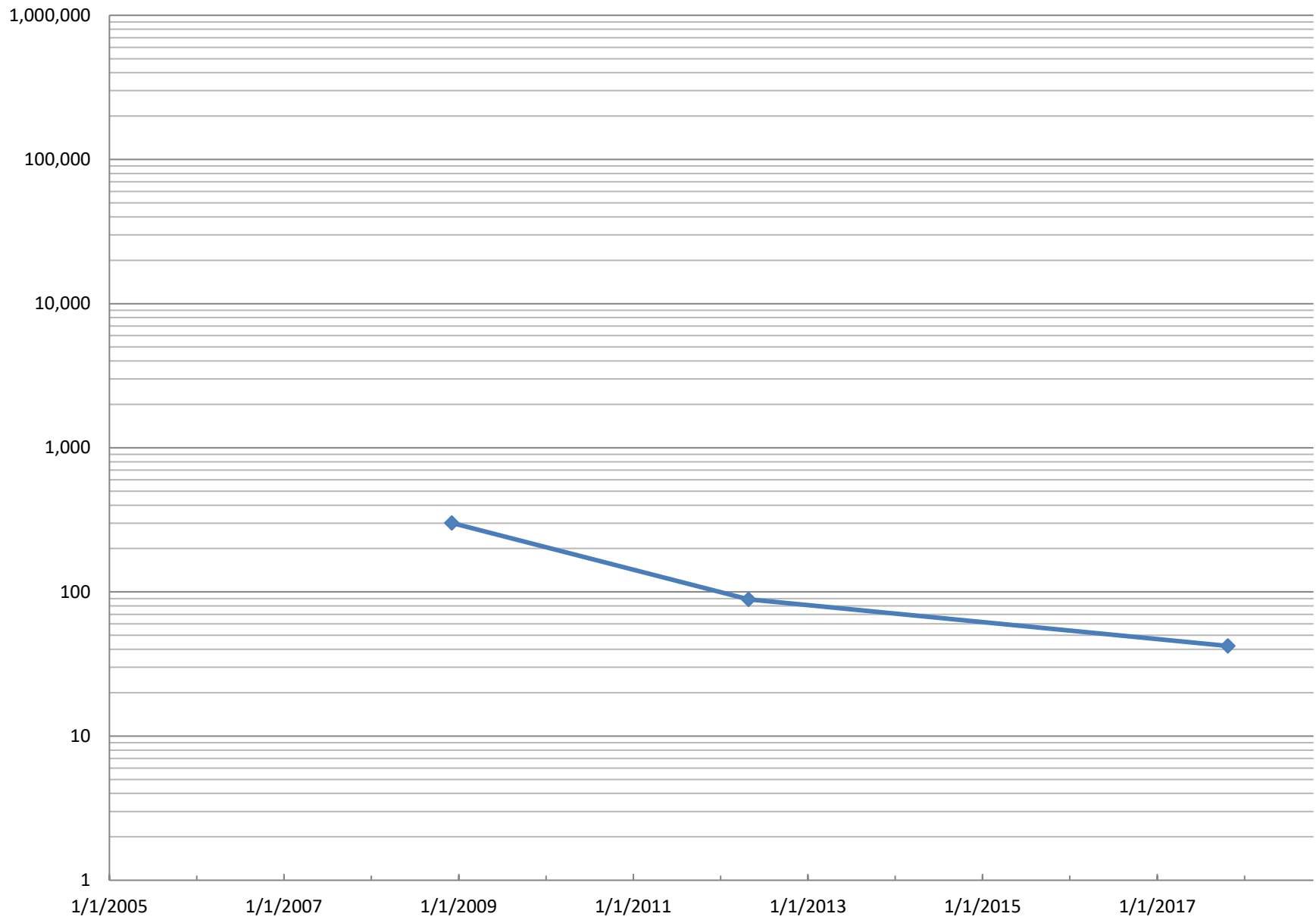
Dissolved Arsenic Concentrations (ug/L) in 7E13-2R



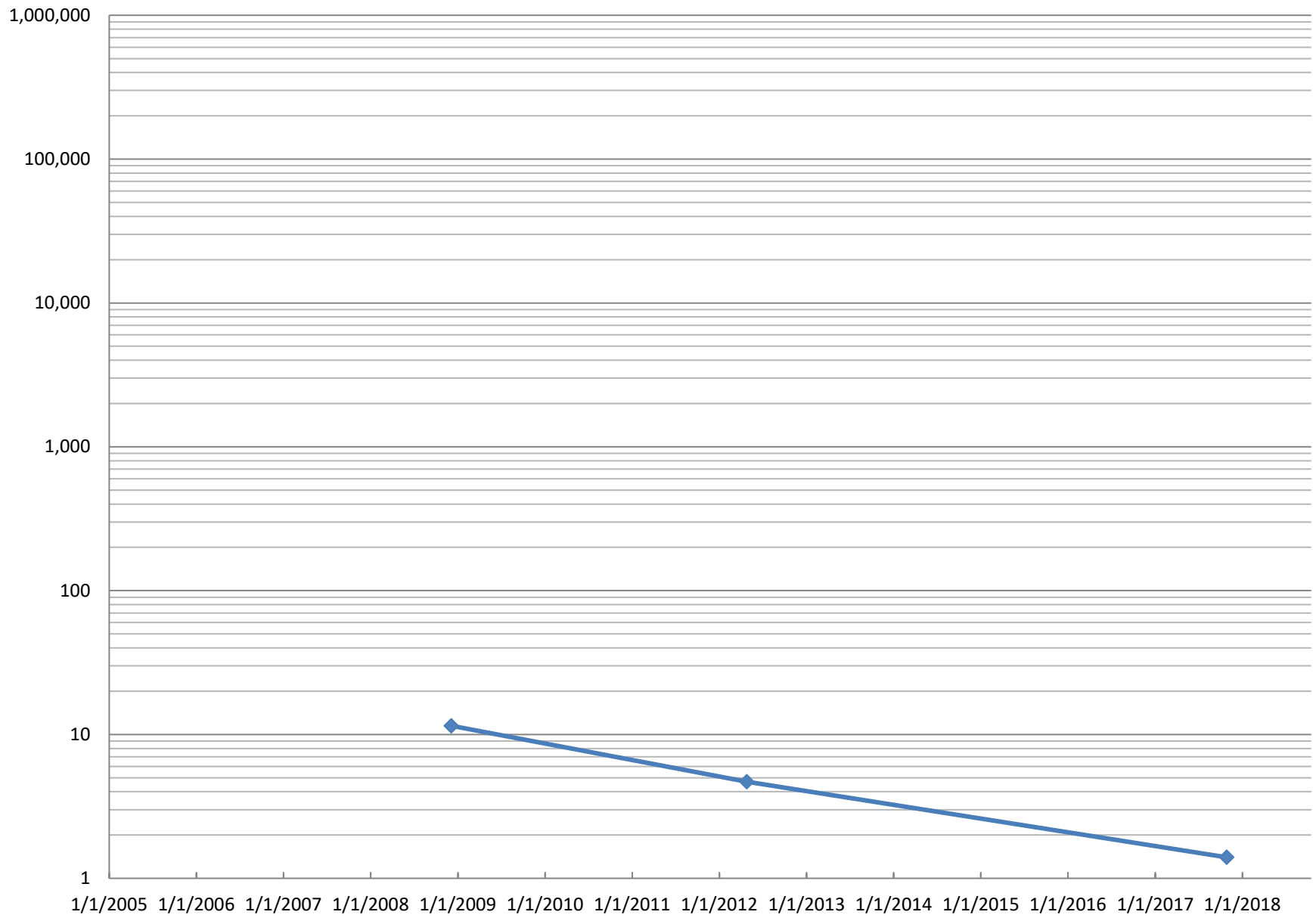
Dissolved Arsenic Concentrations (ug/L) in 7E16-2



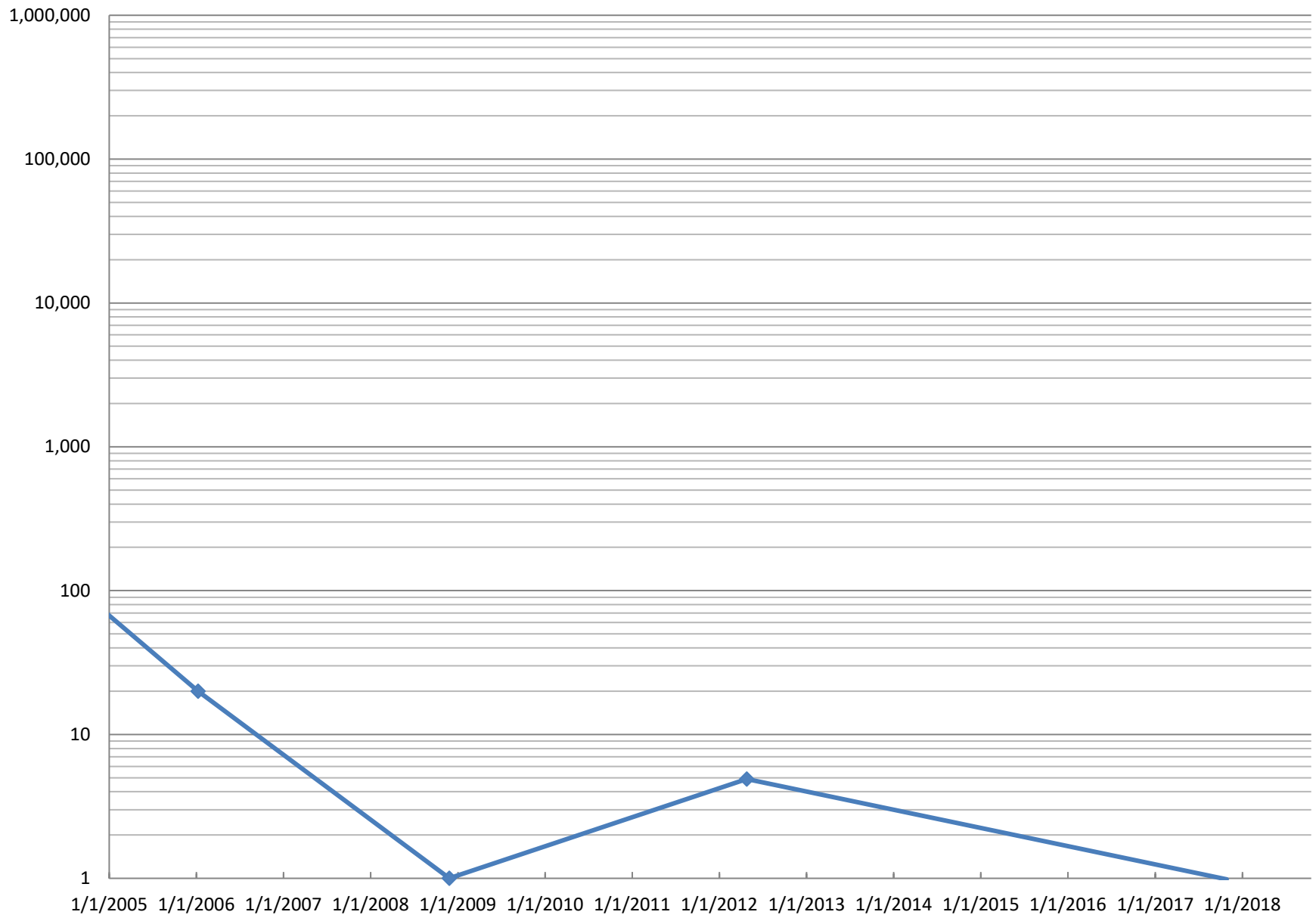
Dissolved Arsenic Concentrations (ug/L) in 7F1-2



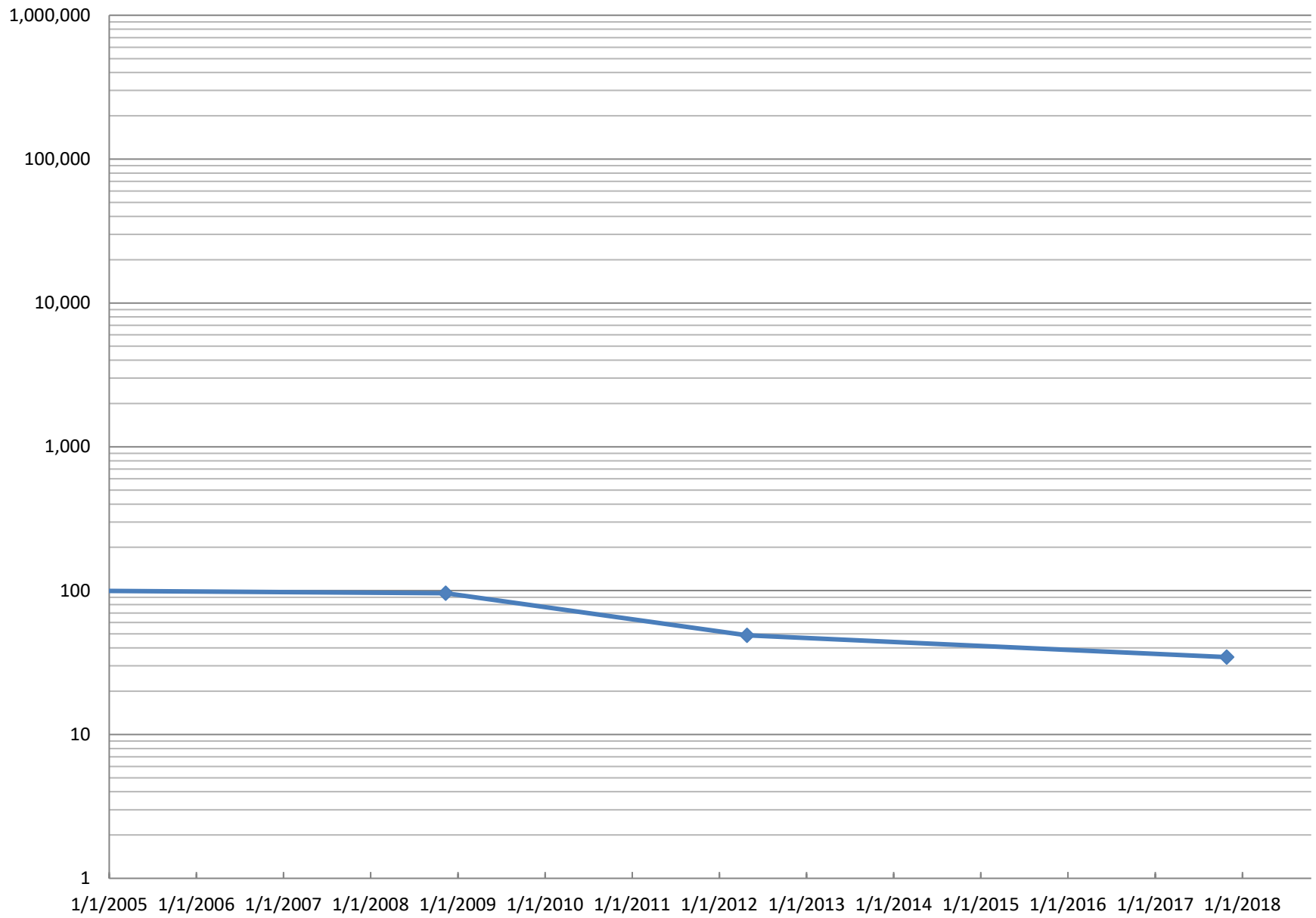
Dissolved Arsenic Concentrations (ug/L) in 7G1-2



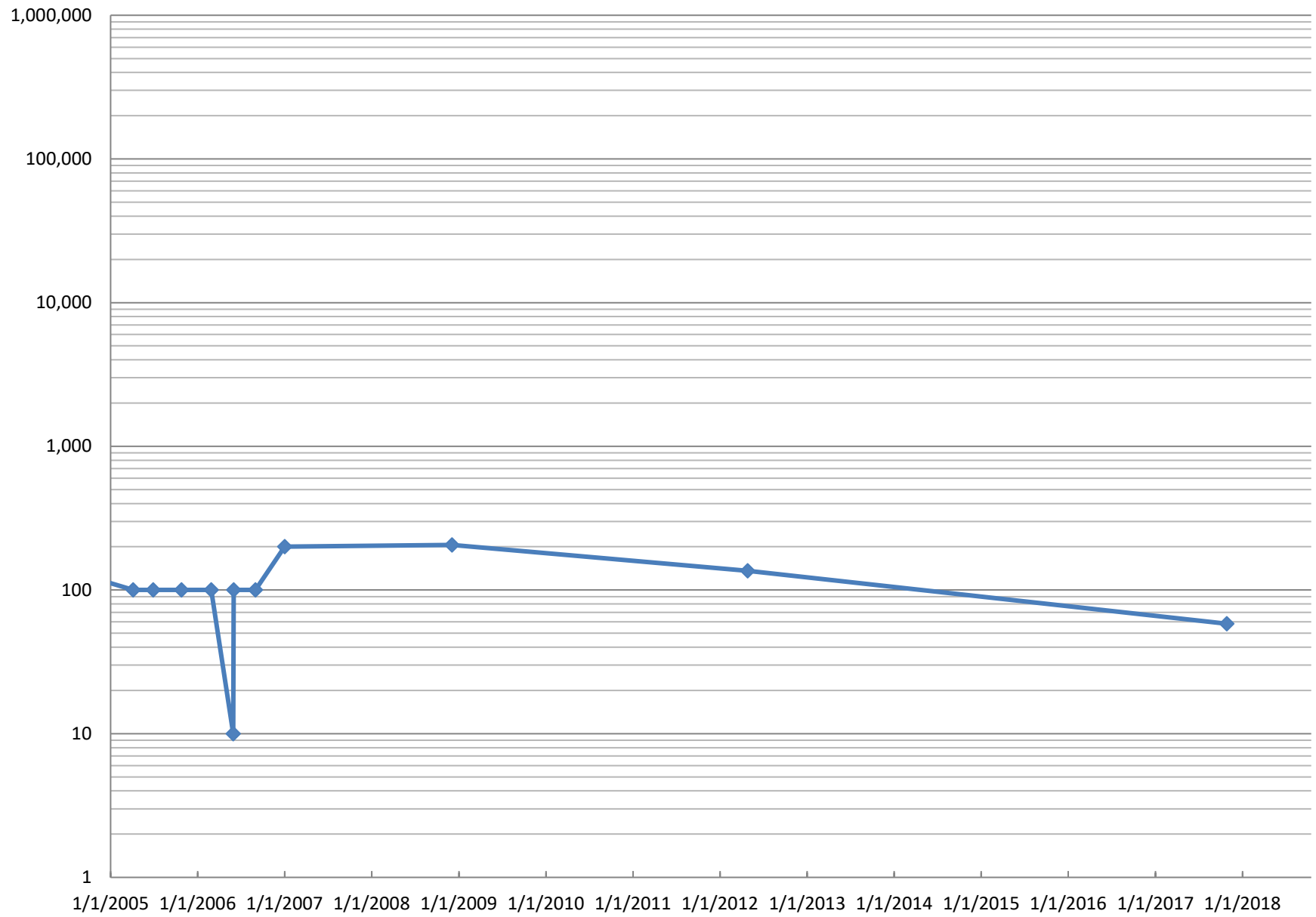
Dissolved Arsenic Concentrations (ug/L) in 713-2



Dissolved Arsenic Concentrations (ug/L) in 8F2-2R



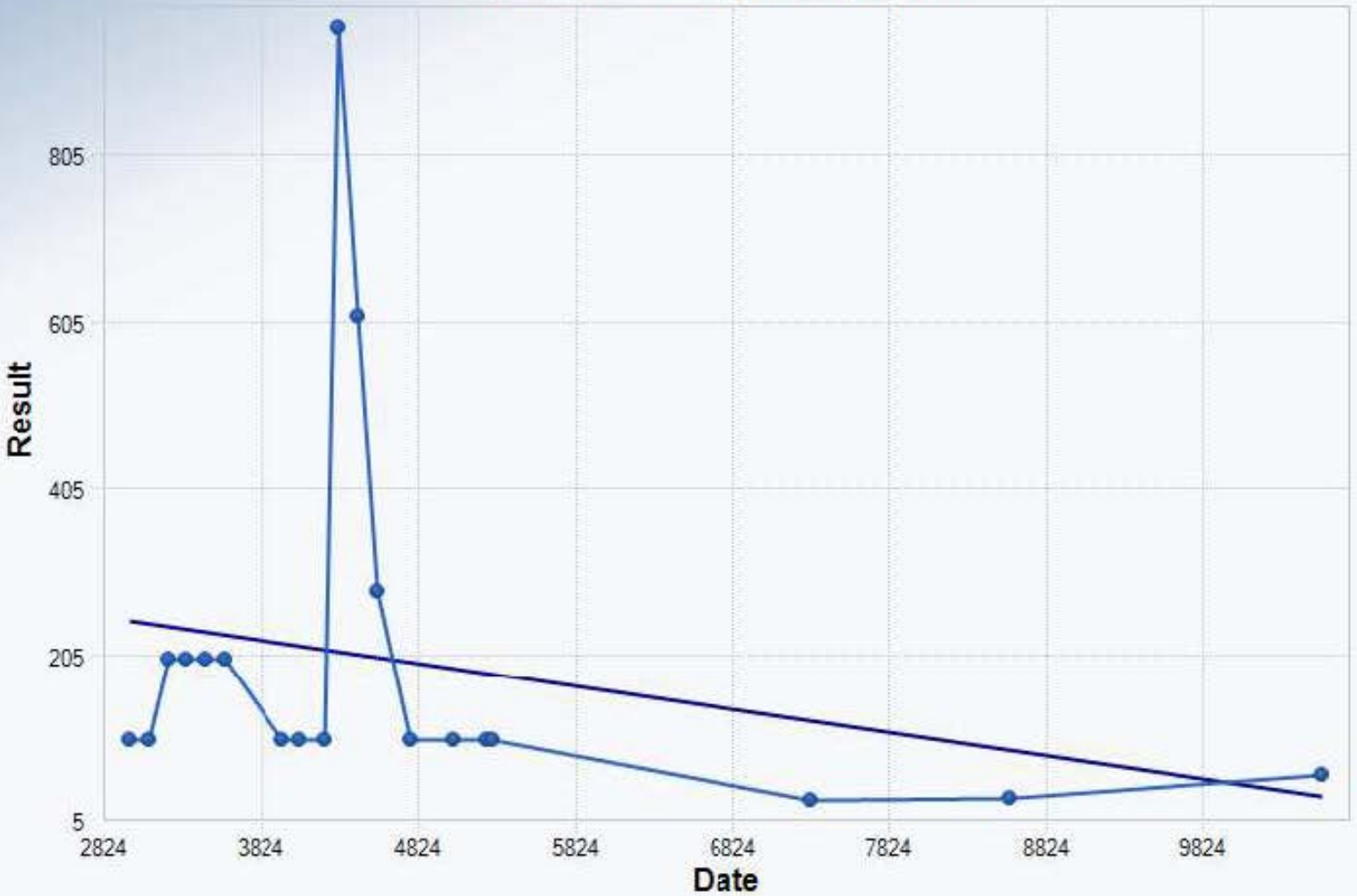
Dissolved Arsenic Concentrations (ug/L) in 8G3-2



Backup for Figure 6-5

3A3-1R

Mann-Kendall Trend Test



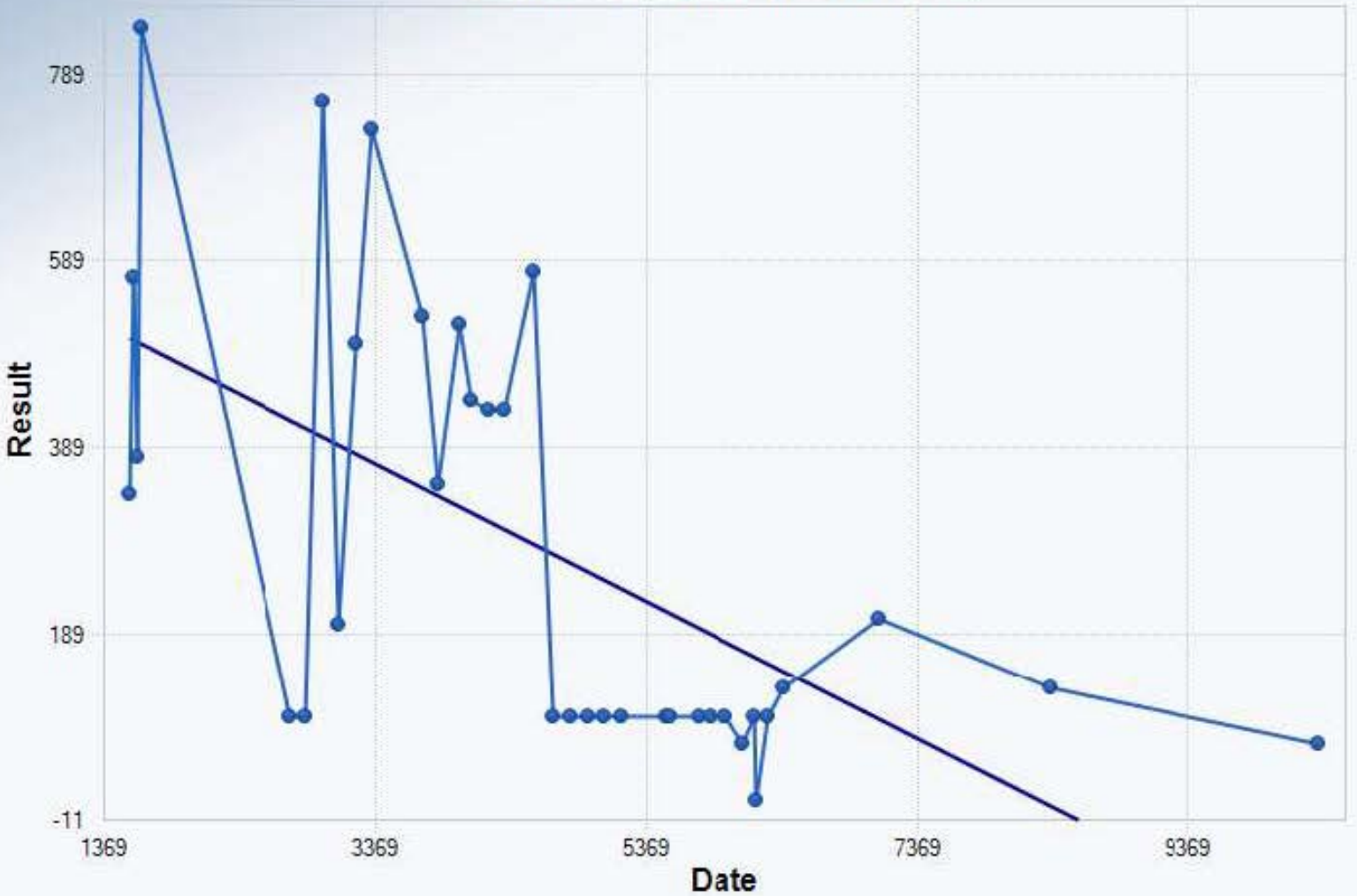
Mann-Kendall Trend Analysis	
n	19
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	26.7644
Standardized Value of S	-1.9429
M-K Test Value (S)	-53
Tabulated p-value	0.0340
Approximate p-value	0.0260

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0280
OLS Regression Intercept	328.7482

Statistically significant evidence of a decreasing trend at the specified level of significance.

3C1-1

Mann-Kendall Trend Test



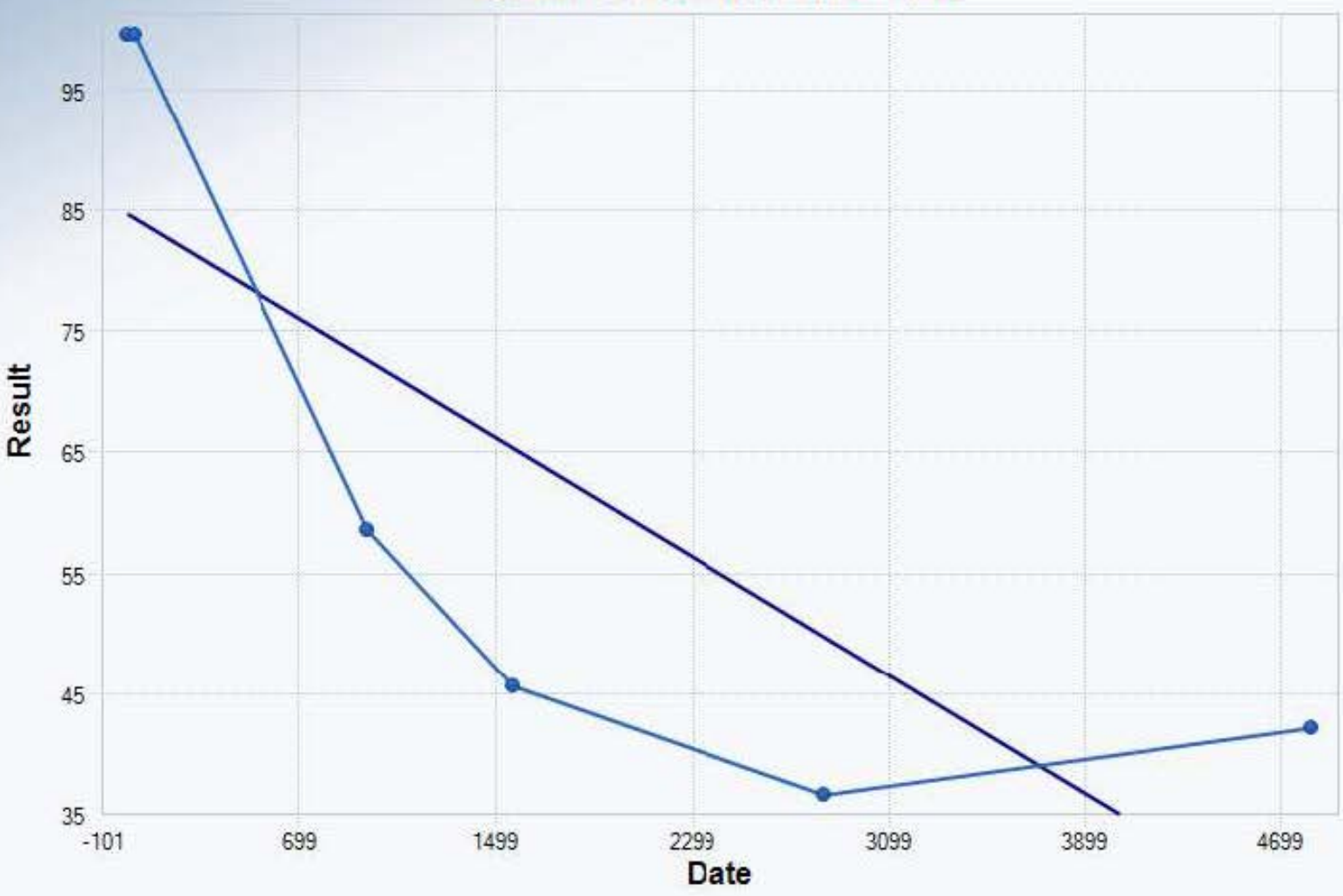
Mann-Kendall Trend Analysis	
n	35
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	67.9975
Standardized Value of S	-3.6472
M-K Test Value (S')	-249
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0001

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0740
OLS Regression Intercept	620.1654

Statistically significant evidence of a decreasing trend at the specified level of significance.

3C2-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	6
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	5.2281
Standardized Value of S	-2.1040
M-K Test Value (S)	-12
Tabulated p-value	0.0080
Approximate p-value	0.0177

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0123
OLS Regression Intercept	85.1675

Statistically significant evidence of a decreasing trend at the specified level of significance.

4B1-1

Mann-Kendall Trend Test



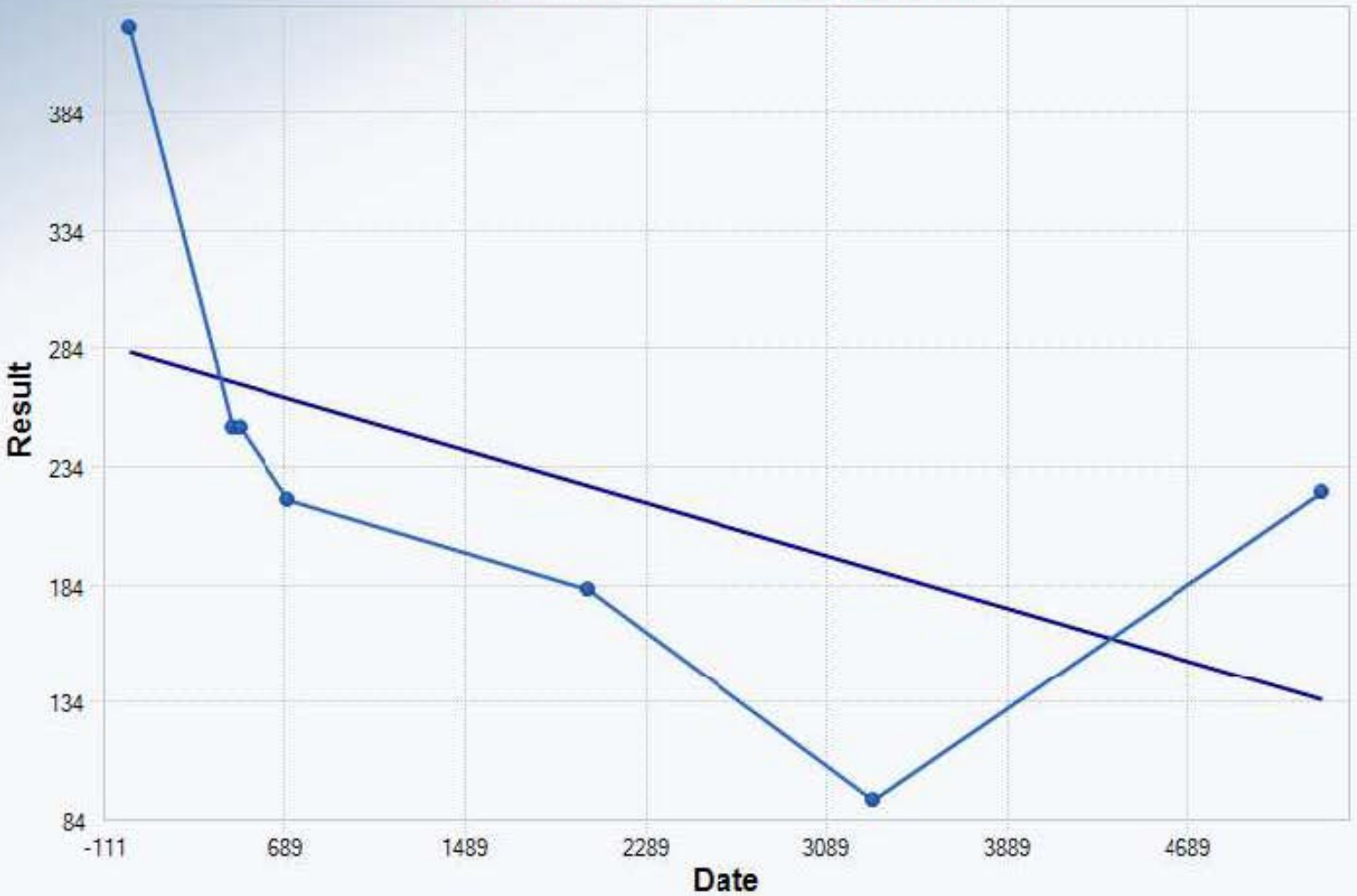
Mann-Kendall Trend Analysis	
n	39
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	82.5/93
Standardized Value of S	-2.7247
M-K Test Value (S)	-226
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0032

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0672
OLS Regression Intercept	803.0346

Statistically significant evidence of a decreasing trend at the specified level of significance.

4B3-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	7
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	6.5828
Standardized Value of S	-1.9748
M-K Test Value (S)	-14
Tabulated p-value	0.0150
Approximate p-value	0.0241

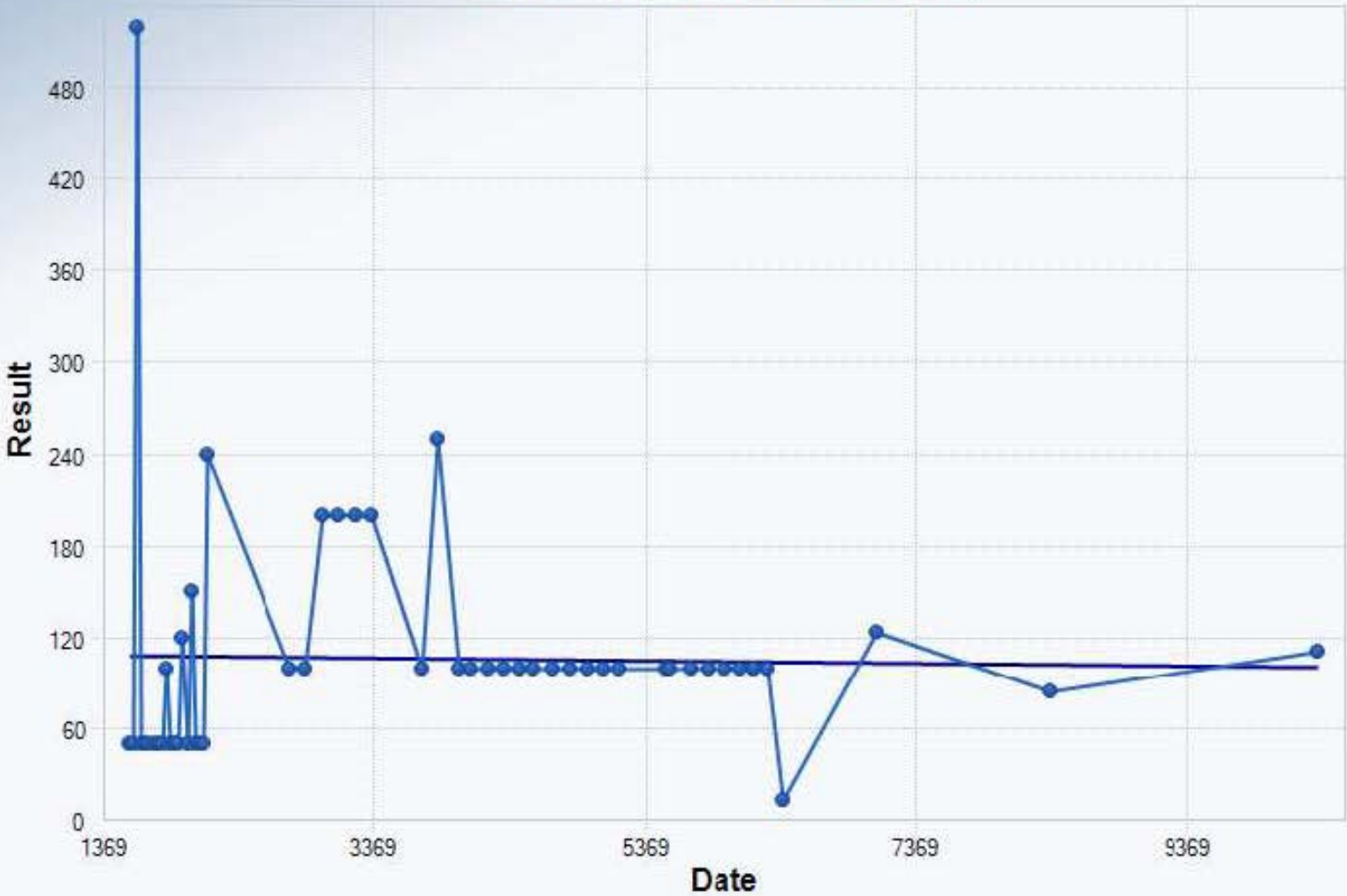
OLS Regression Line (Blue)

OLS Regression Slope	-0.0280
OLS Regression Intercept	282.7422

Statistically significant evidence of a decreasing trend at the specified level of significance.

4C1-1

Mann-Kendall Trend Test



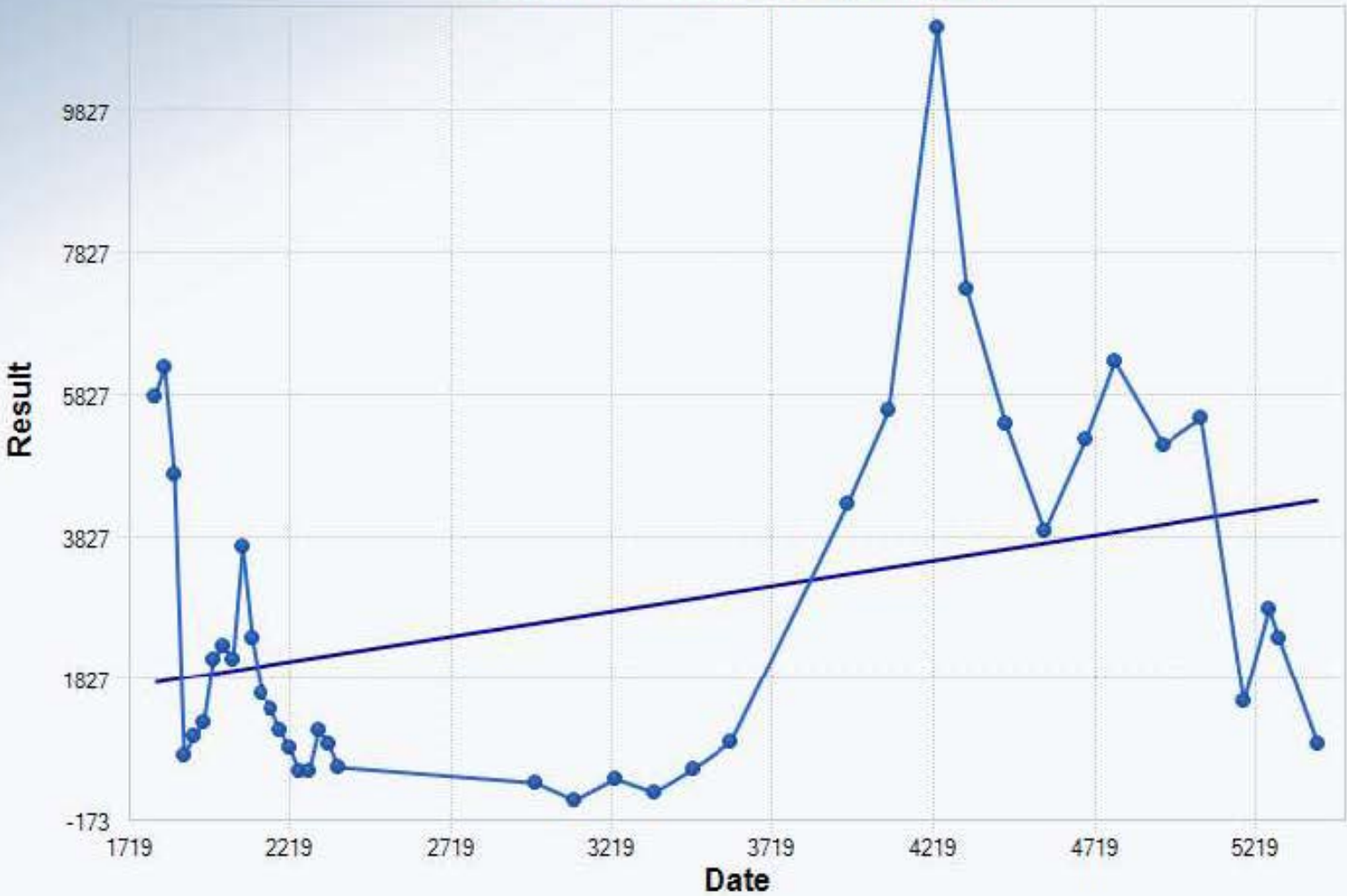
Mann-Kendall Trend Analysis	
n	52
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	118.3934
Standardized Value of S	2.2467
M-K Test Value (S)	267
Appx. Critical Value (0.05)	1.6449
Approximate p-value	0.0123

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0009
OLS Regression Intercept	110.4809

Statistically significant evidence of an increasing trend at the specified level of significance.

5C3-1

Mann-Kendall Trend Test



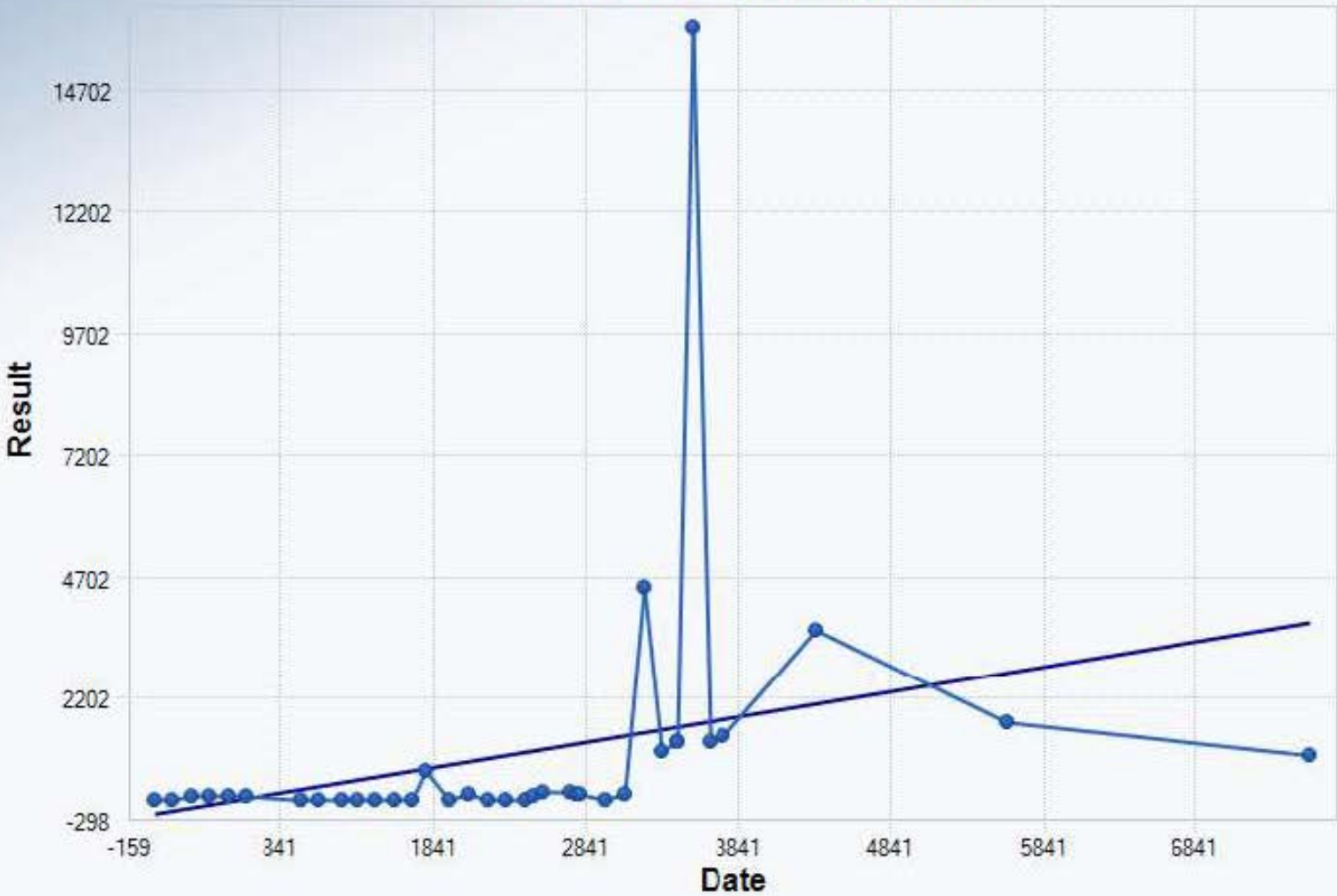
Mann-Kendall Trend Analysis	
n	40
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	85.8060
Standardized Value of S	0.3380
M-K Test Value (S)	30
Appx. Critical Value (0.05)	1.6449
Approximate p-value	0.3677

OLS Regression Line (Blue)	
OLS Regression Slope	0.7174
OLS Regression Intercept	472.4119

Insufficient statistical evidence of a significant trend at the specified level of significance.

5C12-1

Mann-Kendall Trend Test



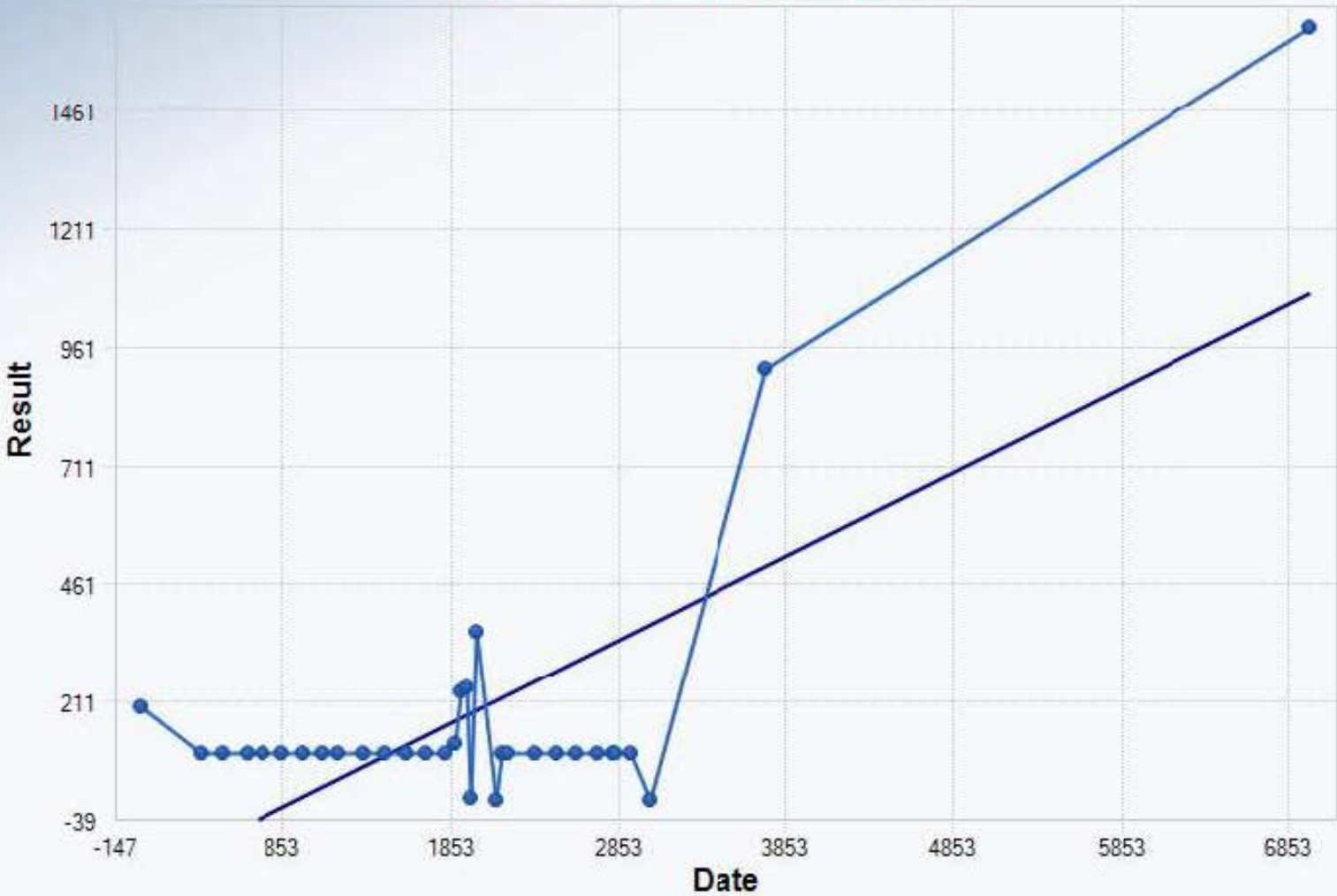
Mann-Kendall Trend Analysis	
n	36
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	70.9577
Standardized Value of S	4.5661
M-K Test Value (S)	325
Appx. Critical Value (0.05)	1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	0.5236
OLS Regression Intercept	-191.7907

Statistically significant evidence of an increasing trend at the specified level of significance.

5C13-1

Mann-Kendall Trend Test



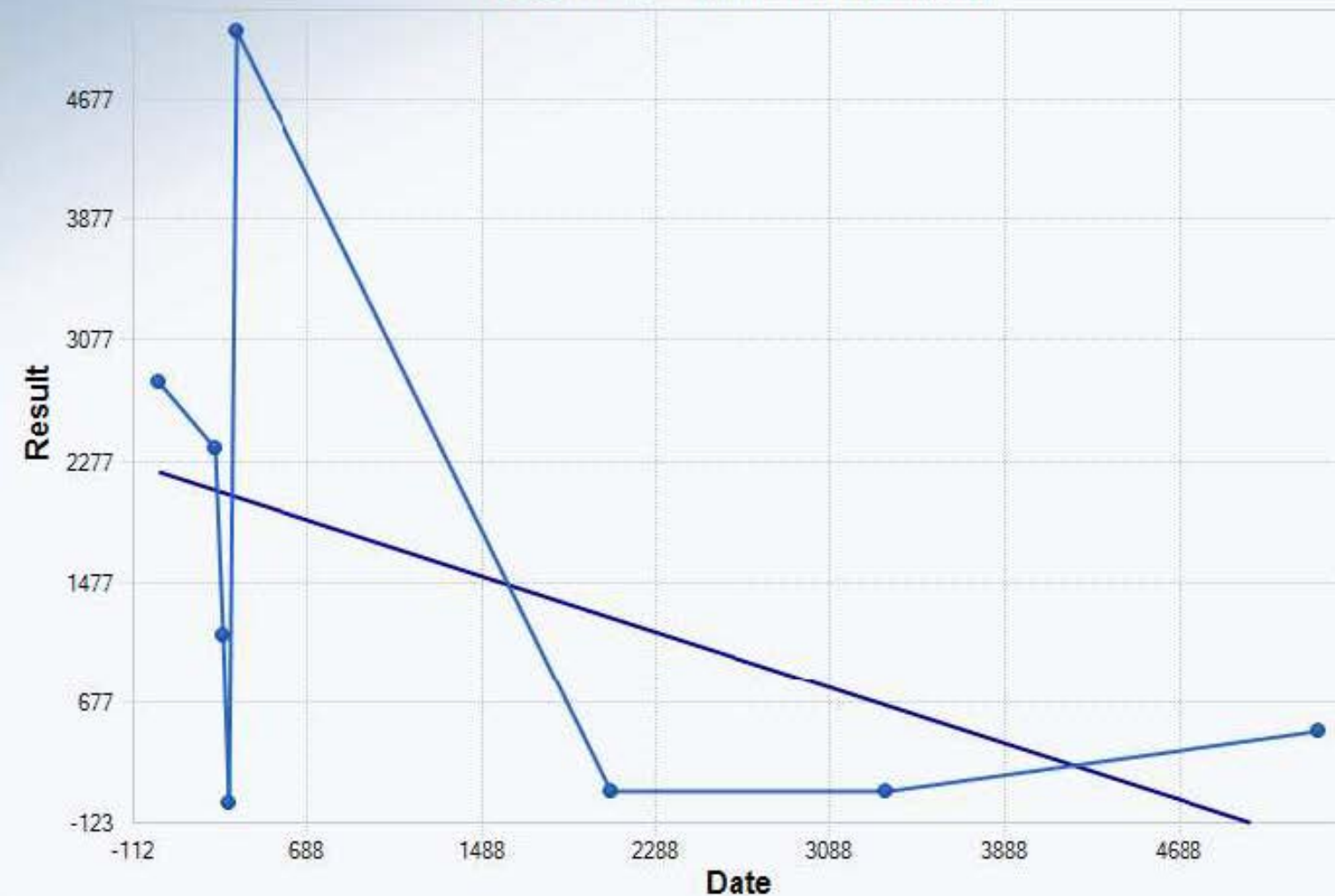
Mann-Kendall Trend Analysis	
n	32
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	50.4480
Standardized Value of S	0.3172
M-K Test Value (S)	17
Appx. Critical Value (0.05)	1.6449
Approximate p-value	0.3756

OLS Regression Line (Blue)	
OLS Regression Slope	0.1777
OLS Regression Intercept	-164.7012

Insufficient statistical evidence of a significant trend at the specified level of significance.

5C16-1R

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	8
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	8.0829
Standardized Value of S	-0.8660
M-K Test Value (S)	-8
Tabulated p-value	0.1190
Approximate p-value	0.1932

OLS Regression Line (Blue)

OLS Regression Slope	-0.4670
OLS Regression Intercept	2,207.5547

Insufficient statistical evidence of a significant trend at the specified level of significance.

5D5-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	57
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	145.1930
Standardized Value of S	-2.9616
M-K Test Value (S)	-431
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0015

OLS Regression Line (Blue)	
OLS Regression Slope	-2.1522
OLS Regression Intercept	24,452.2184

Statistically significant evidence of a decreasing trend at the specified level of significance.

5D7-1R

Mann-Kendall Trend Test



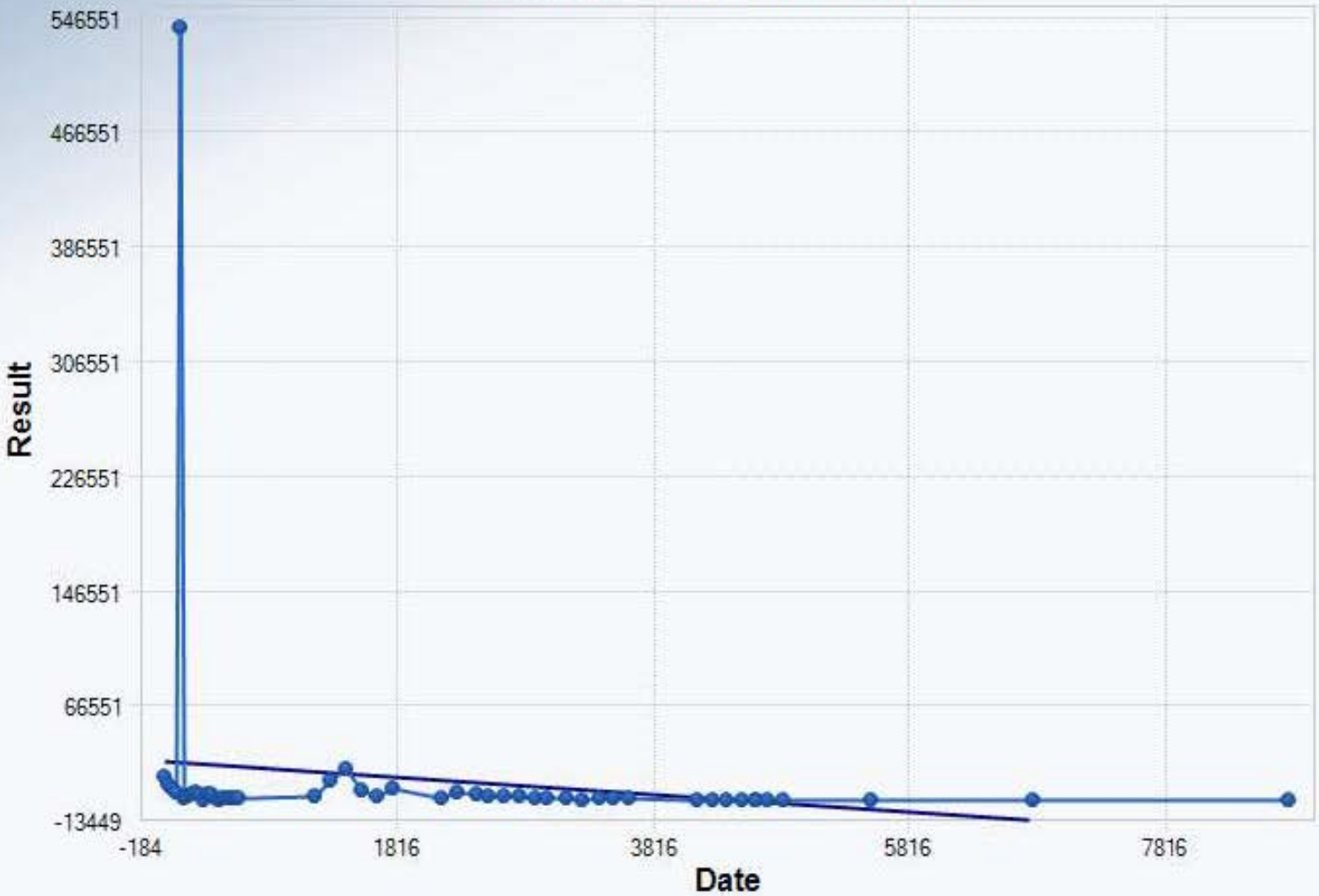
Mann-Kendall Trend Analysis	
n	57
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	144.9/01
Standardized Value of S	-6.0426
M-K Test Value (S)	-877
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	-15.8080
OLS Regression Intercept	116,630.8929

Statistically significant evidence of a decreasing trend at the specified level of significance.

5E1-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	50
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	119.5101
Standardized Value of S	-4.7946
M-K Test Value (S)	-574
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	-6.2559
OLS Regression Intercept	27,760.8683

Statistically significant evidence of a decreasing trend at the specified level of significance.

5E2-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	52
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	126.6702
Standardized Value of S	-5.1551
M-K Test Value (S)	-654
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	-0.8995
OLS Regression Intercept	4,497.8149

Statistically significant evidence of a decreasing trend at the specified level of significance.

5E4-1

Mann-Kendall Trend Test



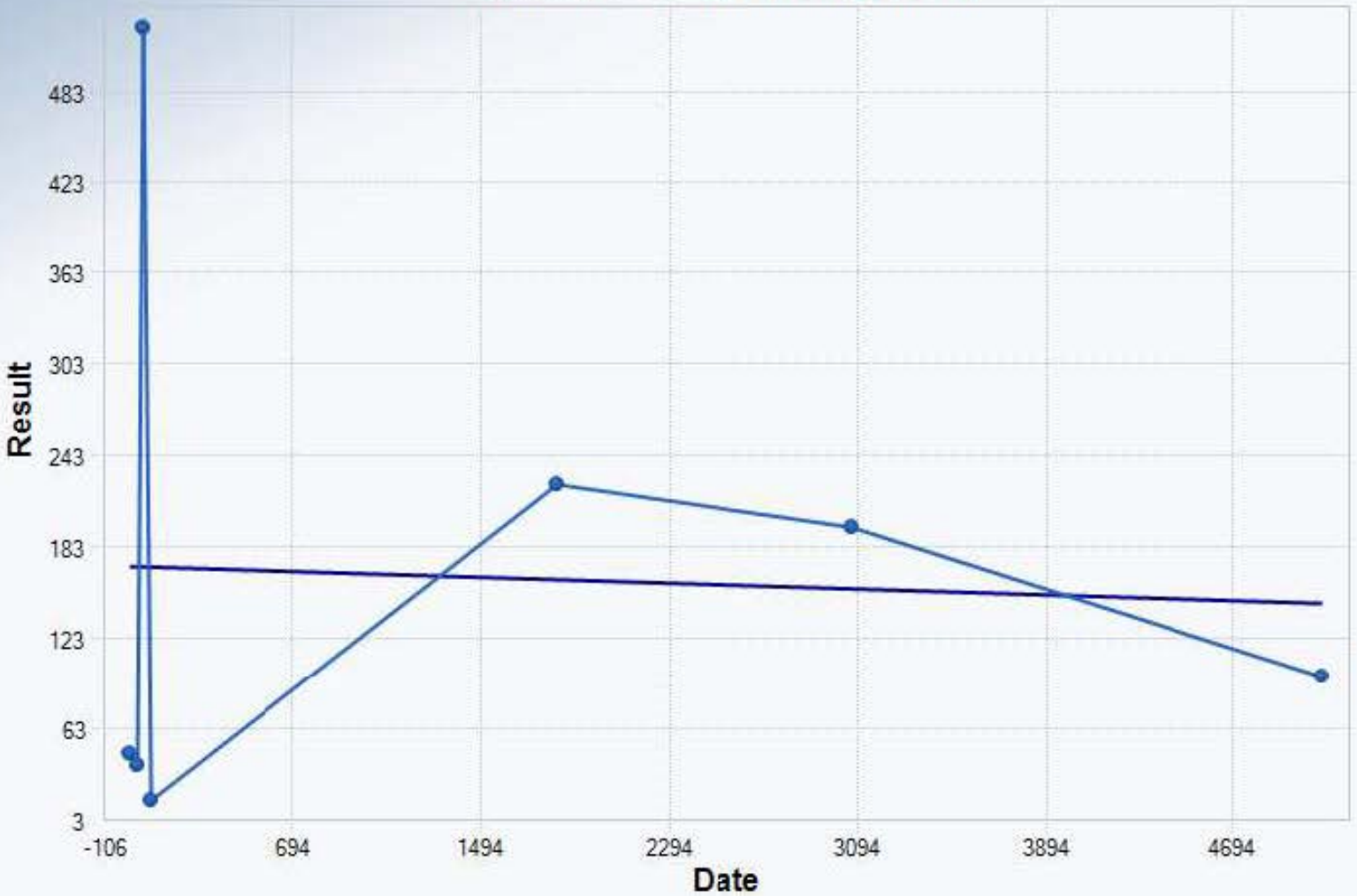
Mann-Kendall Trend Analysis	
n	57
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	145.2171
Standardized Value of S	-6.0530
M-K Test Value (S)	-880
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	-21.6108
OLS Regression Intercept	179,939.0620

Statistically significant evidence of a decreasing trend at the specified level of significance.

5F1-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	7
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	6.6583
Standardized Value of S	0.0000
M-K Test Value (S)	1
Tabulated p-value	0.5000
Approximate p-value	0.5000

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0048
OLS Regression Intercept	170.3771

Insufficient statistical evidence of a significant trend at the specified level of significance.

5H1-1

Mann-Kendall Trend Test

Mann-Kendall Trend Analysis

n	31
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	52.5611
Standardized Value of S	-2.5684
M-K Test Value (S)	-136
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0051

OLS Regression Line (Blue)

OLS Regression Slope	-0.0192
OLS Regression Intercept	193.2436

Statistically significant evidence of a decreasing trend at the specified level of significance.



6D1-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	39
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	82.5974
Standardized Value of S	-3.7289
M-K Test Value (S)	-309
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0001

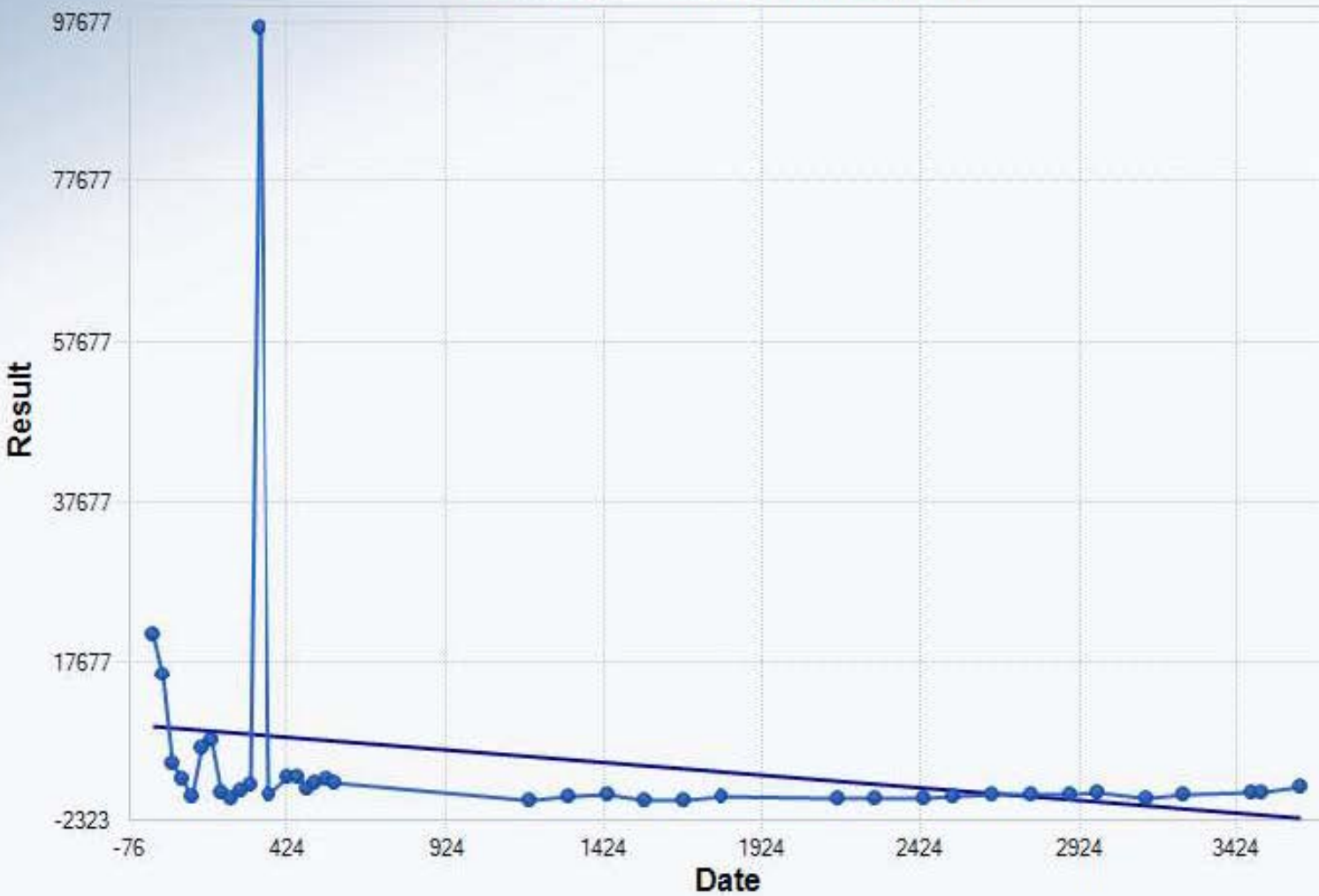
OLS Regression Line (Blue)

OLS Regression Slope	-2.5871
OLS Regression Intercept	7,968.3683

Statistically significant evidence of a decreasing trend at the specified level of significance.

6D3-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	38
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	79.5110
Standardized Value of S	-2.8801
M-K Test Value (S)	-230
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0020

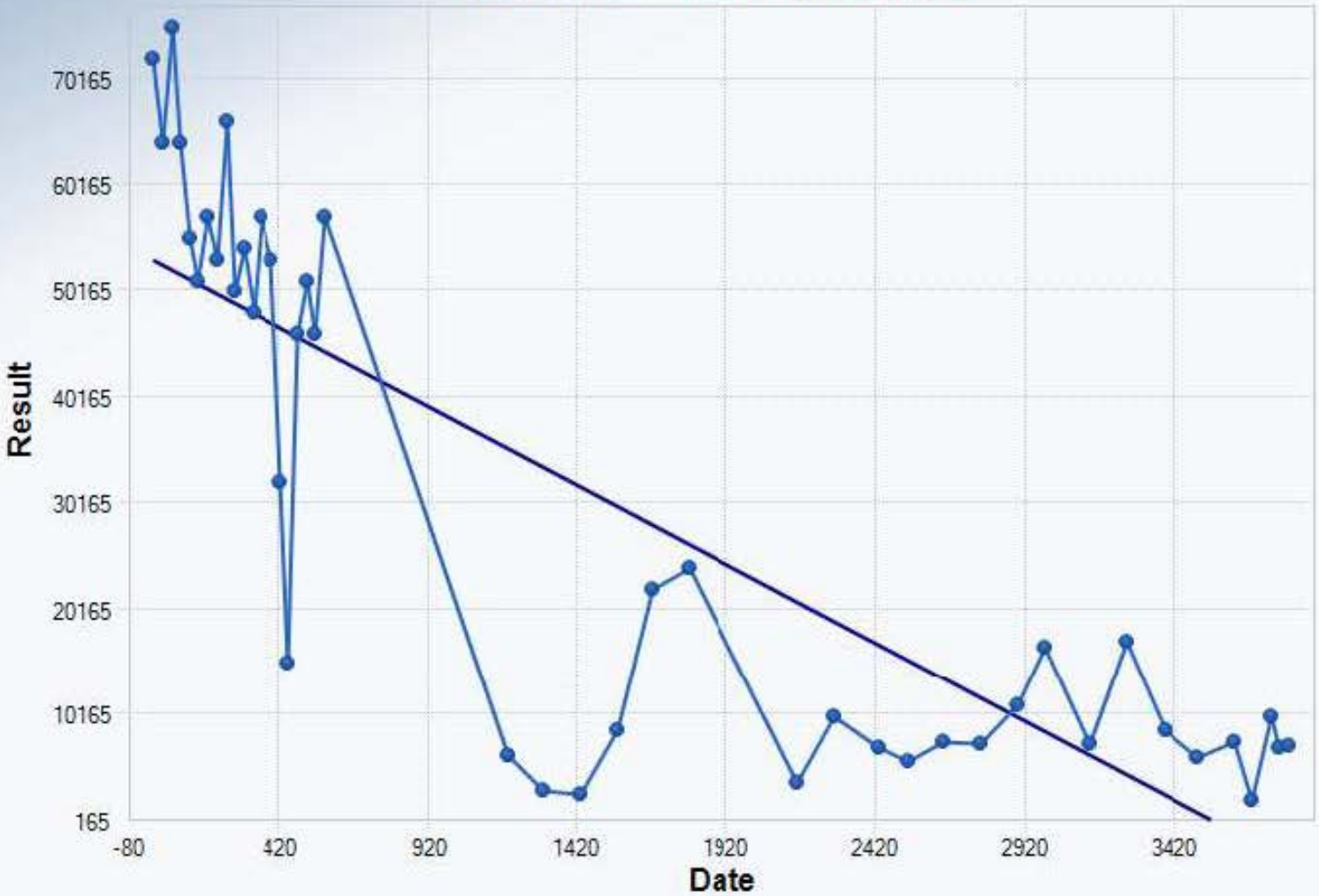
OLS Regression Line (Blue)

OLS Regression Slope	-3.1744
OLS Regression Intercept	9,366.2670

Statistically significant evidence of a decreasing trend at the specified level of significance.

6D9-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	43
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	95.5022
Standardized Value of S	-5.6020
M-K Test Value (S)	-536
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

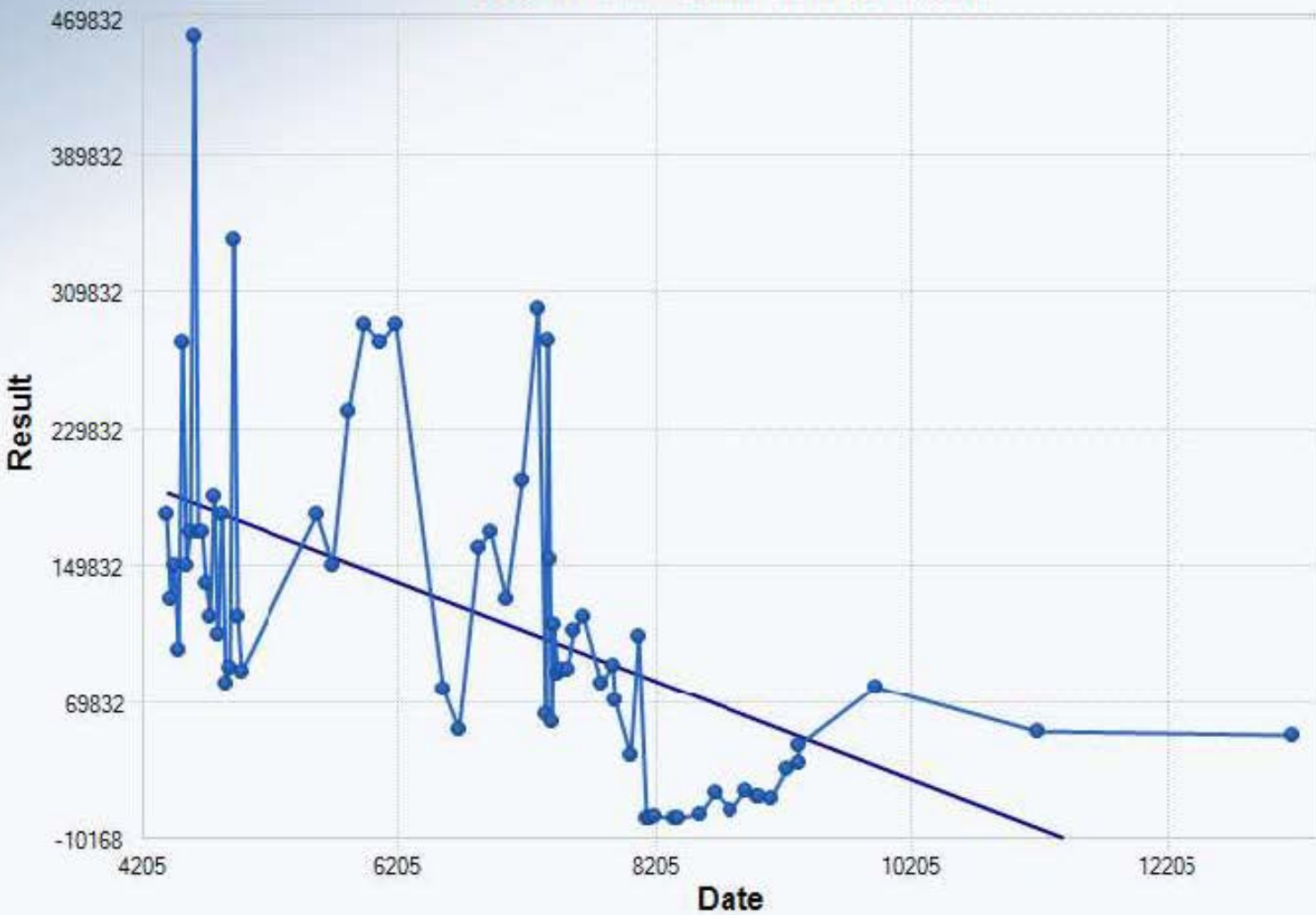
OLS Regression Line (Blue)

OLS Regression Slope	-14.9584
OLS Regression Intercept	53,033.3442

Statistically significant evidence of a decreasing trend at the specified level of significance.

6D14-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	66
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	180.6267
Standardized Value of S	-5.7190
M-K Test Value (S)	-1.034
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	-29.0816
OLS Regression Intercept	320,665.8765

Statistically significant evidence of a decreasing trend at the specified level of significance.

6E1-1

Mann-Kendall Trend Test



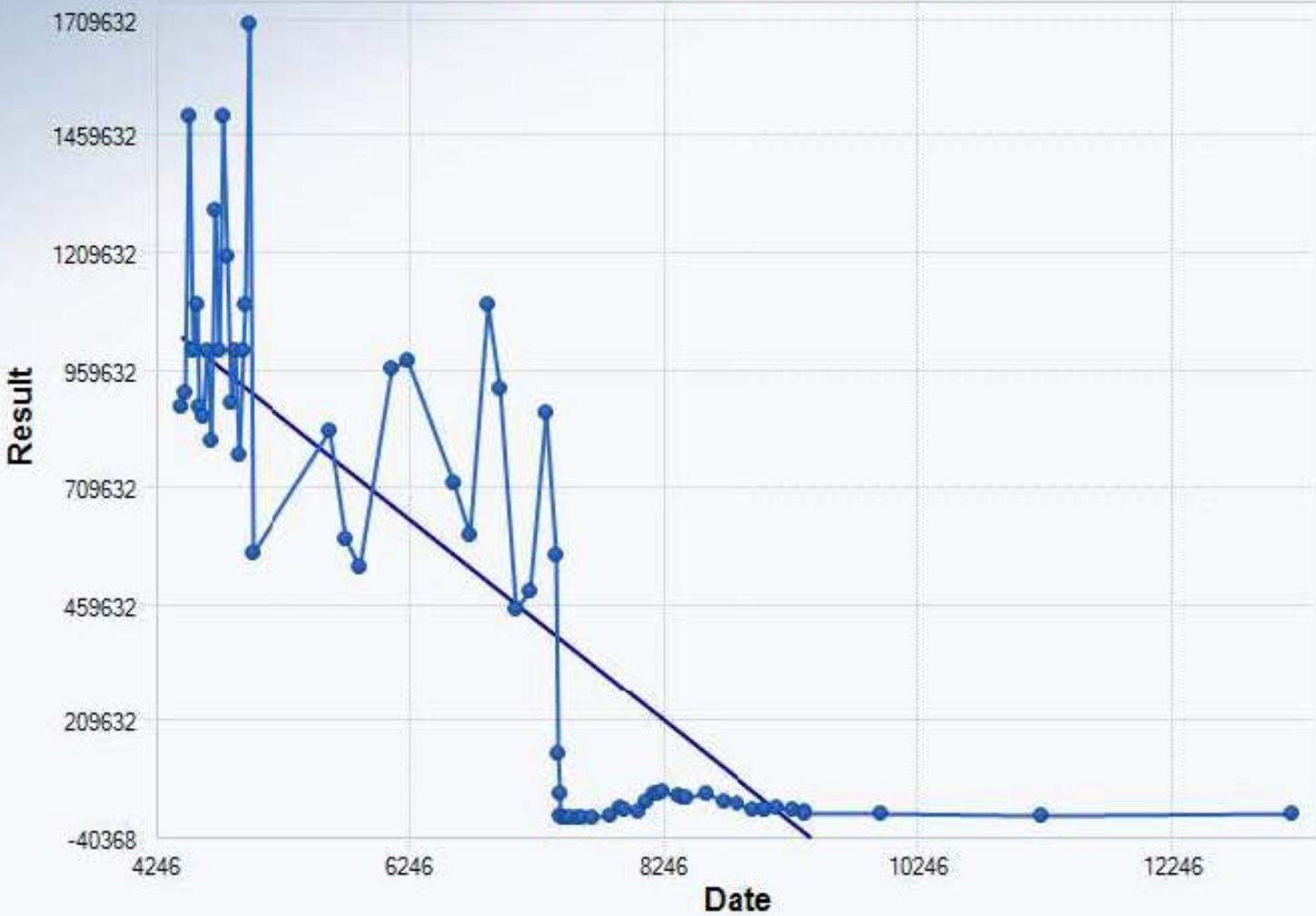
Mann-Kendall Trend Analysis	
n	58
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	149.0067
Standardized Value of S	-5.6373
M-K Test Value (S)	-841
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	-80.1288
OLS Regression Intercept	758,478.3845

Statistically significant evidence of a decreasing trend at the specified level of significance.

6E2-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	66
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	180.6304
Standardized Value of S	-7.0033
M-K Test Value (S)	-1.266
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)

OLS Regression Slope	-215.0132
OLS Regression Intercept	1,982,920.0458

Statistically significant evidence of a decreasing trend at the specified level of significance.

6E5-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	53
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	130.2498
Standardized Value of S	-6.3877
M-K Test Value (S)	-833
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	-64.5135
OLS Regression Intercept	322,585.9232

Statistically significant evidence of a decreasing trend at the specified level of significance.

6E6-1

Mann-Kendall Trend Test



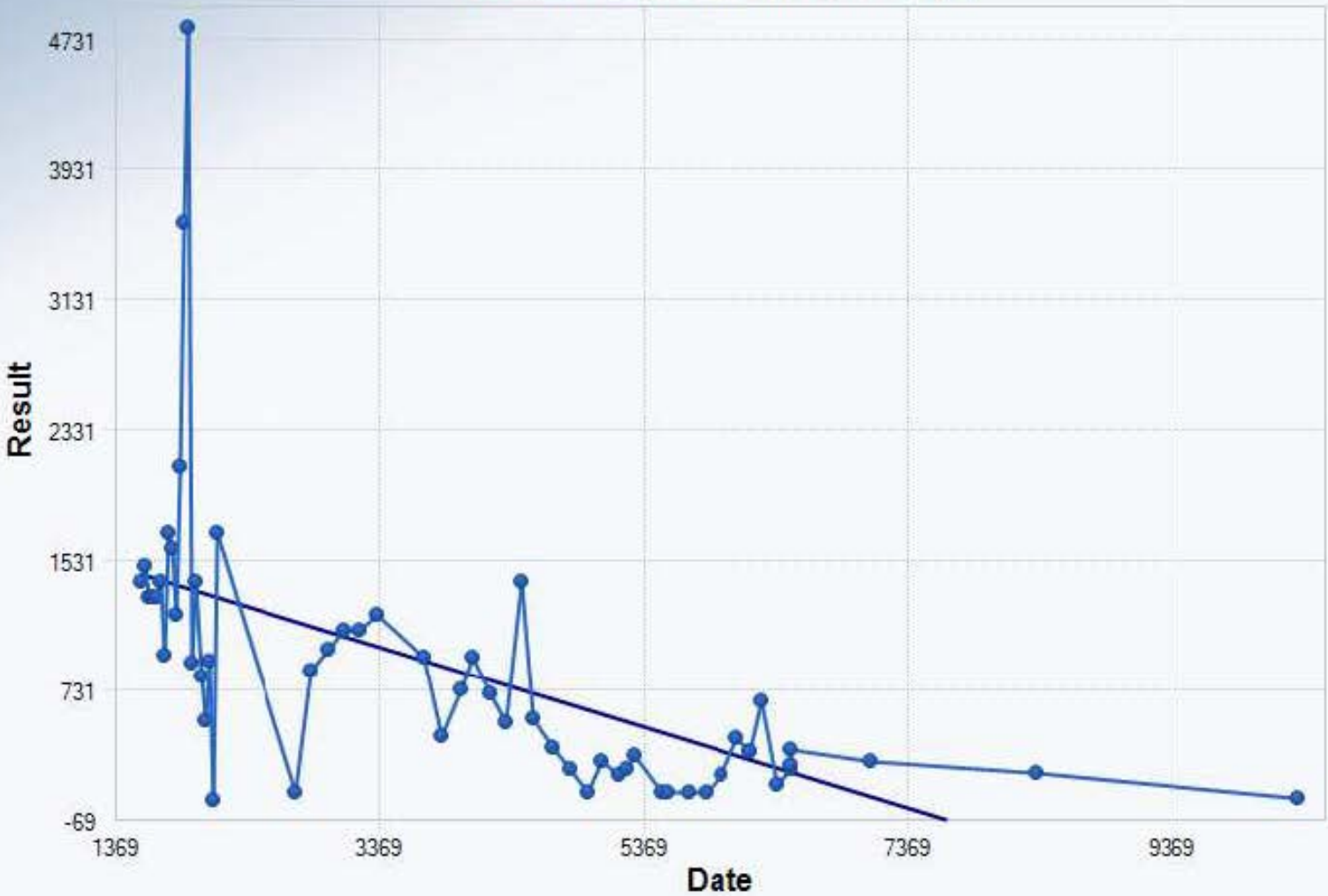
Mann-Kendall Trend Analysis	
n	51
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	122.9051
Standardized Value of S	-6.2325
M-K Test Value (S)	-767
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	-2.0217
OLS Regression Intercept	12,491.9853

Statistically significant evidence of a decreasing trend at the specified level of significance.

6F2-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	57
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	145.1069
Standardized Value of S	-6.0438
M-K Test Value (S)	-878
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)

OLS Regression Slope	-0.2493
OLS Regression Intercept	1,836.9277

Statistically significant evidence of a decreasing trend at the specified level of significance.

6G1-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	51
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	119.14/U
Standardized Value of S	-5.0106
M-K Test Value (S)	-598
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

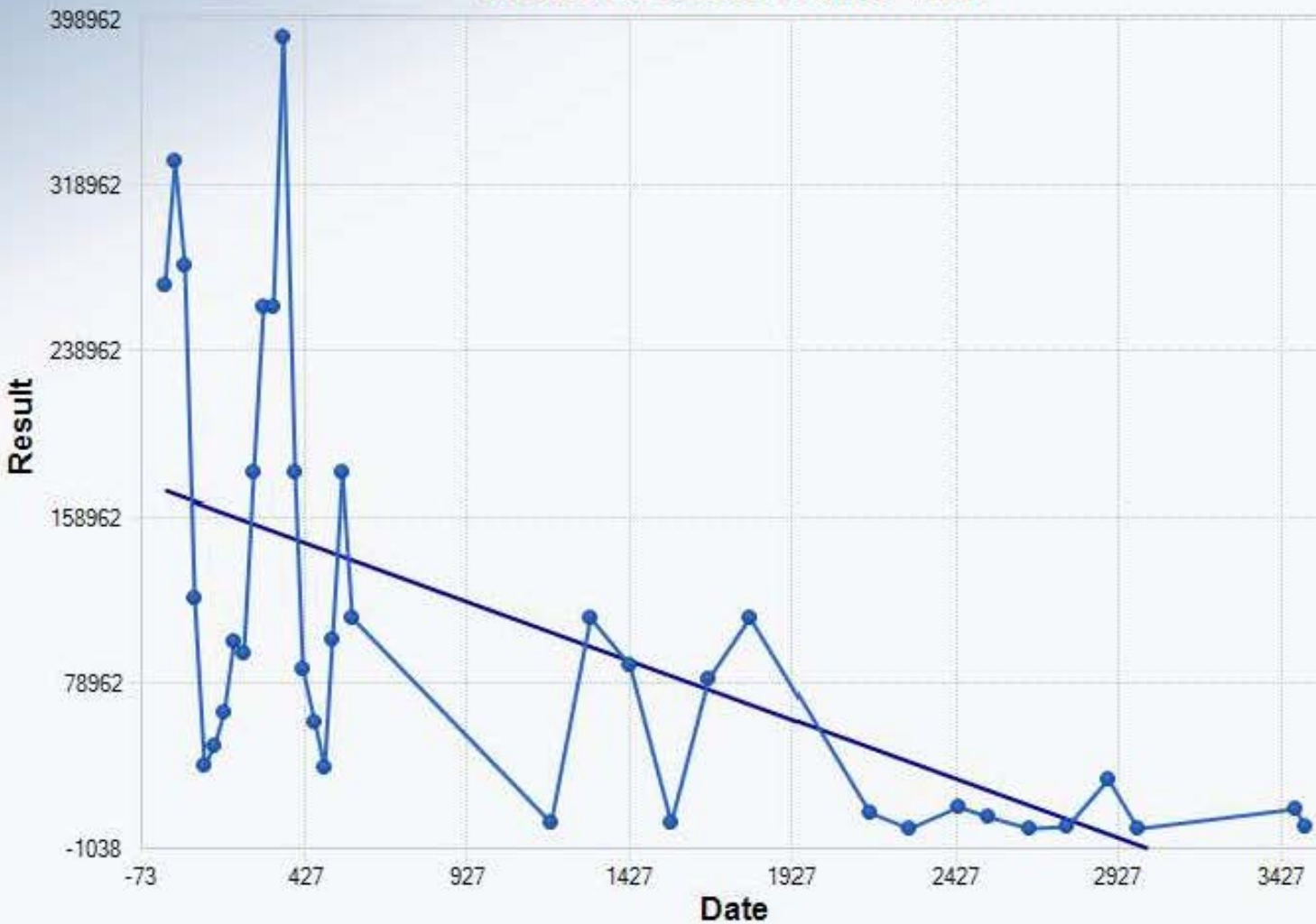
OLS Regression Line (Blue)

OLS Regression Slope	-0.0949
OLS Regression Intercept	691.2482

Statistically significant evidence of a decreasing trend at the specified level of significance.

7D2-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	36
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	73.3530
Standardized Value of S	-4.3761
M-K Test Value (S)	-322
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

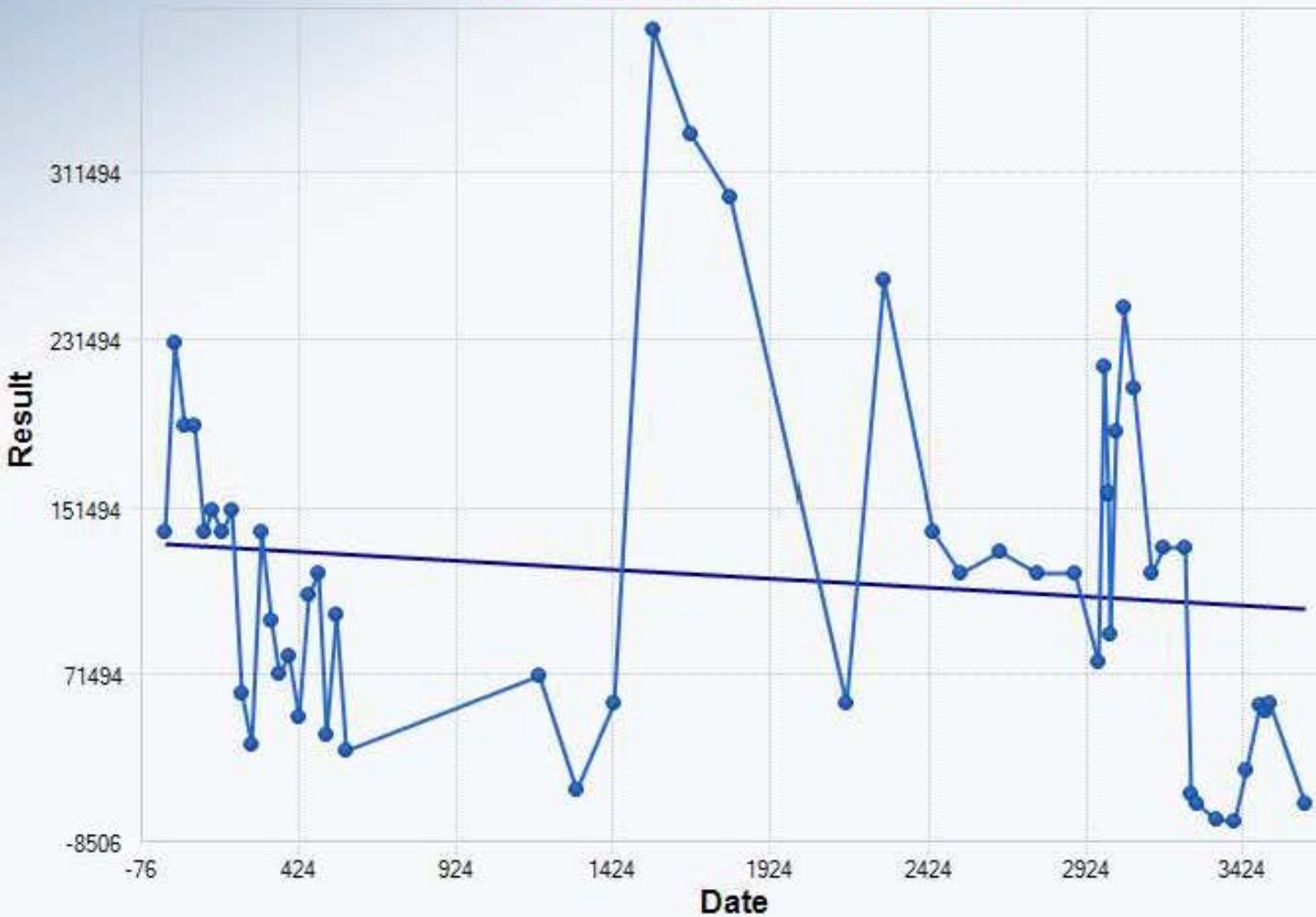
OLS Regression Line (Blue)

OLS Regression Slope	-57.3259
OLS Regression Intercept	171,462.8188

Statistically significant evidence of a decreasing trend at the specified level of significance.

7D3-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	52
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	126.5780
Standardized Value of S	-2.4886
M-K Test Value (S)	-316
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0064

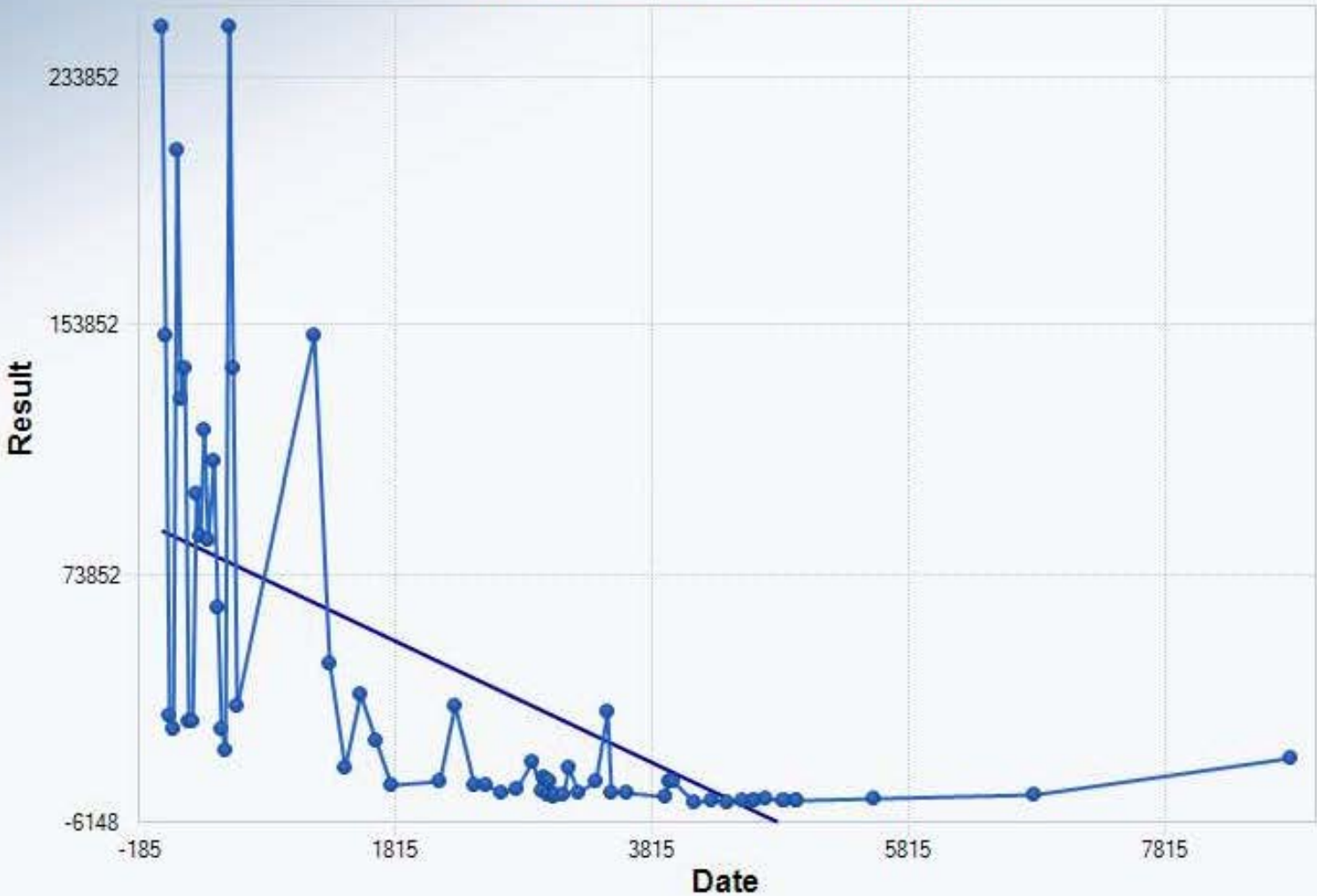
OLS Regression Line (Blue)

OLS Regression Slope	-8.5950
OLS Regression Intercept	134,379.0737

Statistically significant evidence of a decreasing trend at the specified level of significance.

7E3-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	63
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	168.5655
Standardized Value of S	-7.5104
M-K Test Value (S)	-1,267
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	-19.6786
OLS Regression Intercept	88,180.3002

Statistically significant evidence of a decreasing trend at the specified level of significance.

7E8-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	53
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	130.3150
Standardized Value of S	-6.4229
M-K Test Value (S)	-838
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

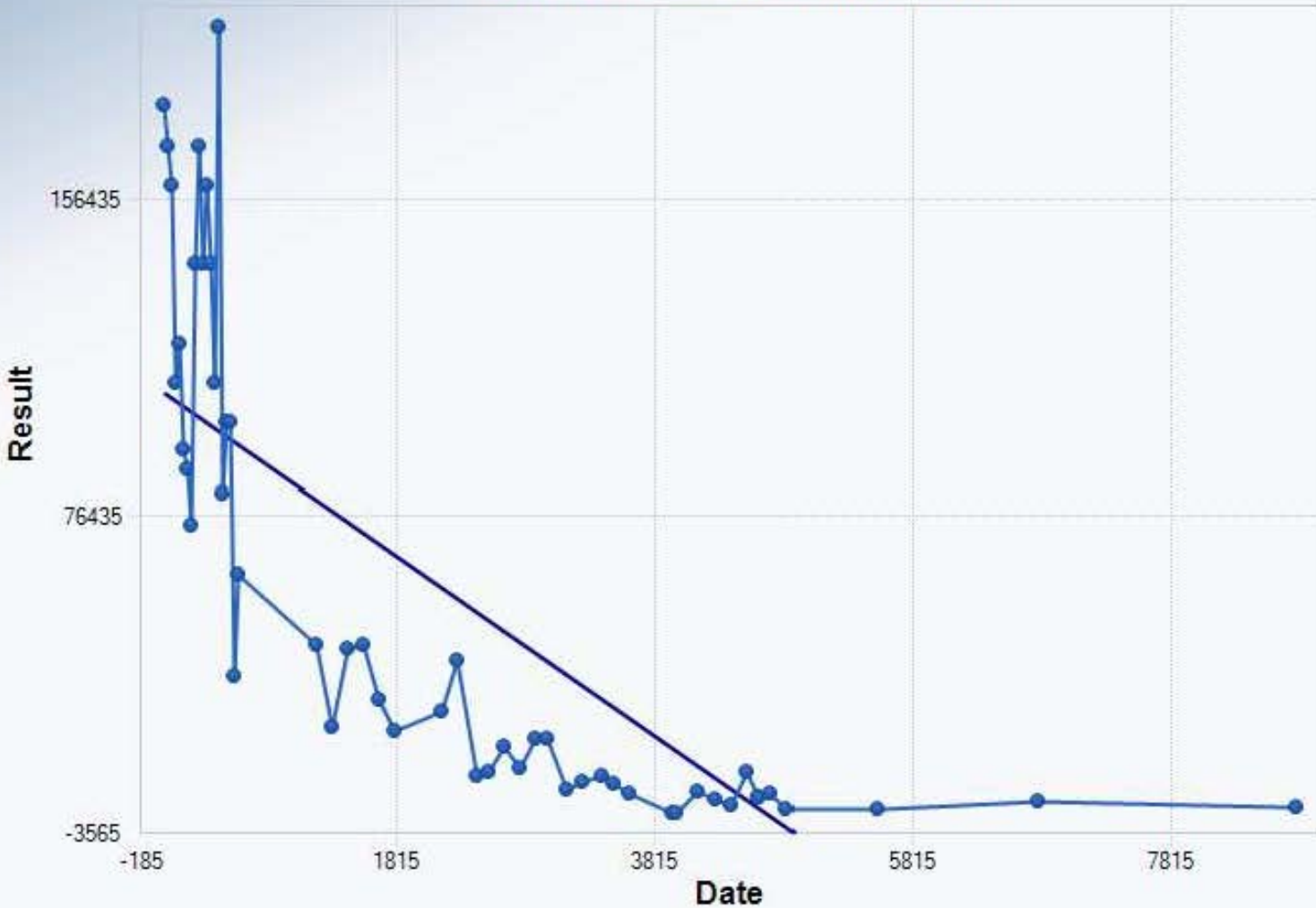
OLS Regression Line (Blue)

OLS Regression Slope	-23.2400
OLS Regression Intercept	103,095.7356

Statistically significant evidence of a decreasing trend at the specified level of significance.

7E10-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	52
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	126.6754
Standardized Value of S	-8.2336
M-K Test Value (S)	-1,044
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)

OLS Regression Slope	-22.6912
OLS Regression Intercept	107,142.3609

Statistically significant evidence of a decreasing trend at the specified level of significance.

7E12-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	44
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	98.8315
Standardized Value of S	-5.3829
M-K Test Value (S)	-533
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	-15.1556
OLS Regression Intercept	117,258.0551

Statistically significant evidence of a decreasing trend at the specified level of significance.

7F2-1

Mann-Kendall Trend Test



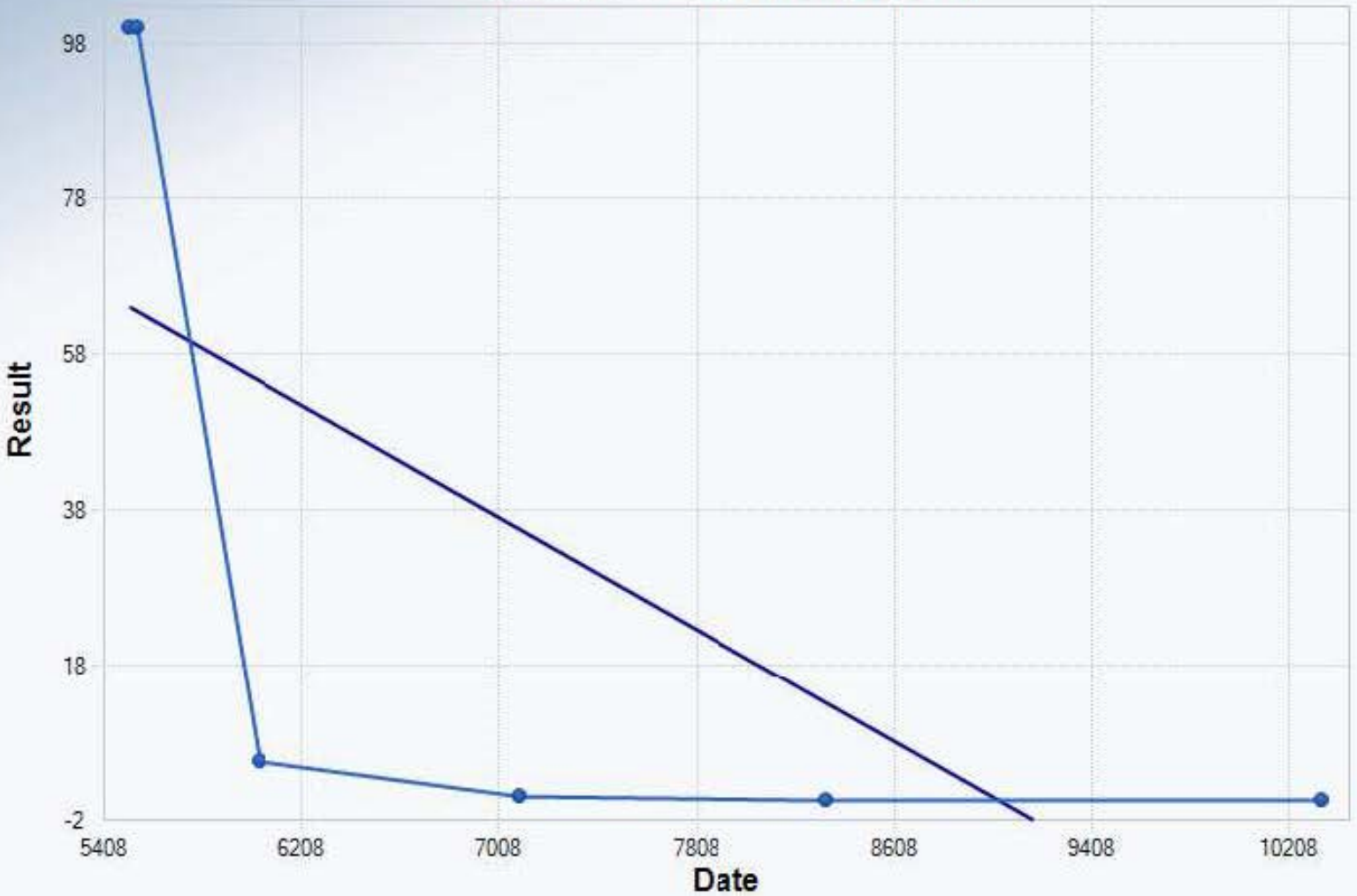
Mann-Kendall Trend Analysis	
n	52
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	126.6570
Standardized Value of S	-4.4451
M-K Test Value (S)	-564
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)
OLS Regression Slope -0.1033
OLS Regression Intercept 791.5830

Statistically significant evidence of a decreasing trend at the specified level of significance.

711-1

Mann-Kendall Trend Test



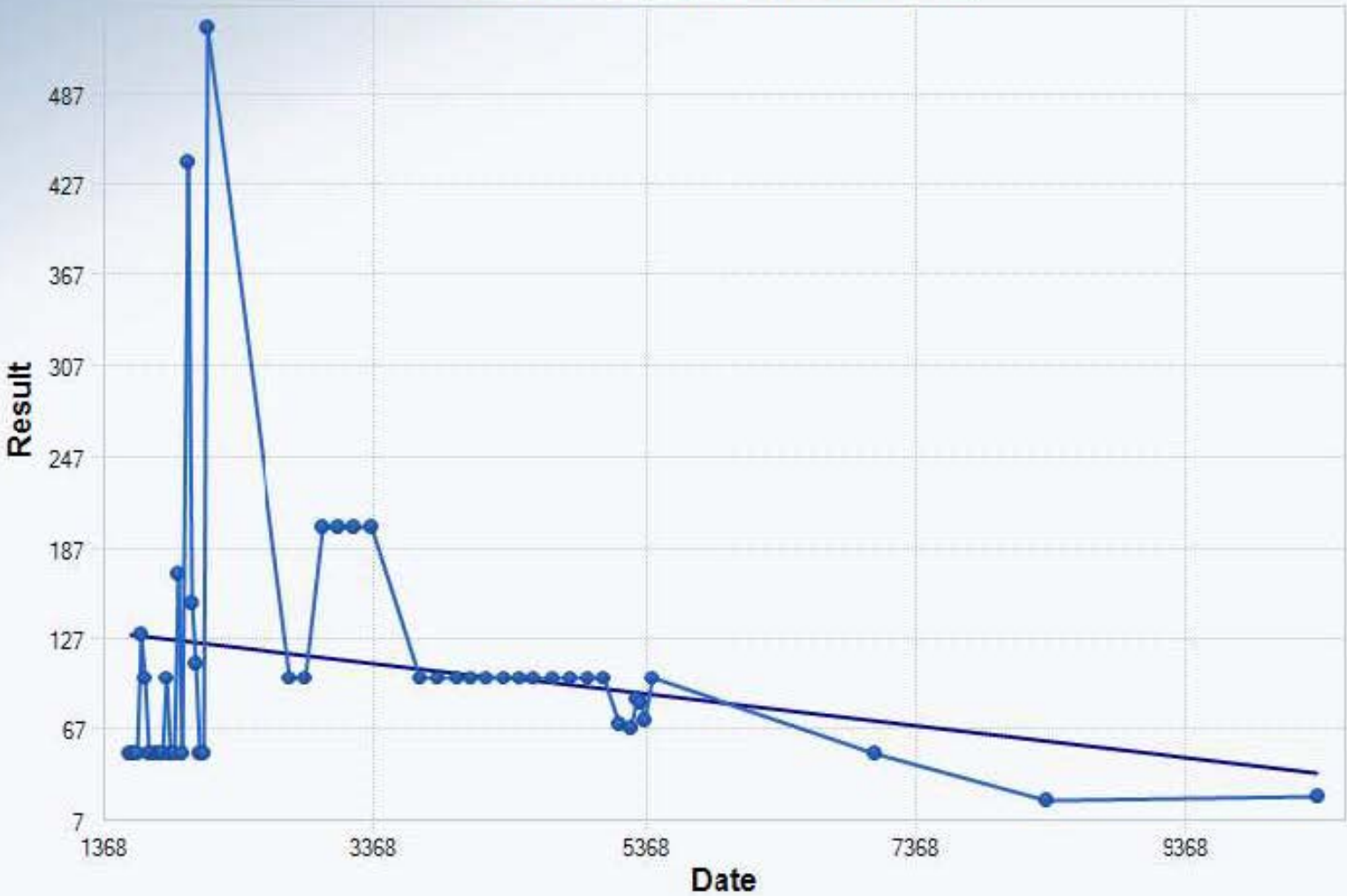
Mann-Kendall Trend Analysis	
n	6
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	5.2281
Standardized Value of S	-2.4865
M-K Test Value (S)	-14
Tabulated p-value	0.0010
Approximate p-value	0.0064

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0180
OLS Regression Intercept	163.5584

Statistically significant evidence of a decreasing trend at the specified level of significance.

8F1-1R

Mann-Kendall Trend Test



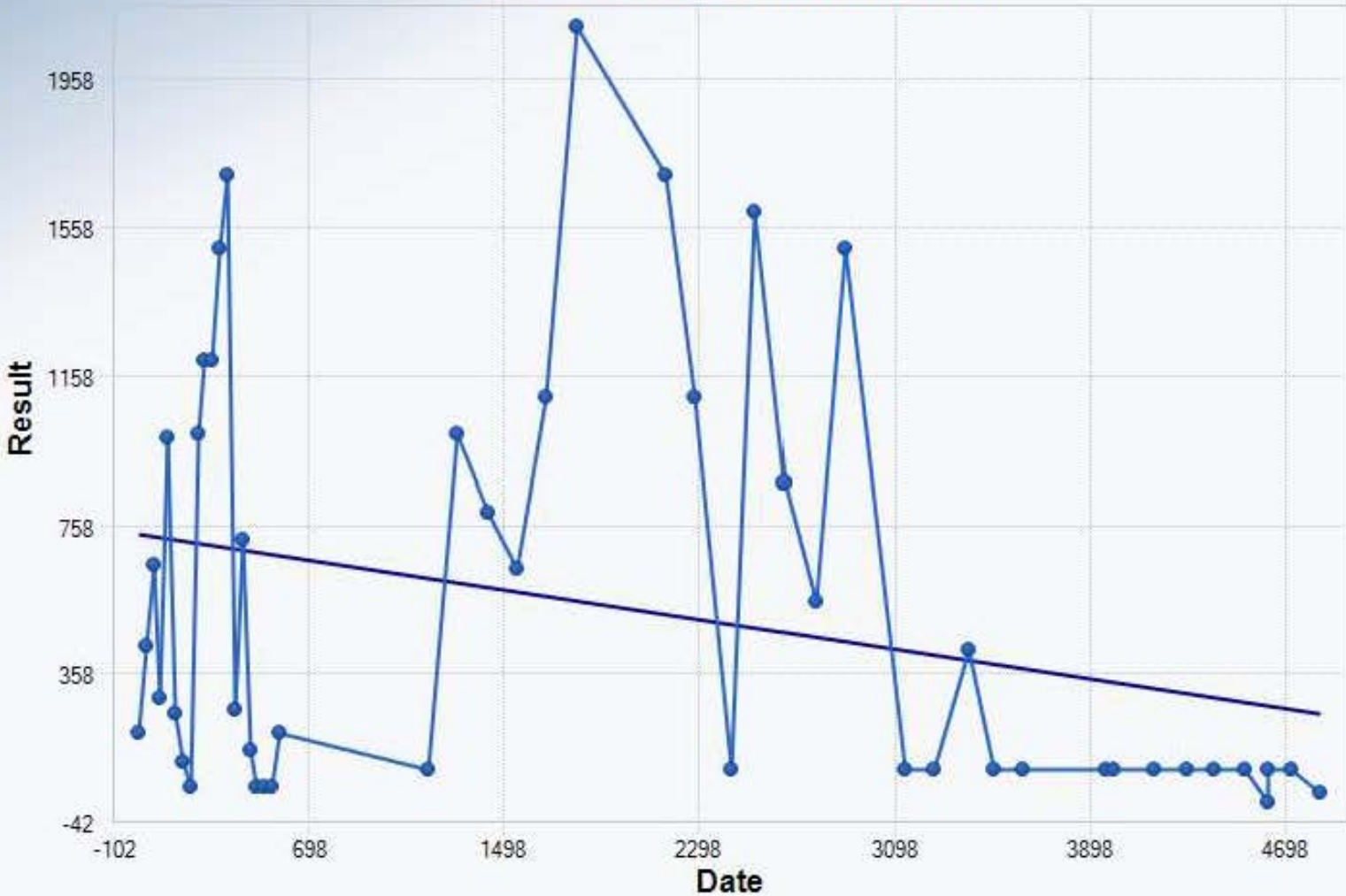
Mann-Kendall Trend Analysis	
n	47
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	104.9968
Standardized Value of S	-0.2857
M-K Test Value (S')	-31
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.3875

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0105
OLS Regression Intercept	145.4725

Insufficient statistical evidence of a significant trend at the specified level of significance.

8G1-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	48
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	110.9519
Standardized Value of S	-2.5597
M-K Test Value (S)	-285
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0052

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0994
OLS Regression Intercept	732.7515

Statistically significant evidence of a decreasing trend at the specified level of significance.

8G2-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	57
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	145.0758
Standardized Value of S	-4.4804
M-K Test Value (S)	-651
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

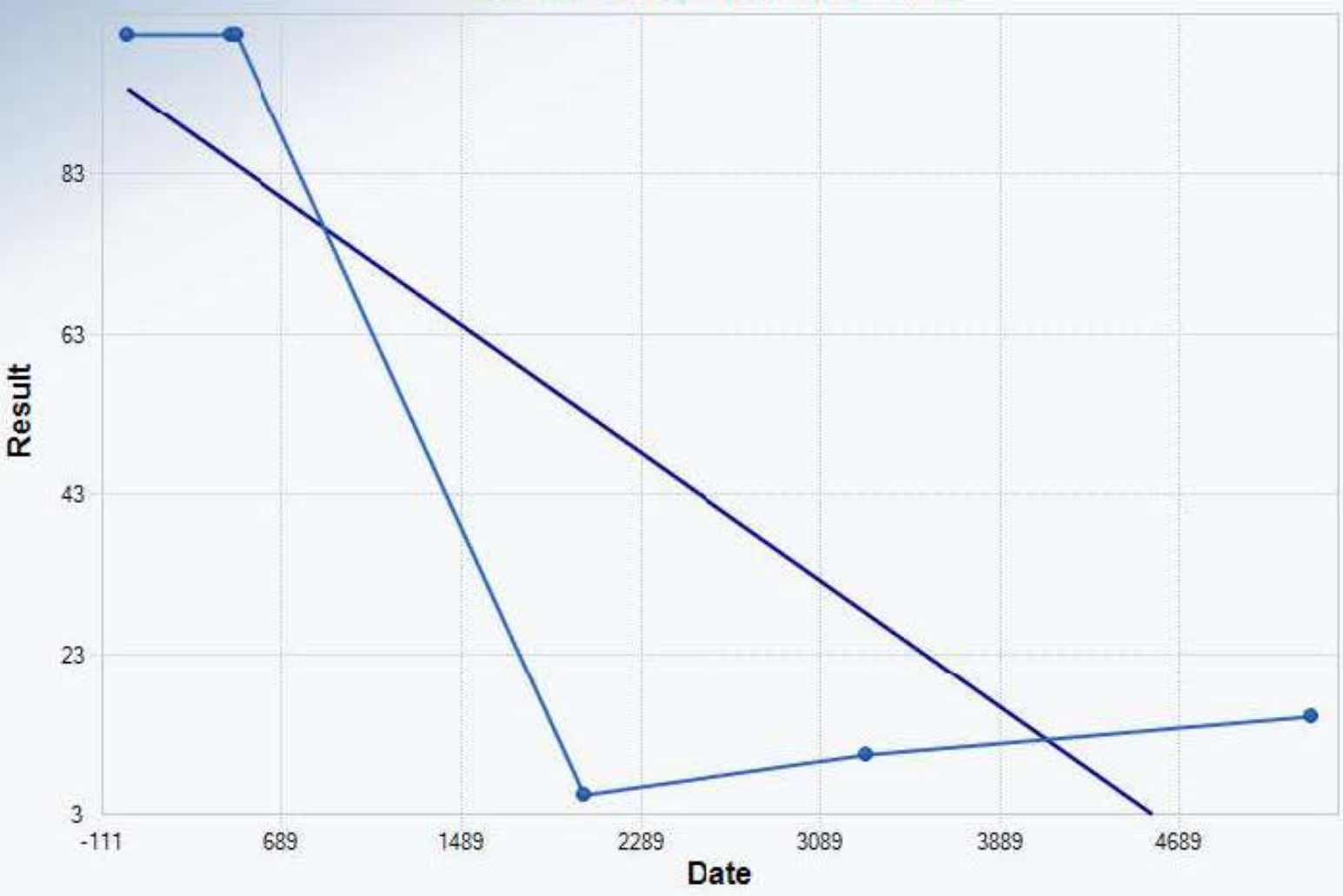
OLS Regression Line (Blue)	
OLS Regression Slope	-0.0741
OLS Regression Intercept	695.0443

Statistically significant evidence of a decreasing trend at the specified level of significance.

Backup for Figure 6-6

2B2-2

Mann-Kendall Trend Test



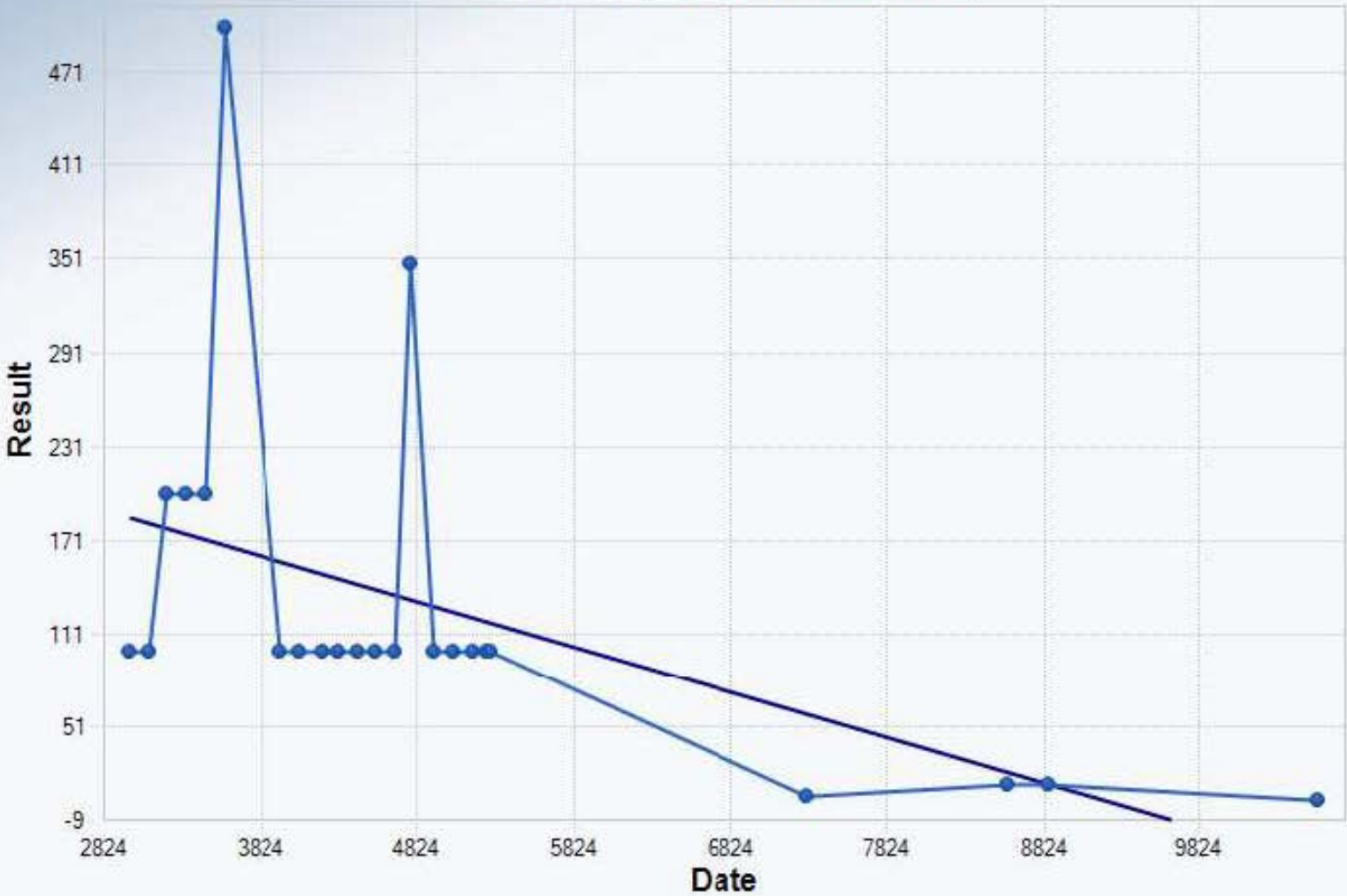
Mann-Kendall Trend Analysis	
n	6
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	4.9666
Standardized Value of S	-1.0067
M-K Test Value (S)	-6
Tabulated p-value	0.1360
Approximate p-value	0.1570

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0199
OLS Regression Intercept	93.2959

Insufficient statistical evidence of a significant trend at the specified level of significance.

3A2-2R

Mann-Kendall Trend Test



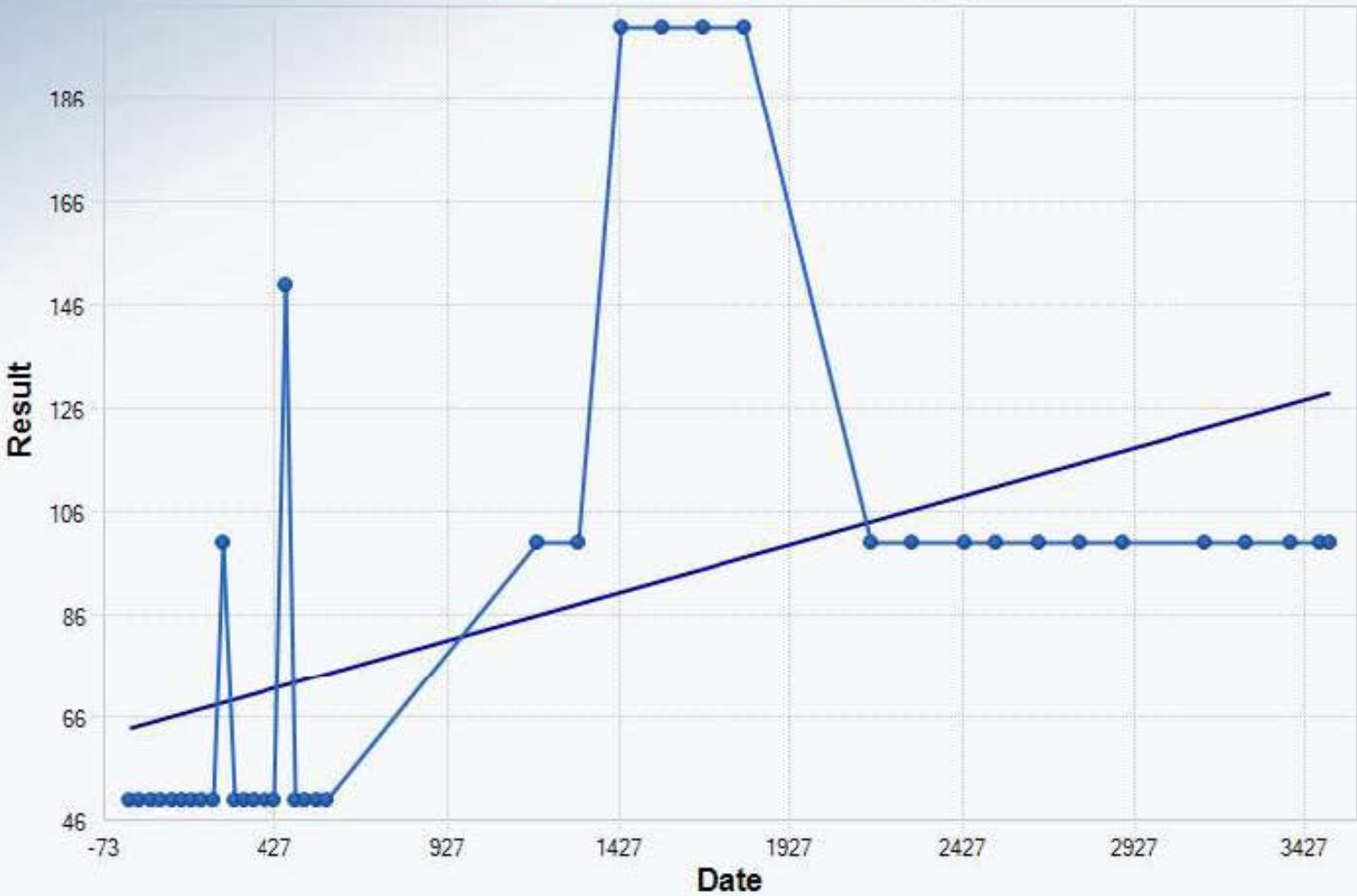
Mann-Kendall Trend Analysis	
n	23
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	33.1109
Standardized Value of S	-3.2014
M-K Test Value (S)	-107
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0007

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0295
OLS Regression Intercept	274.0718

Statistically significant evidence of a decreasing trend at the specified level of significance.

3A5-2

Mann-Kendall Trend Test



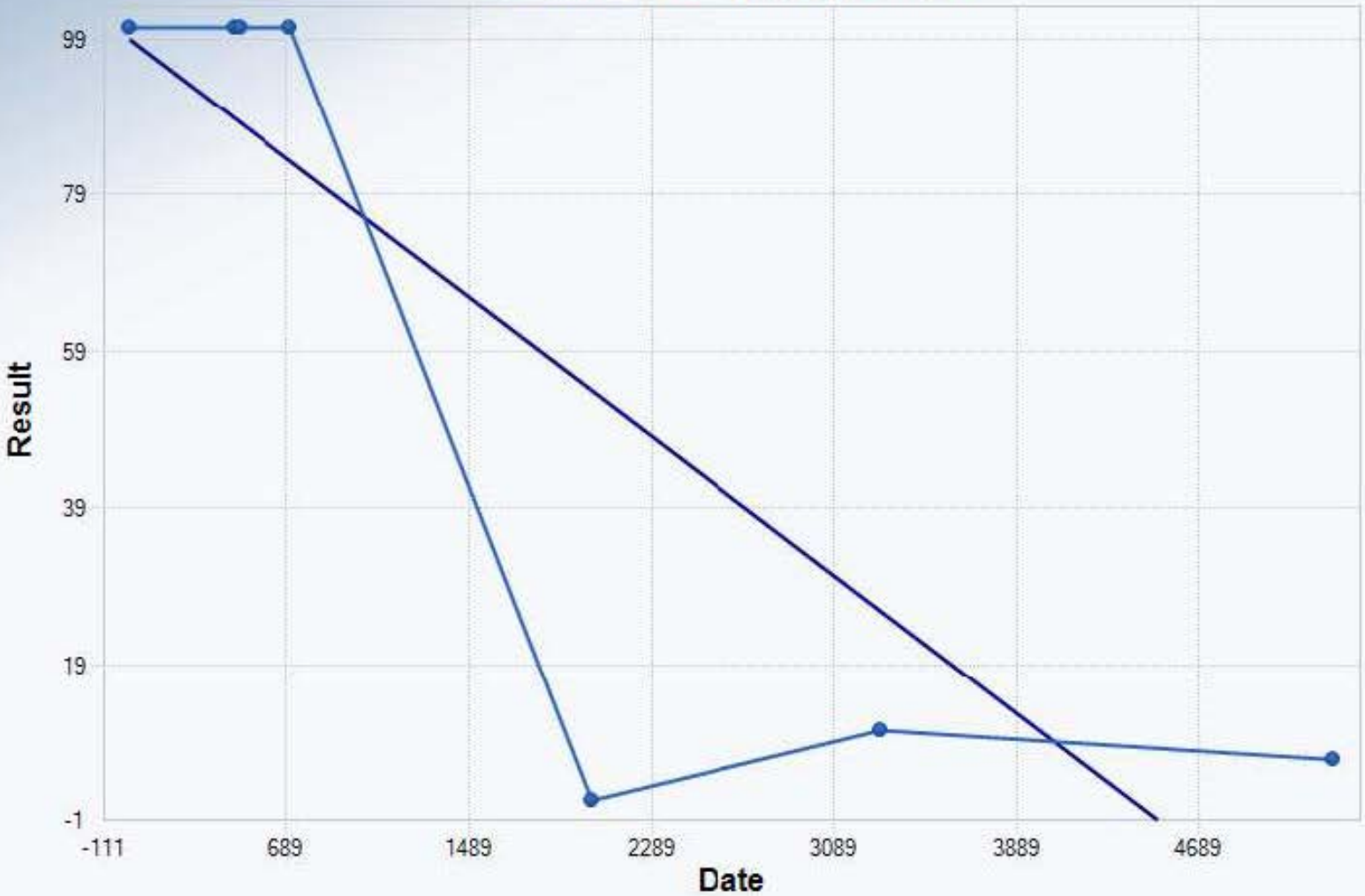
Mann-Kendall Trend Analysis	
n	38
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	72.2011
Standardized Value of S	3.9889
M-K Test Value (S)	289
Appx. Critical Value (0.05)	1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	0.0186
OLS Regression Intercept	64.0692

Statistically significant evidence of an increasing trend at the specified level of significance.

4B2-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	7
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	5.9/22
Standardized Value of S	-1.6744
M-K Test Value (S)	-11
Tabulated p-value	0.0680
Approximate p-value	0.0470

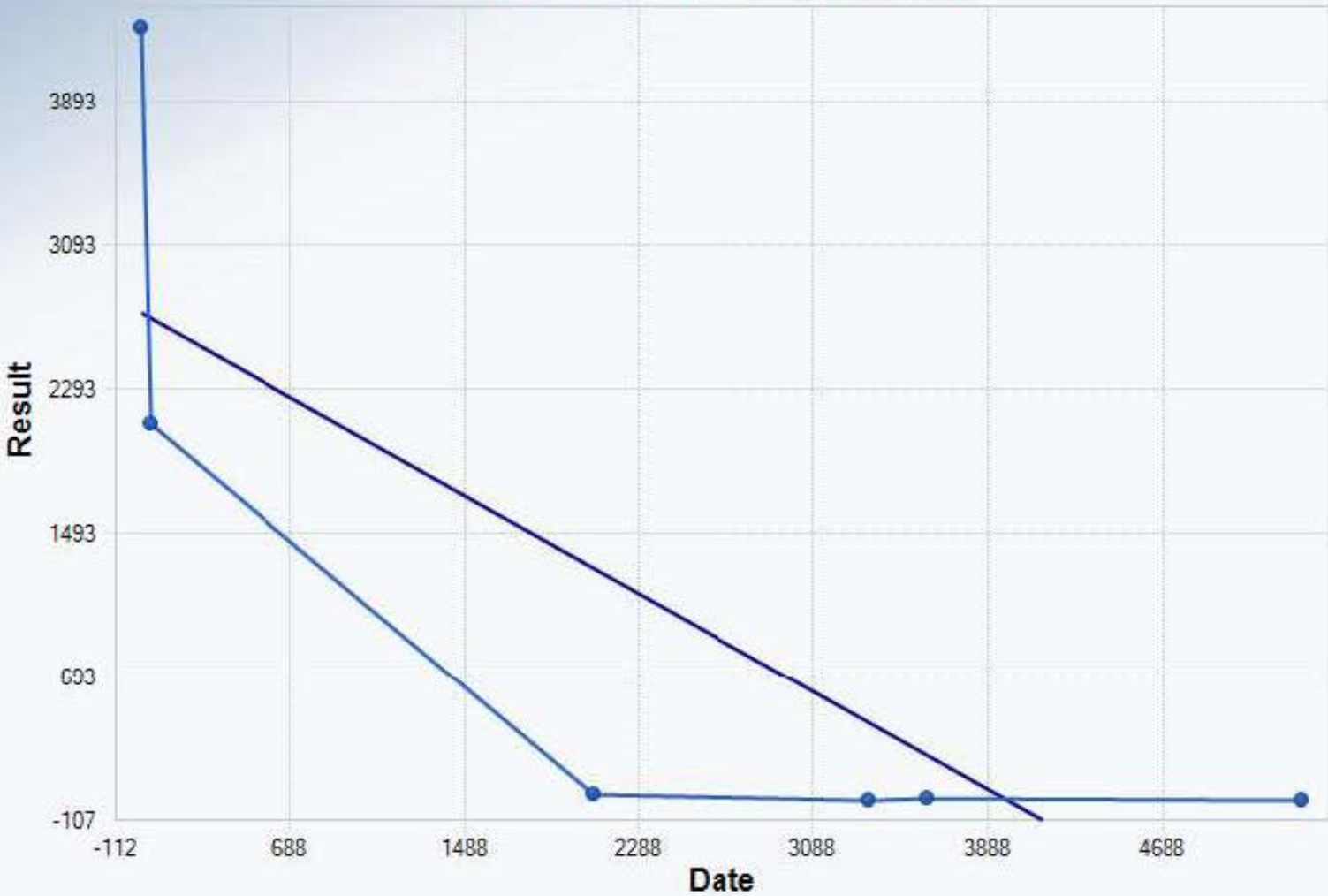
OLS Regression Line (Blue)

OLS Regression Slope	-0.0223
OLS Regression Intercept	98.5760

Insufficient statistical evidence of a significant trend at the specified level of significance.

5B1-2R

Mann-Kendall Trend Test



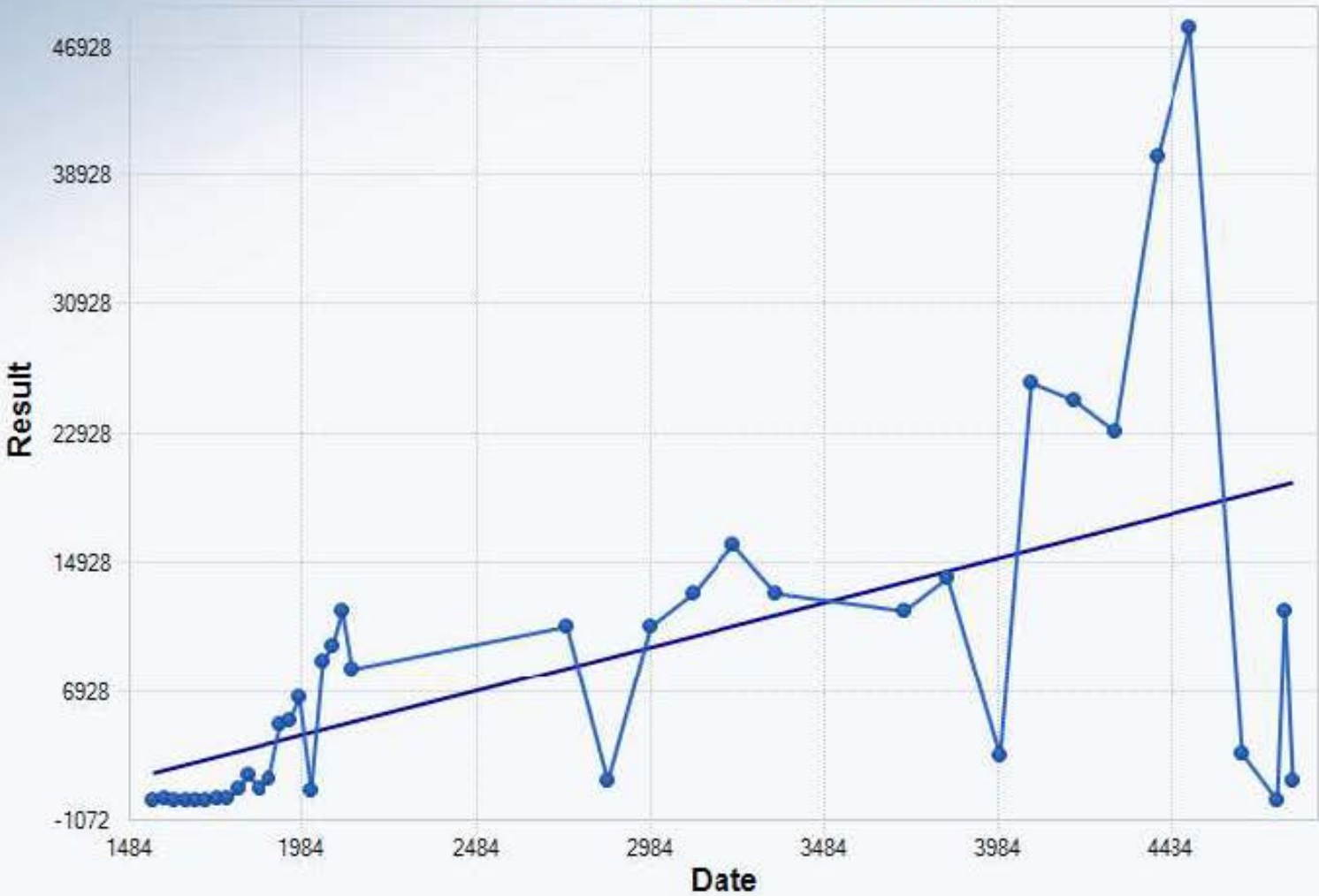
Mann-Kendall Trend Analysis	
n	6
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	5.3229
Standardized Value of S	-2.2544
M-K Test Value (S)	-13
Tabulated p-value	0.0080
Approximate p-value	0.0121

OLS Regression Line (Blue)	
OLS Regression Slope	-0.6834
OLS Regression Intercept	2,716.3194

Statistically significant evidence of a decreasing trend at the specified level of significance.

5C2-2

Mann-Kendall Trend Test



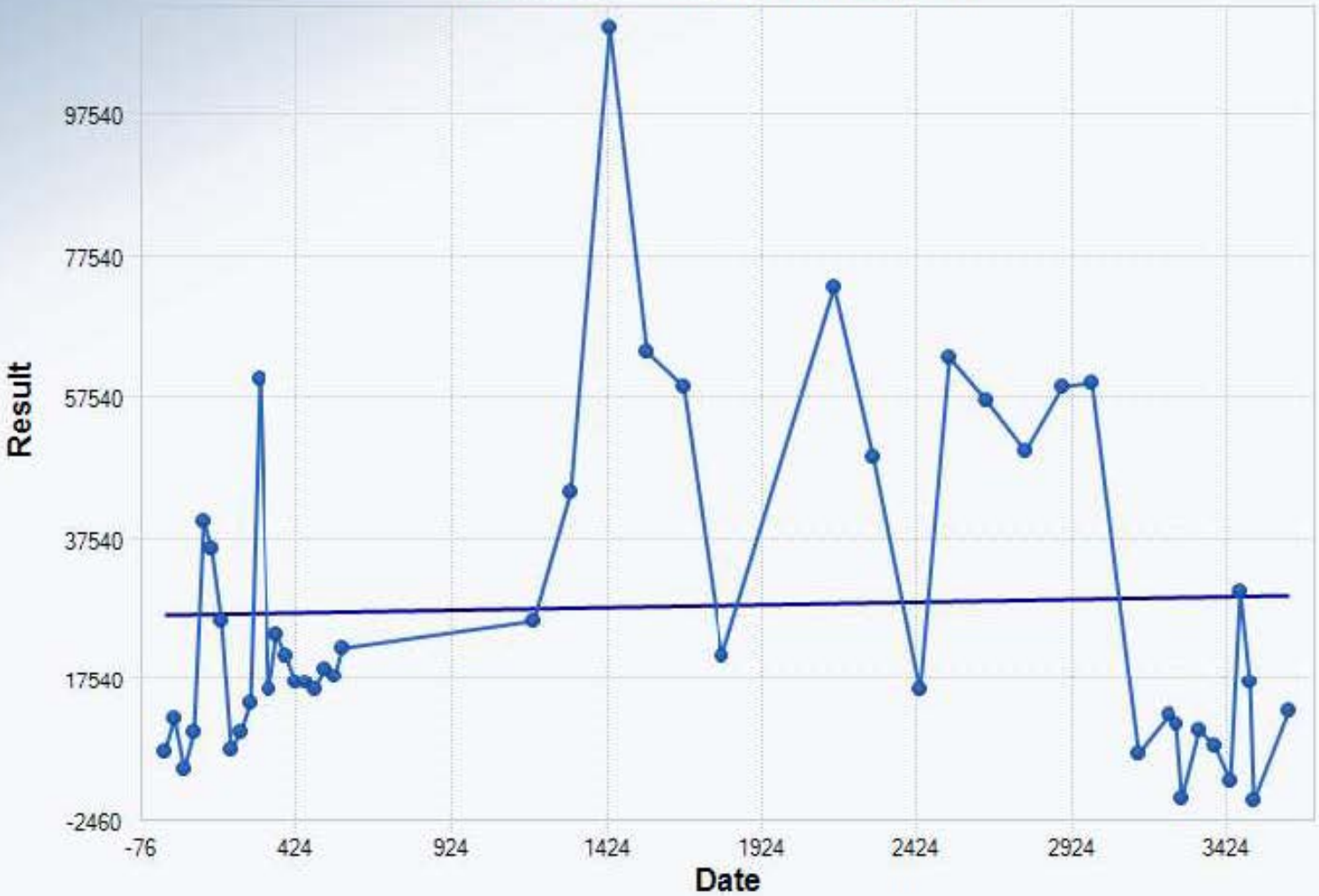
Mann-Kendall Trend Analysis	
n	38
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	79.4879
Standardized Value of S	5.1580
M-K Test Value (S)	411
Appx. Critical Value (0.05)	1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	5.5064
OLS Regression Intercept	-6,730.8768

Statistically significant evidence of an increasing trend at the specified level of significance.

5C4-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	45
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	102.1698
Standardized Value of S	0.1664
M-K Test Value (S)	18
Appx. Critical Value (0.05)	1.6449
Approximate p-value	0.4339

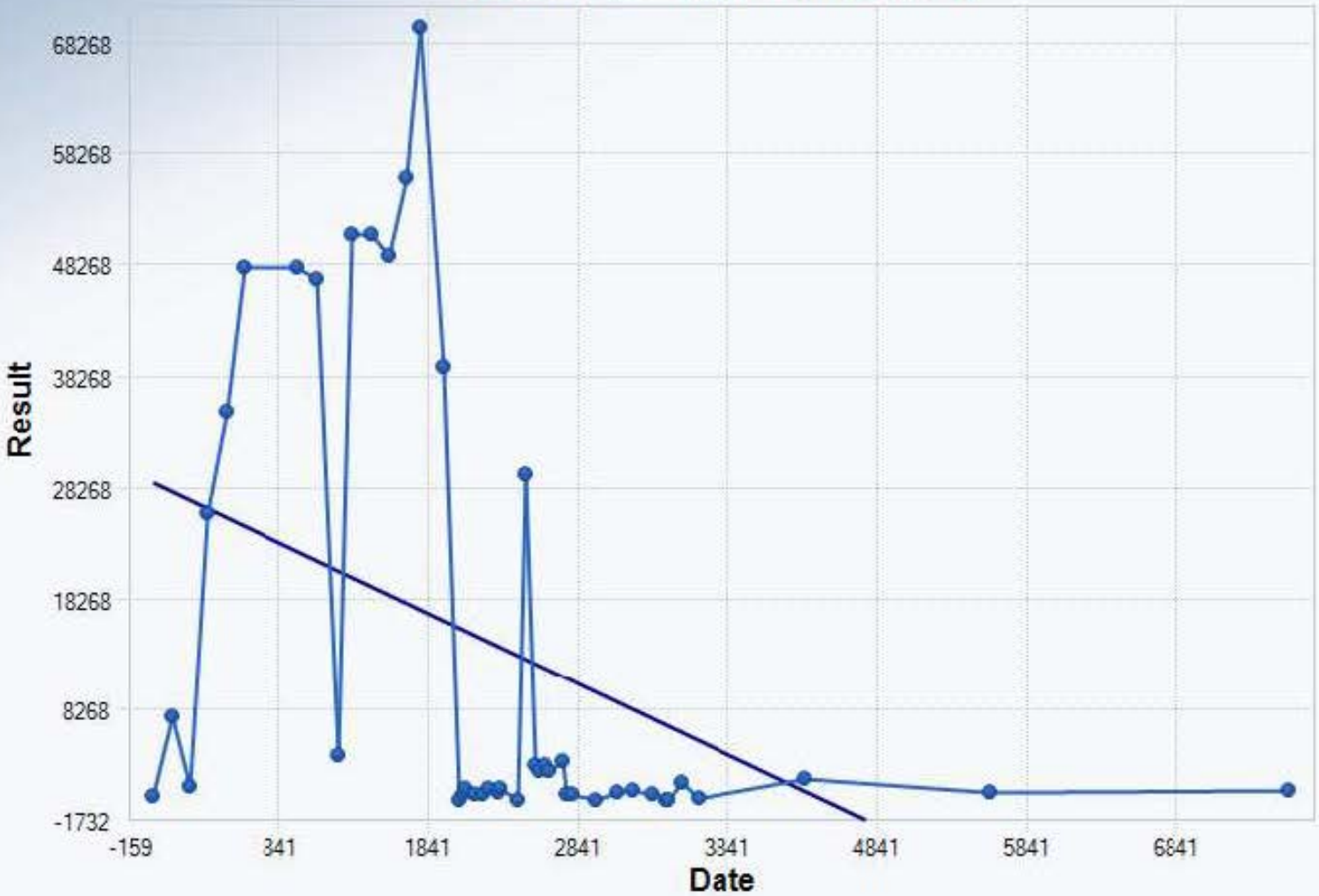
OLS Regression Line (Blue)

OLS Regression Slope	0.7250
OLS Regression Intercept	26,835.9215

Insufficient statistical evidence of a significant trend at the specified level of significance.

5C10-2

Mann-Kendall Trend Test



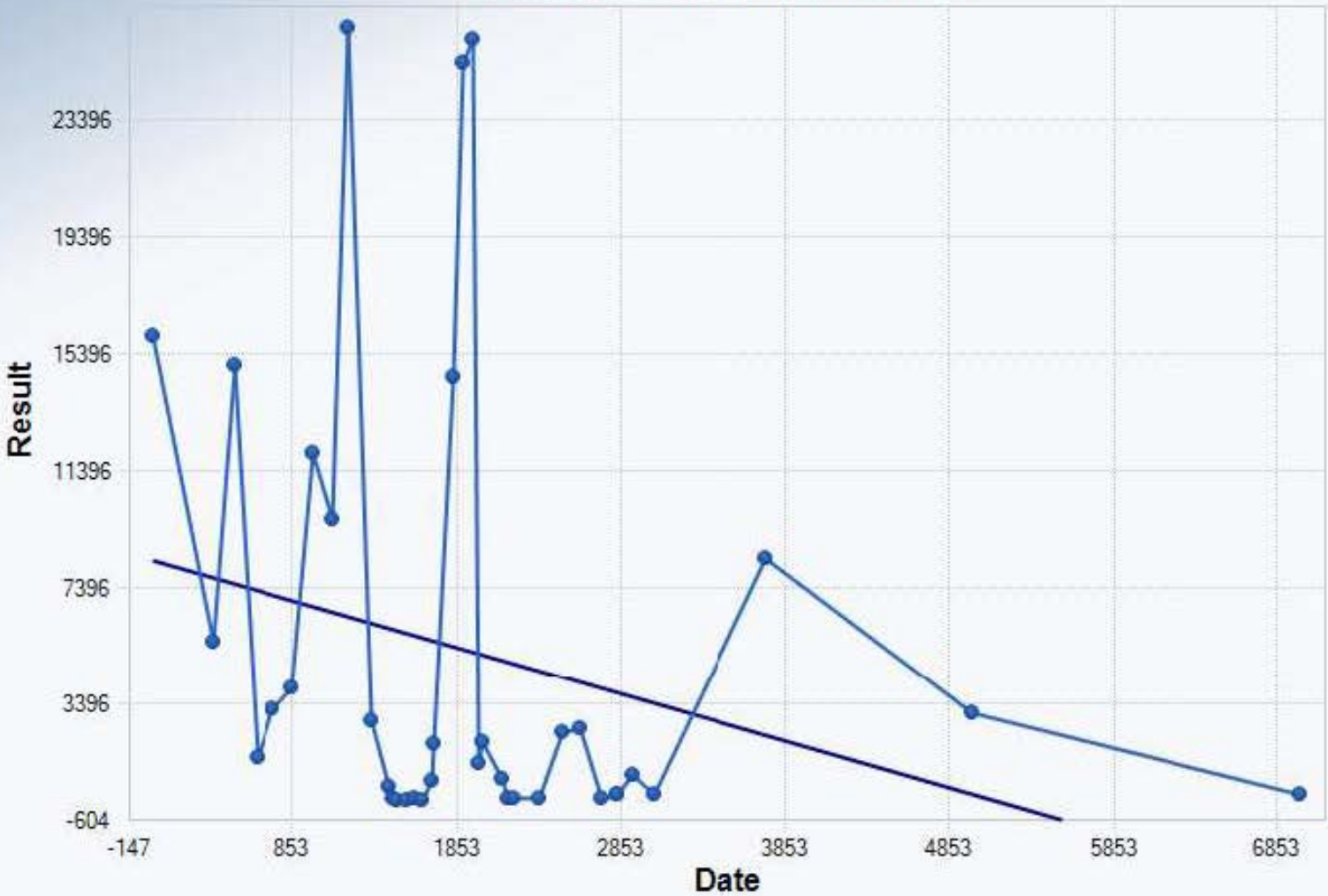
Mann-Kendall Trend Analysis	
n	43
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	95.50/4
Standardized Value of S	-3.1411
M-K Test Value (S)	-301
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0008

OLS Regression Line (Blue)	
OLS Regression Slope	-6.3995
OLS Regression Intercept	28,681.7548

Statistically significant evidence of a decreasing trend at the specified level of significance.

5C14-2

Mann-Kendall Trend Test



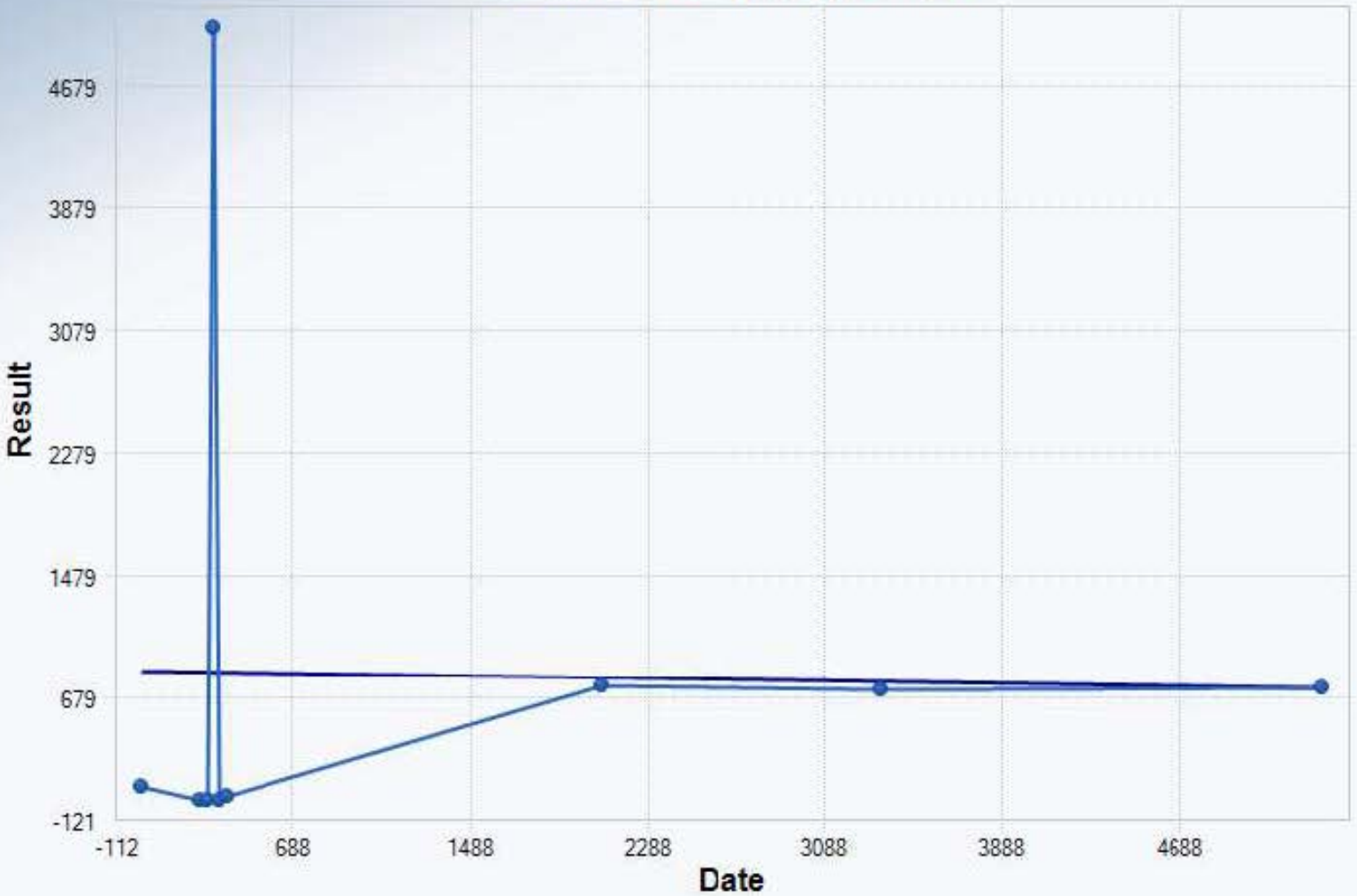
Mann-Kendall Trend Analysis	
n	37
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	16.2671
Standardized Value of S	-1.7701
M-K Test Value (S)	-136
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0384

OLS Regression Line (Blue)	
OLS Regression Slope	-1.6236
OLS Regression Intercept	8,346.5382

Statistically significant evidence of a decreasing trend at the specified level of significance.

5C16-2R

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	9
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	9.3986
Standardized Value of S	1.0640
M-K Test Value (S)	11
Tabulated p-value	0.1790
Approximate p-value	0.1437

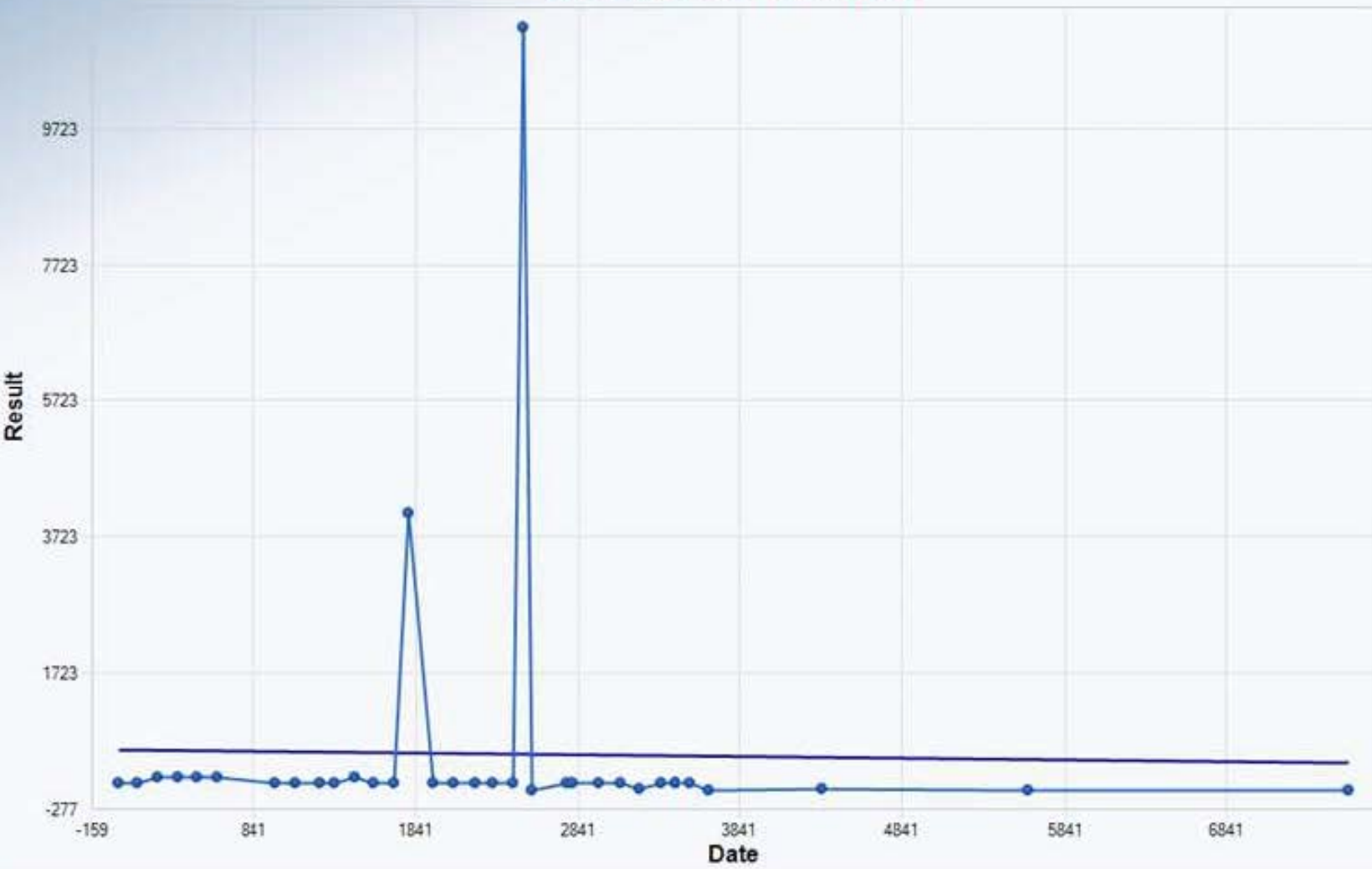
OLS Regression Line (Blue)

OLS Regression Slope	-0.0221
OLS Regression Intercept	855.3257

Insufficient statistical evidence of a significant trend at the specified level of significance.

5D8-2

Mann-Kendall Trend Test



Mann-Kendal Trend Analysis

n	34
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	58.6174
Standardized Value of S	-3.7020
Test Value (S)	-218
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0001

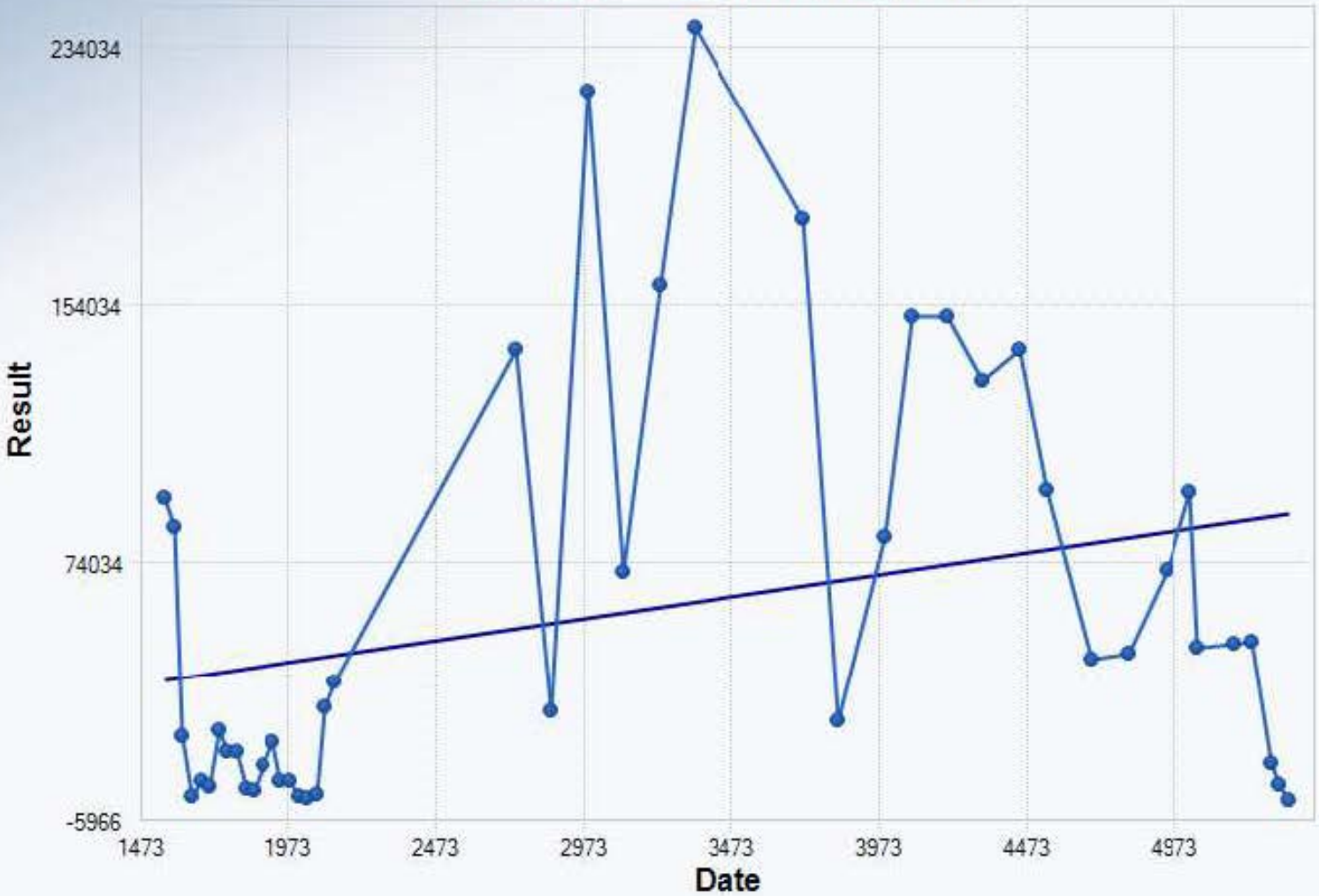
OLS Regression Line (Blue)

OLS Regression Slope	-0.0257
OLS Regression Intercept	601.5263

Statistically significant evidence of a decreasing trend at the specified level of significance.

6D2-2

Mann-Kendall Trend Test



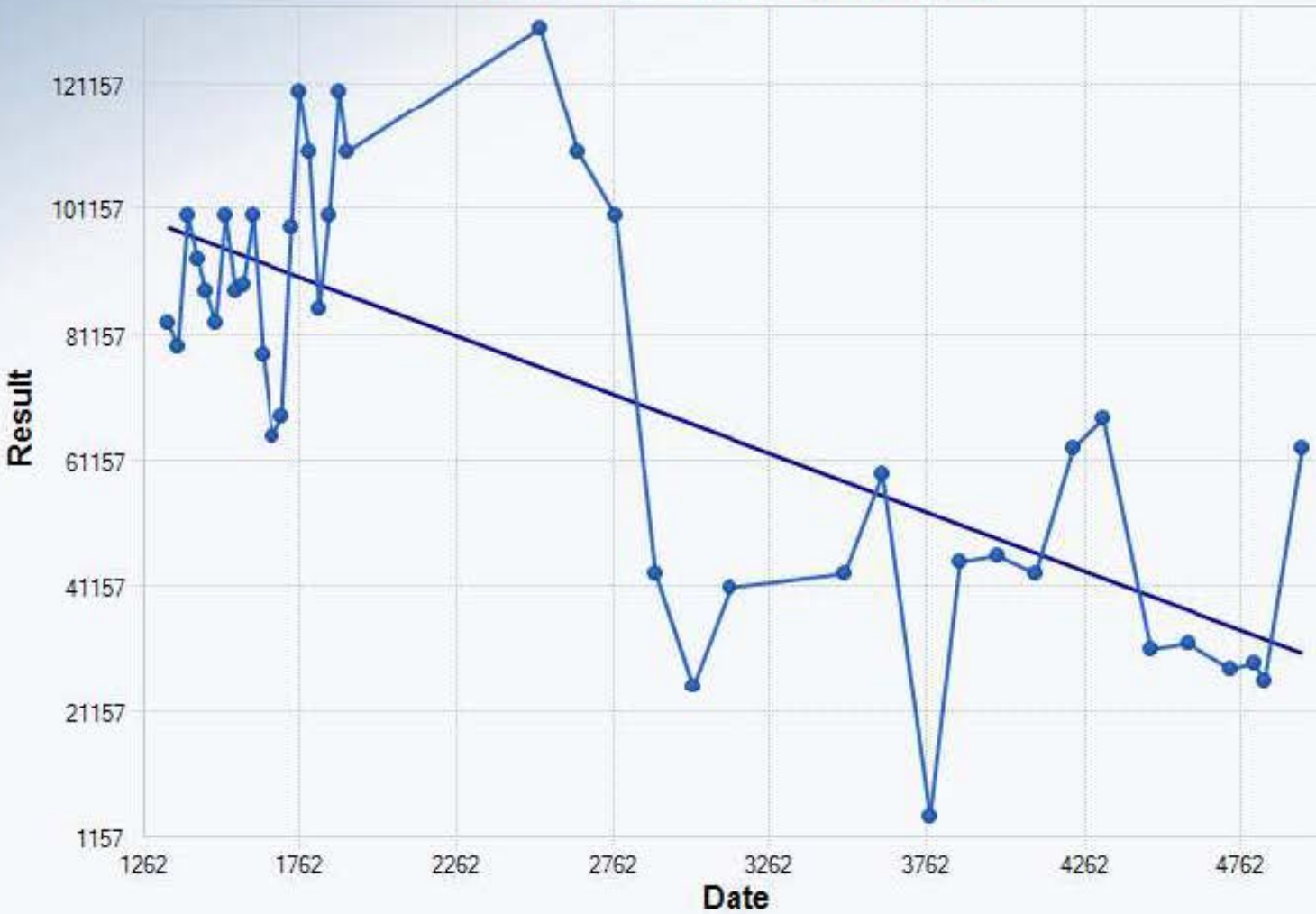
Mann-Kendall Trend Analysis	
n	44
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	98.8501
Standardized Value of S	1.7704
M-K Test Value (S)	176
Appx. Critical Value (0.05)	1.6449
Approximate p-value	0.0383

OLS Regression Line (Blue)	
OLS Regression Slope	13.7342
OLS Regression Intercept	15,951.7727

Statistically significant evidence of an increasing trend at the specified level of significance.

6D7-2

Mann-Kendall Trend Test



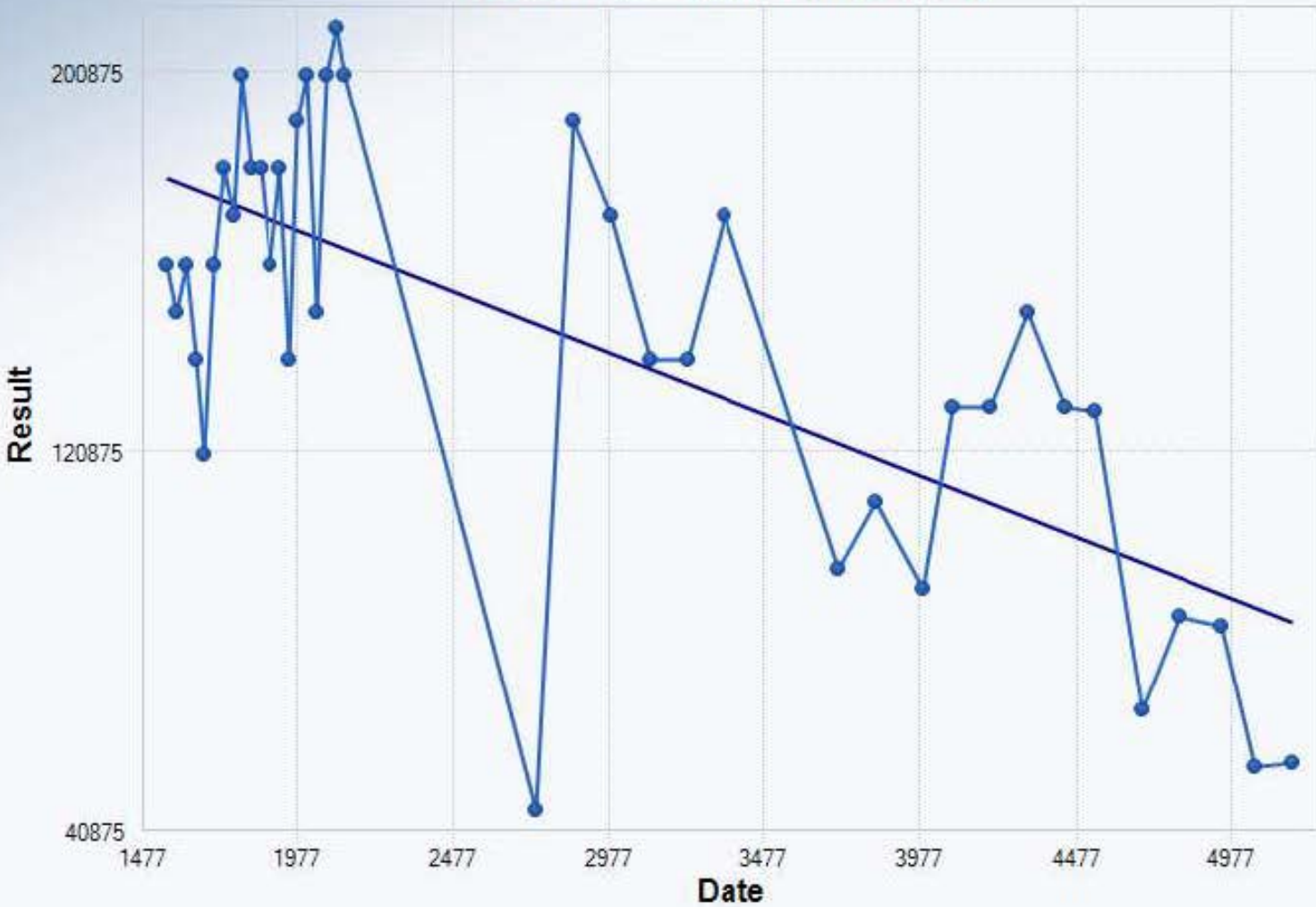
Mann-Kendall Trend Analysis	
n	40
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	85.6660
Standardized Value of S	-3.4436
M-K Test Value (S)	-296
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0003

OLS Regression Line (Blue)	
OLS Regression Slope	-18.6939
OLS Regression Intercept	123,244.2633

Statistically significant evidence of a decreasing trend at the specified level of significance.

6D10-2

Mann-Kendall Trend Test



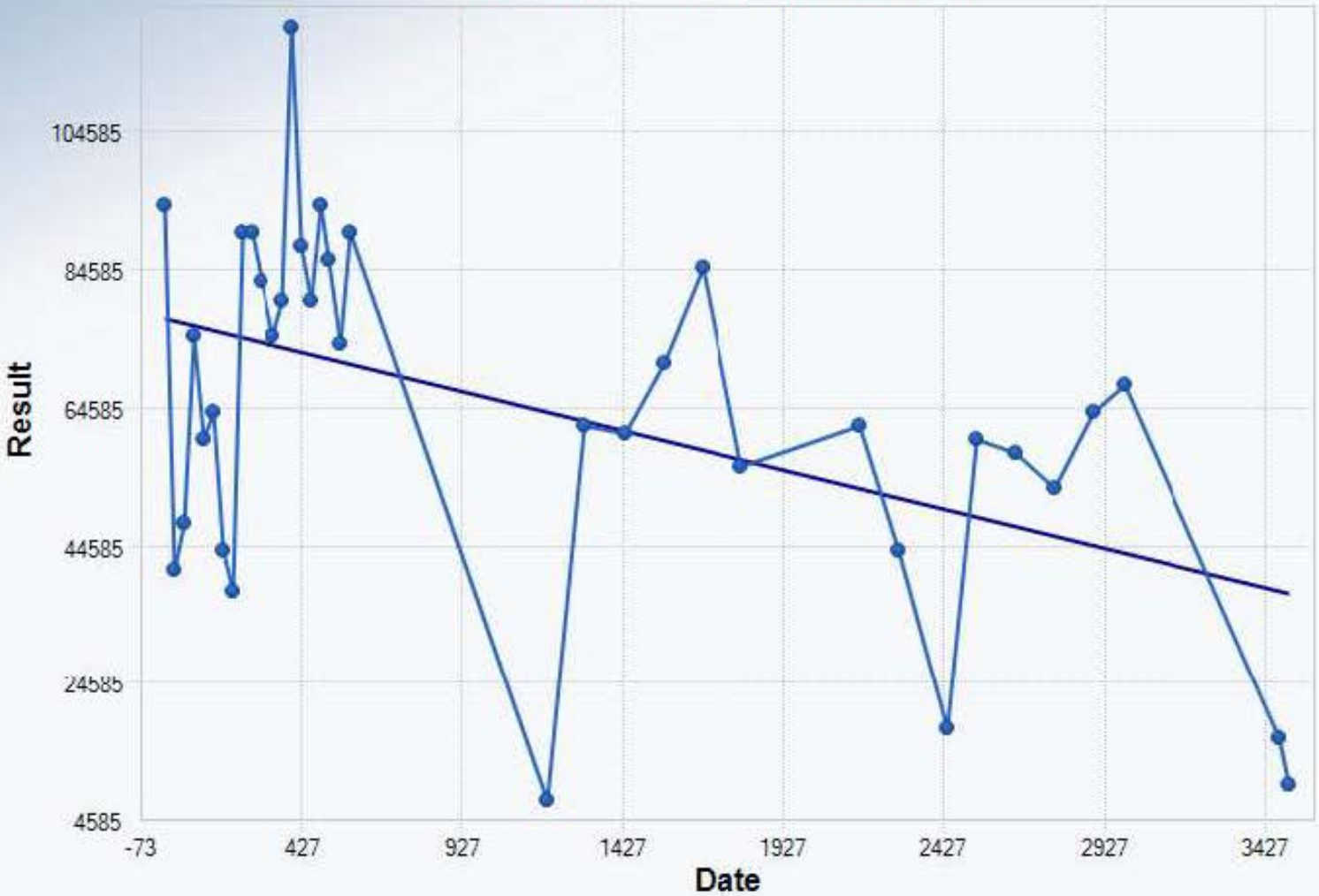
Mann-Kendall Trend Analysis	
n	39
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	82.3833
Standardized Value of S	-3.4230
M-K Test Value (S)	-283
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0003

OLS Regression Line (Blue)	
OLS Regression Slope	-25.8255
OLS Regression Intercept	218,274.9978

Statistically significant evidence of a decreasing trend at the specified level of significance.

6D12-2

Mann-Kendall Trend Test



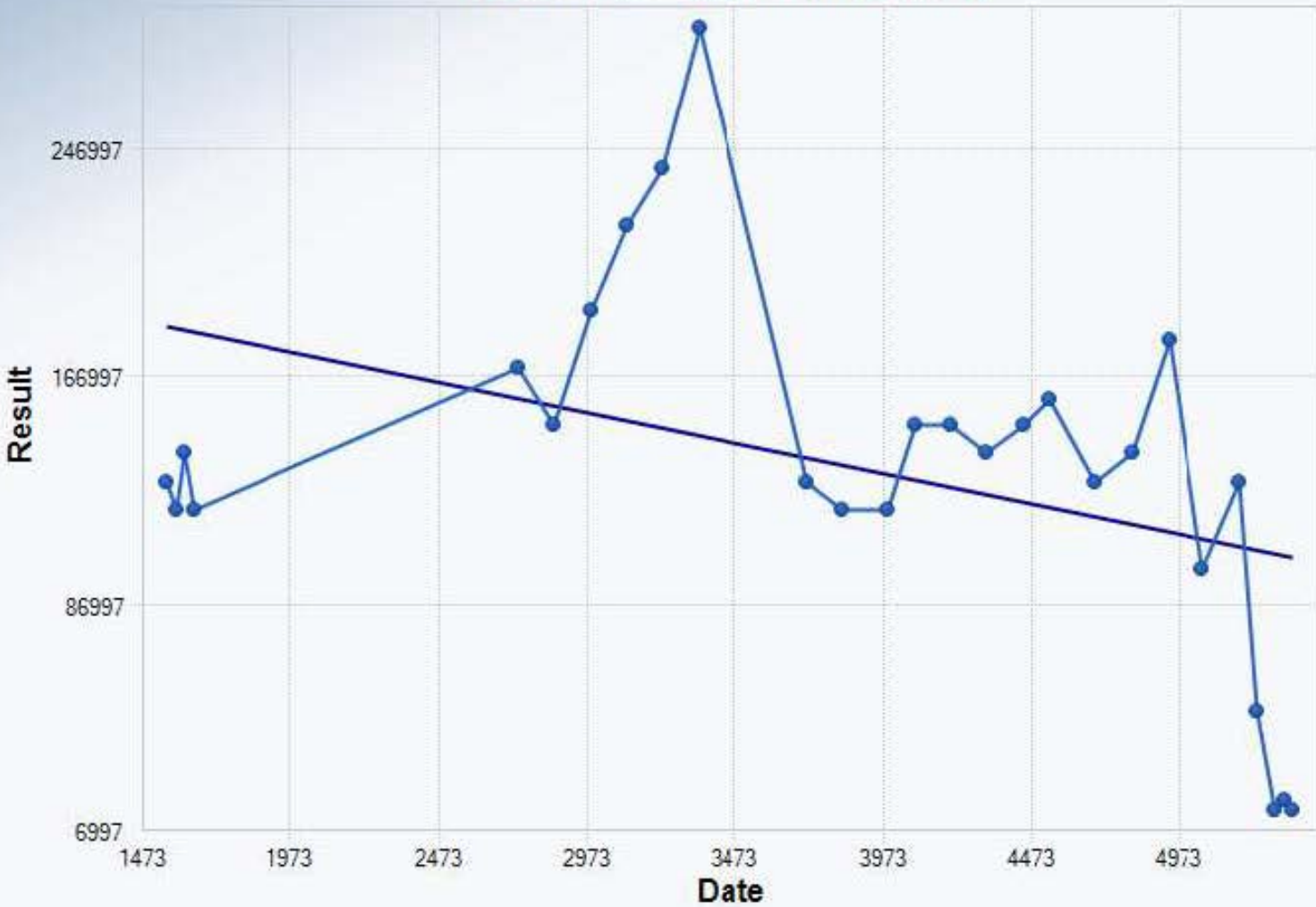
Mann-Kendall Trend Analysis	
n	36
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	73.3439
Standardized Value of S	-2.1406
M-K Test Value (S)	-158
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0162

OLS Regression Line (Blue)	
OLS Regression Slope	-11.4057
OLS Regression Intercept	77,581.8253

Statistically significant evidence of a decreasing trend at the specified level of significance.

6D15-2

Mann-Kendall Trend Test



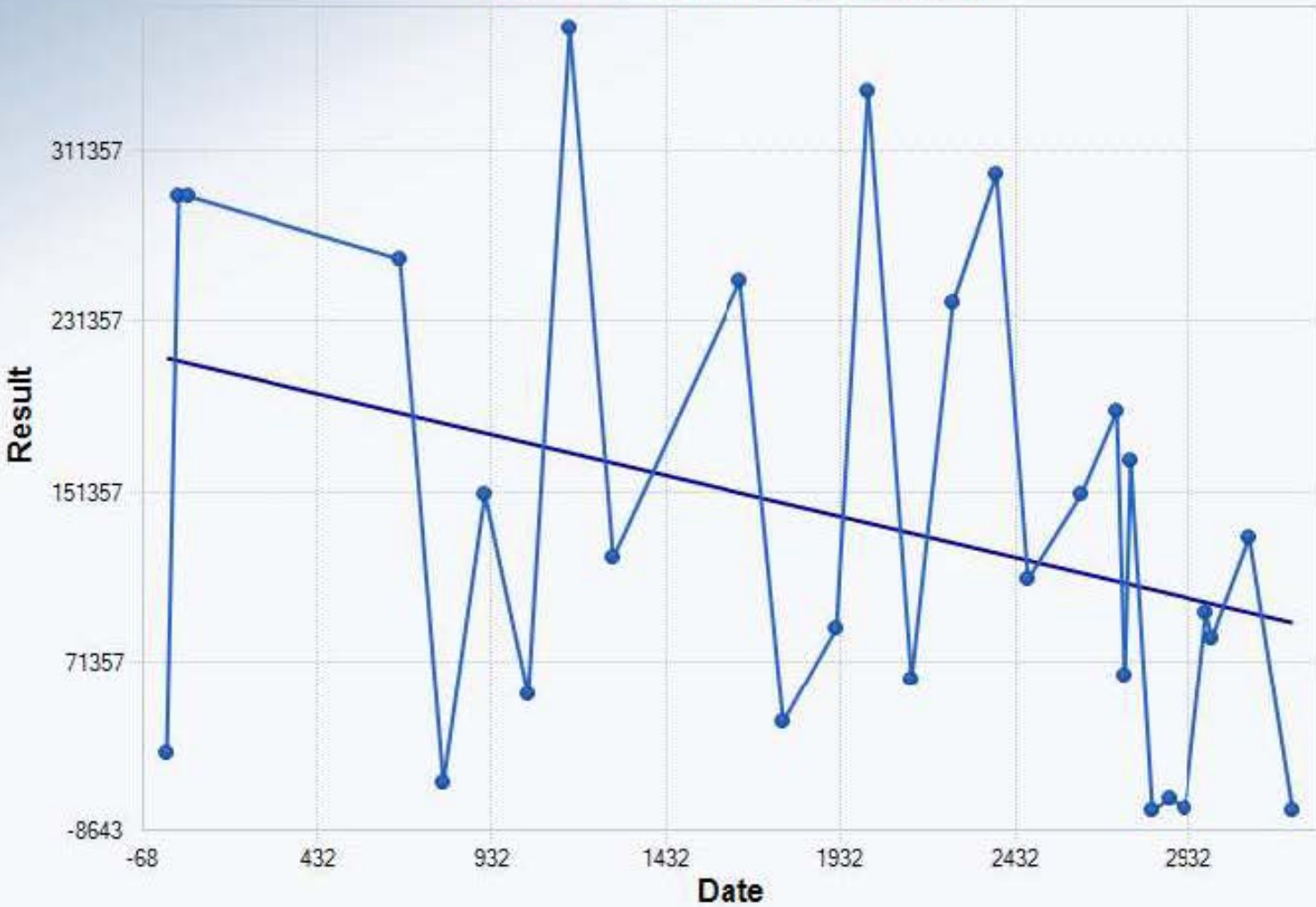
Mann-Kendall Trend Analysis	
n	27
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	47.6585
Standardized Value of S	-2.0353
M-K Test Value (S)	-98
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0209

OLS Regression Line (Blue)	
OLS Regression Slope	-21.3155
OLS Regression Intercept	217,468.8389

Statistically significant evidence of a decreasing trend at the specified level of significance.

6D22-2

Mann-Kendall Trend Test



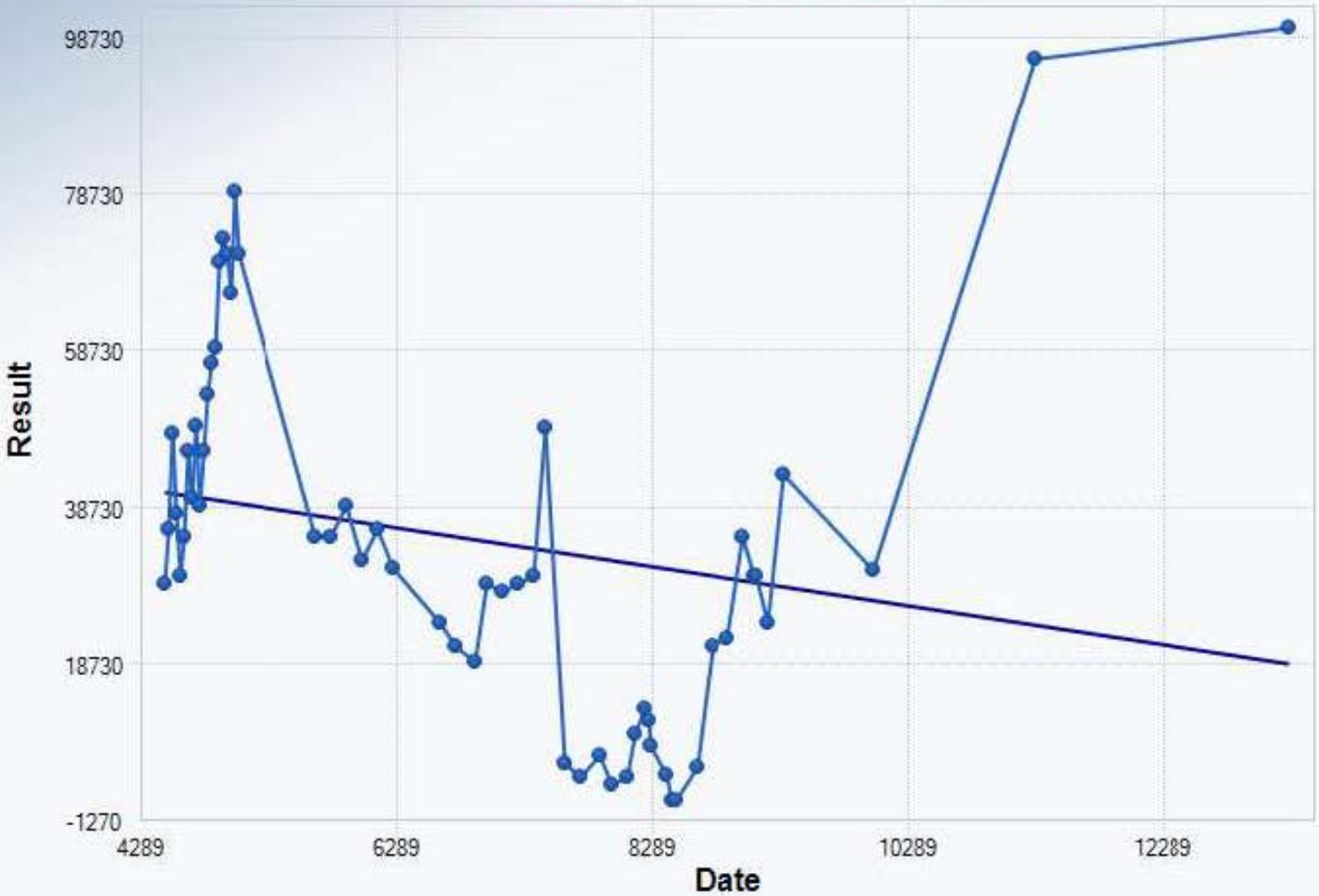
Mann-Kendall Trend Analysis	
n	28
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	50.5964
Standardized Value of S	-1.8776
M-K Test Value (S)	-96
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0302

OLS Regression Line (Blue)	
OLS Regression Slope	-38.4359
OLS Regression Intercept	213,606.7248

Statistically significant evidence of a decreasing trend at the specified level of significance.

6E3-2

Mann-Kendall Trend Test



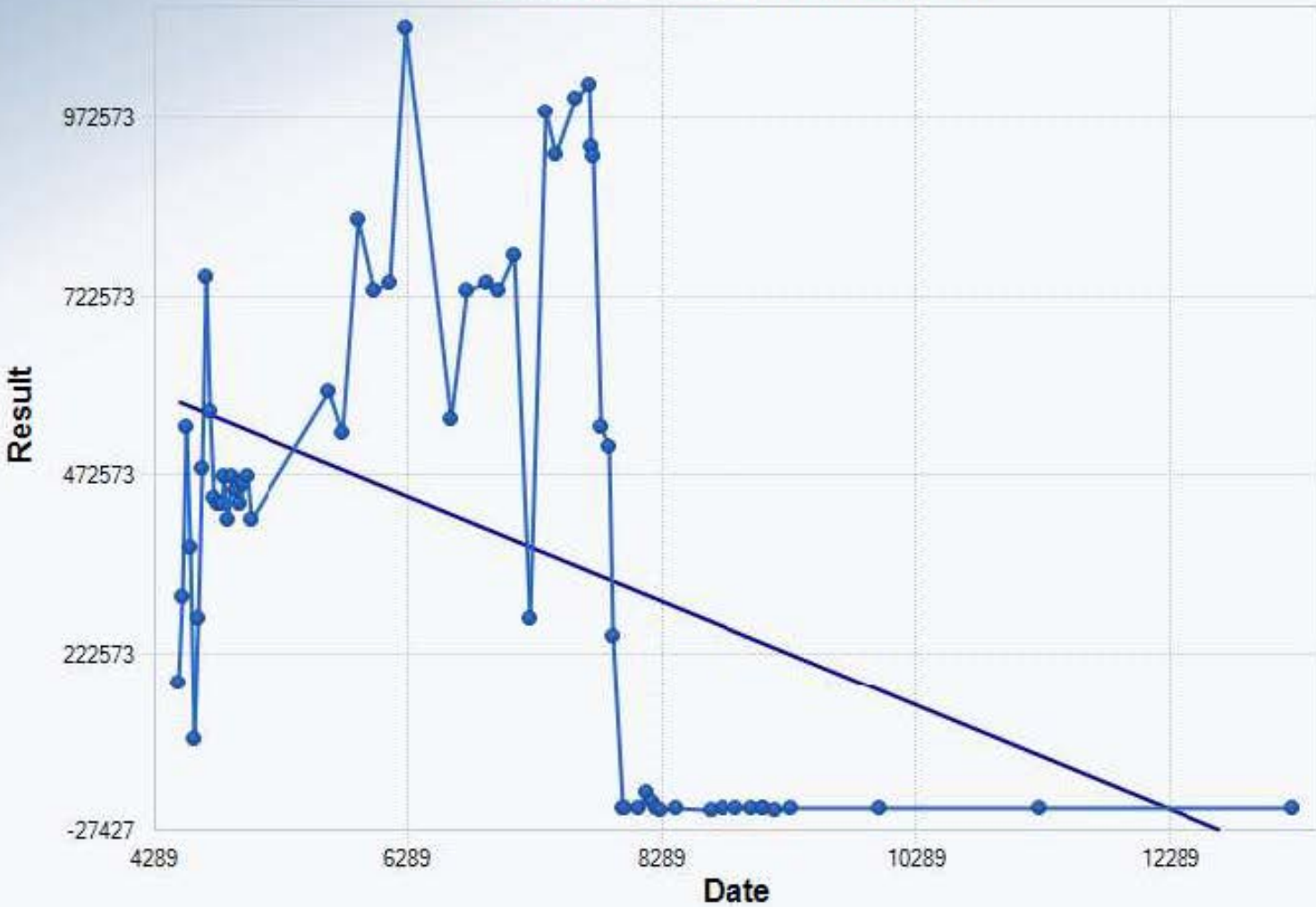
Mann-Kendall Trend Analysis	
n	57
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	145.1/12
Standardized Value of S	-3.1756
M-K Test Value (S)	-462
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0007

OLS Regression Line (Blue)	
OLS Regression Slope	-2.4738
OLS Regression Intercept	51,769.8112

Statistically significant evidence of a decreasing trend at the specified level of significance.

6E9-2

Mann-Kendall Trend Test



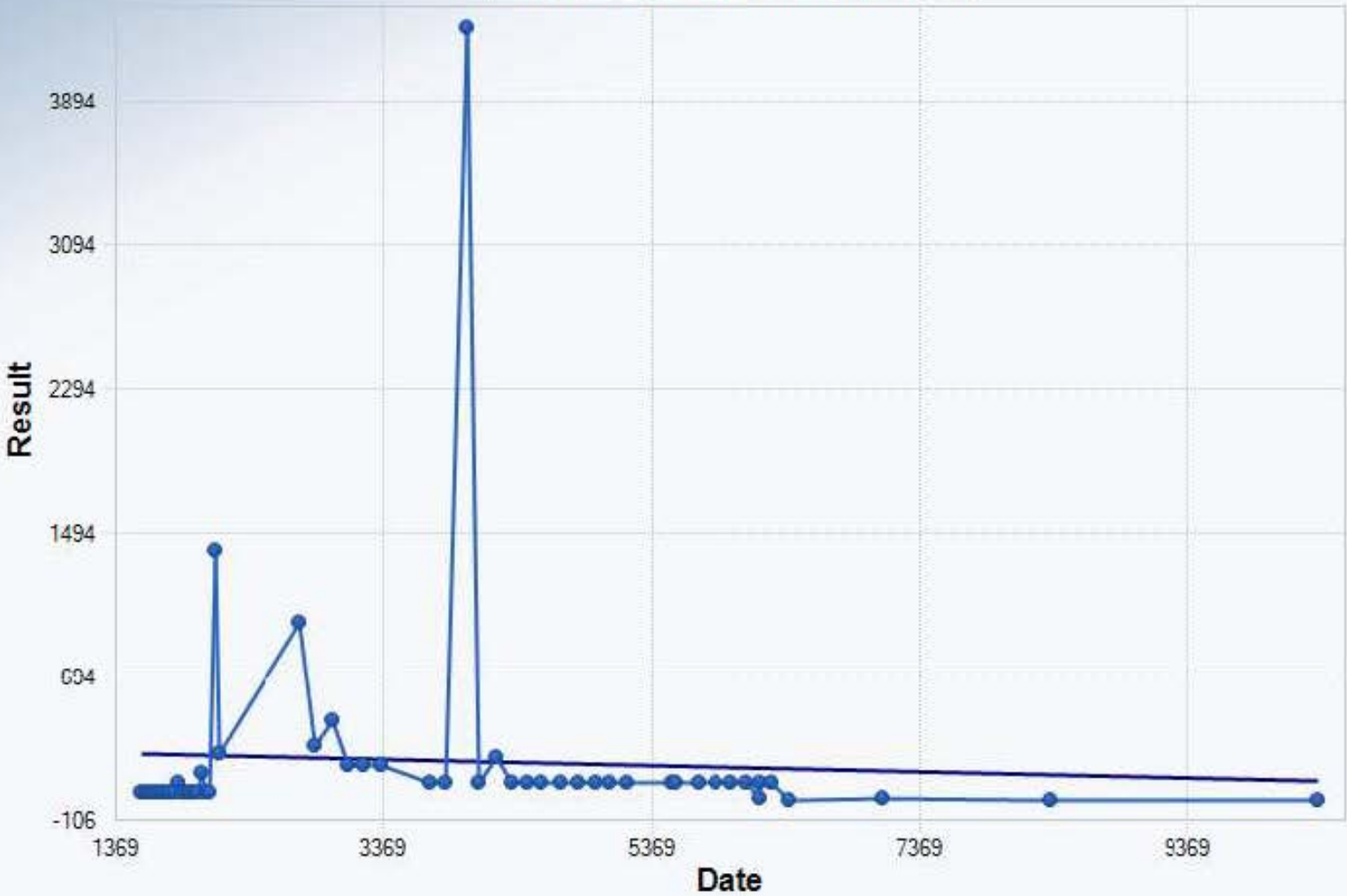
Mann-Kendall Trend Analysis	
n	60
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	156.7280
Standardized Value of S	-2.8329
M-K Test Value (S)	-445
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0023

OLS Regression Line (Blue)	
OLS Regression Slope	-73.5492
OLS Regression Intercept	905,173.5869

Statistically significant evidence of a decreasing trend at the specified level of significance.

6F1-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	52
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	120.8815
Standardized Value of S	0.4302
M-K Test Value (S)	53
Appx. Critical Value (0.05)	1.6449
Approximate p-value	0.3335

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0173
OLS Regression Intercept	287.7143

Insufficient statistical evidence of a significant trend at the specified level of significance.

7D1-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	40
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	85.3776
Standardized Value of S	-6.6645
M-K Test Value (S)	-570
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	-33.8386
OLS Regression Intercept	180,757.2152

Statistically significant evidence of a decreasing trend at the specified level of significance.

7E4-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	28
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	50.5866
Standardized Value of S	-5.0606
M-K Test Value (S)	-257
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	-1.8885
OLS Regression Intercept	18,223.1566

Statistically significant evidence of a decreasing trend at the specified level of significance.

7E6-2

Mann-Kendall Trend Test



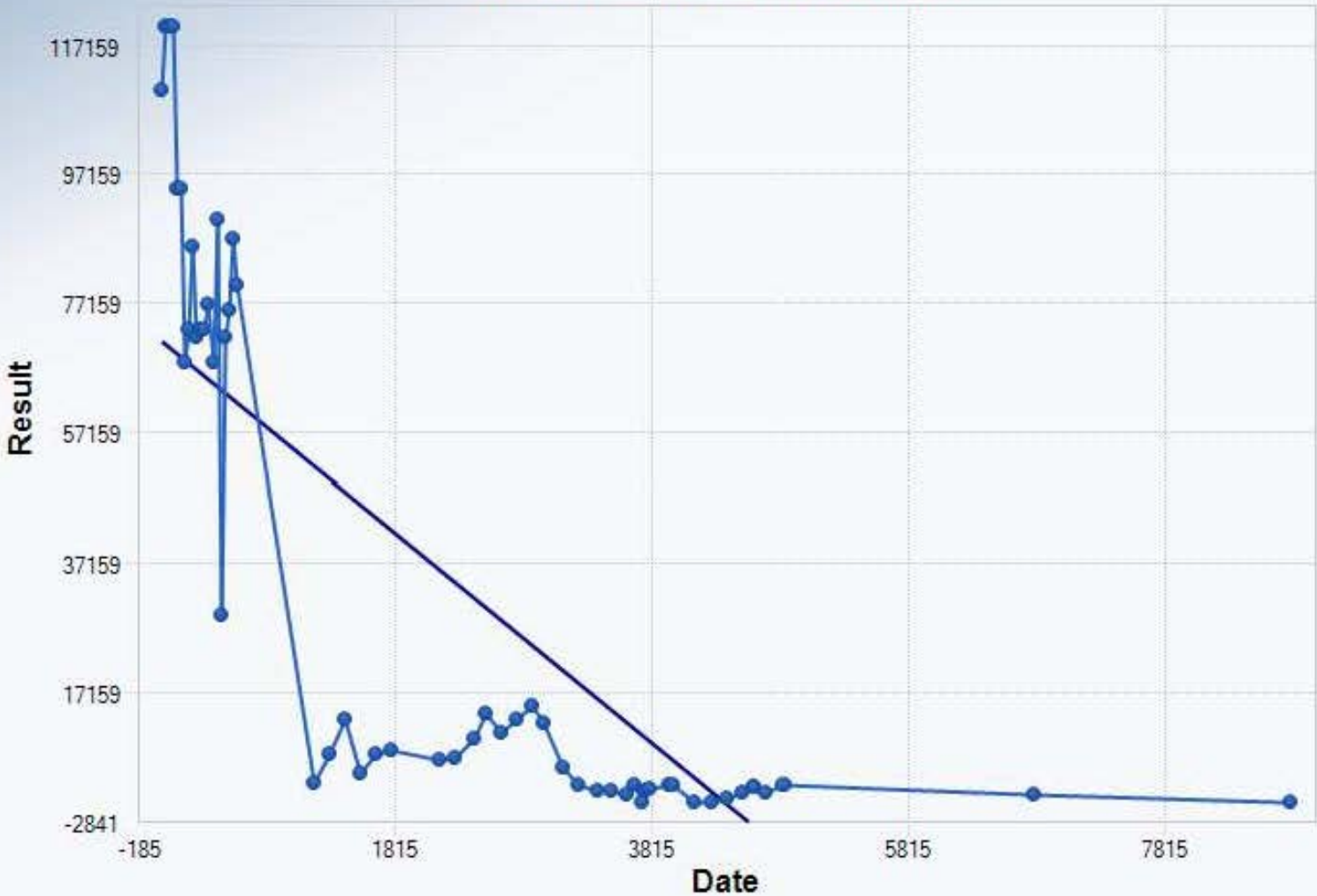
Mann-Kendall Trend Analysis	
n	52
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	126.6702
Standardized Value of S	-8.7234
M-K Test Value (S)	-1,106
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	-19.3089
OLS Regression Intercept	86,438.4397

Statistically significant evidence of a decreasing trend at the specified level of significance.

7E7-2

Mann-Kendall Trend Test



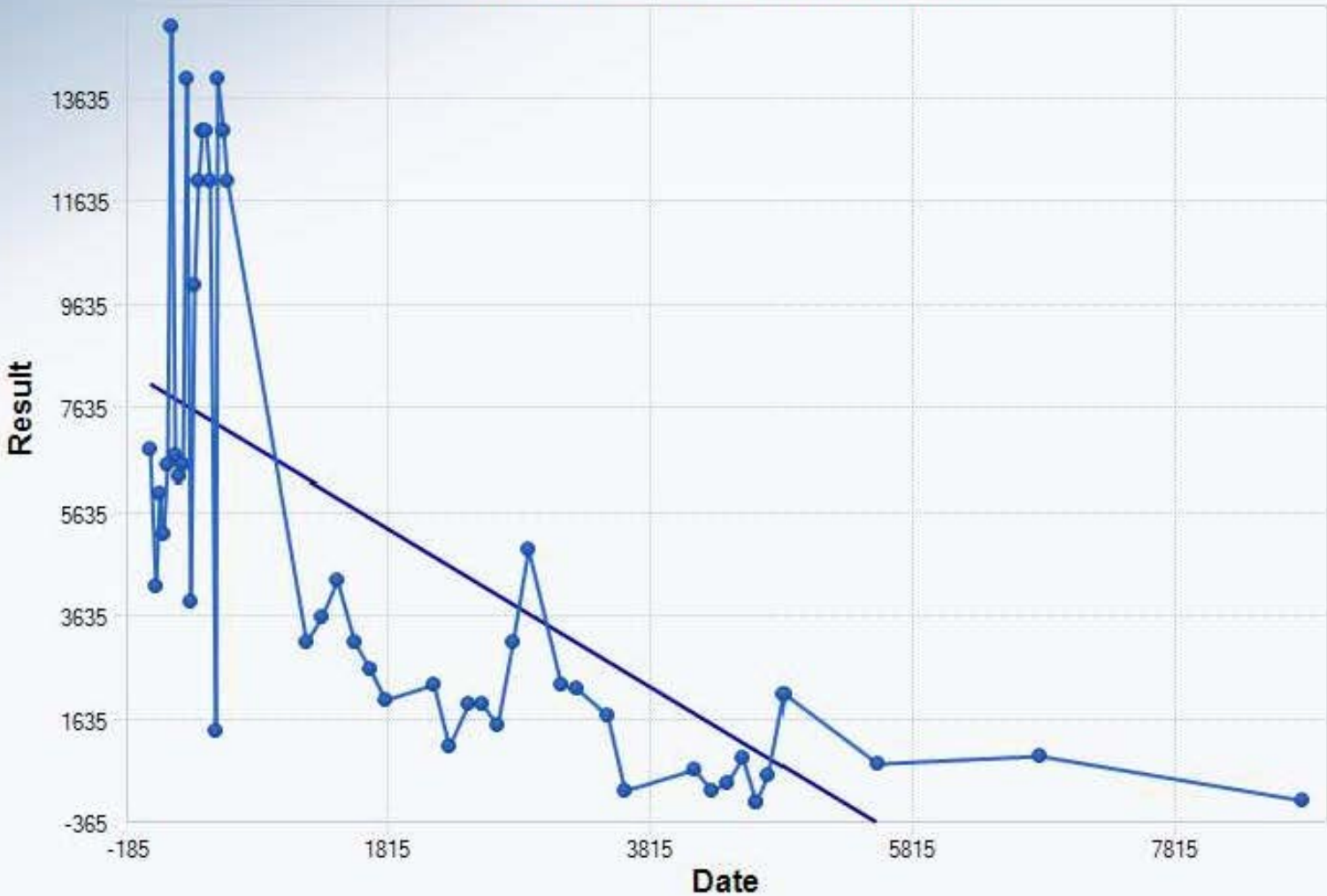
Mann-Kendall Trend Analysis	
n	55
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	137.6844
Standardized Value of S	-7.6697
M-K Test Value (S)	-1.057
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	-16.2062
OLS Regression Intercept	71,215.8829

Statistically significant evidence of a decreasing trend at the specified level of significance.

7E9-2

Mann-Kendall Trend Test



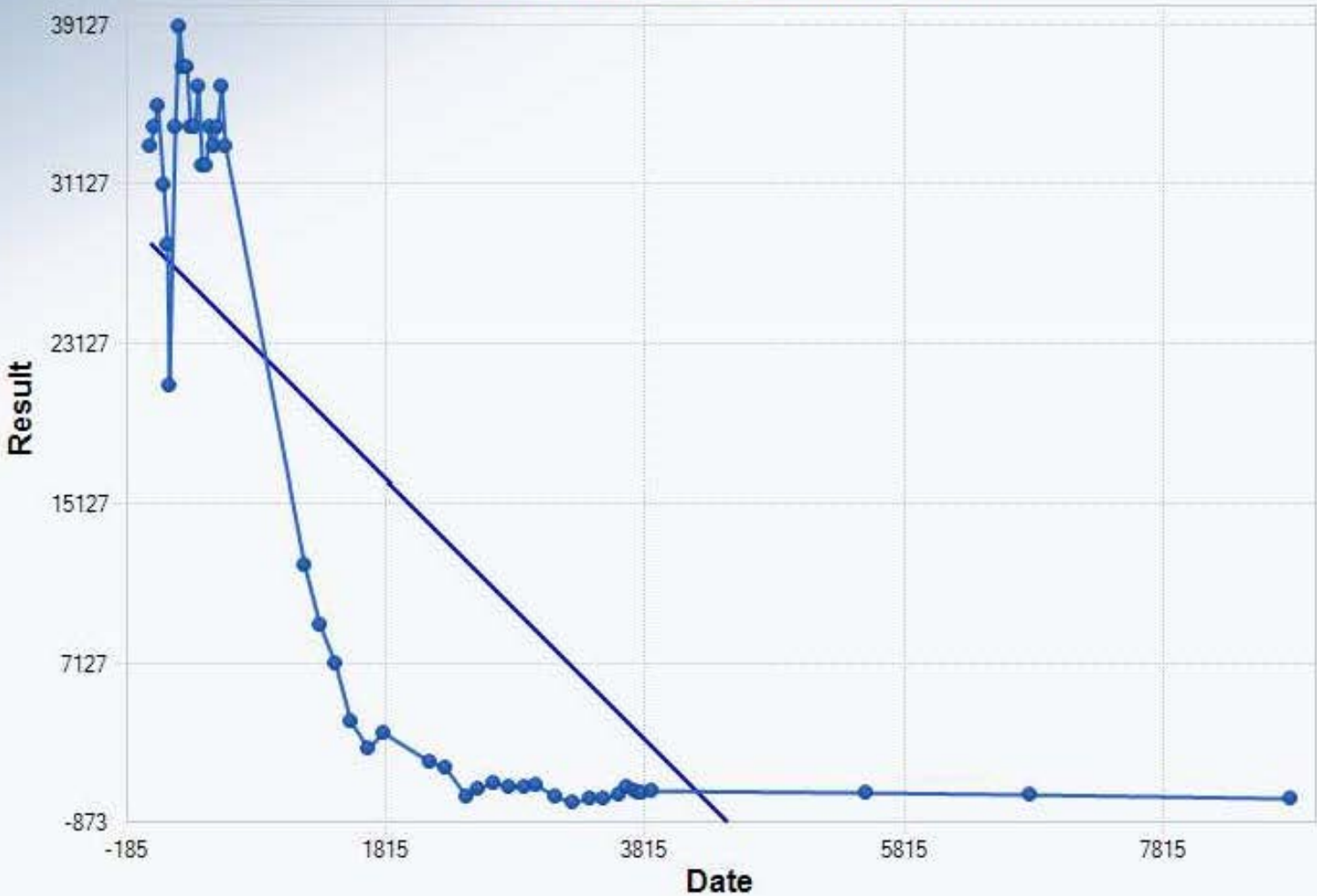
Mann-Kendall Trend Analysis	
n	48
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	112.4396
Standardized Value of S	-5.9676
M-K Test Value (S)	-672
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	-1.5304
OLS Regression Intercept	8,080.0900

Statistically significant evidence of a decreasing trend at the specified level of significance.

7E13-2R

Mann-Kendall Trend Test



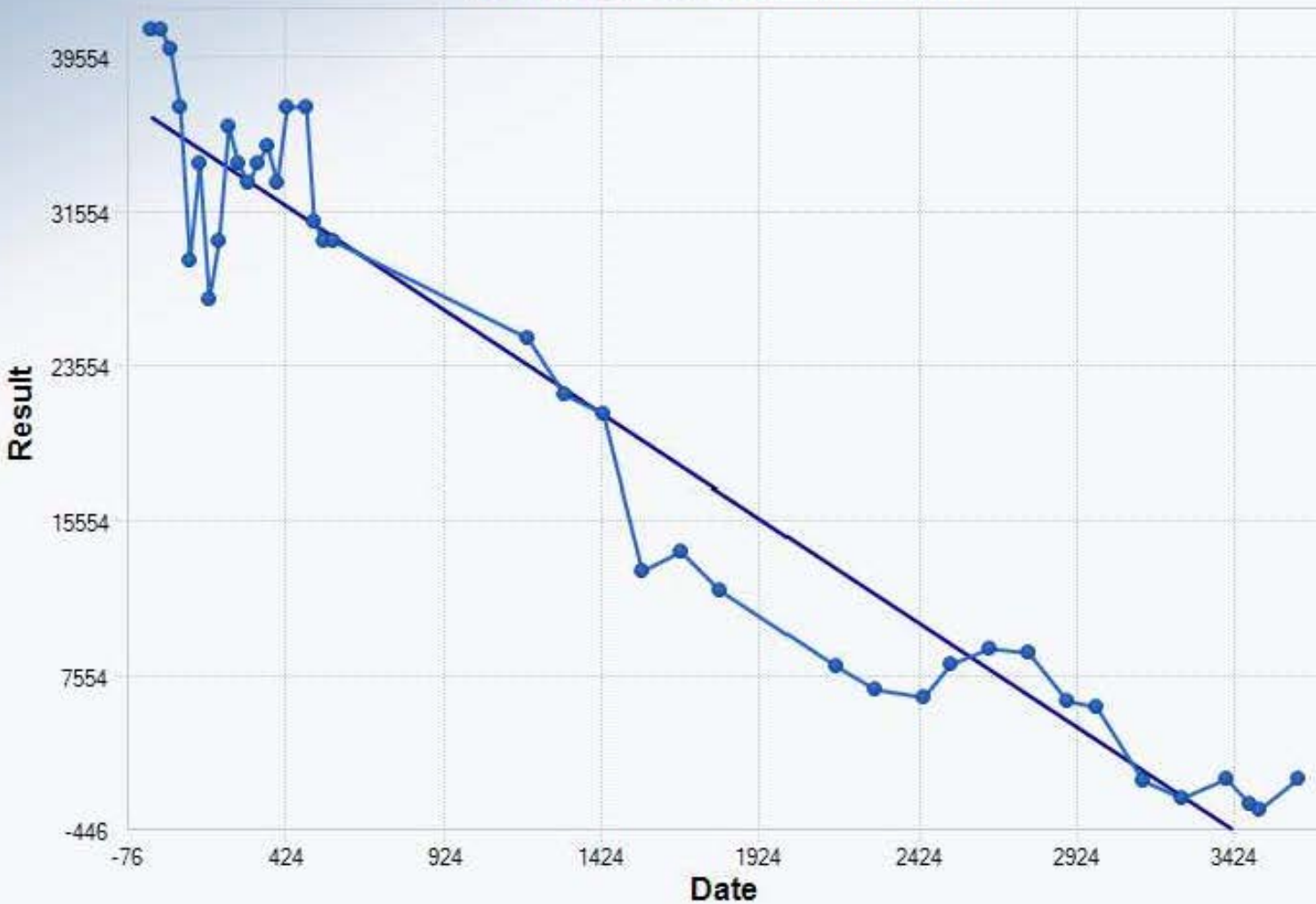
Mann-Kendall Trend Analysis	
n	47
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	108.8853
Standardized Value of S	-6.8421
M-K Test Value (S)	-746
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	-6.5299
OLS Regression Intercept	28,160.4873

Statistically significant evidence of a decreasing trend at the specified level of significance.

7E21-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	39
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	82.5813
Standardized Value of S	-7.0718
M-K Test Value (S)	-585
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0000

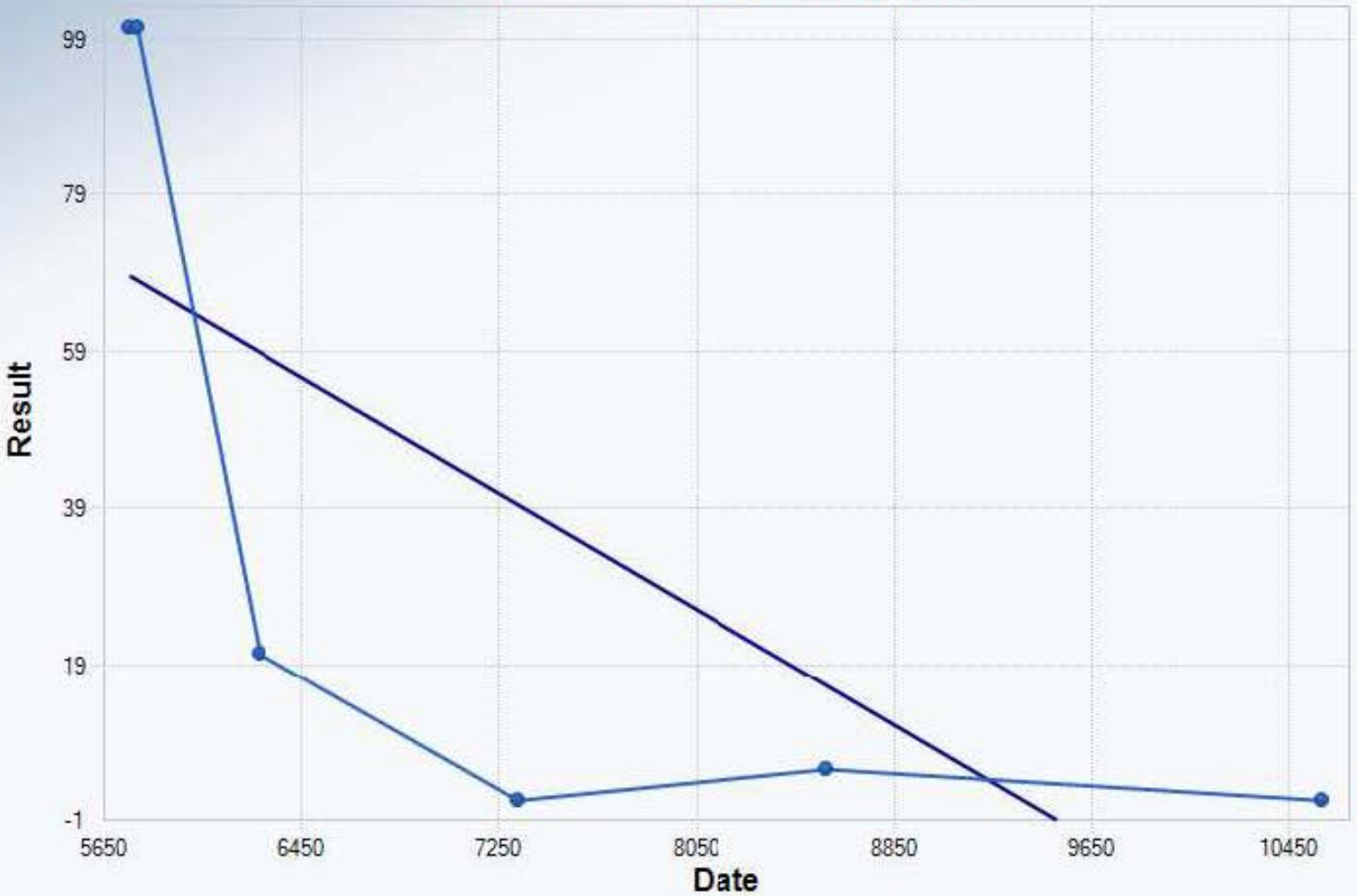
OLS Regression Line (Blue)

OLS Regression Slope	-10.8330
OLS Regression Intercept	36,506.4672

Statistically significant evidence of a decreasing trend at the specified level of significance.

713-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	6
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	5.2281
Standardized Value of S	-2.1040
M-K Test Value (S)	-12
Tabulated p-value	0.0080
Approximate p-value	0.0177

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0186
OLS Regression Intercept	174.8448

Statistically significant evidence of a decreasing trend at the specified level of significance.

8F2-2R

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	47
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	108.9067
Standardized Value of S	-3.1678
M-K Test Value (S)	-346
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0008

OLS Regression Line (Blue)	
OLS Regression Slope	-0.2677
OLS Regression Intercept	1,906.9503

Statistically significant evidence of a decreasing trend at the specified level of significance.

8G3-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	55
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	136.1127
Standardized Value of S	-1.6530
M-K Test Value (S)	-226
Appx. Critical Value (0.05)	-1.6449
Approximate p-value	0.0492

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0982
OLS Regression Intercept	605.3336

Statistically significant evidence of a decreasing trend at the specified level of significance.

Backup for Figure 6-7

3A1-3R

Mann-Kendall Trend Test



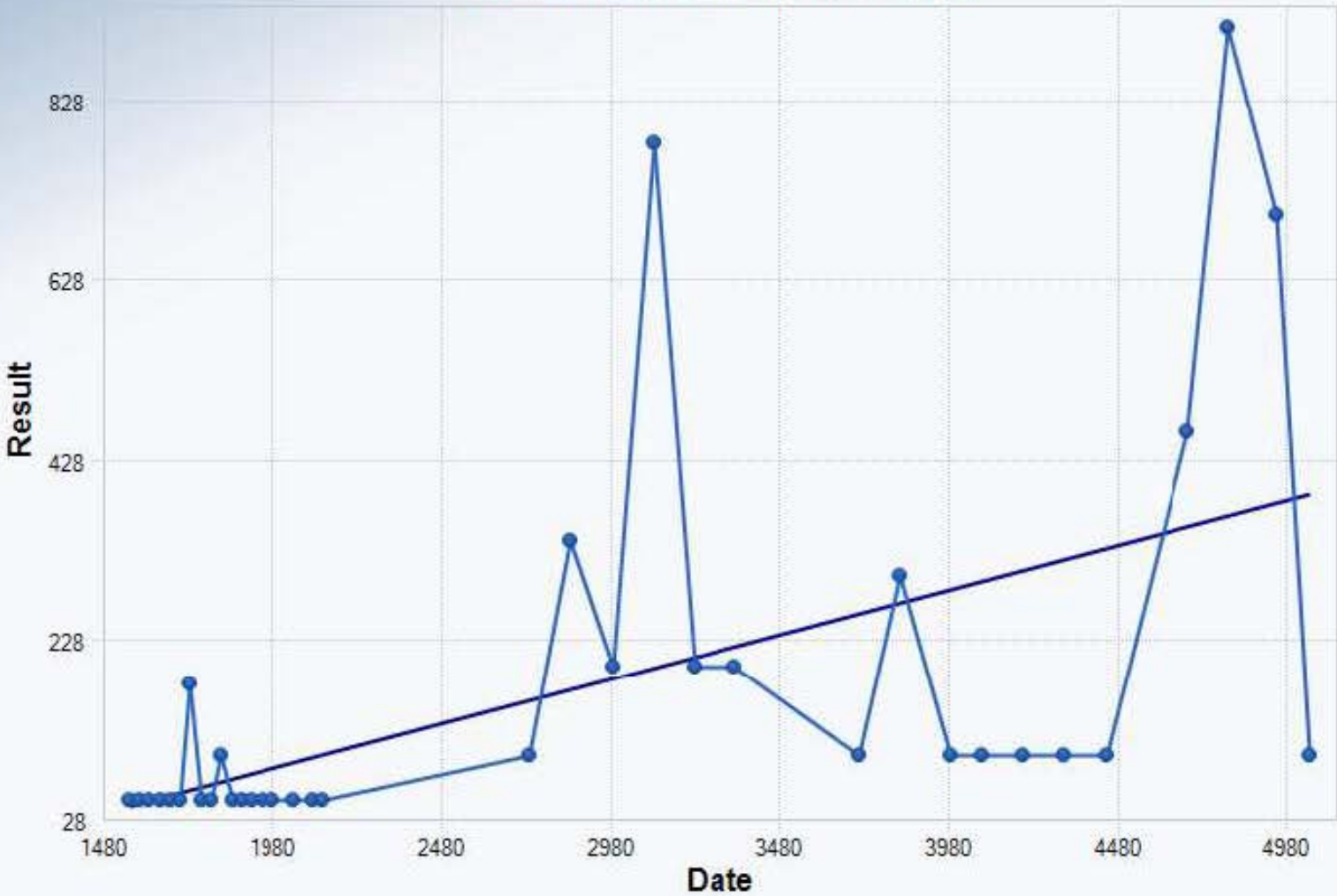
Mann-Kendall Trend Analysis	
n	7
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	6.2981
Standardized Value of S	-2.2229
M-K Test Value (S)	-15
Tabulated p-value	0.0150
Approximate p-value	0.0131

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0399
OLS Regression Intercept	367.6098

Statistically significant evidence of a decreasing trend at the specified level of significance.

6D11-3

Mann-Kendall Trend Test



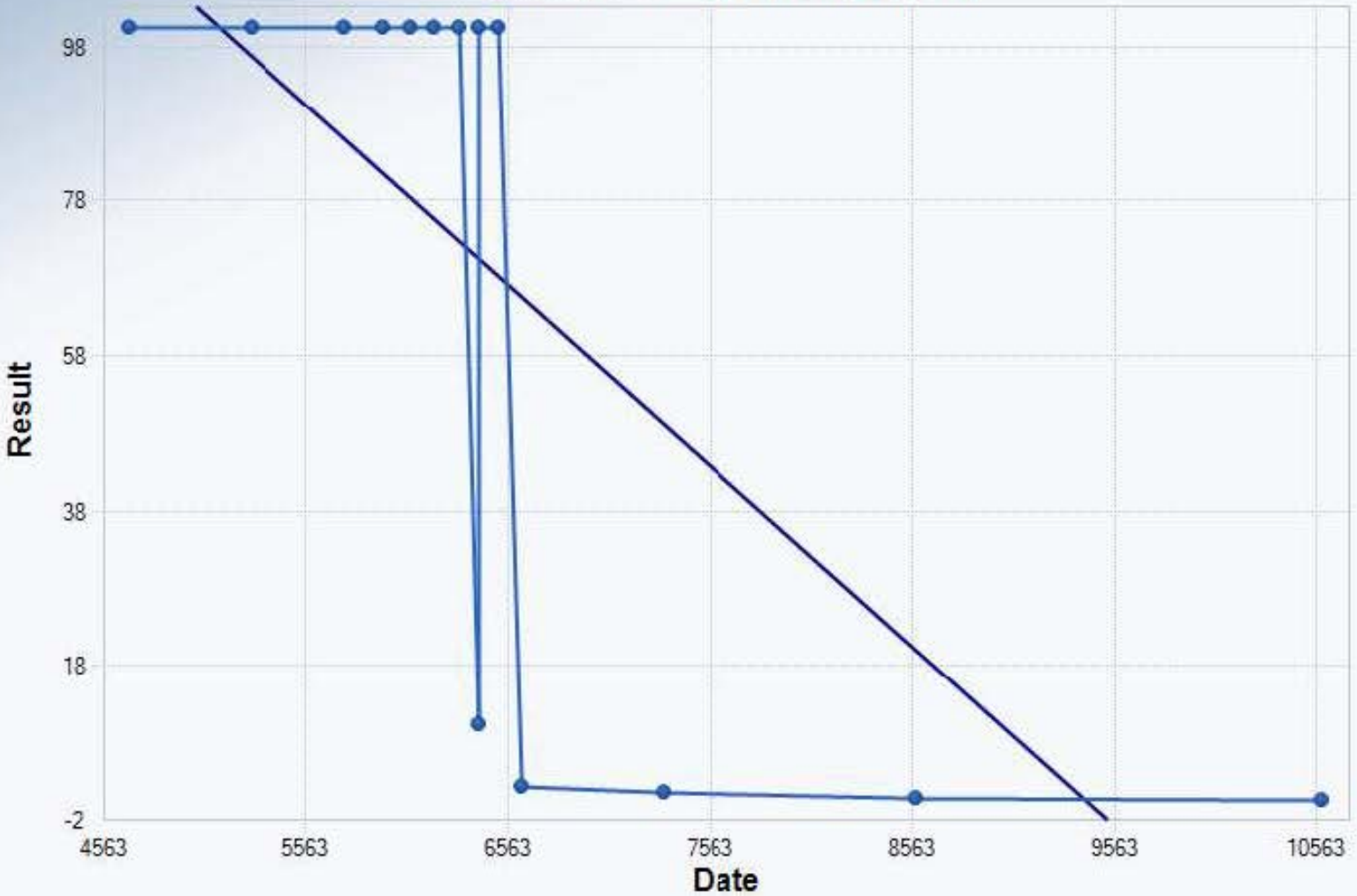
Mann-Kendall Trend Analysis	
n	35
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	66.1009
Standardized Value of S	4.1300
M-K Test Value (S)	274
Appx. Critical Value (0.05)	1.6449
Approximate p-value	0.0000

OLS Regression Line (Blue)	
OLS Regression Slope	0.0999
OLS Regression Intercept	-112.3812

Statistically significant evidence of an increasing trend at the specified level of significance.

7E5-3

Mann-Kendall Trend Test



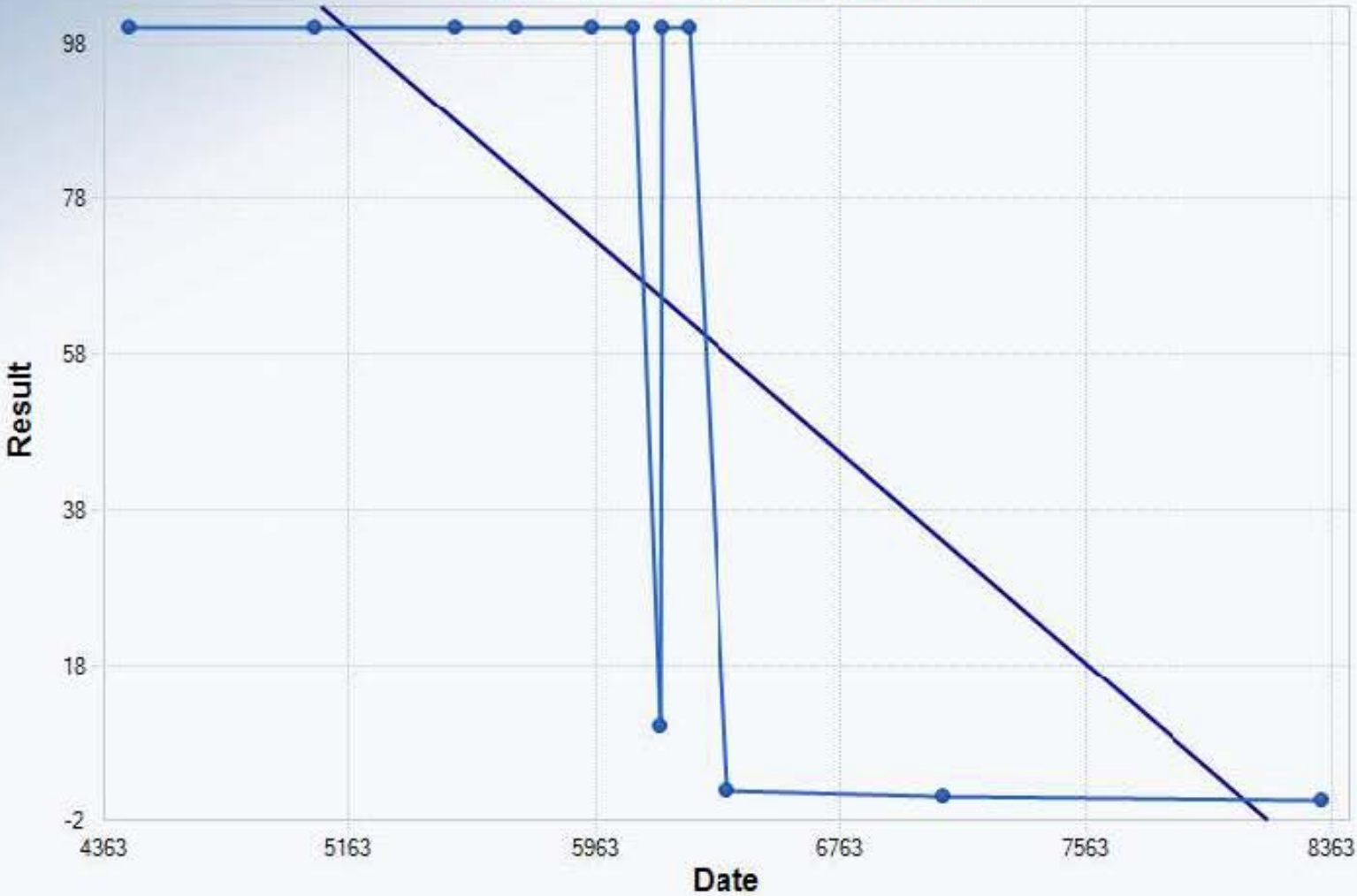
Mann-Kendall Trend Analysis	
n	14
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	15.5456
Standardized Value of S	-3.2163
M-K Test Value (S)	-51
Tabulated p-value	0.0020
Approximate p-value	0.0006

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0234
OLS Regression Intercept	220.3092

Statistically significant evidence of a decreasing trend at the specified level of significance.

712-3

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.1381
Standardized Value of S	-2.7187
M-K Test Value (S)	-34
Tabulated p-value	0.0100
Approximate p-value	0.0033

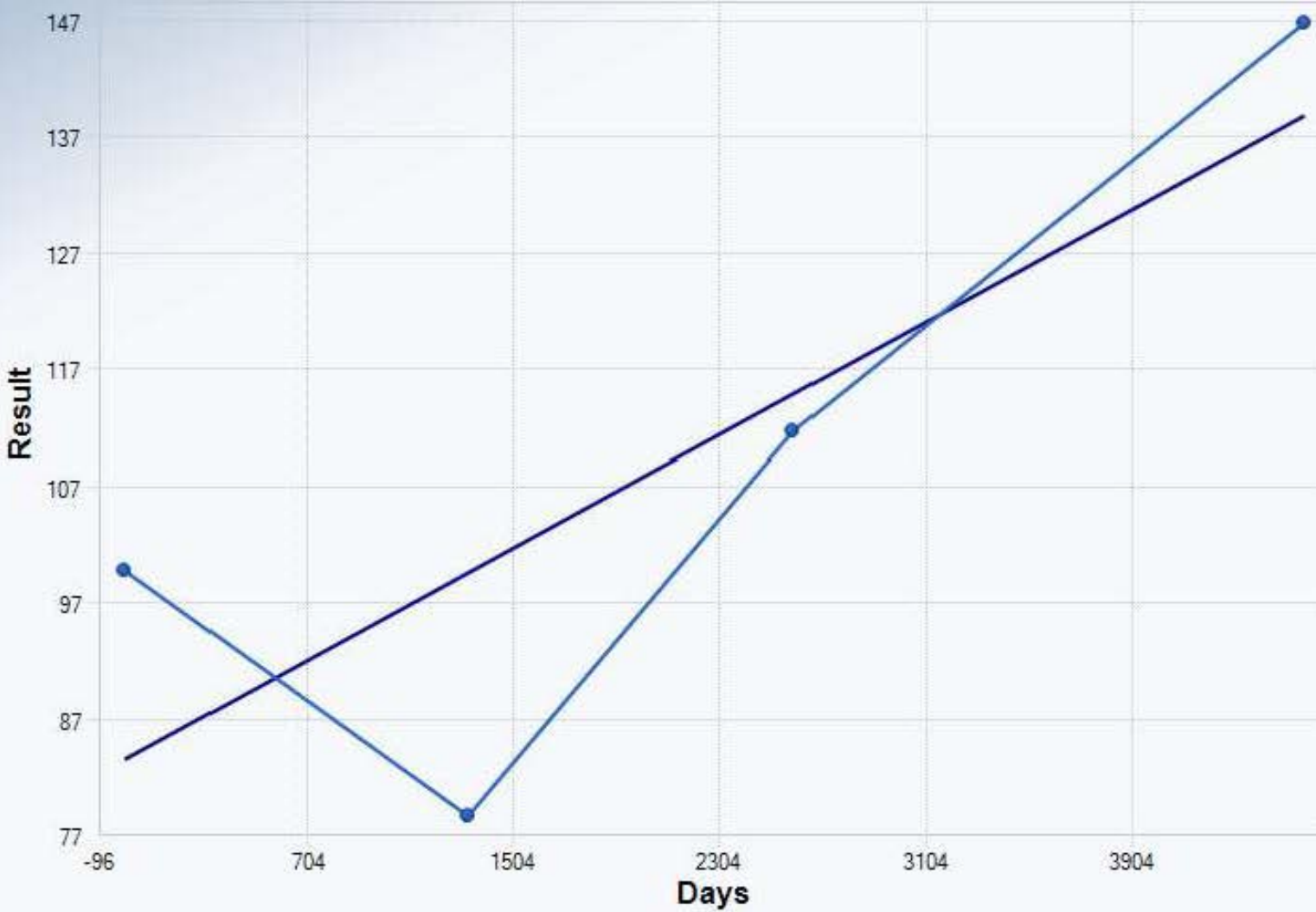
OLS Regression Line (Blue)	
OLS Regression Slope	-0.0340
OLS Regression Intercept	275.3591

Statistically significant evidence of a decreasing trend at the specified level of significance.

Backup for Figure 6-9

2B1-1

Mann-Kendall Trend Test



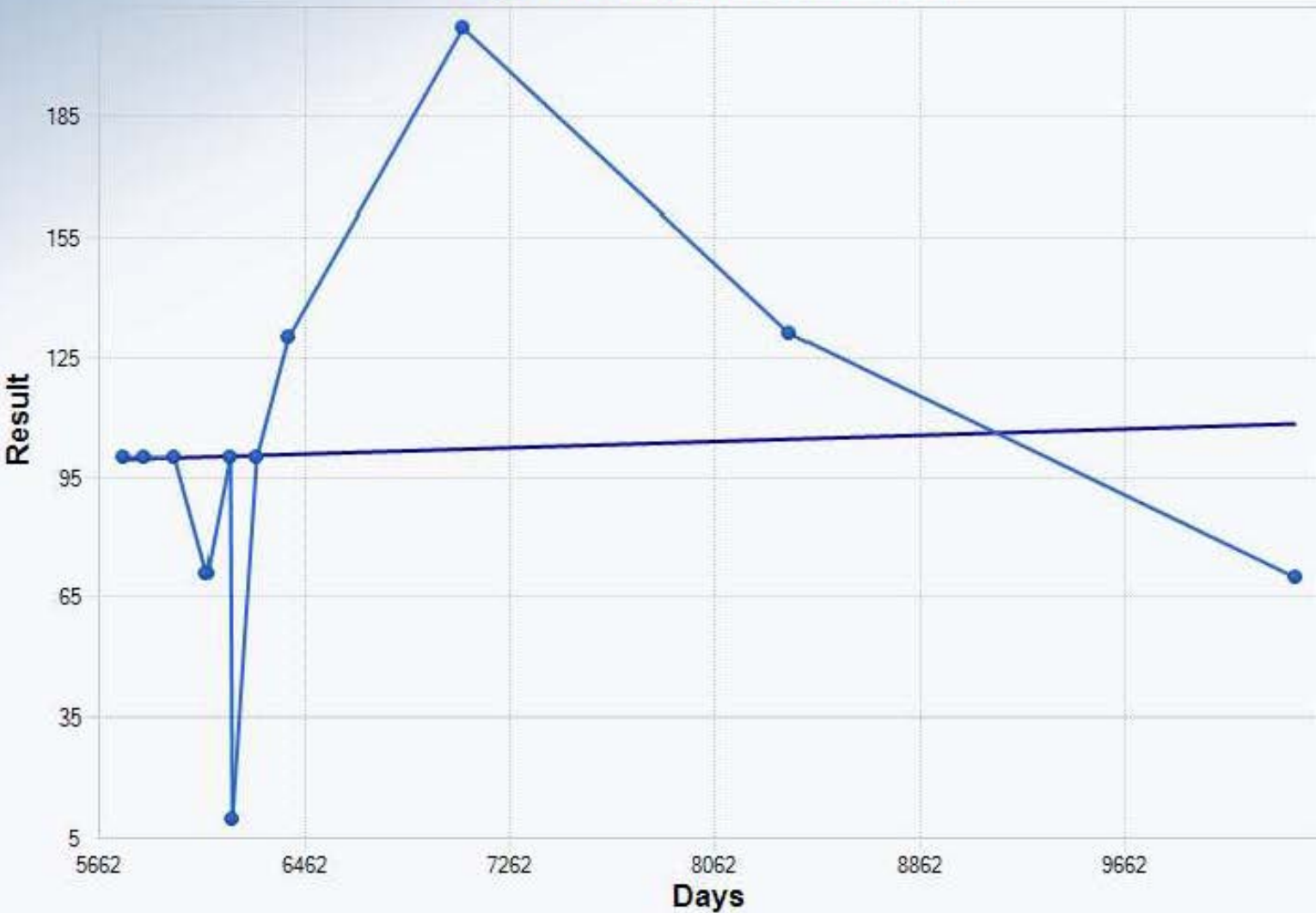
Mann-Kendall Trend Analysis	
n	4
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	2.9439
Standardized Value of S	1.0190
M-K Test Value (S)	4
Tabulated p-value	0.1670
Approximate p-value	0.1541

OLS Regression Line (Blue)	
OLS Regression Slope	0.0121
OLS Regression Intercept	83.8160

Insufficient statistical evidence of a significant trend at the specified level of significance.

3C1-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.1792
Standardized Value of S	0.6569
M-K Test Value (S)	9
Tabulated p-value	0.2710
Approximate p-value	0.2556

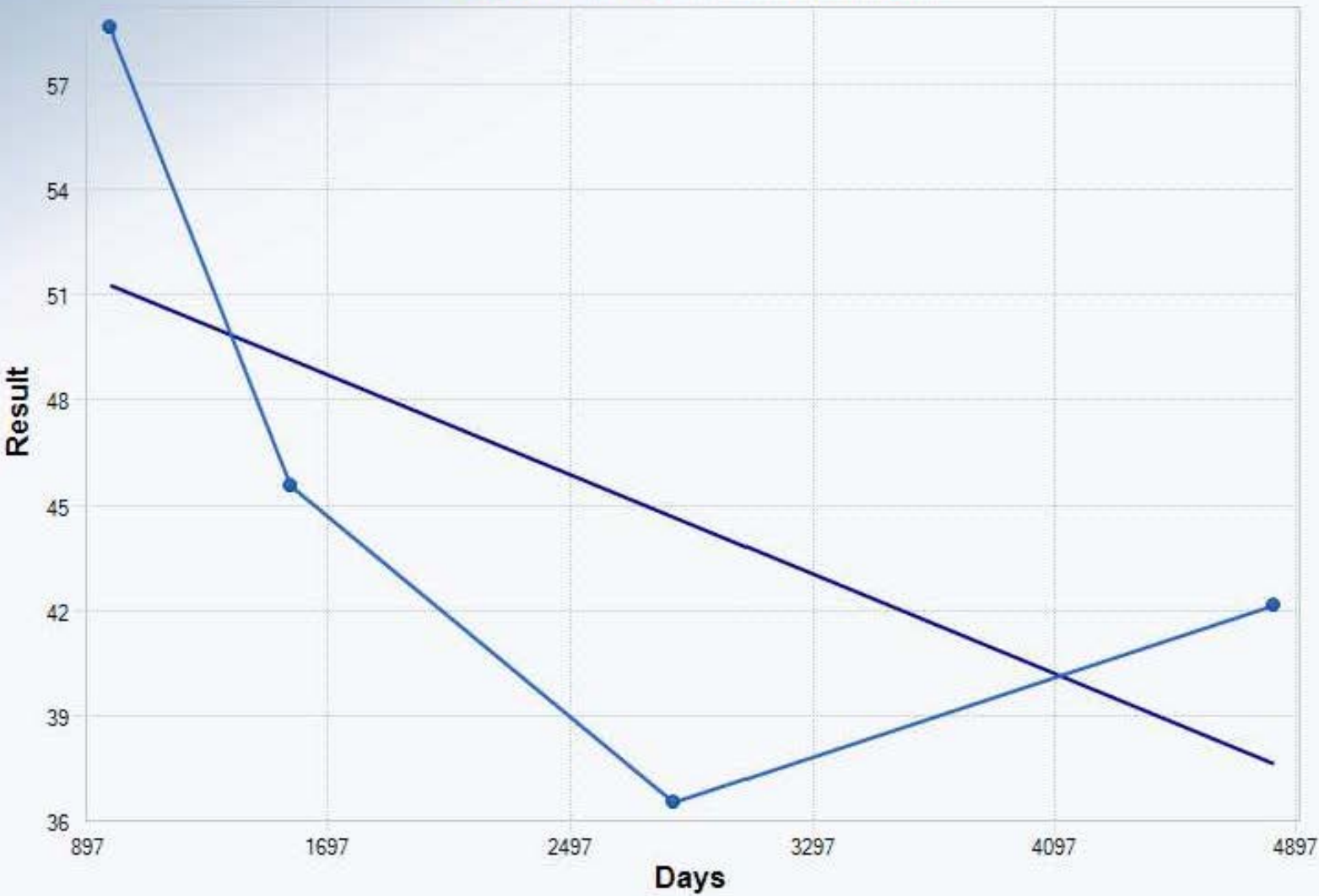
OLS Regression Line (Blue)

OLS Regression Slope	0.0020
OLS Regression Intercept	88.5226

Insufficient statistical evidence of a significant trend at the specified level of significance.

3C2-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	4
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	2.9439
Standardized Value of S	-1.0190
M-K Test Value (S)	-4
Tabulated p-value	0.1670
Approximate p-value	0.1541

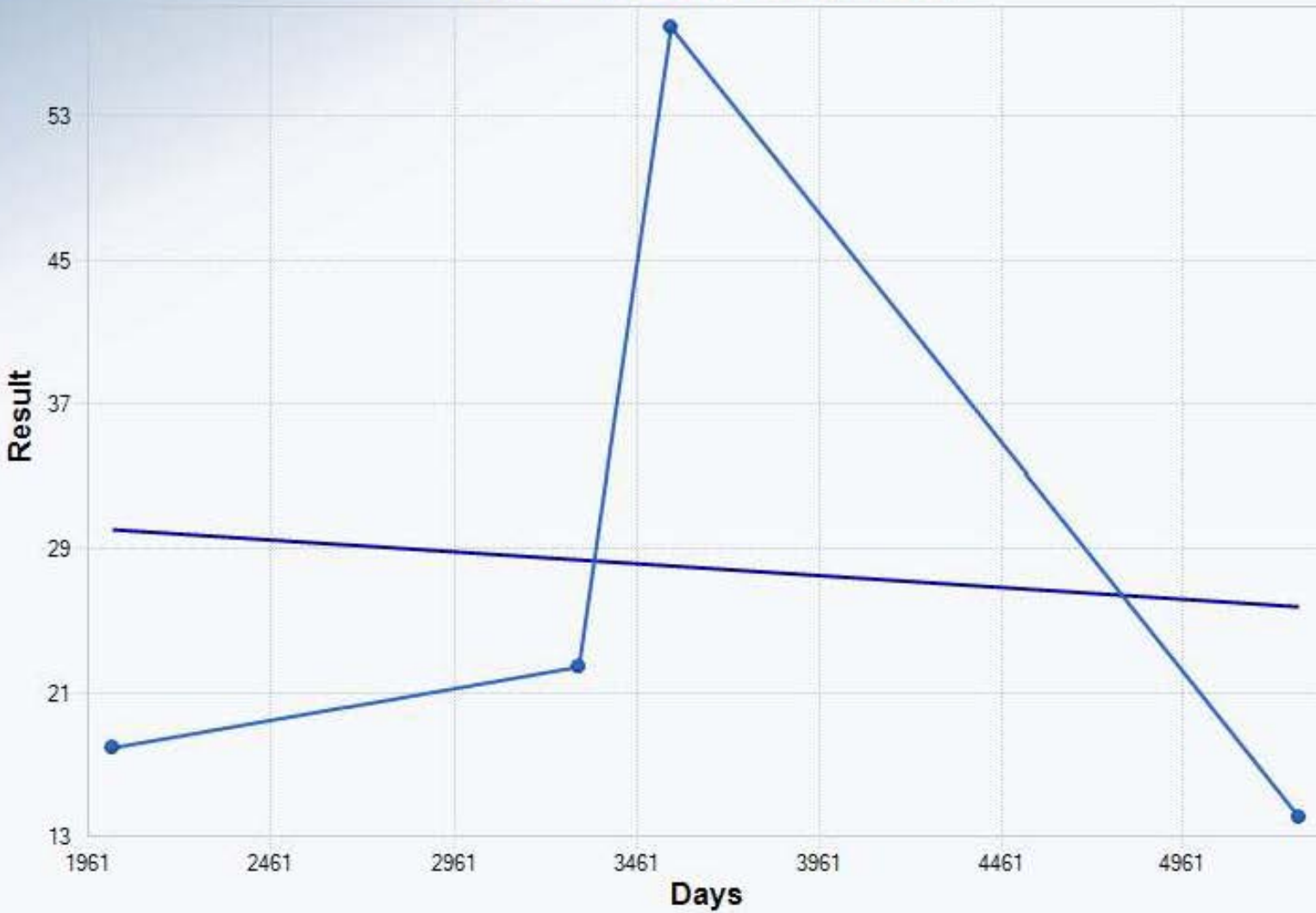
OLS Regression Line (Blue)

OLS Regression Slope	-0.0035
OLS Regression Intercept	55.2102

Insufficient statistical evidence of a significant trend at the specified level of significance.

3C6-1R

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	4
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	2.9439
Standardized Value of S	
M-K Test Value (S)	0
Tabulated p-value	0.6250
Approximate p-value	

OLS Regression Line (Blue)

OLS Regression Slope	-0.0013
OLS Regression Intercept	32.8452

Insufficient statistical evidence of a significant trend at the specified level of significance.

4B3-1

Mann-Kendall Trend Test



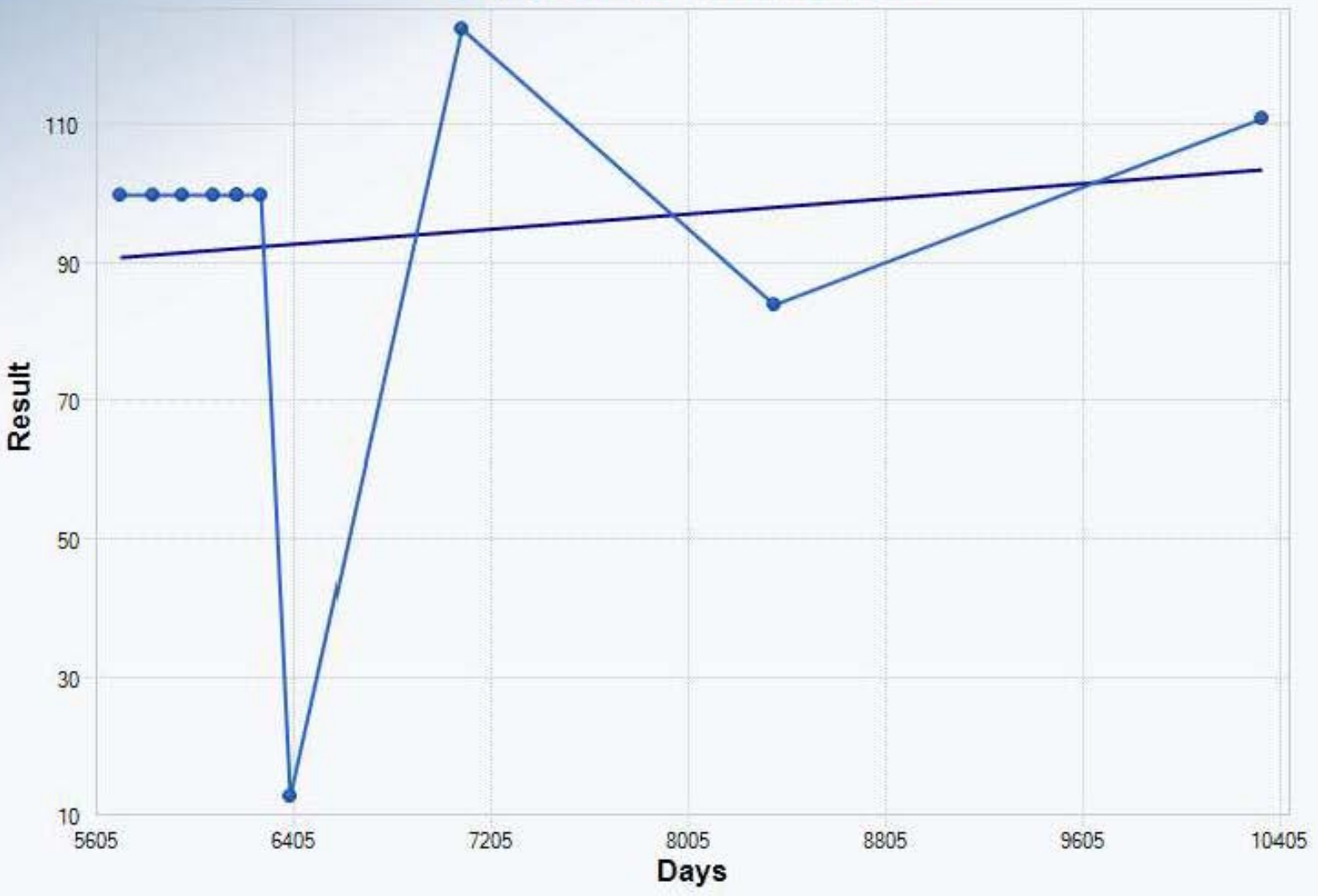
Mann-Kendall Trend Analysis	
n	4
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	2.9439
Standardized Value of S	
M-K Test Value (S)	0
Tabulated p-value	0.6250
Approximate p-value	

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0019
OLS Regression Intercept	184.5210

Insufficient statistical evidence of a significant trend at the specified level of significance.

4C1-1

Mann-Kendall Trend Test



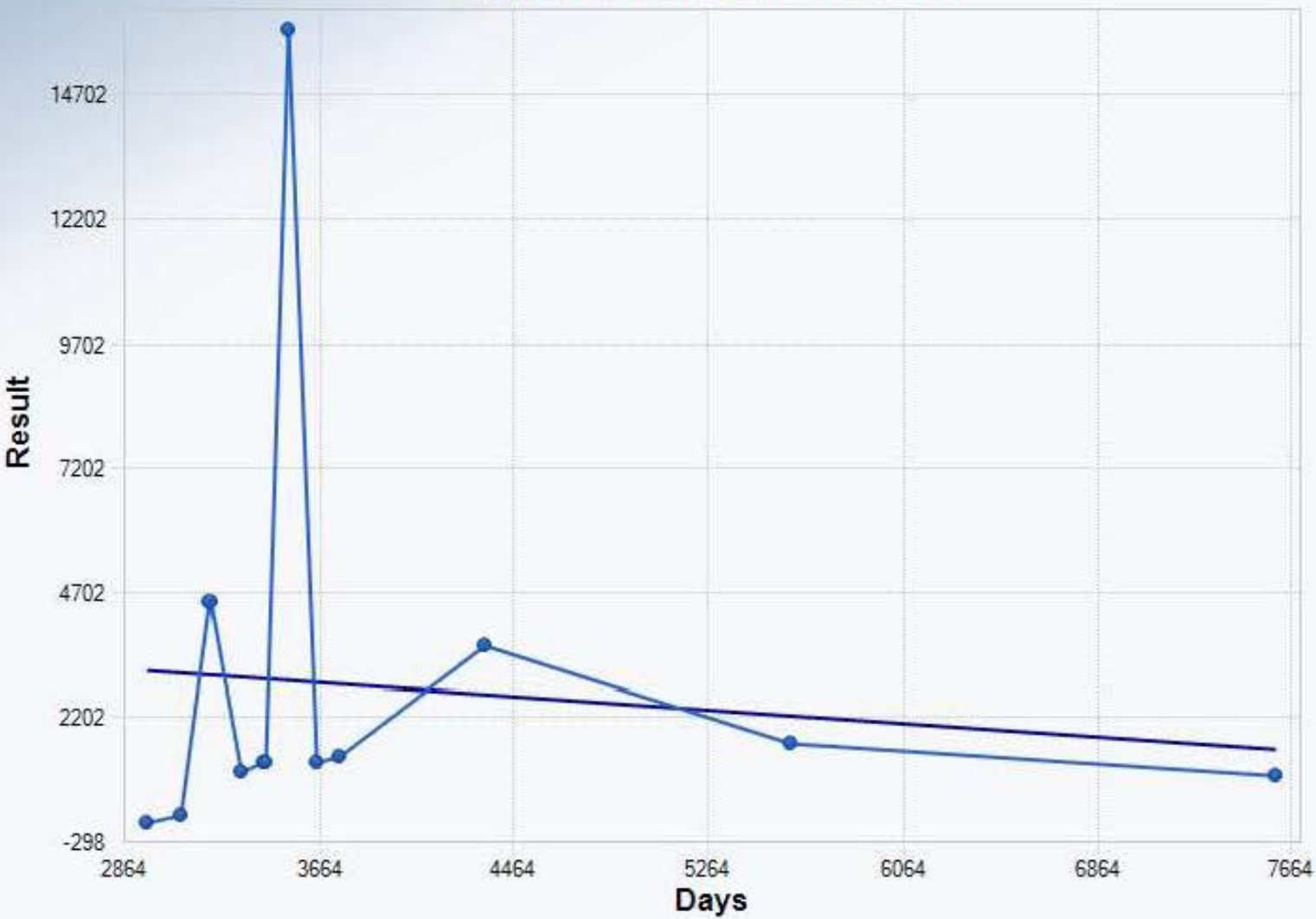
Mann-Kendall Trend Analysis	
n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	10.9848
Standardized Value of S	0.0910
M-K Test Value (S)	2
Tabulated p-value	0.4400
Approximate p-value	0.4637

OLS Regression Line (Blue)	
OLS Regression Slope	0.0027
OLS Regression Intercept	75.3309

Insufficient statistical evidence of a significant trend at the specified level of significance.

5C12-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.4568
Standardized Value of S	1.3834
M-K Test Value (S)	21
Tabulated p-value	0.0980
Approximate p-value	0.0833

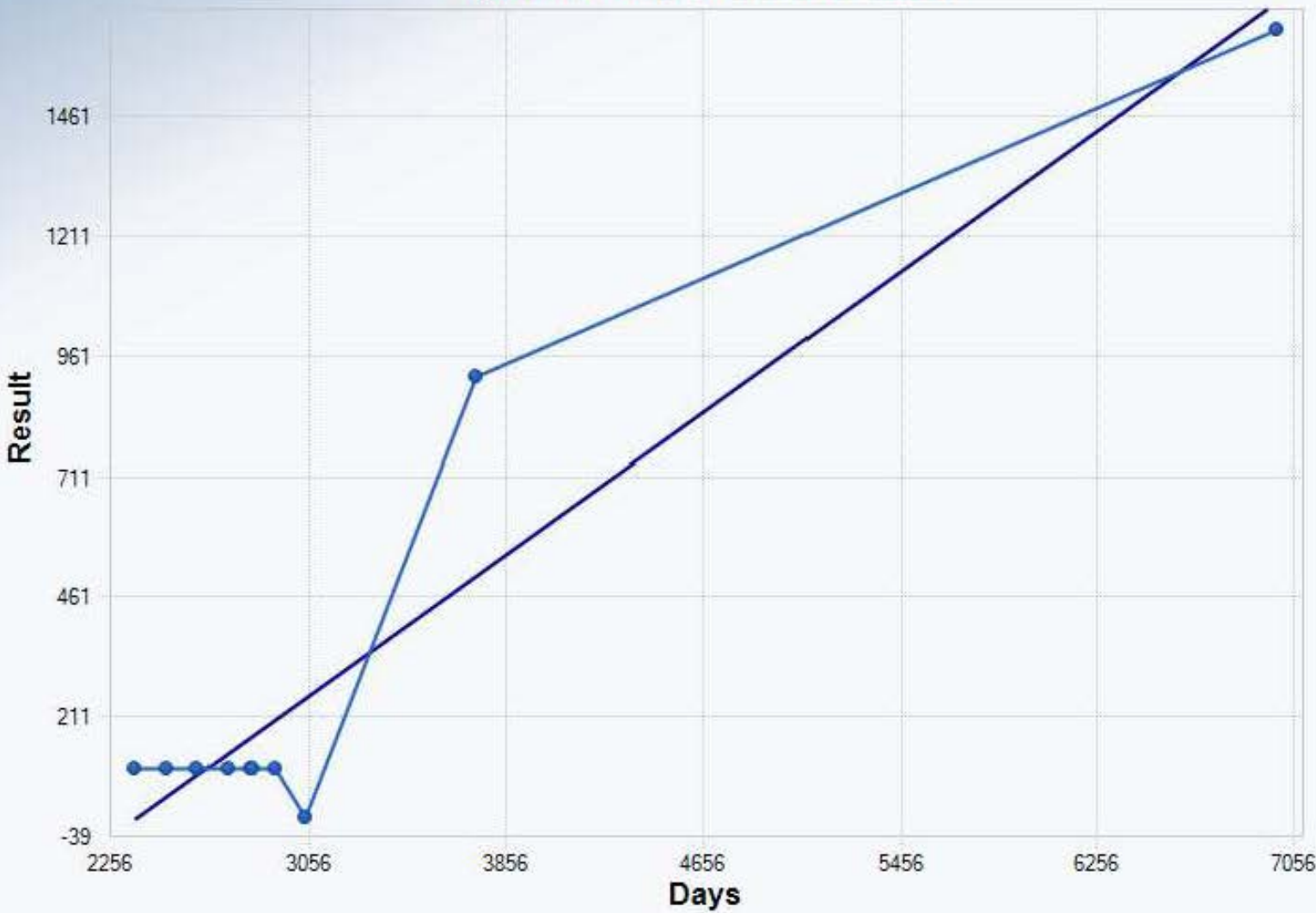
OLS Regression Line (Blue)

OLS Regression Slope	-0.3364
OLS Regression Intercept	4,143.3654

Insufficient statistical evidence of a significant trend at the specified level of significance.

5C13-1

Mann-Kendall Trend Test



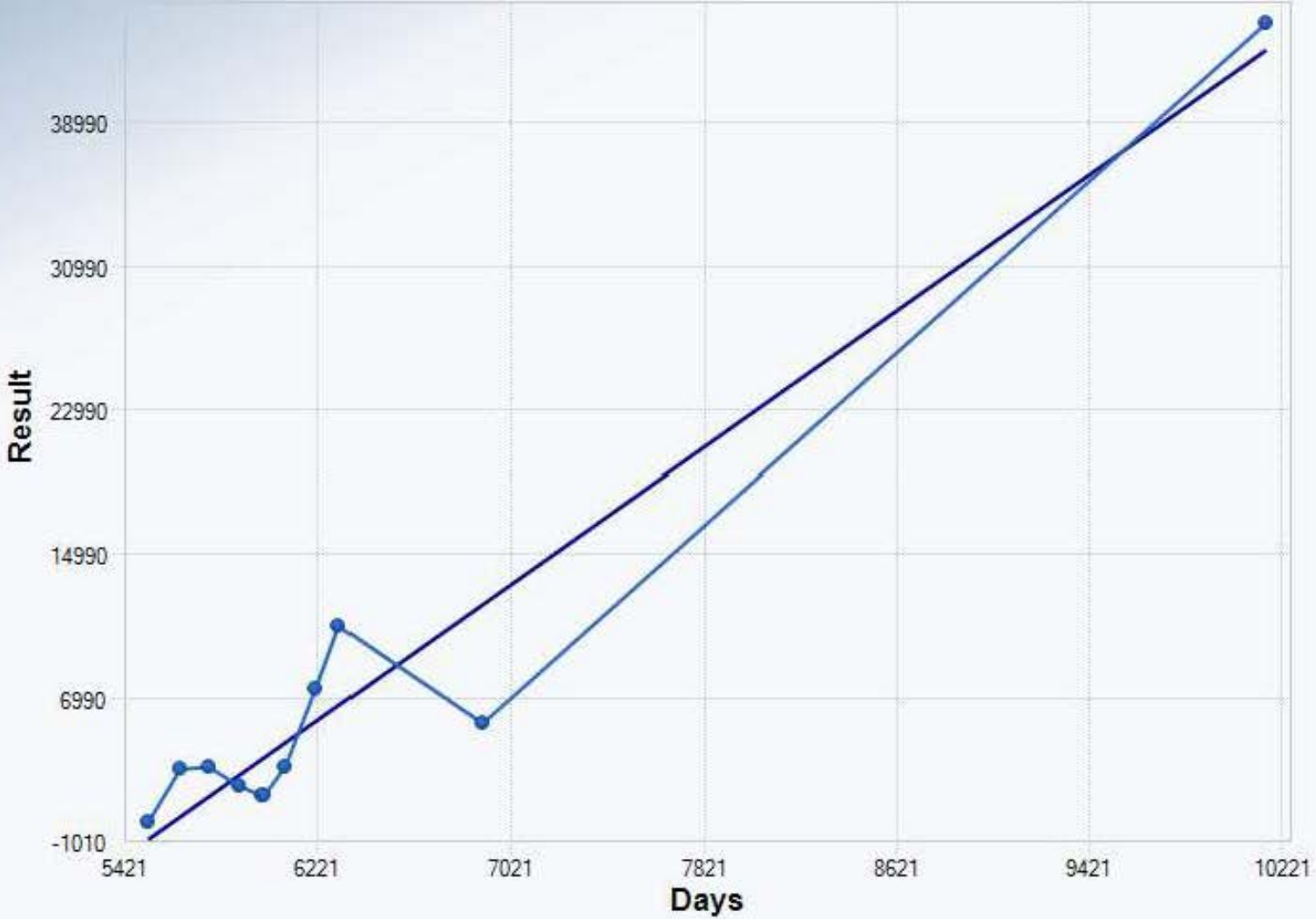
Mann-Kendall Trend Analysis	
n	10
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	8.9815
Standardized Value of S	1.0021
M-K Test Value (S)	10
Tabulated p-value	0.1900
Approximate p-value	0.1582

OLS Regression Line (Blue)	
OLS Regression Slope	0.3676
OLS Regression Intercept	-869.4946

Insufficient statistical evidence of a significant trend at the specified level of significance.

5D5-1

Mann-Kendall Trend Test



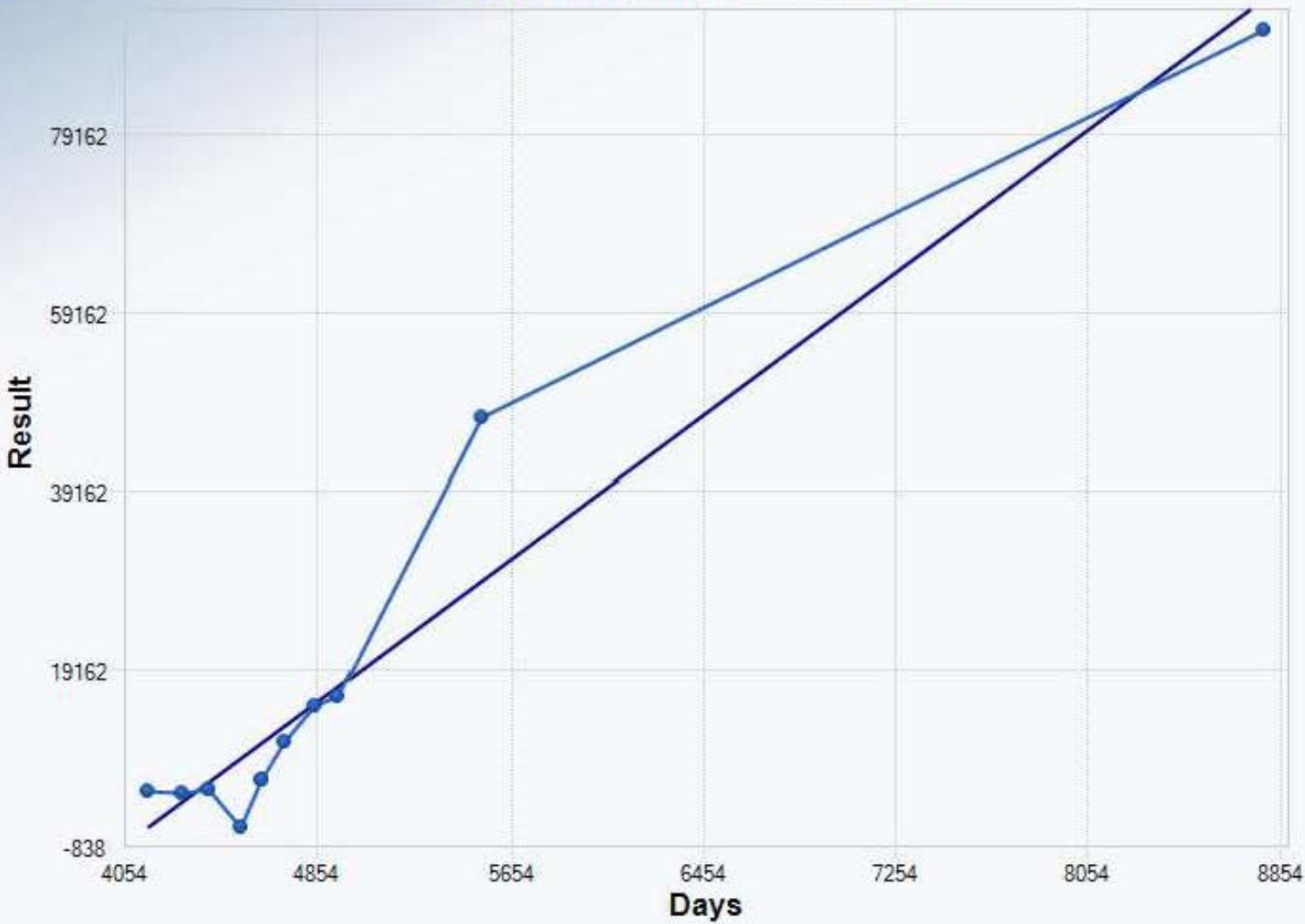
Mann-Kendall Trend Analysis	
n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.7671
Standardized Value of S	2.5064
M-K Test Value (S)	33
Tabulated p-value	0.0050
Approximate p-value	0.0061

OLS Regression Line (Blue)	
OLS Regression Slope	9.4763
OLS Regression Intercept	-53,166.8135

Statistically significant evidence of an increasing trend at the specified level of significance.

5D7-1R

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.8062
Standardized Value of S	3.5139
M-K Test Value (S)	46
Tabulated p-value	0.0000
Approximate p-value	0.0002

OLS Regression Line (Blue)	
OLS Regression Slope	20.0886
OLS Regression Intercept	-82,037.6134

Statistically significant evidence of an increasing trend at the specified level of significance.

5E1-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.7671
Standardized Value of S	2.0365
M-K Test Value (S)	27
Tabulated p-value	0.0200
Approximate p-value	0.0209

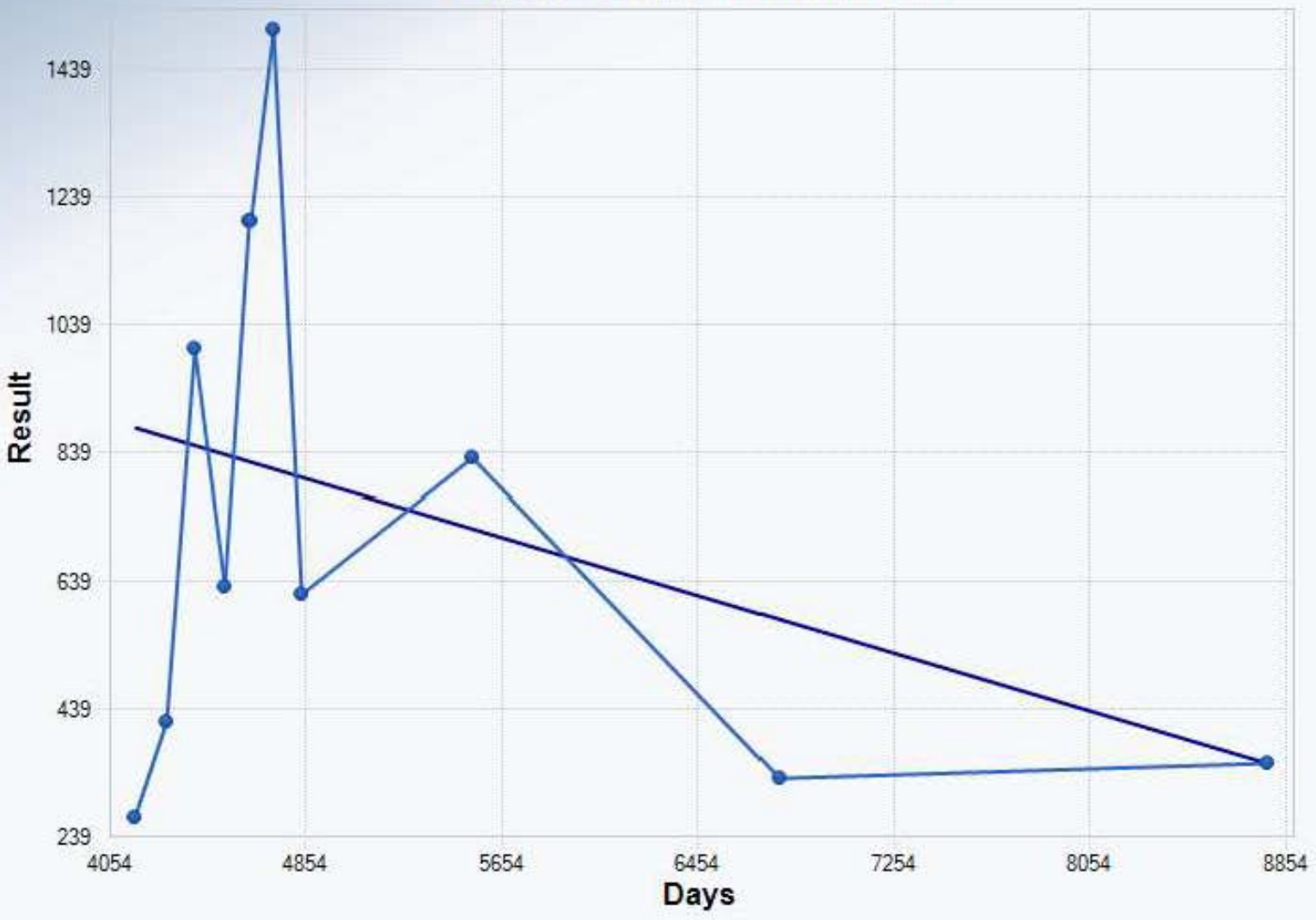
OLS Regression Line (Blue)

OLS Regression Slope	0.0836
OLS Regression Intercept	-56.7656

Statistically significant evidence of an increasing trend at the specified level of significance.

5E2-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.8062
Standardized Value of S	0.0781
M-K Test Value (S)	2
Tabulated p-value	0.4400
Approximate p-value	0.4689

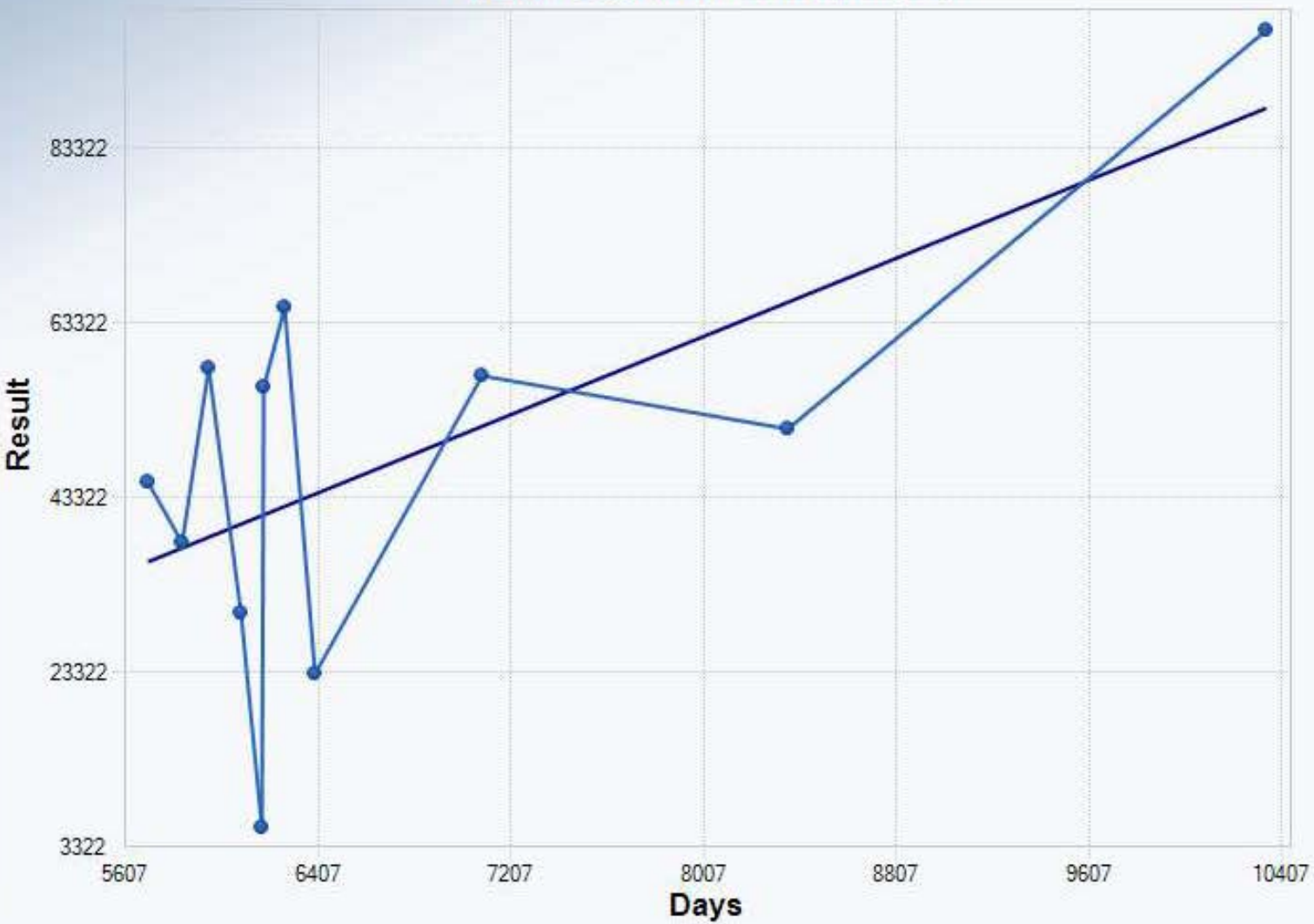
OLS Regression Line (Blue)

OLS Regression Slope	-0.1131
OLS Regression Intercept	1,348.1742

Insufficient statistical evidence of a significant trend at the specified level of significance.

5E4-1

Mann-Kendall Trend Test



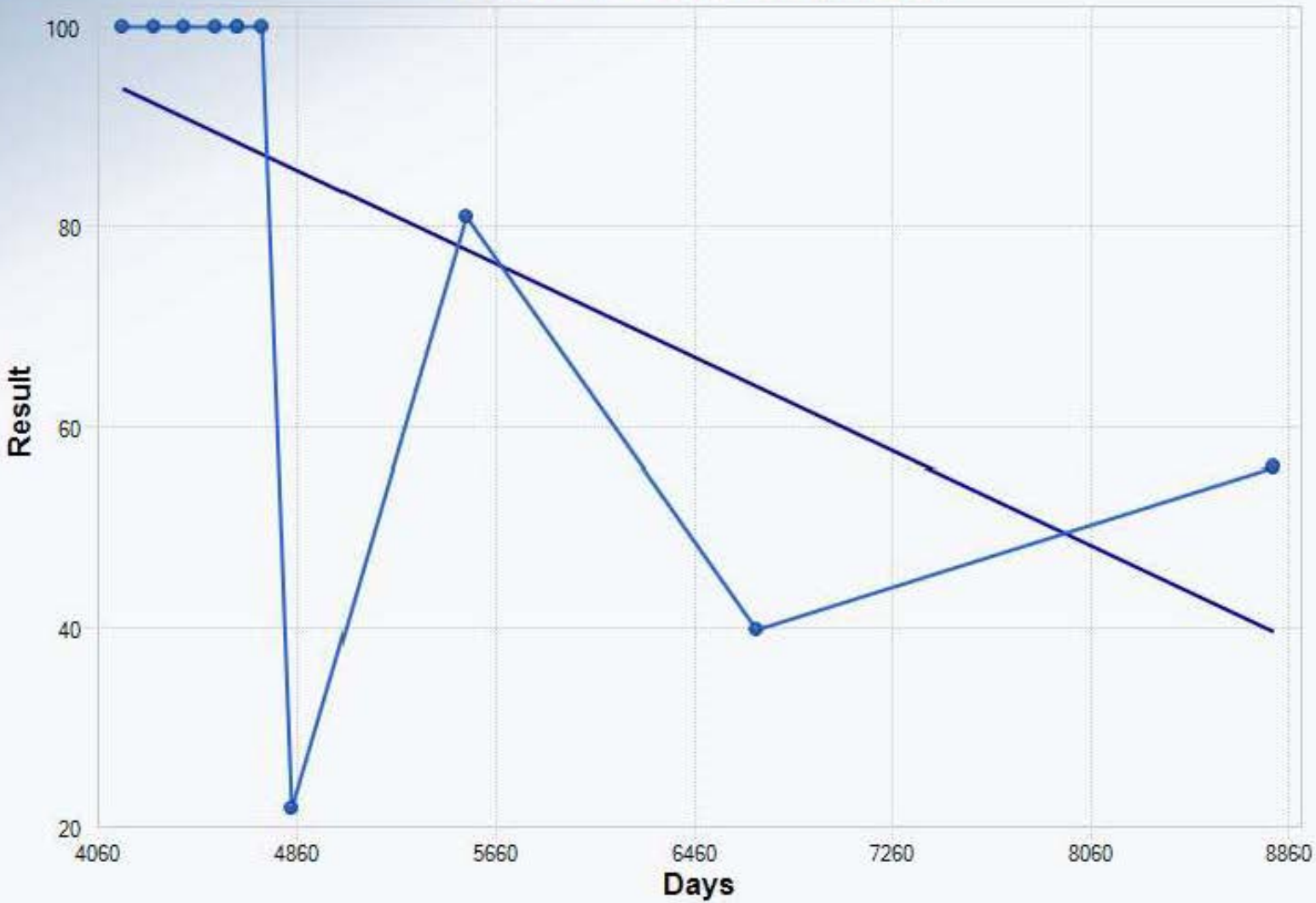
Mann-Kendall Trend Analysis	
n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.8452
Standardized Value of S	0.9342
M-K Test Value (S)	13
Tabulated p-value	0.1790
Approximate p-value	0.1751

OLS Regression Line (Blue)	
OLS Regression Slope	11.2364
OLS Regression Intercept	-28,173.7045

Insufficient statistical evidence of a significant trend at the specified level of significance.

5H1-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	10.9848
Standardized Value of S	-2.2759
M-K Test Value (S)	-26
Tabulated p-value	0.0200
Approximate p-value	0.0114

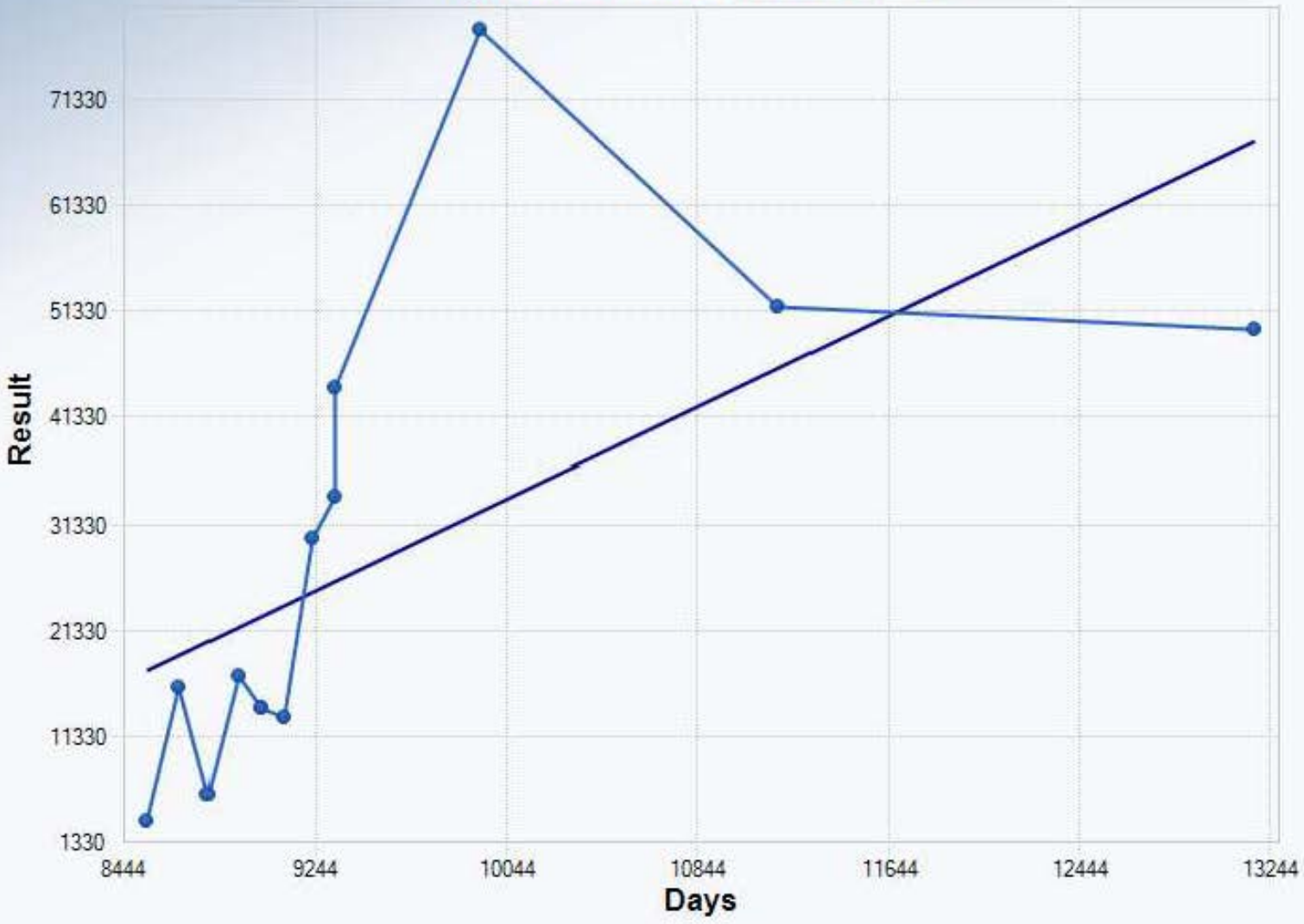
OLS Regression Line (Blue)

OLS Regression Slope	-0.0117
OLS Regression Intercept	142.5791

Statistically significant evidence of a decreasing trend at the specified level of significance.

6D14-1

Mann-Kendall Trend Test



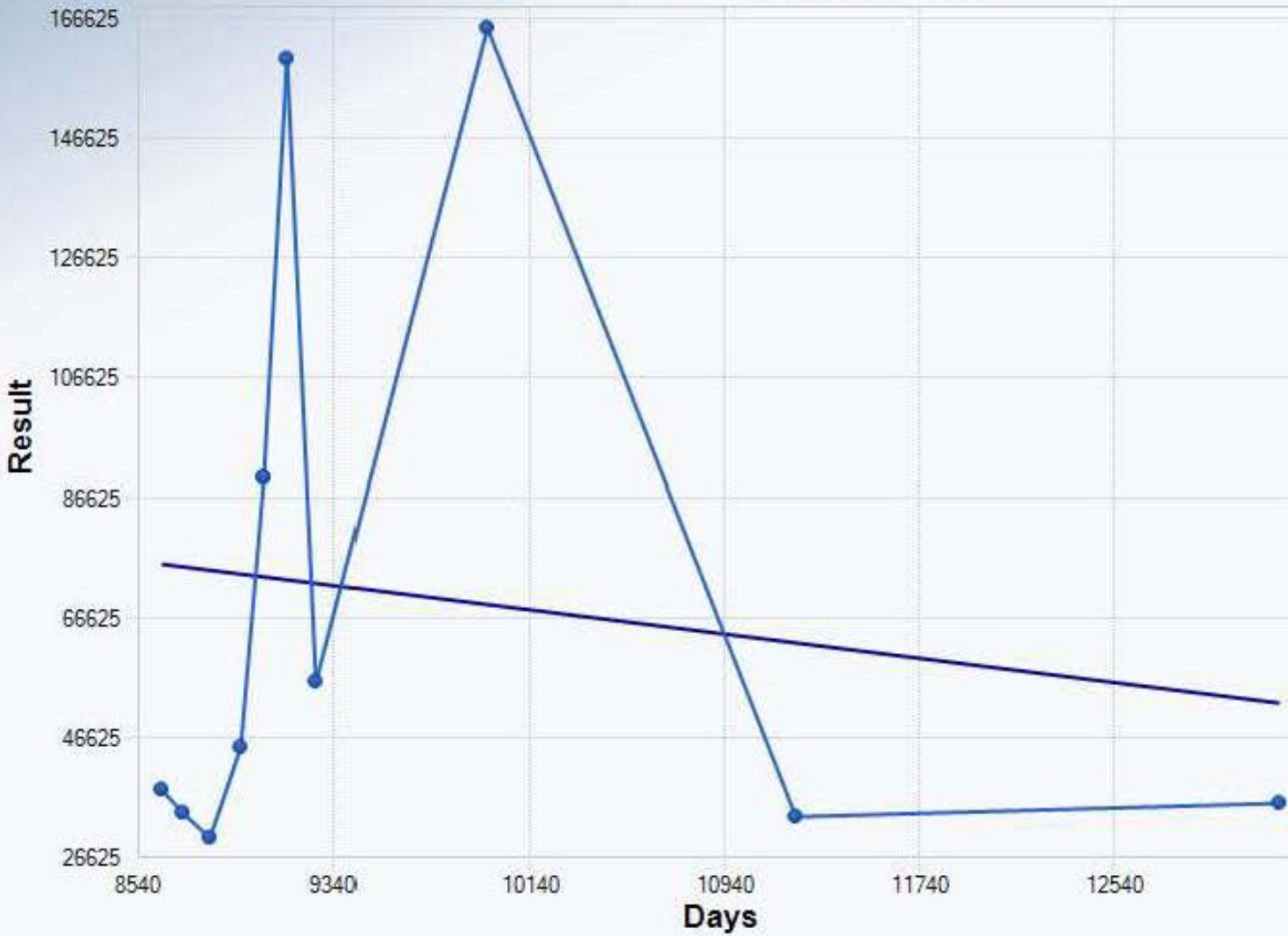
Mann-Kendall Trend Analysis	
n	13
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	16.3605
Standardized Value of S	3.1784
M-K Test Value (S)	53
Tabulated p-value	0.0000
Approximate p-value	0.0007

OLS Regression Line (Blue)	
OLS Regression Slope	10.7194
OLS Regression Intercept	-73,957.5322

Statistically significant evidence of an increasing trend at the specified level of significance.

6E1-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.8062
Standardized Value of S	0.8590
M-K Test Value (S)	12
Tabulated p-value	0.1790
Approximate p-value	0.1952

OLS Regression Line (Blue)

OLS Regression Slope	-5.0399
OLS Regression Intercept	119,247.9841

Insufficient statistical evidence of a significant trend at the specified level of significance.

6E2-1

Mann-Kendall Trend Test



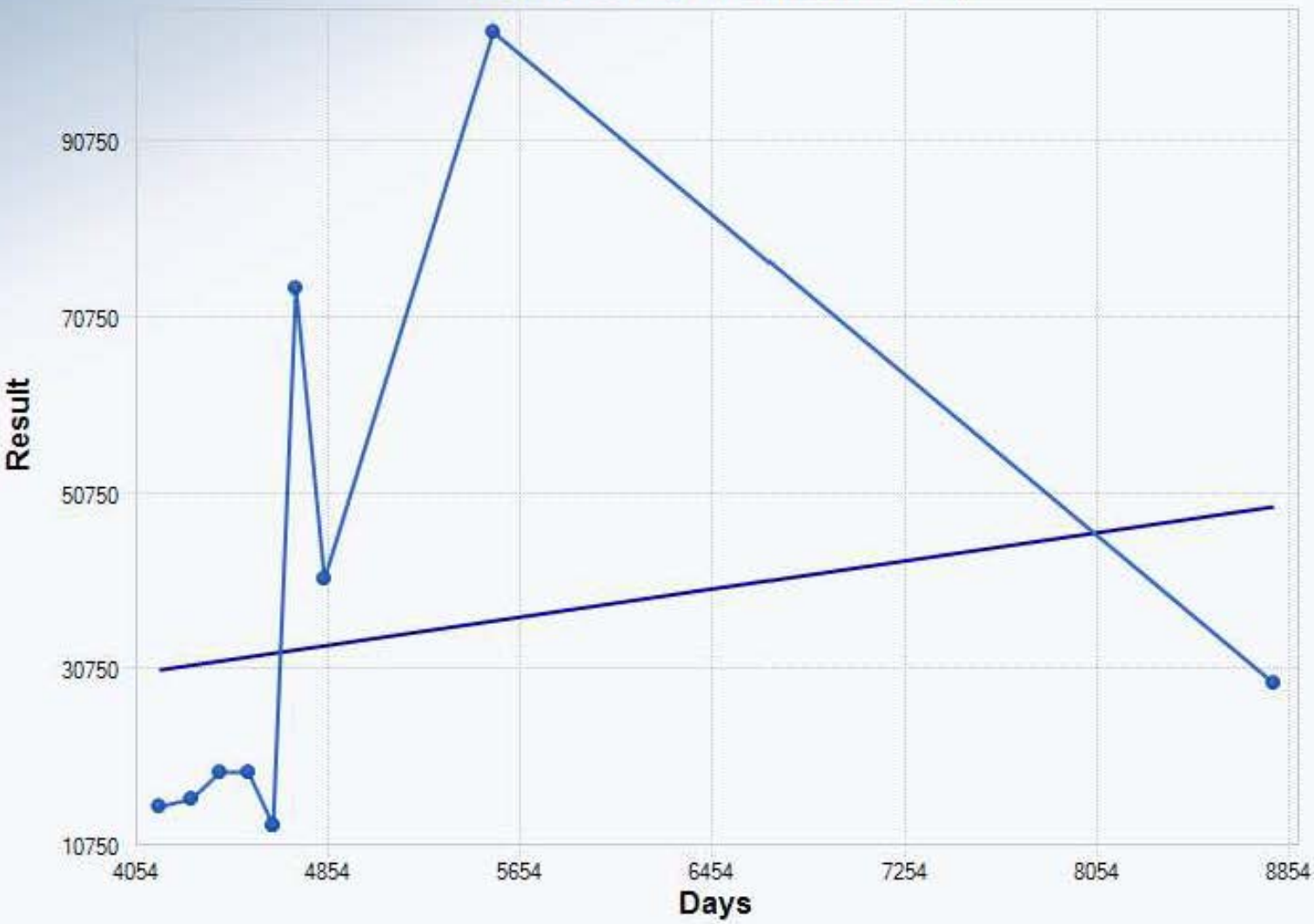
Mann-Kendall Trend Analysis	
n	13
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	16.3605
Standardized Value of S	-3.6674
M-K Test Value (S)	-61
Tabulated p-value	0.0000
Approximate p-value	0.0001

OLS Regression Line (Blue)	
OLS Regression Slope	-5.4157
OLS Regression Intercept	73,095.1903

Statistically significant evidence of a decreasing trend at the specified level of significance.

6E5-1

Mann-Kendall Trend Test



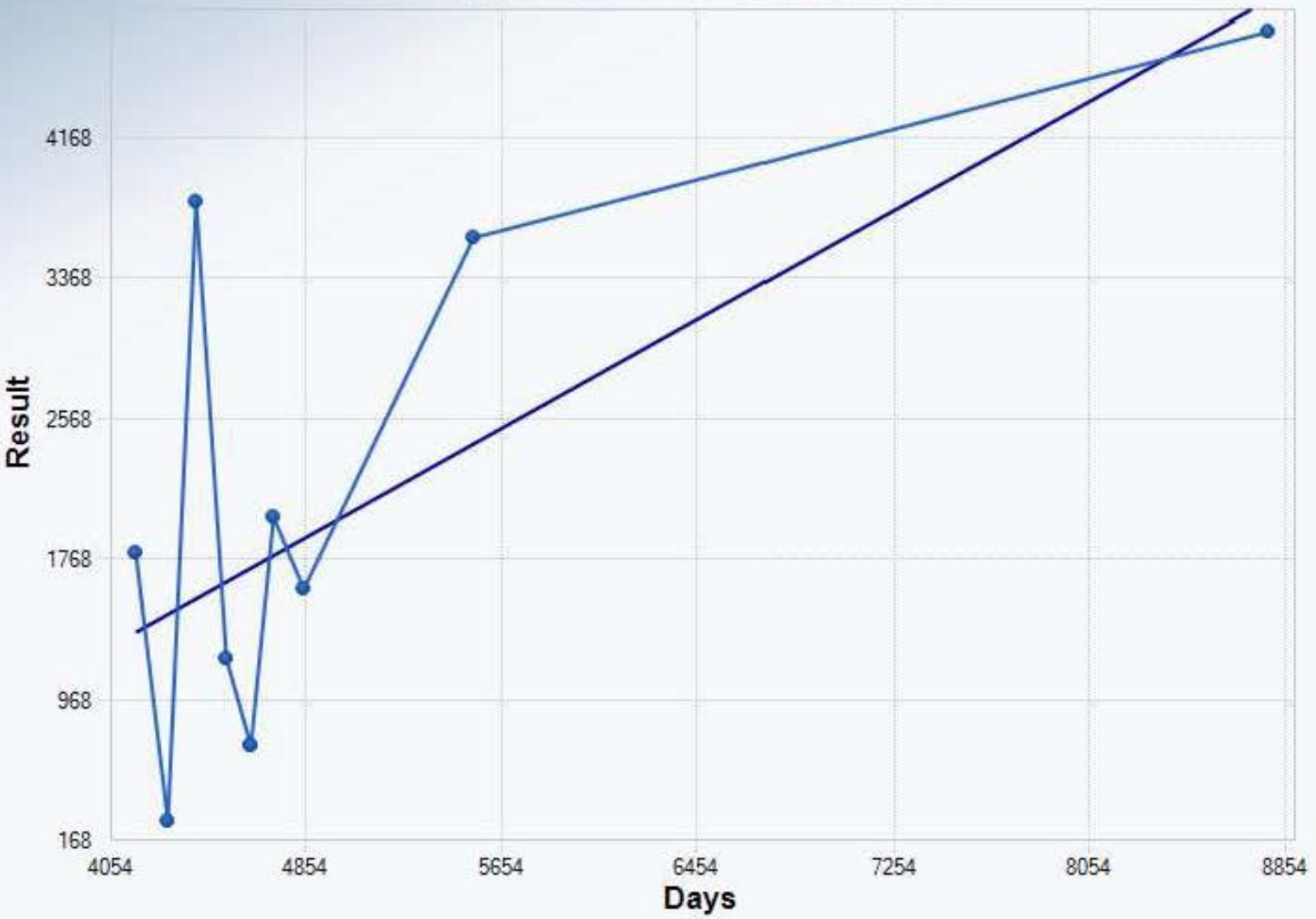
Mann-Kendall Trend Analysis	
n	10
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	11.0905
Standardized Value of S	1.6230
M-K Test Value (S)	19
Tabulated p-value	0.0540
Approximate p-value	0.0523

OLS Regression Line (Blue)	
OLS Regression Slope	3.9956
OLS Regression Intercept	14,035.1845

Insufficient statistical evidence of a significant trend at the specified level of significance.

6E6-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	10
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	11.1355
Standardized Value of S	1.3470
M-K Test Value (S)	16
Tabulated p-value	0.0780
Approximate p-value	0.0890

OLS Regression Line (Blue)	
OLS Regression Slope	0.7748
OLS Regression Intercept	-1,869.6382

Insufficient statistical evidence of a significant trend at the specified level of significance.

6F2-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	14
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	18.2117
Standardized Value of S	0.1098
M-K Test Value (S)	3
Tabulated p-value	0.4570
Approximate p-value	0.4563

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0403
OLS Regression Intercept	540.5839

Insufficient statistical evidence of a significant trend at the specified level of significance.

6G1-1

Mann-Kendall Trend Test



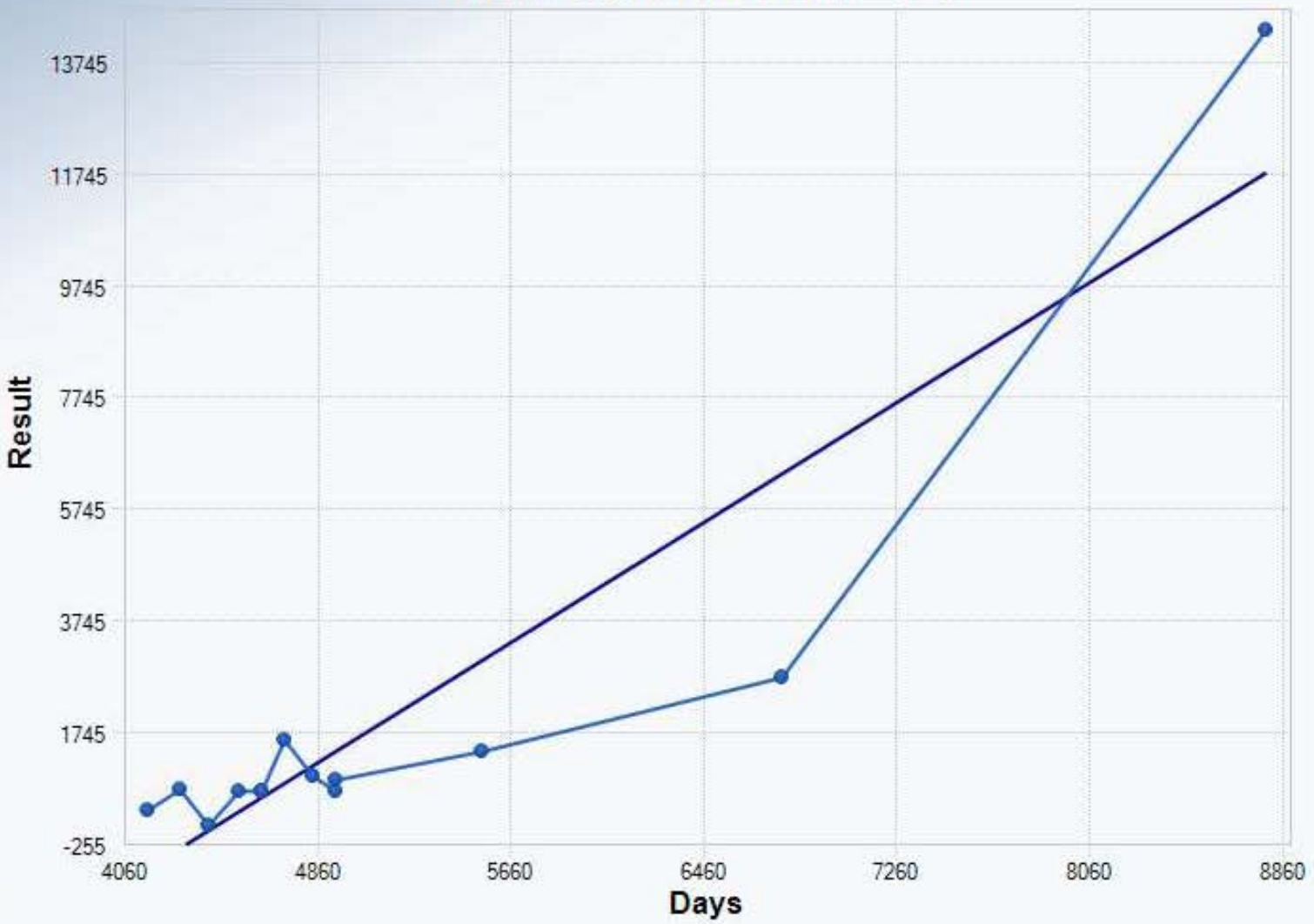
Mann-Kendall Trend Analysis	
n	10
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	9.8319
Standardized Value of S	1.9325
M-K Test Value (S)	20
Tabulated p-value	0.0360
Approximate p-value	0.0267

OLS Regression Line (Blue)	
OLS Regression Slope	0.0541
OLS Regression Intercept	-226.3883

Statistically significant evidence of an increasing trend at the specified level of significance.

7E3-1

Mann-Kendall Trend Test



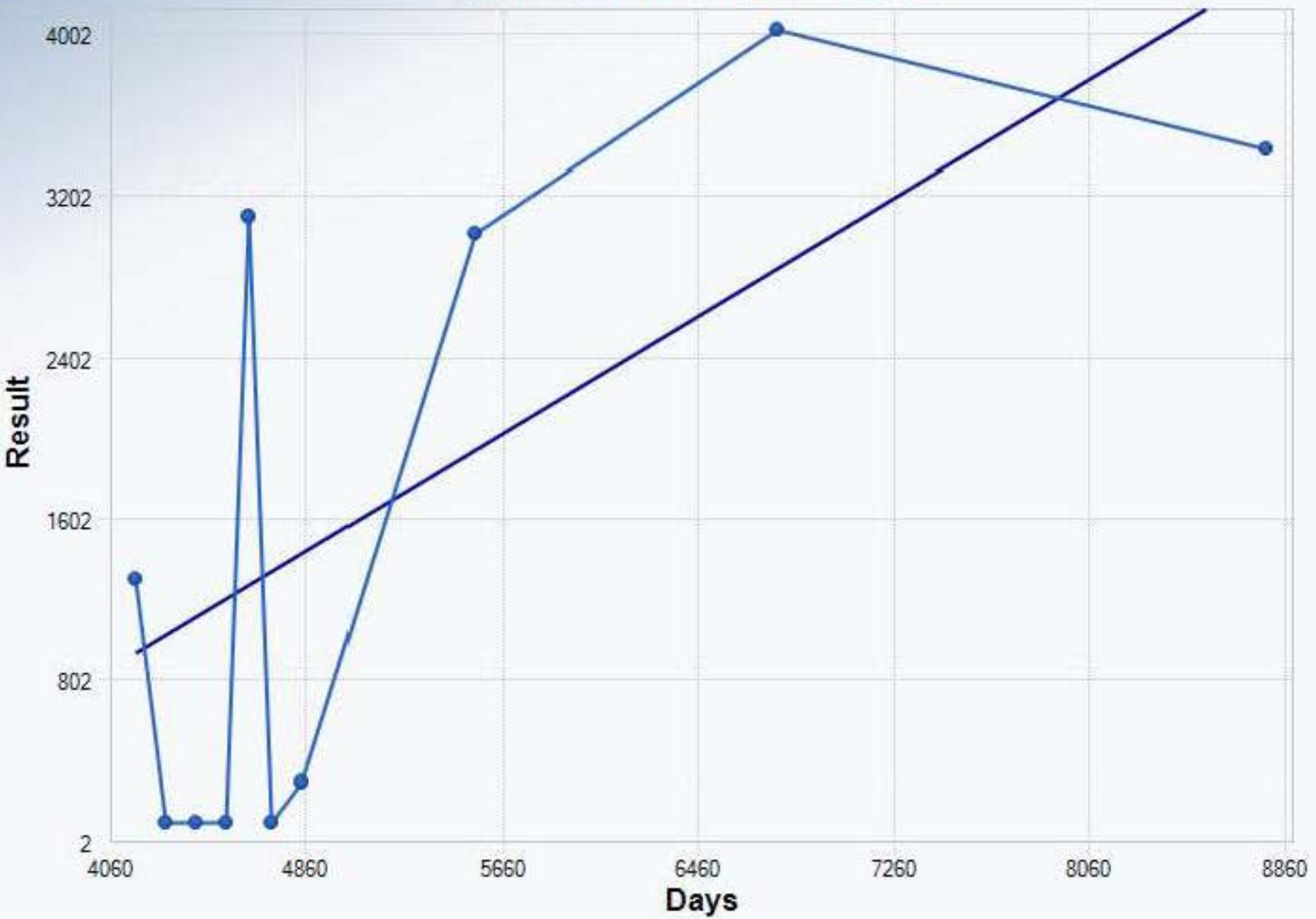
Mann-Kendall Trend Analysis	
n	13
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	16.3299
Standardized Value of S	2.8782
M-K Test Value (S)	48
Tabulated p-value	0.0010
Approximate p-value	0.0020

OLS Regression Line (Blue)	
OLS Regression Slope	2.7008
OLS Regression Intercept	-11,966.2819

Statistically significant evidence of an increasing trend at the specified level of significance.

7E8-1

Mann-Kendall Trend Test



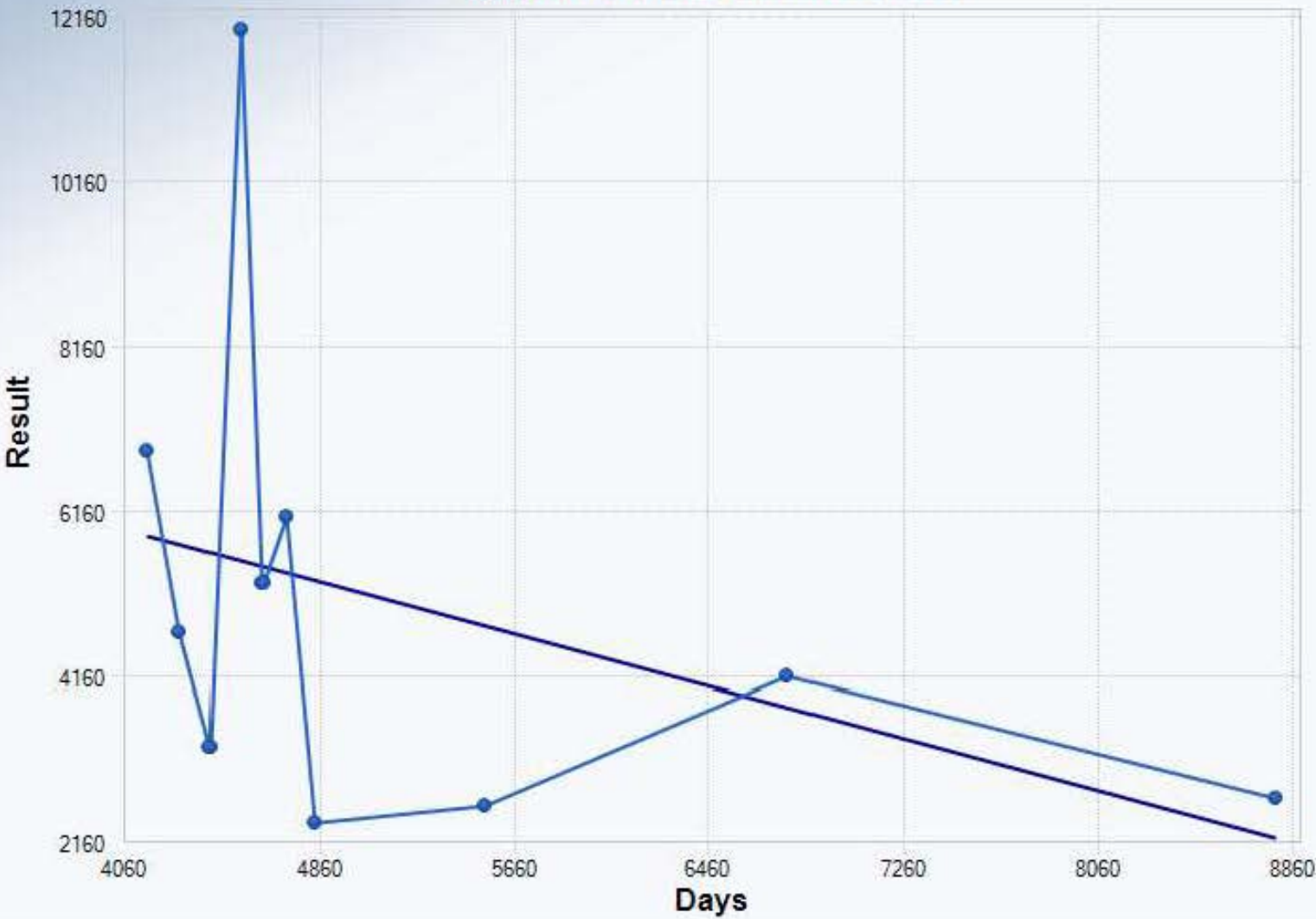
Mann-Kendall Trend Analysis	
n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.4633
Standardized Value of S	1.8454
M-K Test Value (S)	24
Tabulated p-value	0.0300
Approximate p-value	0.0325

OLS Regression Line (Blue)	
OLS Regression Slope	0.7282
OLS Regression Intercept	-2,097.3404

Statistically significant evidence of an increasing trend at the specified level of significance.

7E10-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.8062
Standardized Value of S	-1.4837
M-K Test Value (S)	-20
Tabulated p-value	0.0600
Approximate p-value	0.0690

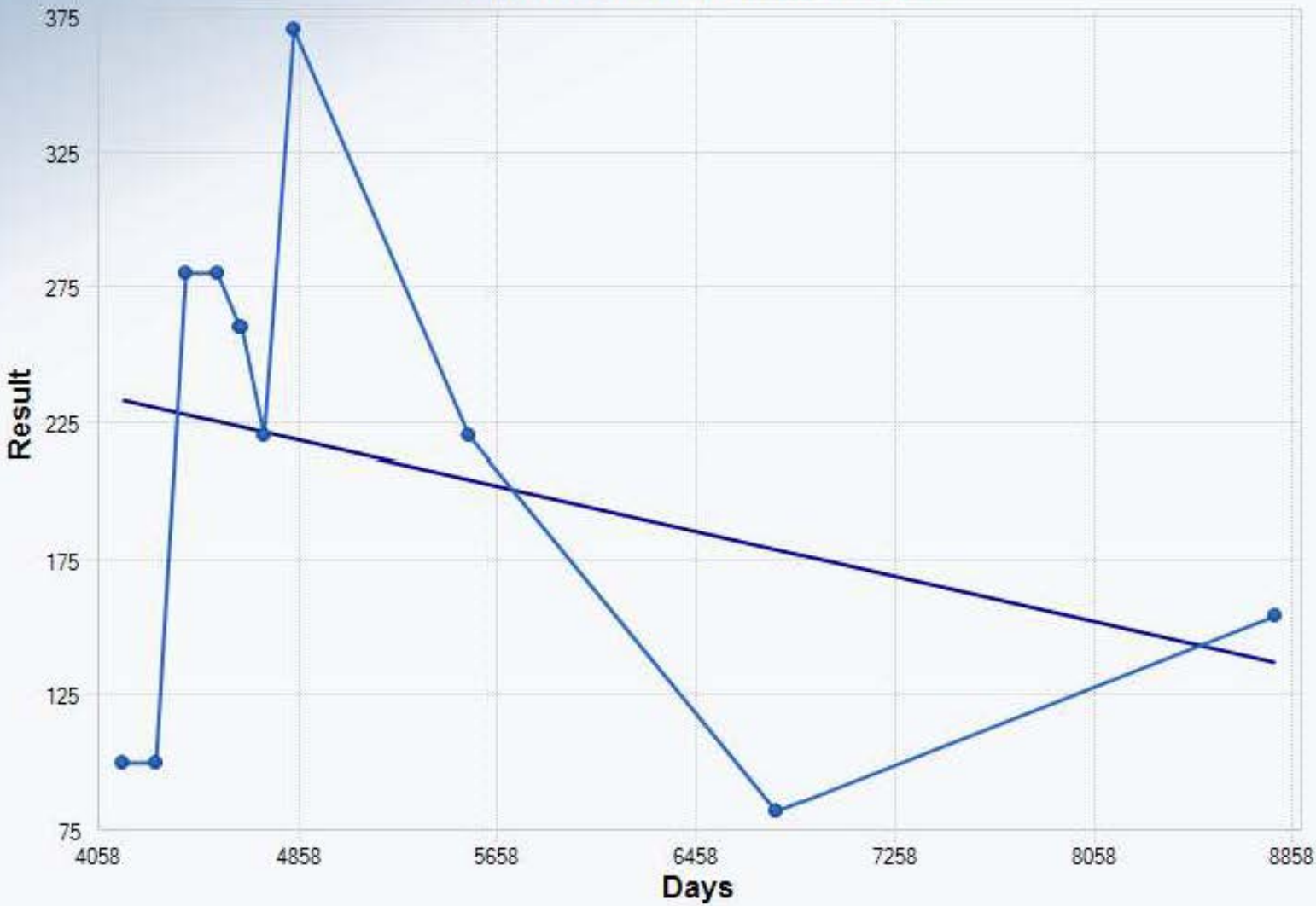
OLS Regression Line (Blue)

OLS Regression Slope	-0.7915
OLS Regression Intercept	9,163.2391

Insufficient statistical evidence of a significant trend at the specified level of significance.

7F2-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.6886
Standardized Value of S	-0.4729
M-K Test Value (S)	-7
Tabulated p-value	0.3240
Approximate p-value	0.3182

OLS Regression Line (Blue)

OLS Regression Slope	-0.0208
OLS Regression Intercept	320.0820

Insufficient statistical evidence of a significant trend at the specified level of significance.

711-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	4
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	2.9439
Standardized Value of S	-1.6984
M-K Test Value (S)	-6
Tabulated p-value	0.0420
Approximate p-value	0.0447

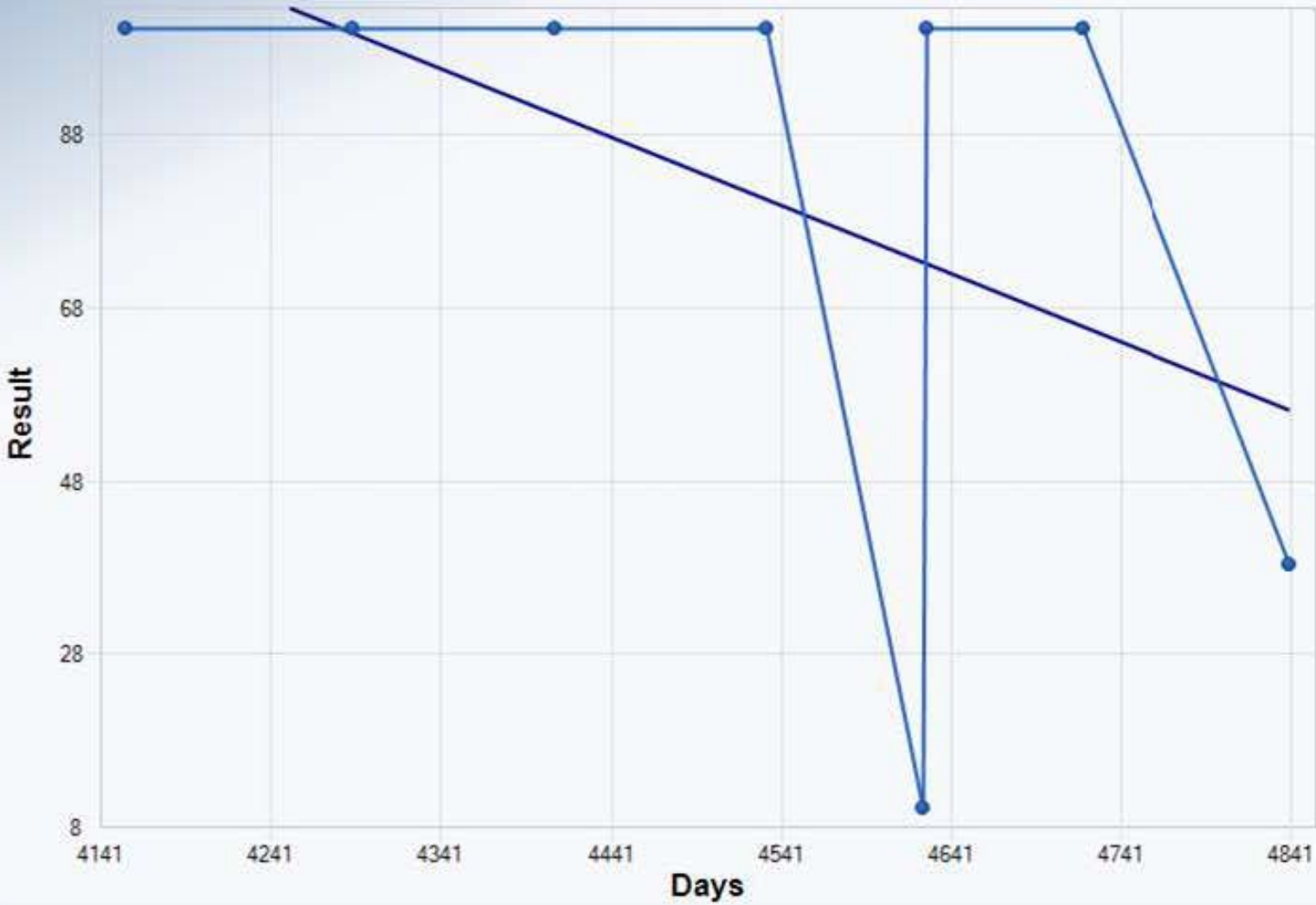
OLS Regression Line (Blue)

OLS Regression Slope	-0.0010
OLS Regression Intercept	9.6864

Statistically significant evidence of a decreasing trend at the specified level of significance.

8G1-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	8
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	6.0828
Standardized Value of S	-0.9864
M-K Test Value (S)	-7
Tabulated p-value	0.2740
Approximate p-value	0.1620

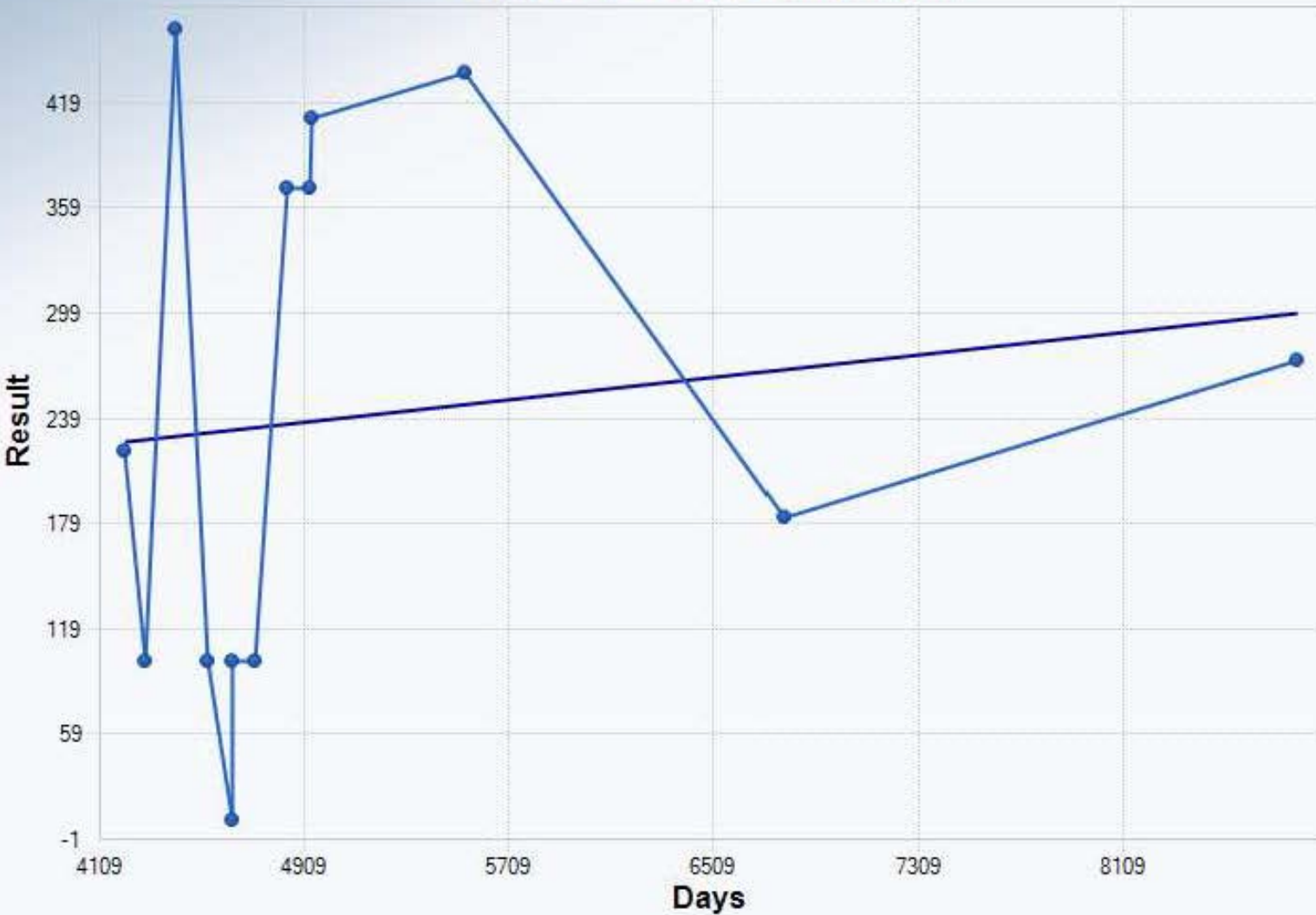
OLS Regression Line (Blue)

OLS Regression Slope	-0.0788
OLS Regression Intercept	437.5293

Insufficient statistical evidence of a significant trend at the specified level of significance.

8G2-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	13
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	16.0935
Standardized Value of S	1.1185
M-K Test Value (S)	19
Tabulated p-value	0.1530
Approximate p-value	0.1317

OLS Regression Line (Blue)

OLS Regression Slope	0.0159
OLS Regression Intercept	158.6939

Insufficient statistical evidence of a significant trend at the specified level of significance.

122+60-0

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	3.9581
Standardized Value of S	-2.0212
M-K Test Value (S)	-9
Tabulated p-value	0.0420
Approximate p-value	0.0216

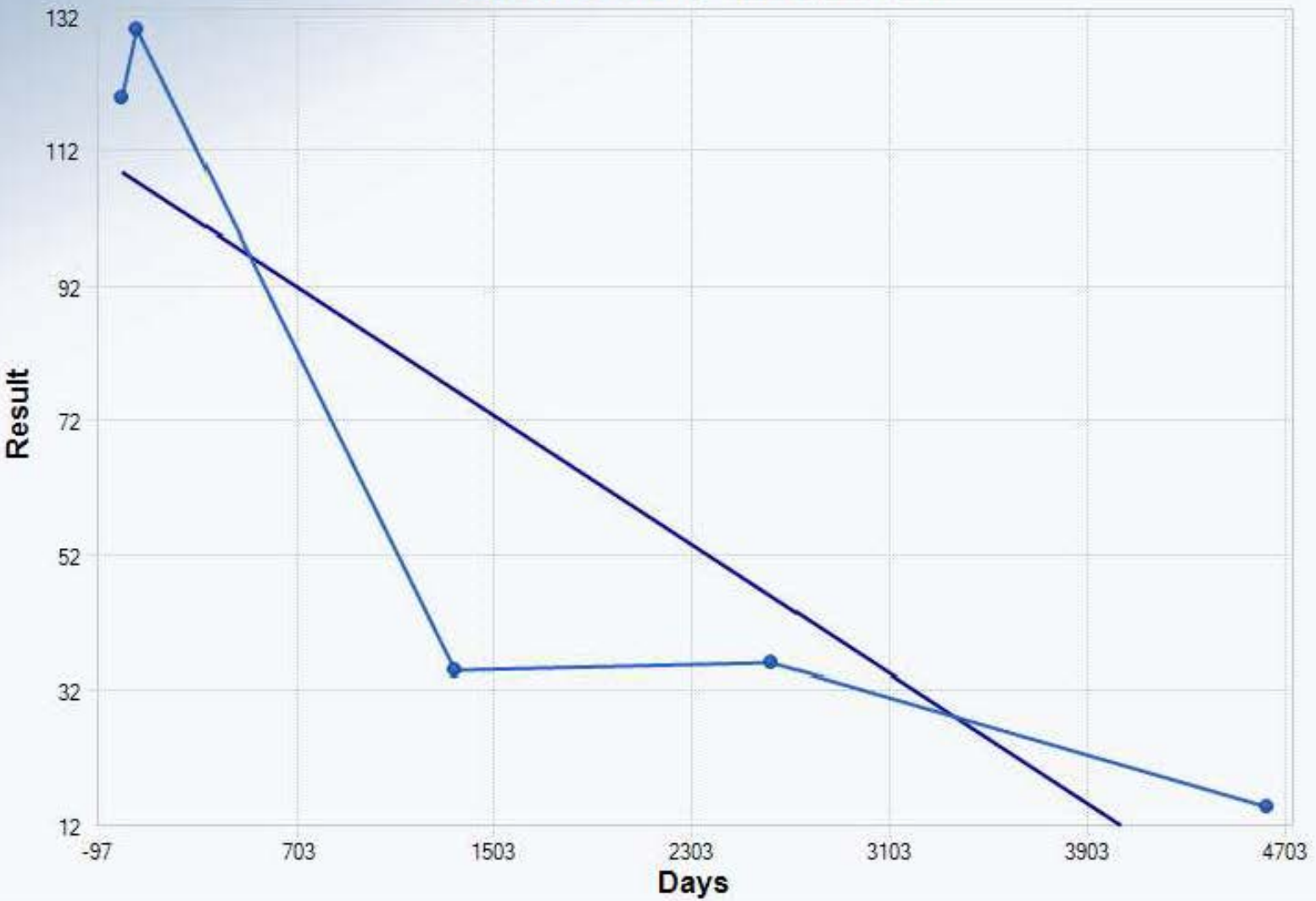
OLS Regression Line (Blue)

OLS Regression Slope	-0.0252
OLS Regression Intercept	107.8079

Statistically significant evidence of a decreasing trend at the specified level of significance.

122+60-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	4.0825
Standardized Value of S	-1.2247
M-K Test Value (S)	-6
Tabulated p-value	0.1170
Approximate p-value	0.1103

OLS Regression Line (Blue)

OLS Regression Slope	-0.0240
OLS Regression Intercept	108.7594

Insufficient statistical evidence of a significant trend at the specified level of significance.

124+00-0

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	7
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	6.5828
Standardized Value of S	-1.3672
M-K Test Value (S)	-10
Tabulated p-value	0.0680
Approximate p-value	0.0858

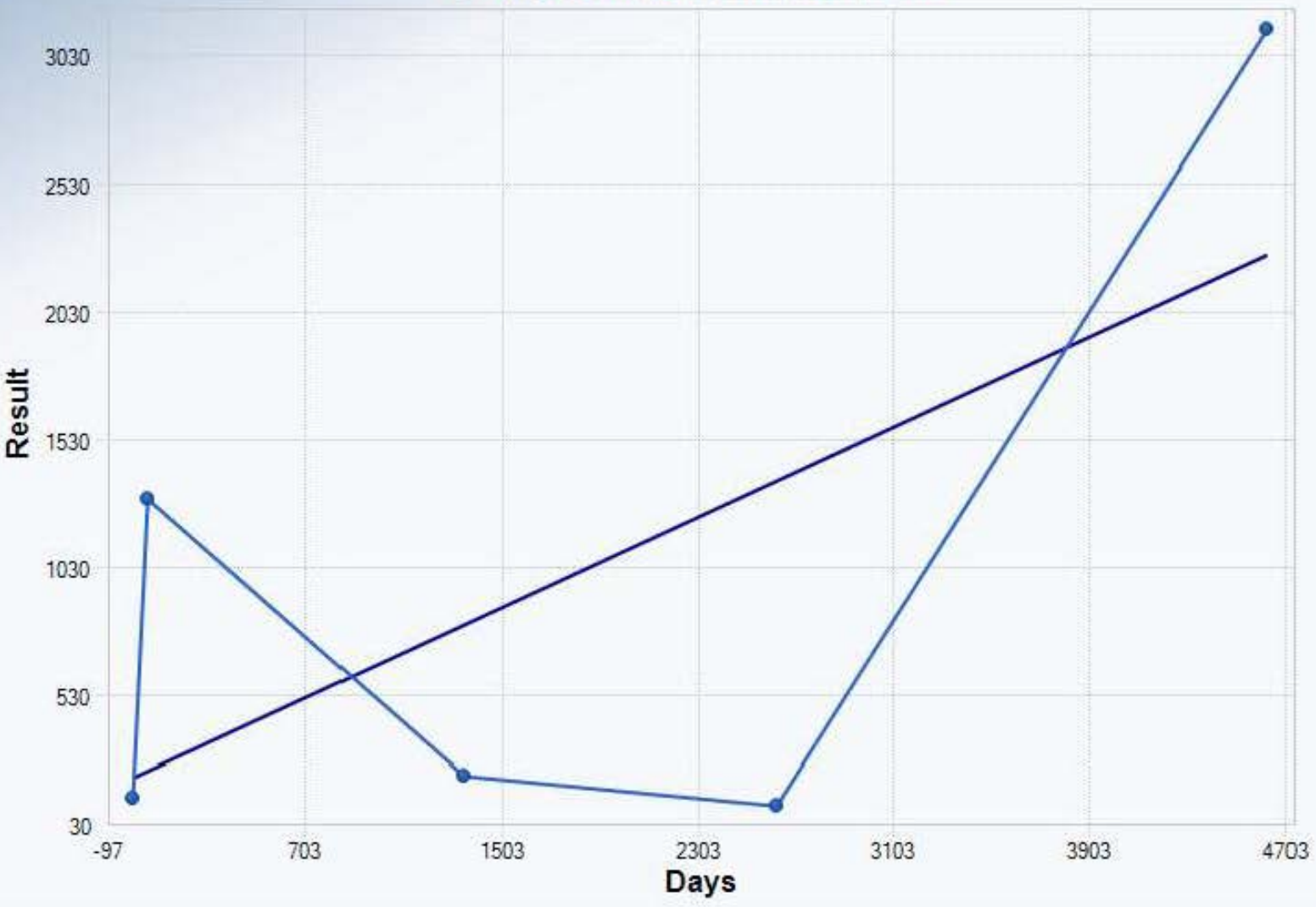
OLS Regression Line (Blue)

OLS Regression Slope	-0.0020
OLS Regression Intercept	14.6488

Insufficient statistical evidence of a significant trend at the specified level of significance.

124+00-1

Mann-Kendall Trend Test



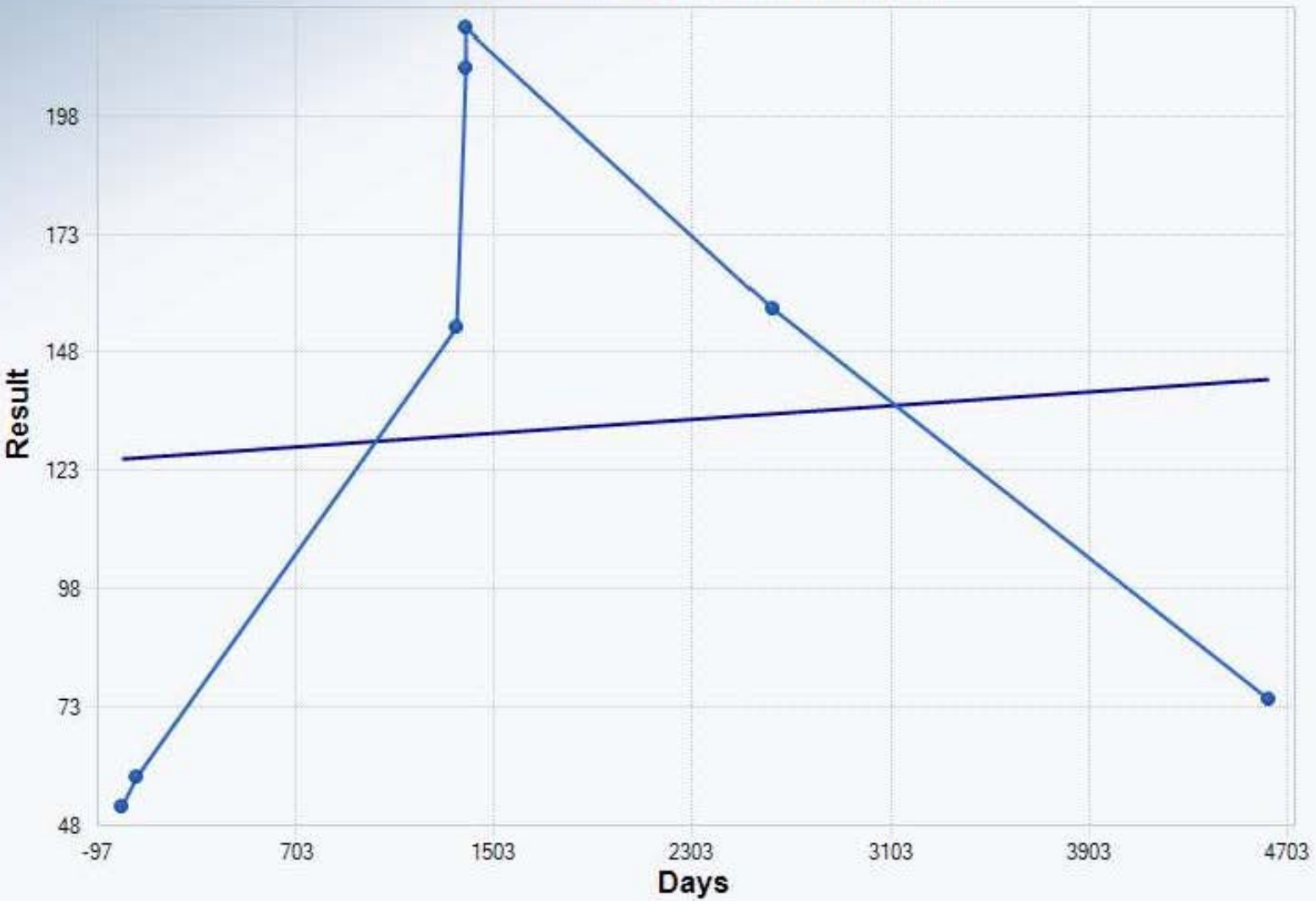
Mann-Kendall Trend Analysis	
n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	4.0825
Standardized Value of S	0.2449
M-K Test Value (S)	2
Tabulated p-value	0.4080
Approximate p-value	0.4032

OLS Regression Line (Blue)	
OLS Regression Slope	0.4414
OLS Regression Intercept	212.2601

Insufficient statistical evidence of a significant trend at the specified level of significance.

125+50-0

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	7
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	6.6583
Standardized Value of S	1.2015
M-K Test Value (S)	9
Tabulated p-value	0.1190
Approximate p-value	0.1148

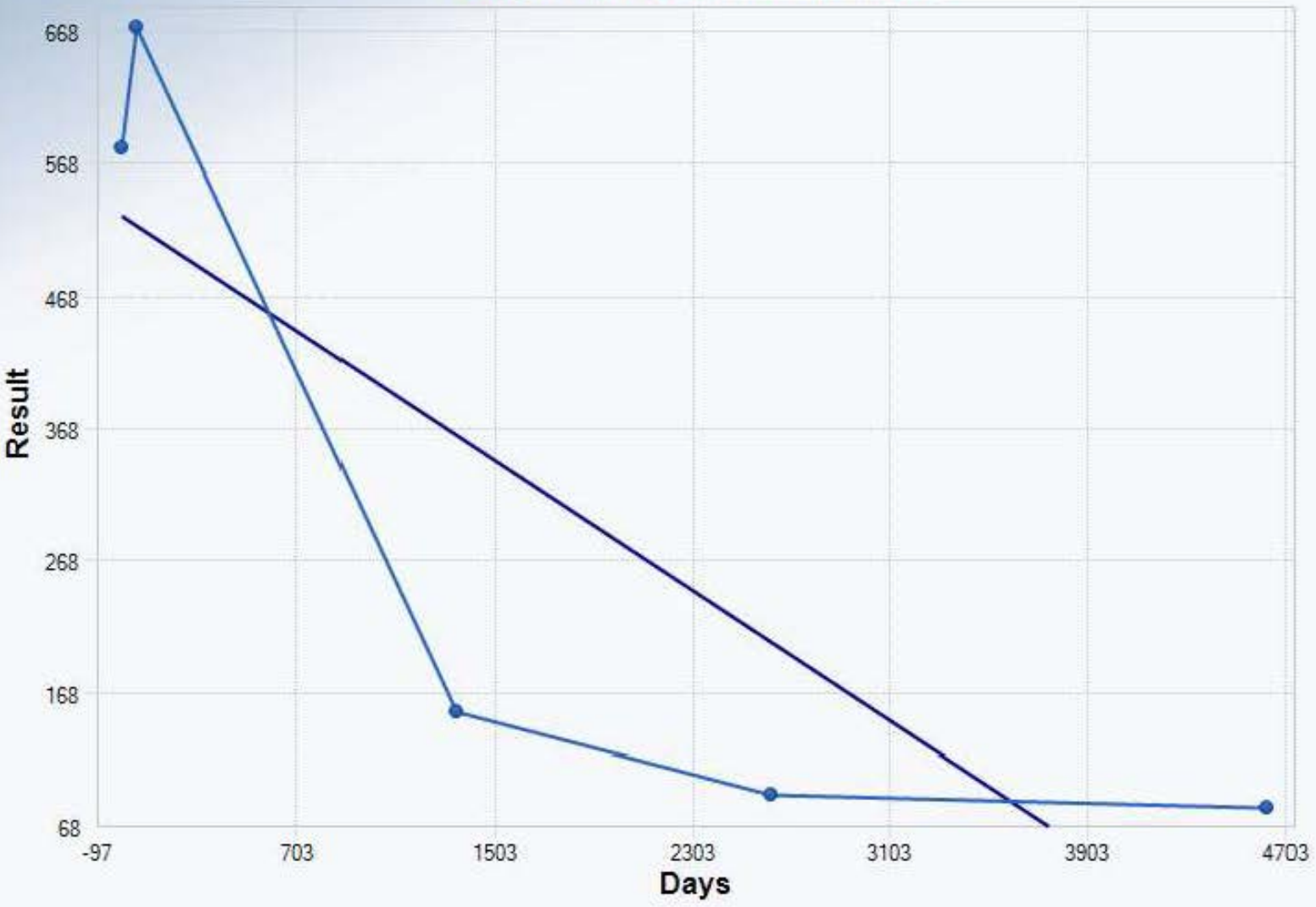
OLS Regression Line (Blue)

OLS Regression Slope	0.0036
OLS Regression Intercept	125.3490

Insufficient statistical evidence of a significant trend at the specified level of significance.

125+50-1

Mann-Kendall Trend Test



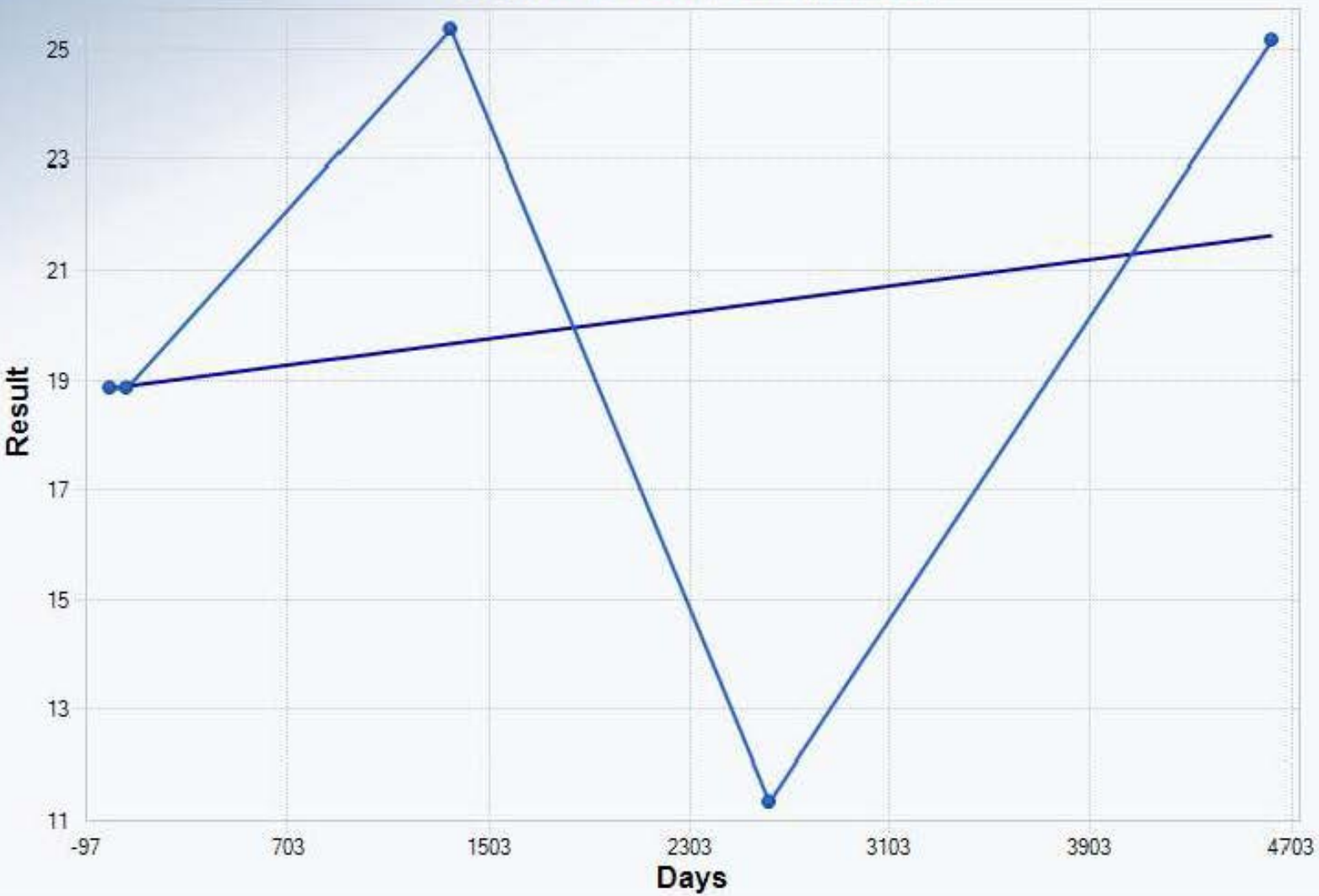
Mann-Kendall Trend Analysis	
n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	4.0825
Standardized Value of S	-1.7146
M-K Test Value (S)	-8
Tabulated p-value	0.0420
Approximate p-value	0.0432

OLS Regression Line (Blue)	
OLS Regression Slope	-0.1232
OLS Regression Intercept	528.8383

Statistically significant evidence of a decreasing trend at the specified level of significance.

126+90-0

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	3.9581
Standardized Value of S	0.0000
M-K Test Value (S)	1
Tabulated p-value	0.5920
Approximate p-value	0.5000

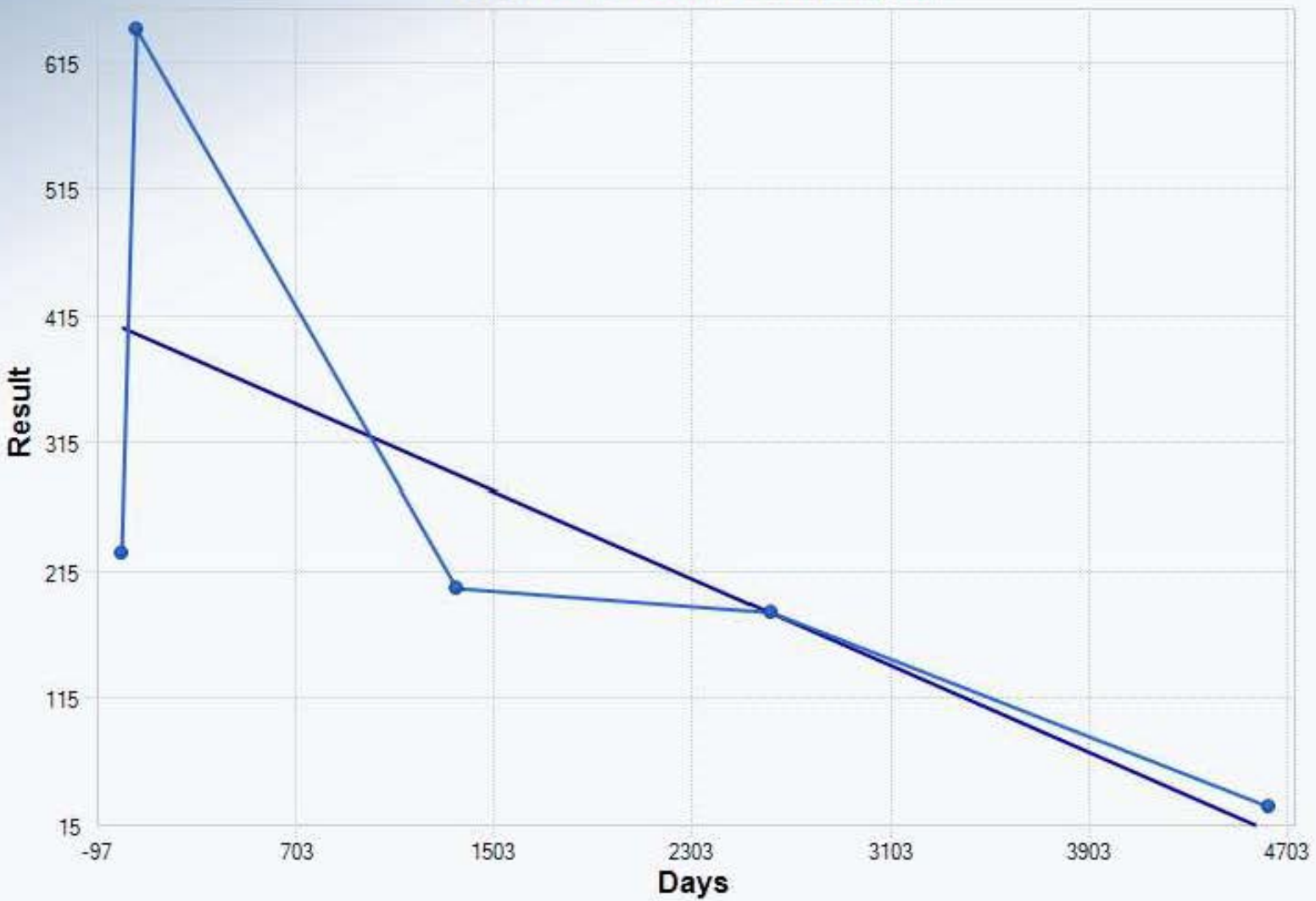
OLS Regression Line (Blue)

OLS Regression Slope	0.0006
OLS Regression Intercept	18.5163

Insufficient statistical evidence of a significant trend at the specified level of significance.

126+90-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	4.0825
Standardized Value of S	-1.7146
M-K Test Value (S)	-8
Tabulated p-value	0.0420
Approximate p-value	0.0432

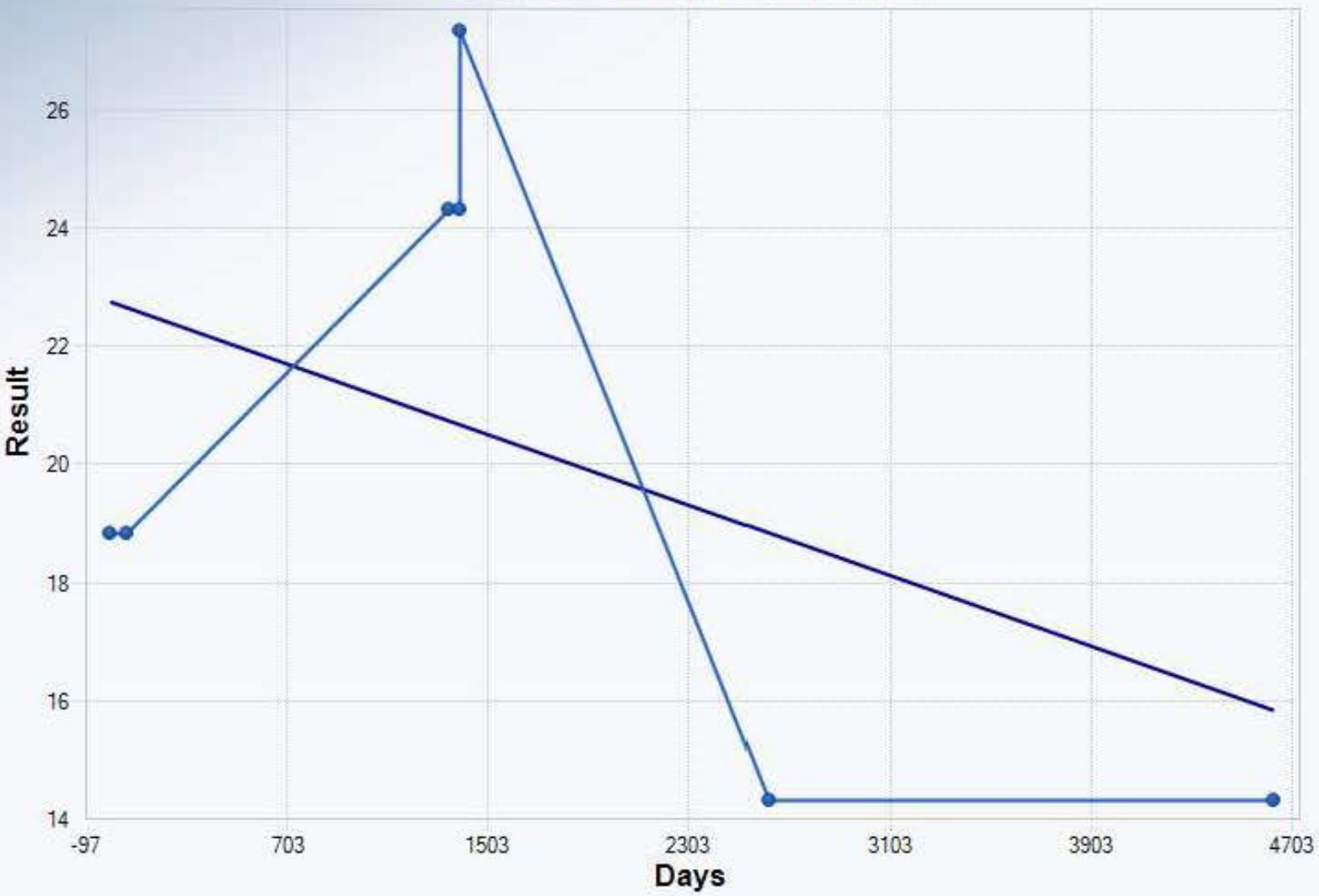
OLS Regression Line (Blue)

OLS Regression Slope	-0.0857
OLS Regression Intercept	405.3926

Statistically significant evidence of a decreasing trend at the specified level of significance.

128+30-0

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	7
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	6.4291
Standardized Value of S	-0.1555
M-K Test Value (S)	-2
Tabulated p-value	0.3860
Approximate p-value	0.4382

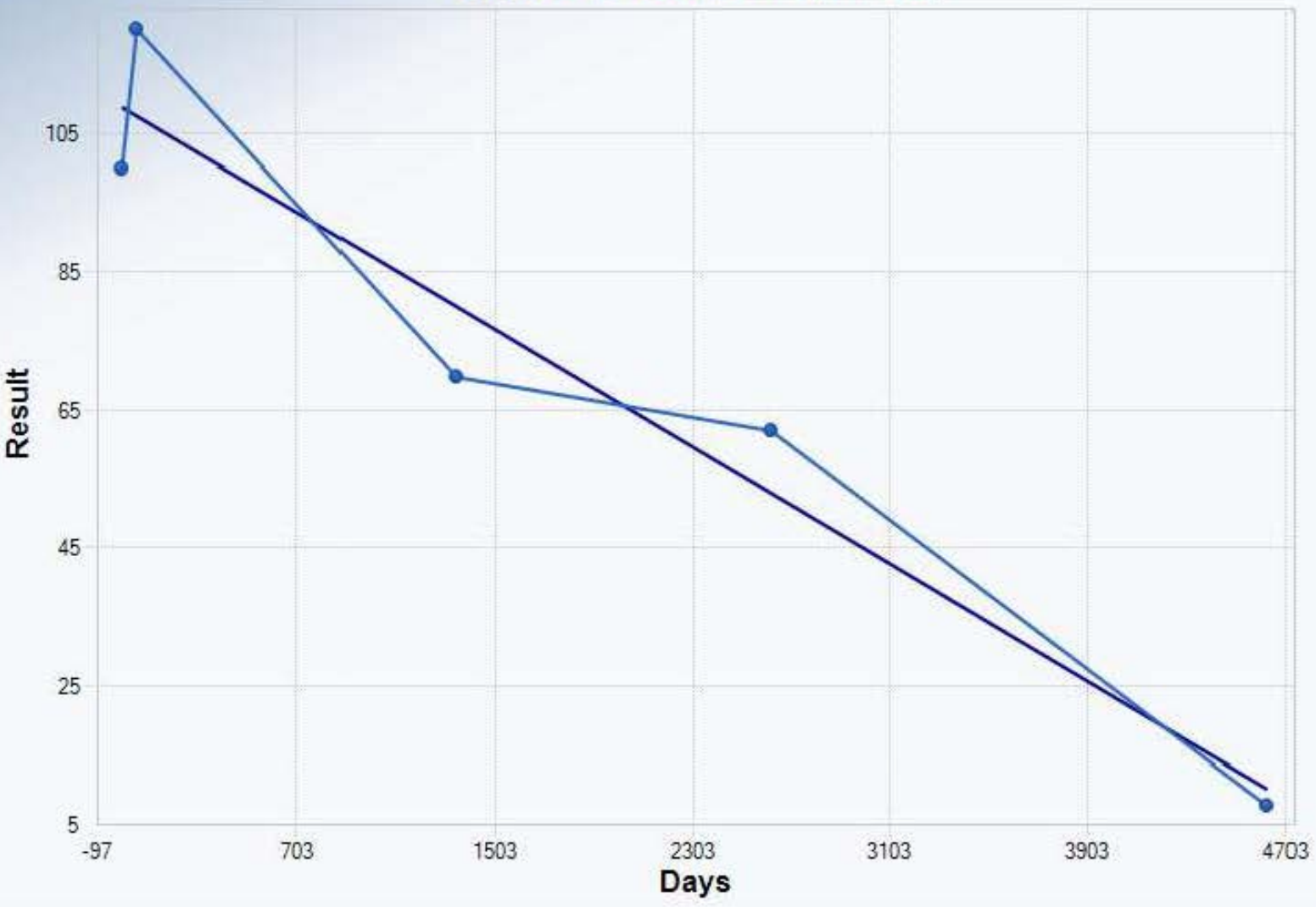
OLS Regression Line (Blue)

OLS Regression Slope	-0.0015
OLS Regression Intercept	22.4475

Insufficient statistical evidence of a significant trend at the specified level of significance.

128+30-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	4.0825
Standardized Value of S	-1.7146
M-K Test Value (S)	-8
Tabulated p-value	0.0420
Approximate p-value	0.0432

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0213
OLS Regression Intercept	108.9330

Statistically significant evidence of a decreasing trend at the specified level of significance.

129+65-0

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	3.9581
Standardized Value of S	-2.0212
M-K Test Value (S)	-9
Tabulated p-value	0.0420
Approximate p-value	0.0216

OLS Regression Line (Blue)

OLS Regression Slope	-0.0039
OLS Regression Intercept	17.0346

Statistically significant evidence of a decreasing trend at the specified level of significance.

129+65-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	4.0825
Standardized Value of S	
M-K Test Value (S)	0
Tabulated p-value	0.5920
Approximate p-value	

OLS Regression Line (Blue)

OLS Regression Slope	-0.0021
OLS Regression Intercept	23.4624

Insufficient statistical evidence of a significant trend at the specified level of significance.

131+00-1

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	3.9581
Standardized Value of S	-2.0212
M-K Test Value (S)	-9
Tabulated p-value	0.0420
Approximate p-value	0.0216

OLS Regression Line (Blue)

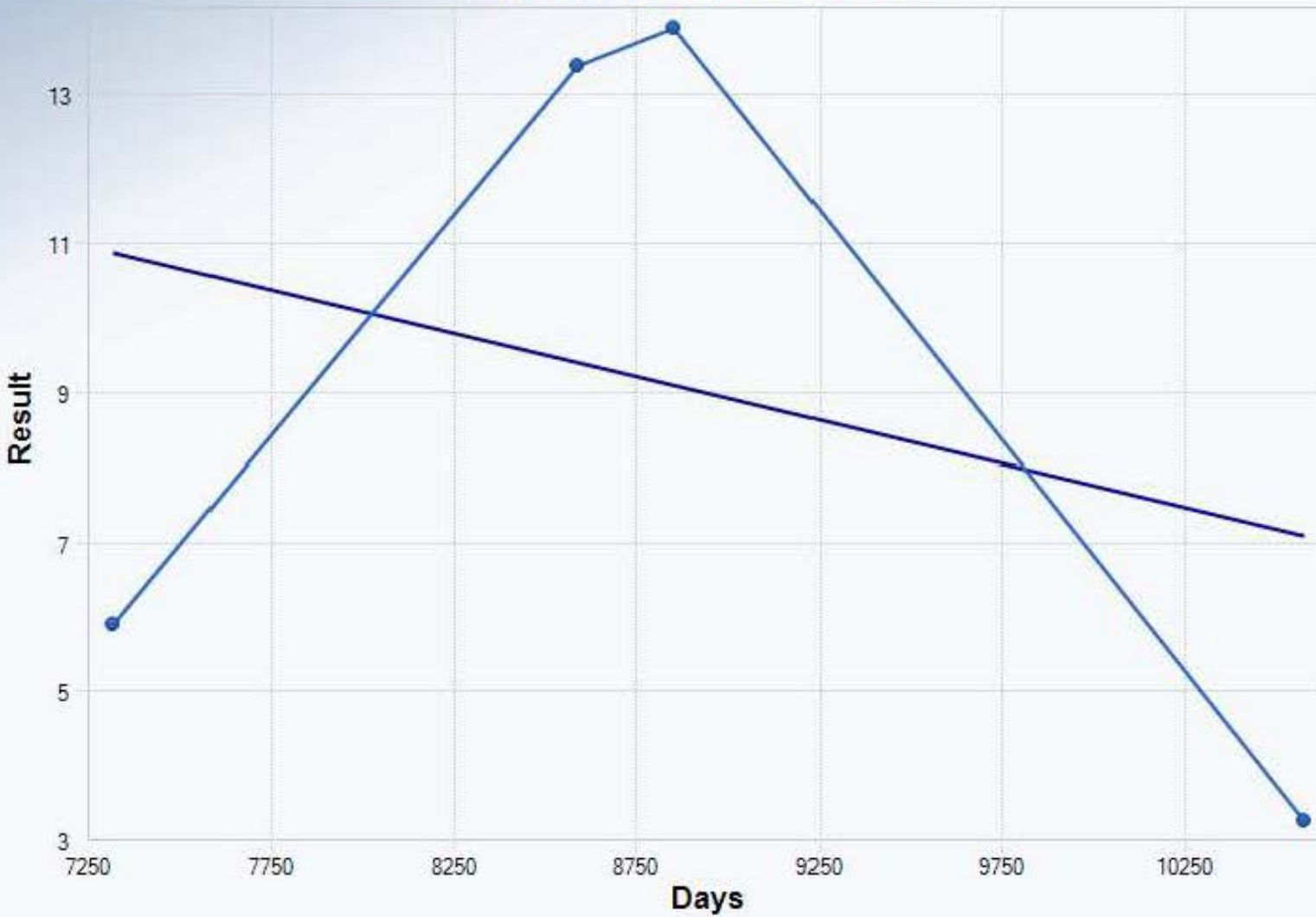
OLS Regression Slope	-0.0040
OLS Regression Intercept	15.3177

Statistically significant evidence of a decreasing trend at the specified level of significance.

Backup for Figure 6-10

3A2-2R

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	4
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	2.9439
Standardized Value of S	
M-K Test Value (S)	0
Tabulated p-value	0.6250
Approximate p-value	

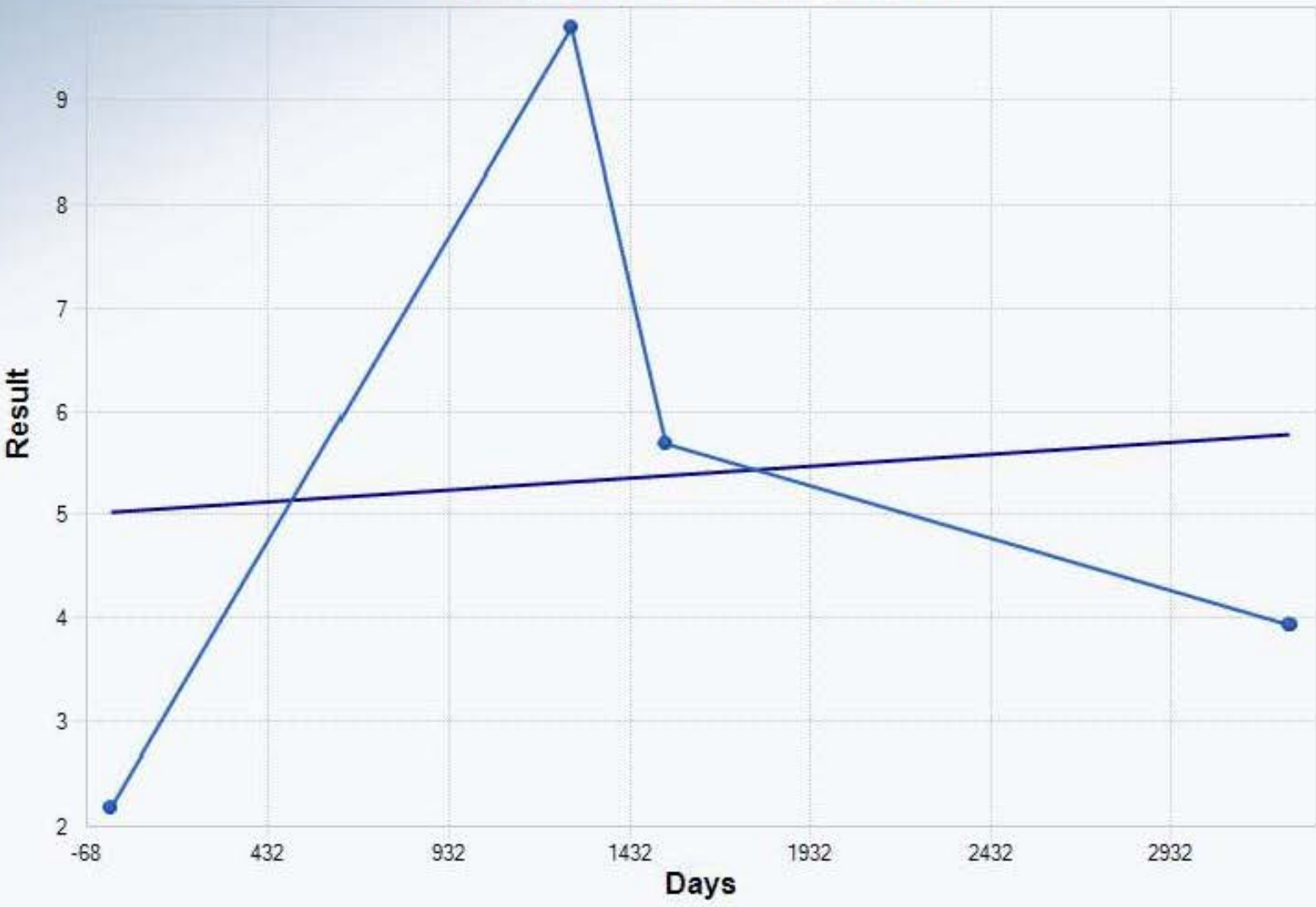
OLS Regression Line (Blue)

OLS Regression Slope	-0.0012
OLS Regression Intercept	19.4795

Insufficient statistical evidence of a significant trend at the specified level of significance.

3A6-2R

Mann-Kendall Trend Test



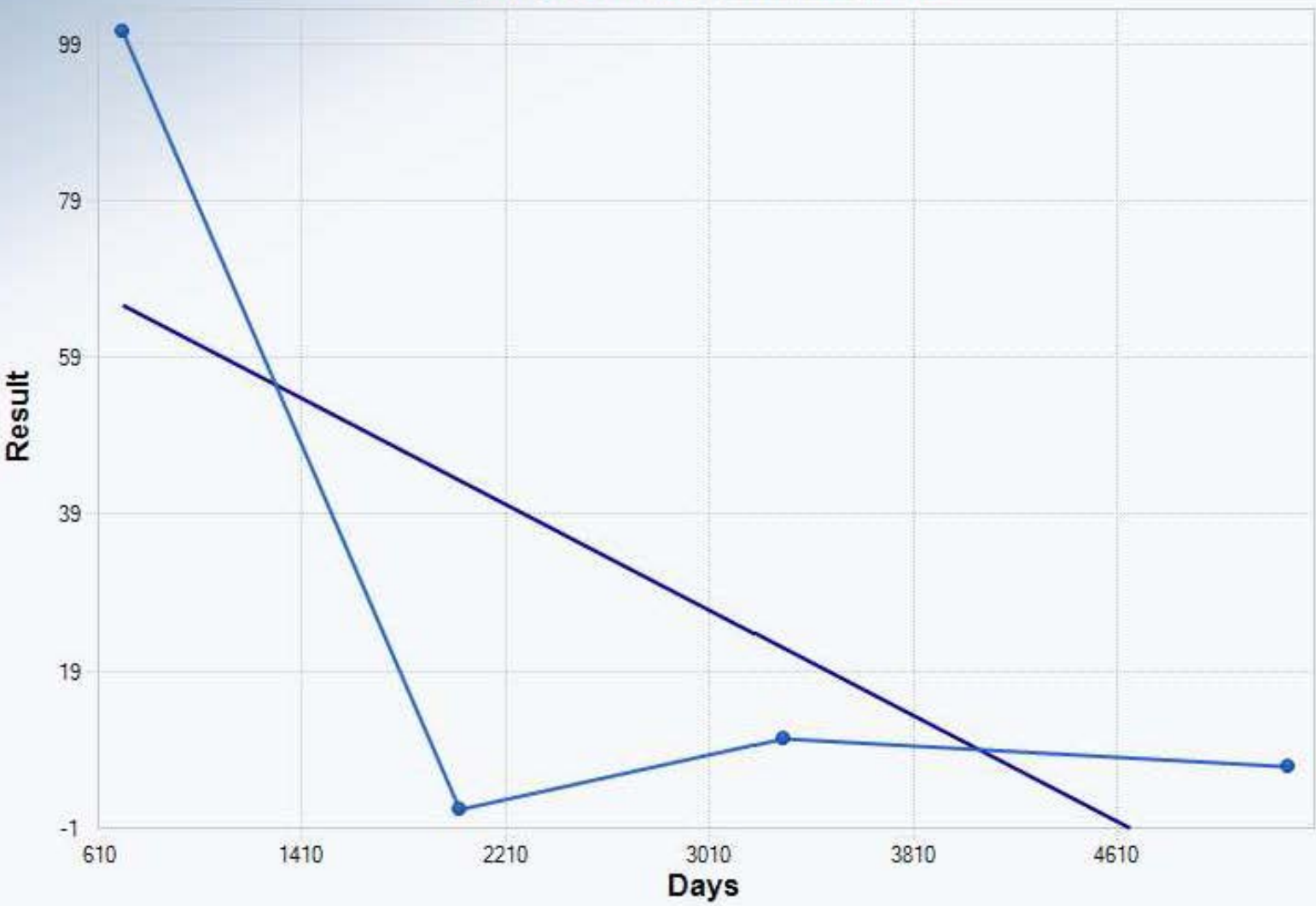
Mann-Kendall Trend Analysis	
n	4
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	2.9439
Standardized Value of S	
M-K Test Value (S)	0
Tabulated p-value	0.6250
Approximate p-value	

OLS Regression Line (Blue)	
OLS Regression Slope	0.0002
OLS Regression Intercept	5.3325

Insufficient statistical evidence of a significant trend at the specified level of significance.

4B2-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	4
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	2.9439
Standardized Value of S	-0.3397
M-K Test Value (S)	-2
Tabulated p-value	0.3750
Approximate p-value	0.3670

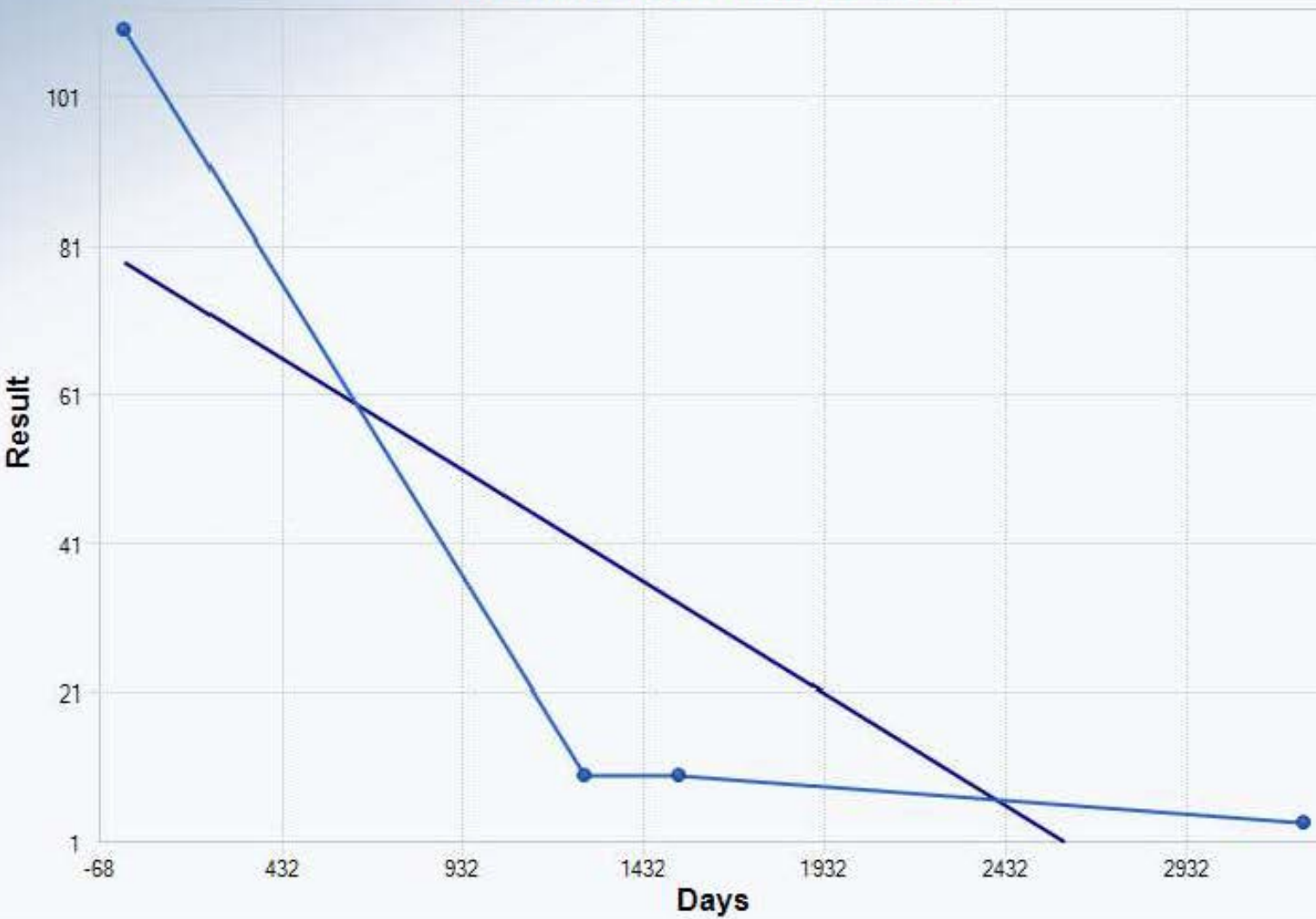
OLS Regression Line (Blue)

OLS Regression Slope	-0.0169
OLS Regression Intercept	77.2424

Insufficient statistical evidence of a significant trend at the specified level of significance.

4B4-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	4
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	2.7689
Standardized Value of S	-1.4446
M-K Test Value (S)	-5
Tabulated p-value	0.1670
Approximate p-value	0.0743

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0301
OLS Regression Intercept	79.0449

Insufficient statistical evidence of a significant trend at the specified level of significance.

5B1-2R

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	4
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	2.9439
Standardized Value of S	-1.0190
M-K Test Value (S)	-4
Tabulated p-value	0.1670
Approximate p-value	0.1541

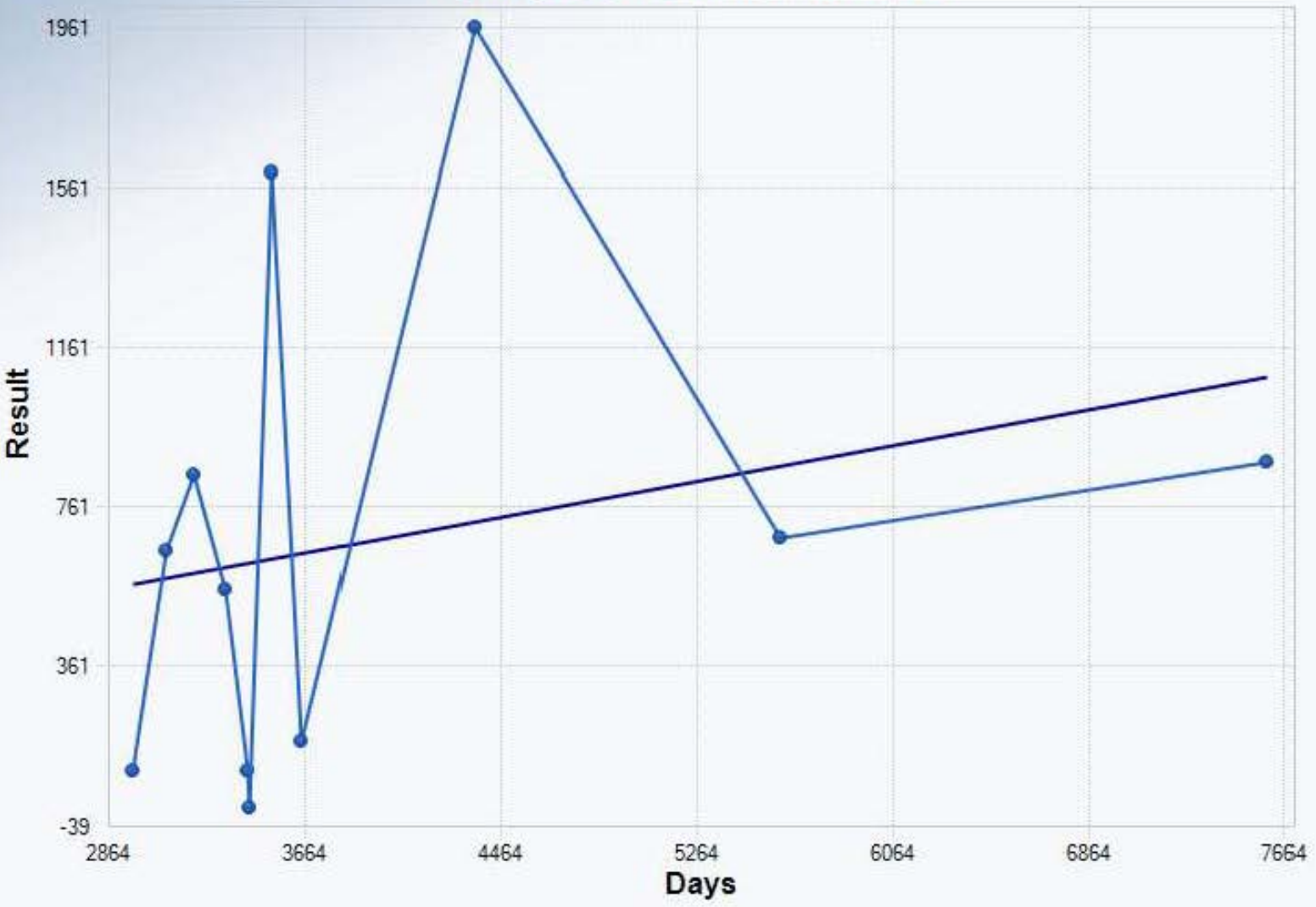
OLS Regression Line (Blue)

OLS Regression Slope	-0.0095
OLS Regression Intercept	46.6735

Insufficient statistical evidence of a significant trend at the specified level of significance.

5C10-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.8062
Standardized Value of S	1.1713
M-K Test Value (S)	16
Tabulated p-value	0.1090
Approximate p-value	0.1207

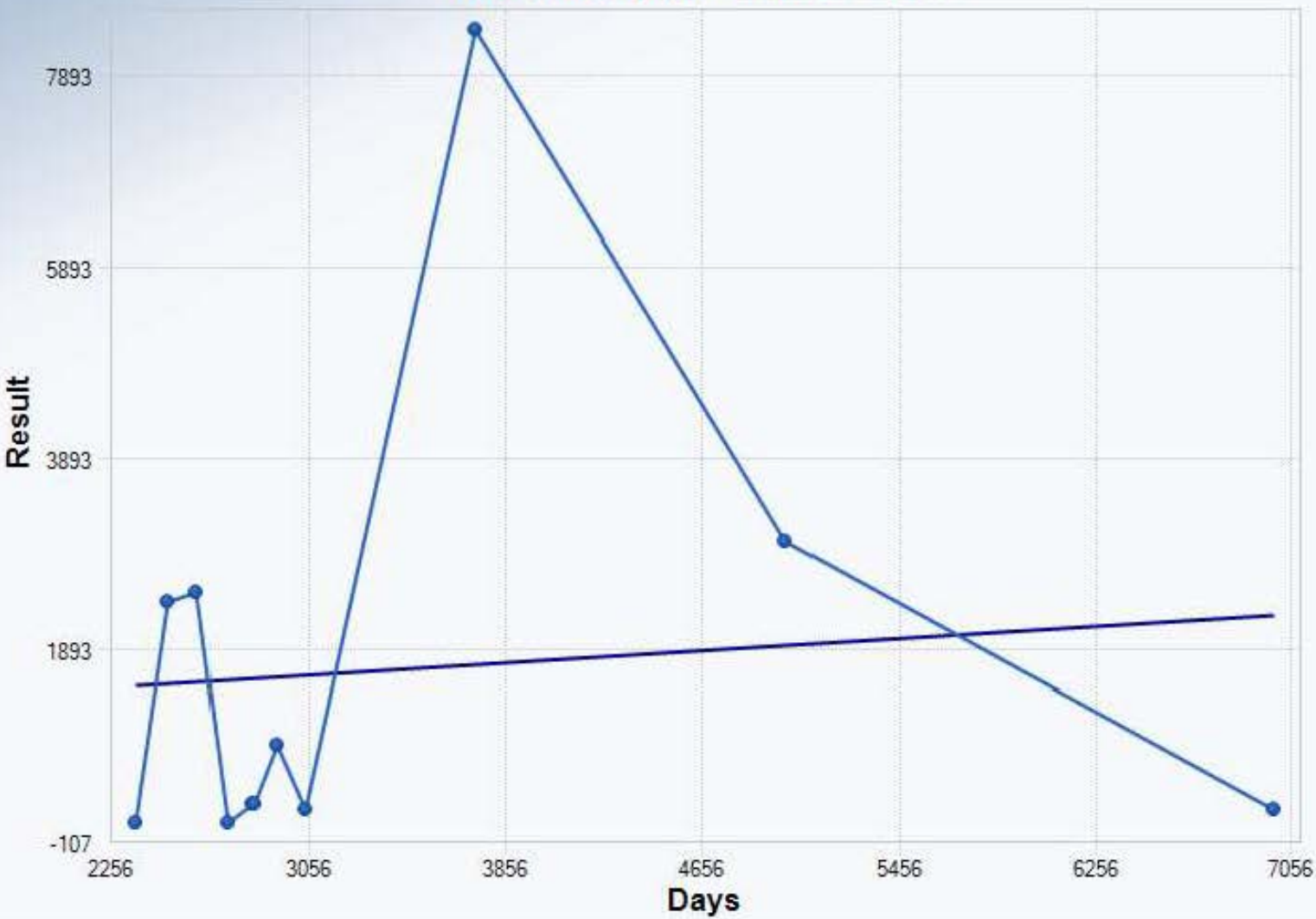
OLS Regression Line (Blue)

OLS Regression Slope	0.1123
OLS Regression Intercept	233.8259

Insufficient statistical evidence of a significant trend at the specified level of significance.

5C14-2

Mann-Kendall Trend Test



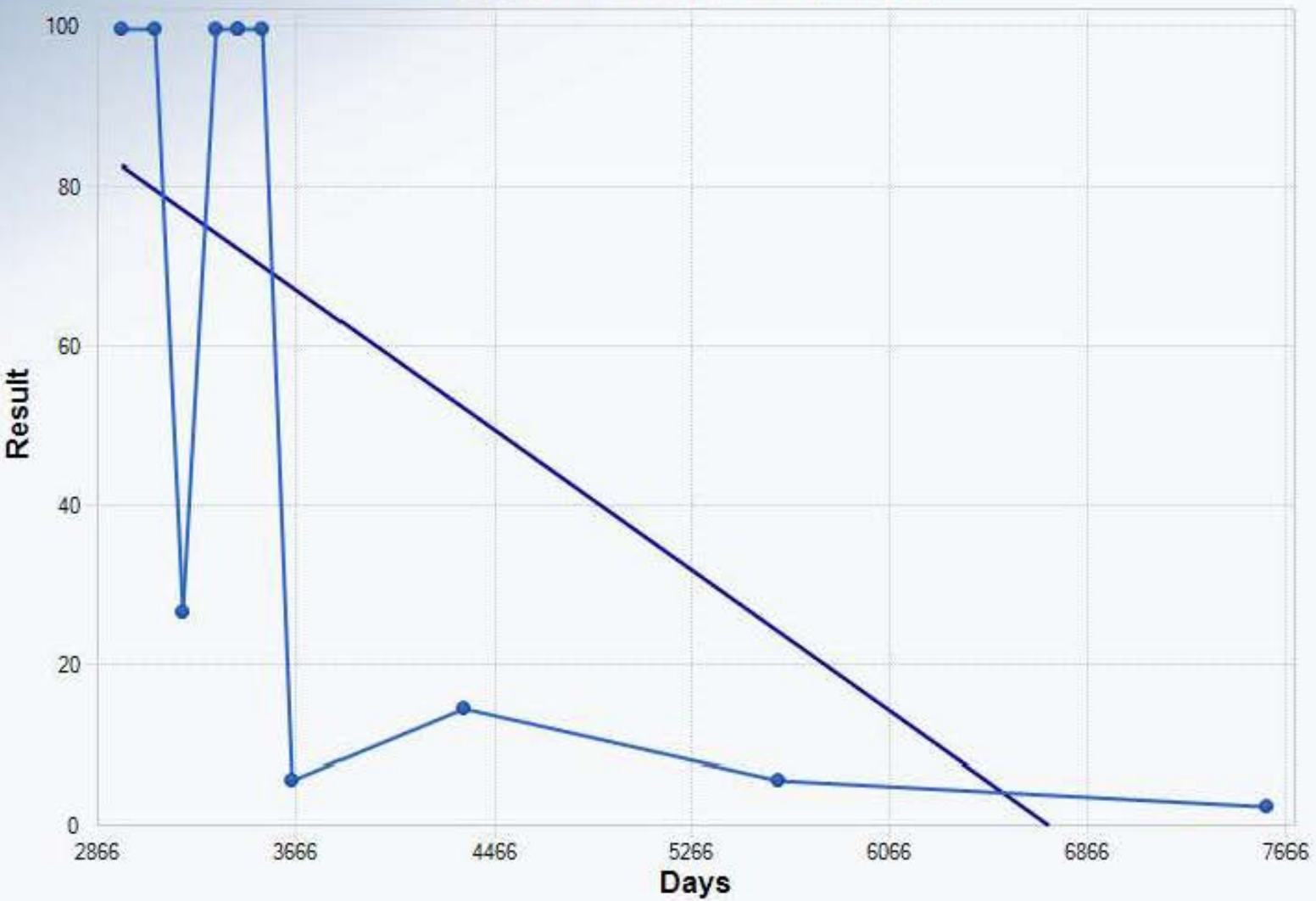
Mann-Kendall Trend Analysis	
n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.7671
Standardized Value of S	0.6266
M-K Test Value (S)	9
Tabulated p-value	0.2710
Approximate p-value	0.2655

OLS Regression Line (Blue)	
OLS Regression Slope	0.1593
OLS Regression Intercept	1,134.6150

Insufficient statistical evidence of a significant trend at the specified level of significance.

5D8-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	11.6476
Standardized Value of S	-2.4039
M-K Test Value (S)	-29
Tabulated p-value	0.0130
Approximate p-value	0.0081

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0220
OLS Regression Intercept	148.2700

Statistically significant evidence of a decreasing trend at the specified level of significance.

6E3-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.8062
Standardized Value of S	3.0454
M-K Test Value (S)	40
Tabulated p-value	0.0000
Approximate p-value	0.0012

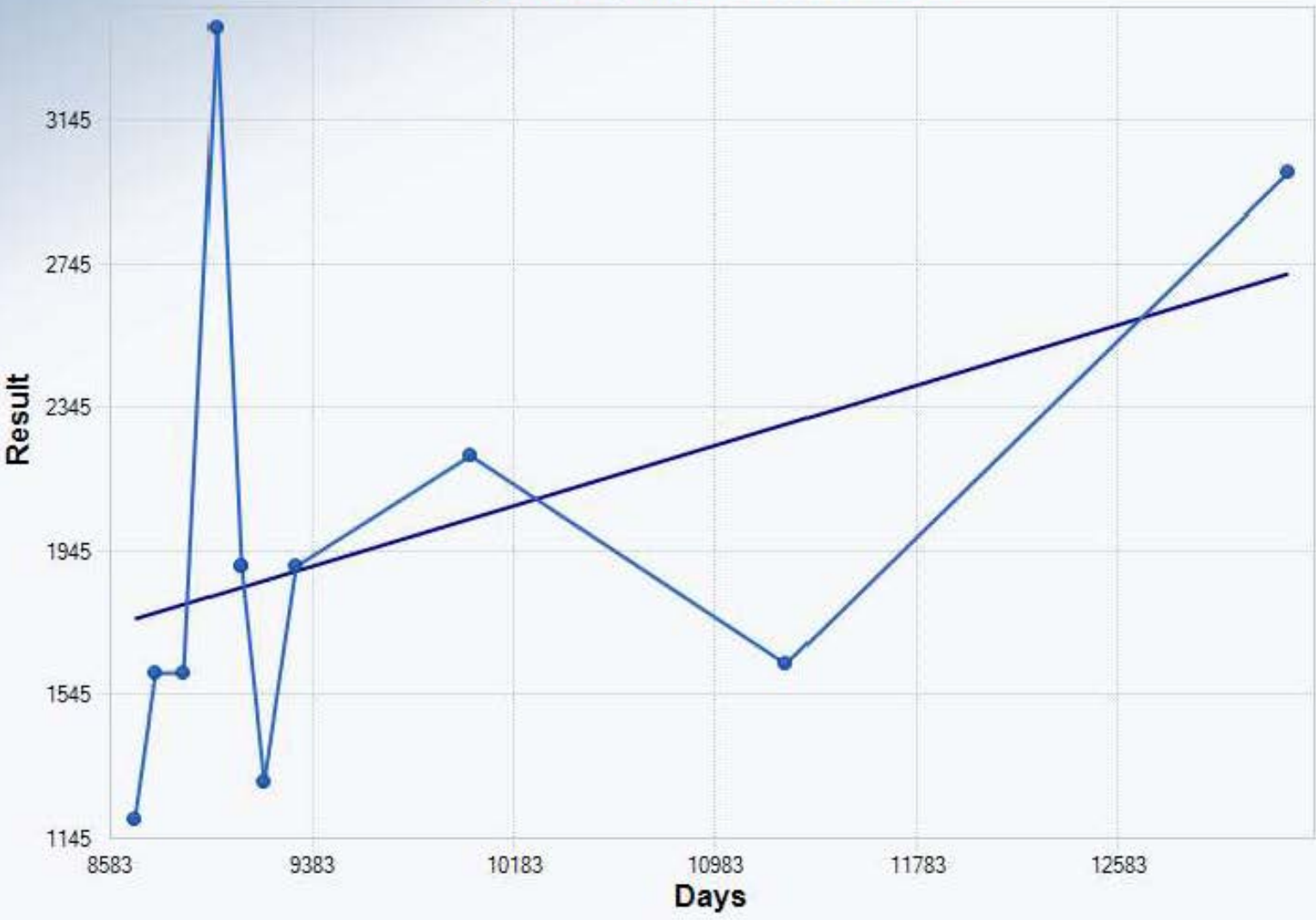
OLS Regression Line (Blue)

OLS Regression Slope	19.9452
OLS Regression Intercept	-153,431.0810

Statistically significant evidence of an increasing trend at the specified level of significance.

6E9-2

Mann-Kendall Trend Test



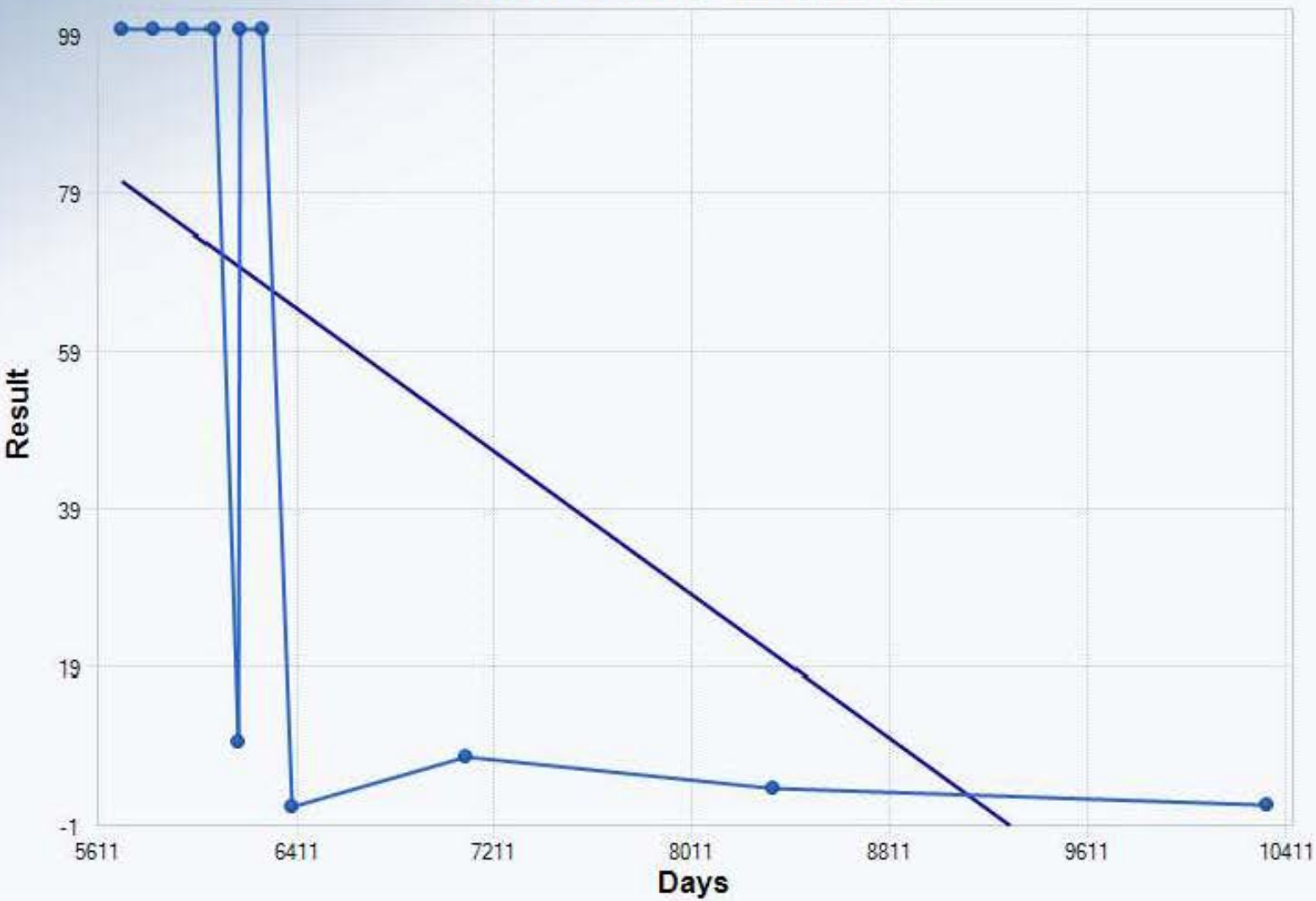
Mann-Kendall Trend Analysis	
n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.6623
Standardized Value of S	1.5795
M-K Test Value (S)	21
Tabulated p-value	0.0600
Approximate p-value	0.0571

OLS Regression Line (Blue)	
OLS Regression Slope	0.2109
OLS Regression Intercept	-75.4747

Insufficient statistical evidence of a significant trend at the specified level of significance.

6F1-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis	
n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	11.6905
Standardized Value of S	-2.4807
M-K Test Value (S)	-30
Tabulated p-value	0.0080
Approximate p-value	0.0066

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0227
OLS Regression Intercept	210.6668

Statistically significant evidence of a decreasing trend at the specified level of significance.

7E4-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	9
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	9.4868
Standardized Value of S	-0.7379
M-K Test Value (S)	-8
Tabulated p-value	0.2380
Approximate p-value	0.2303

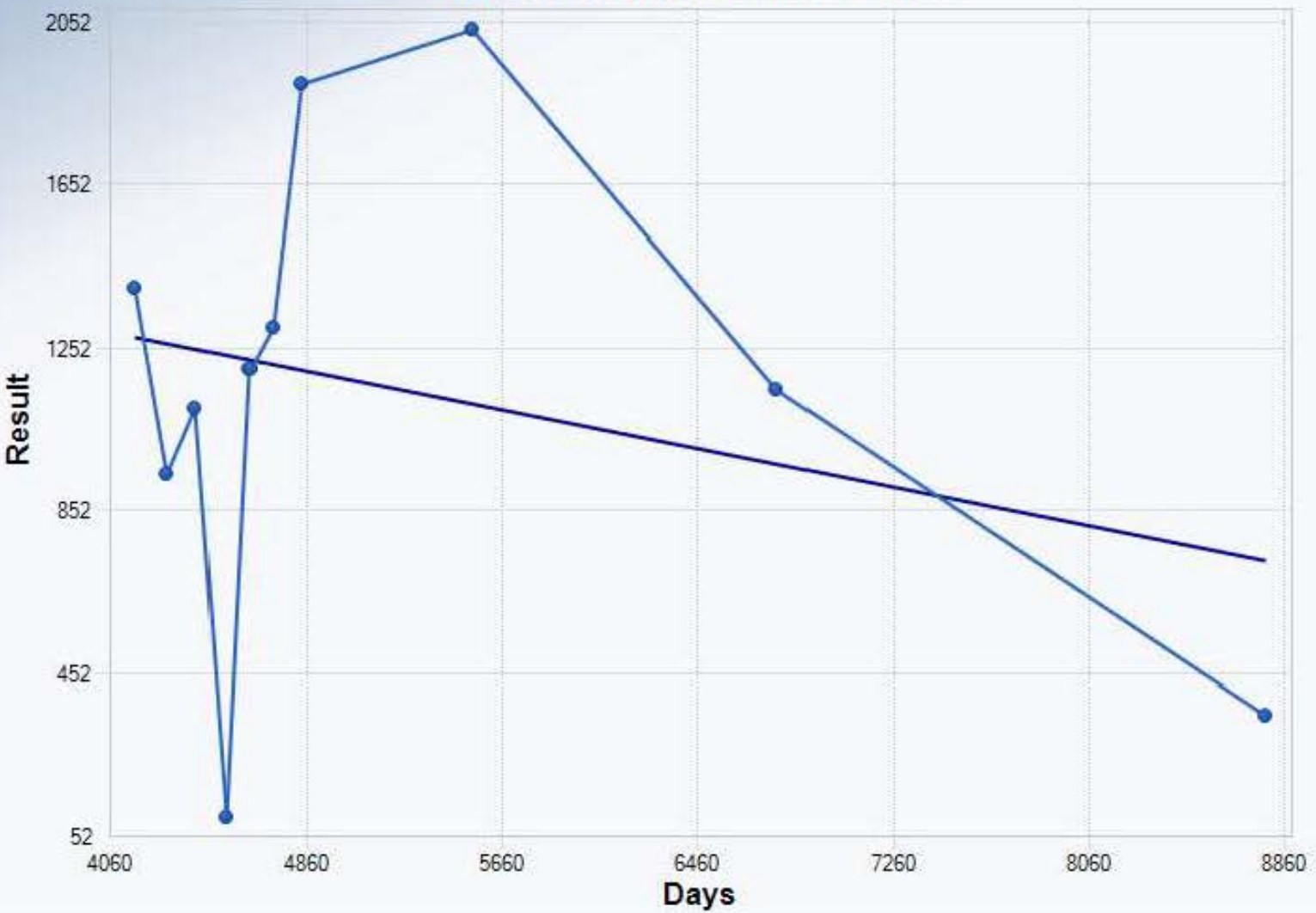
OLS Regression Line (Blue)

OLS Regression Slope	-0.0917
OLS Regression Intercept	1,524.5241

Insufficient statistical evidence of a significant trend at the specified level of significance.

7E6-2

Mann-Kendall Trend Test



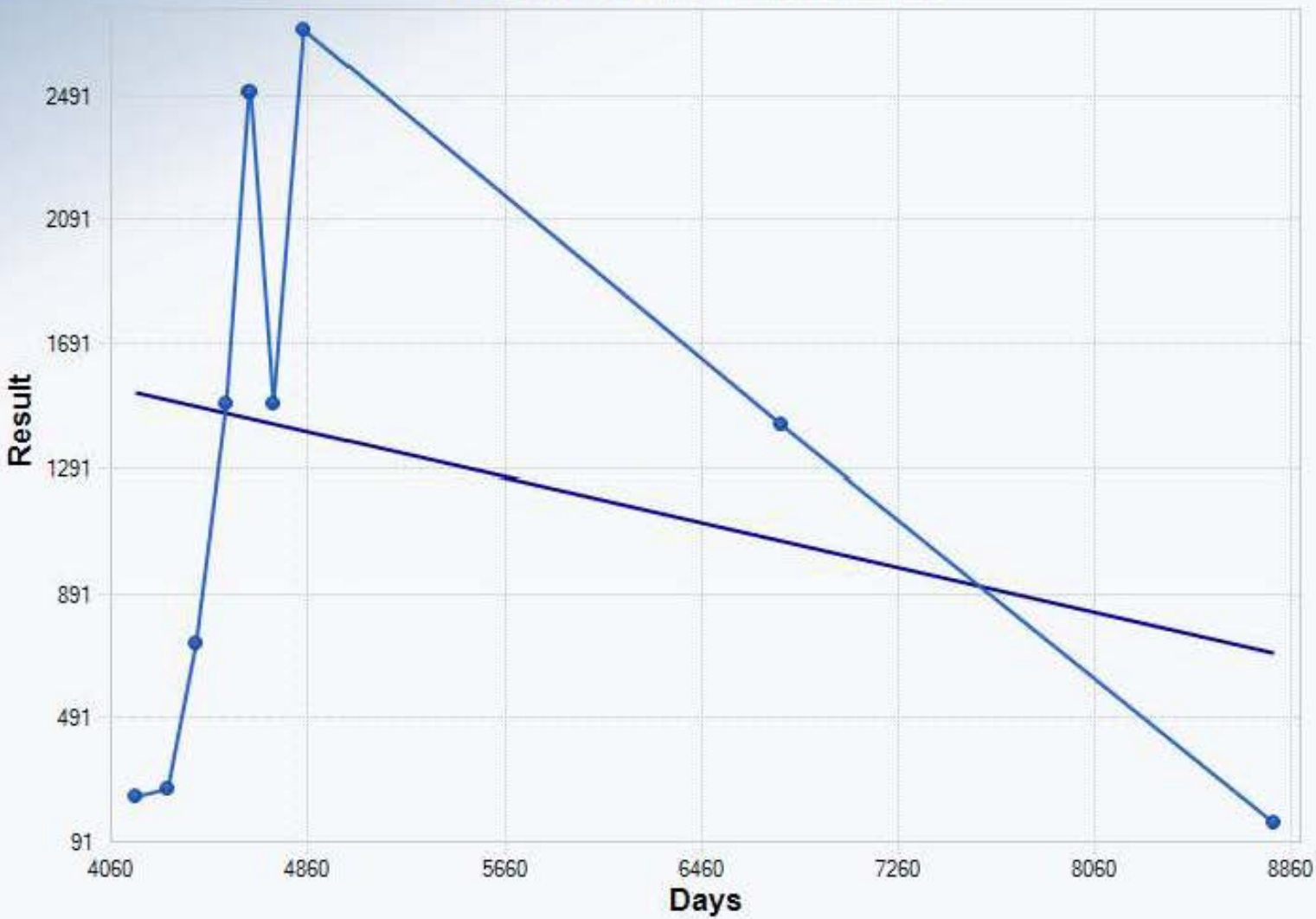
Mann-Kendall Trend Analysis	
n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.8062
Standardized Value of S	0.5466
M-K Test Value (S)	8
Tabulated p-value	0.2710
Approximate p-value	0.2923

OLS Regression Line (Blue)	
OLS Regression Slope	-0.1182
OLS Regression Intercept	1,767.5755

Insufficient statistical evidence of a significant trend at the specified level of significance.

7E7-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	10
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	11.0905
Standardized Value of S	0.9017
M-K Test Value (S)	11
Tabulated p-value	0.1900
Approximate p-value	0.1836

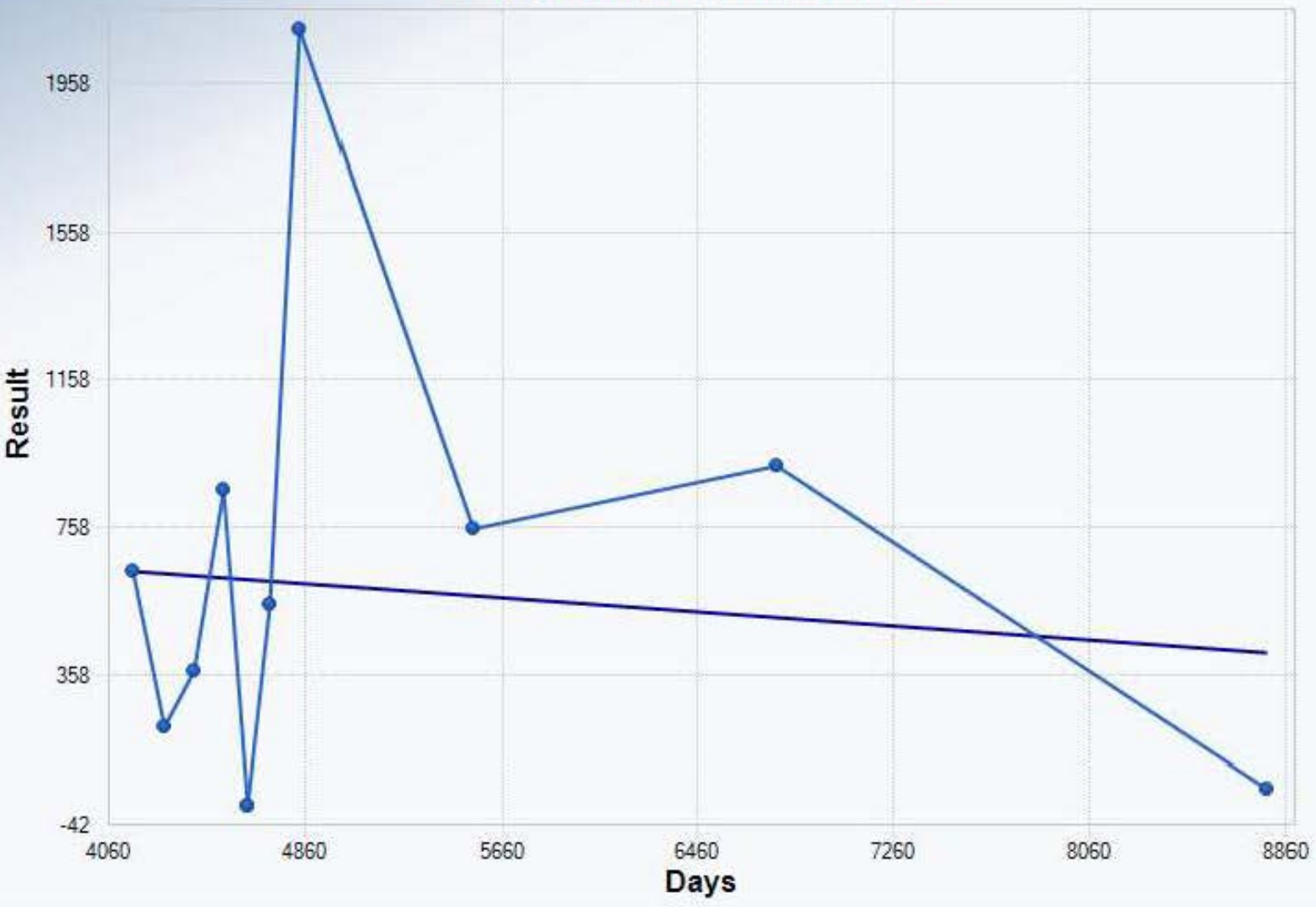
OLS Regression Line (Blue)

OLS Regression Slope	-0.1803
OLS Regression Intercept	2,284.8631

Insufficient statistical evidence of a significant trend at the specified level of significance.

7E9-2

Mann-Kendall Trend Test



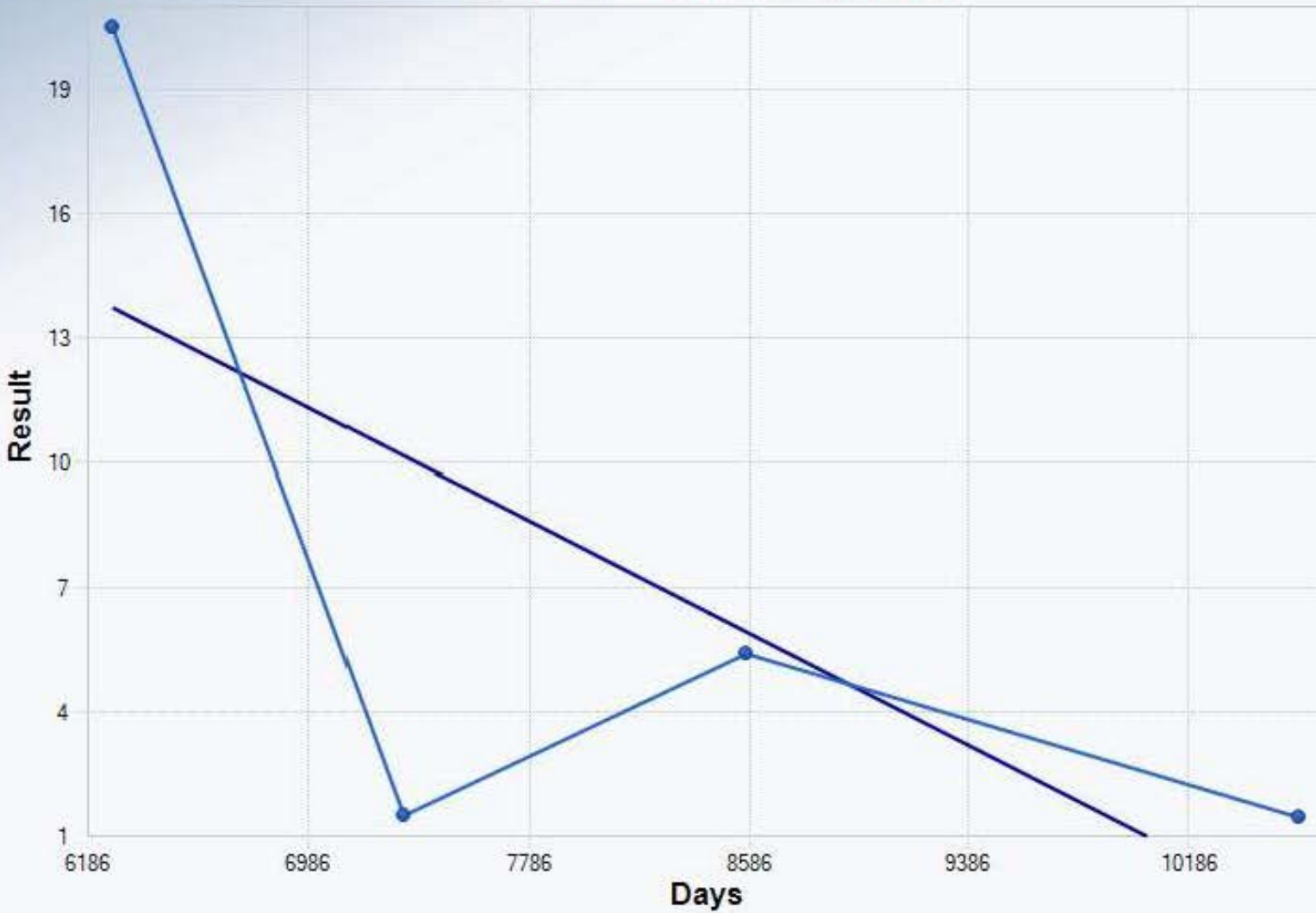
Mann-Kendall Trend Analysis	
n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.8062
Standardized Value of S	0.5466
M-K Test Value (S)	8
Tabulated p-value	0.2710
Approximate p-value	0.2923

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0472
OLS Regression Intercept	835.8699

Insufficient statistical evidence of a significant trend at the specified level of significance.

713-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	4
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	2.9439
Standardized Value of S	-1.0190
M-K Test Value (S)	-4
Tabulated p-value	0.1670
Approximate p-value	0.1541

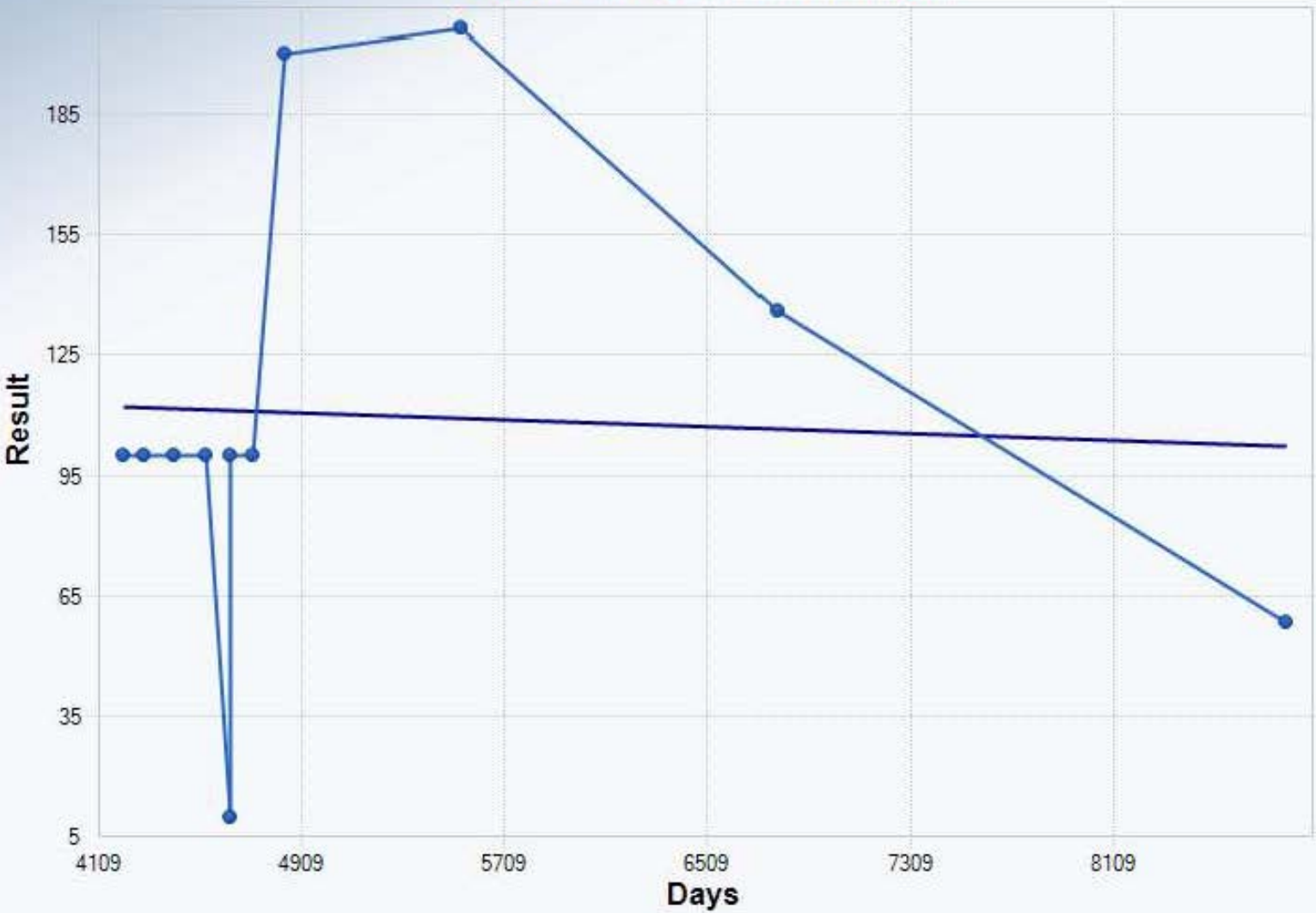
OLS Regression Line (Blue)

OLS Regression Slope	-0.0034
OLS Regression Intercept	34.5265

Insufficient statistical evidence of a significant trend at the specified level of significance.

8G3-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	11.6905
Standardized Value of S	0.7699
M-K Test Value (S)	10
Tabulated p-value	0.2230
Approximate p-value	0.2207

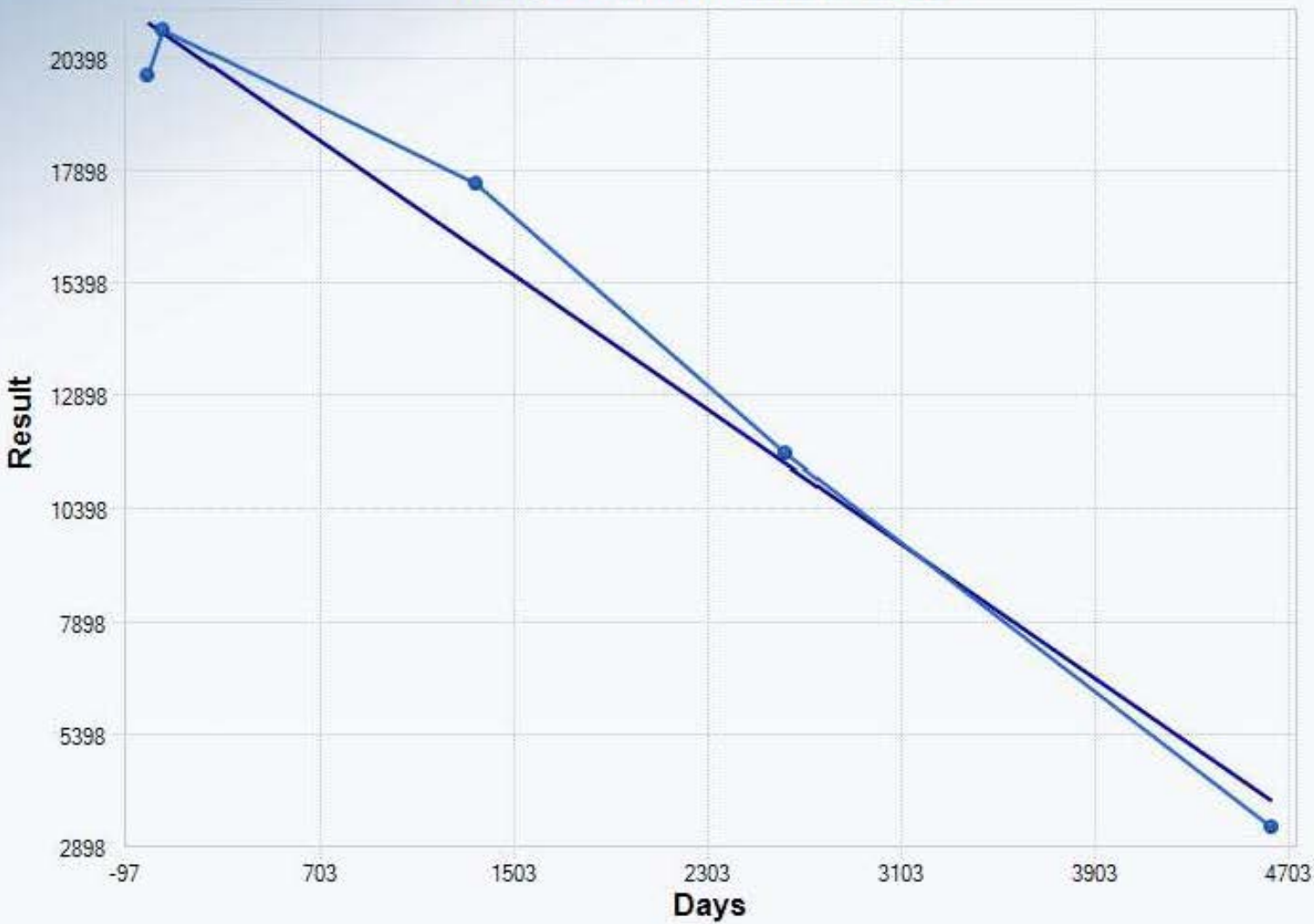
OLS Regression Line (Blue)

OLS Regression Slope	-0.0022
OLS Regression Intercept	121.3787

Insufficient statistical evidence of a significant trend at the specified level of significance.

122+60-2

Mann-Kendall Trend Test



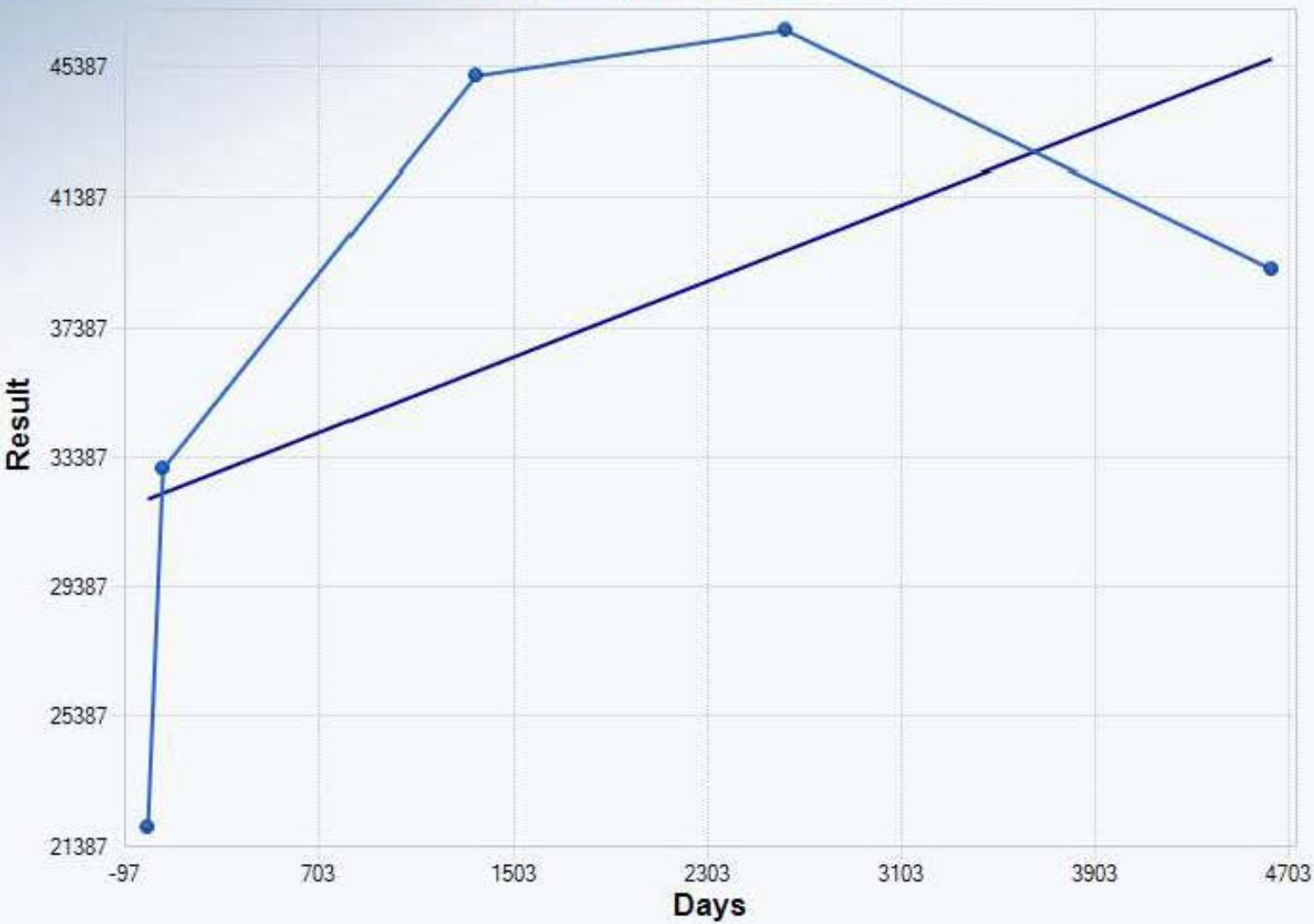
Mann-Kendall Trend Analysis	
n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	4.0825
Standardized Value of S	-1.7146
M-K Test Value (S)	-8
Tabulated p-value	0.0420
Approximate p-value	0.0432

OLS Regression Line (Blue)	
OLS Regression Slope	-3.7339
OLS Regression Intercept	21,178.0224

Statistically significant evidence of a decreasing trend at the specified level of significance.

124+00-2

Mann-Kendall Trend Test



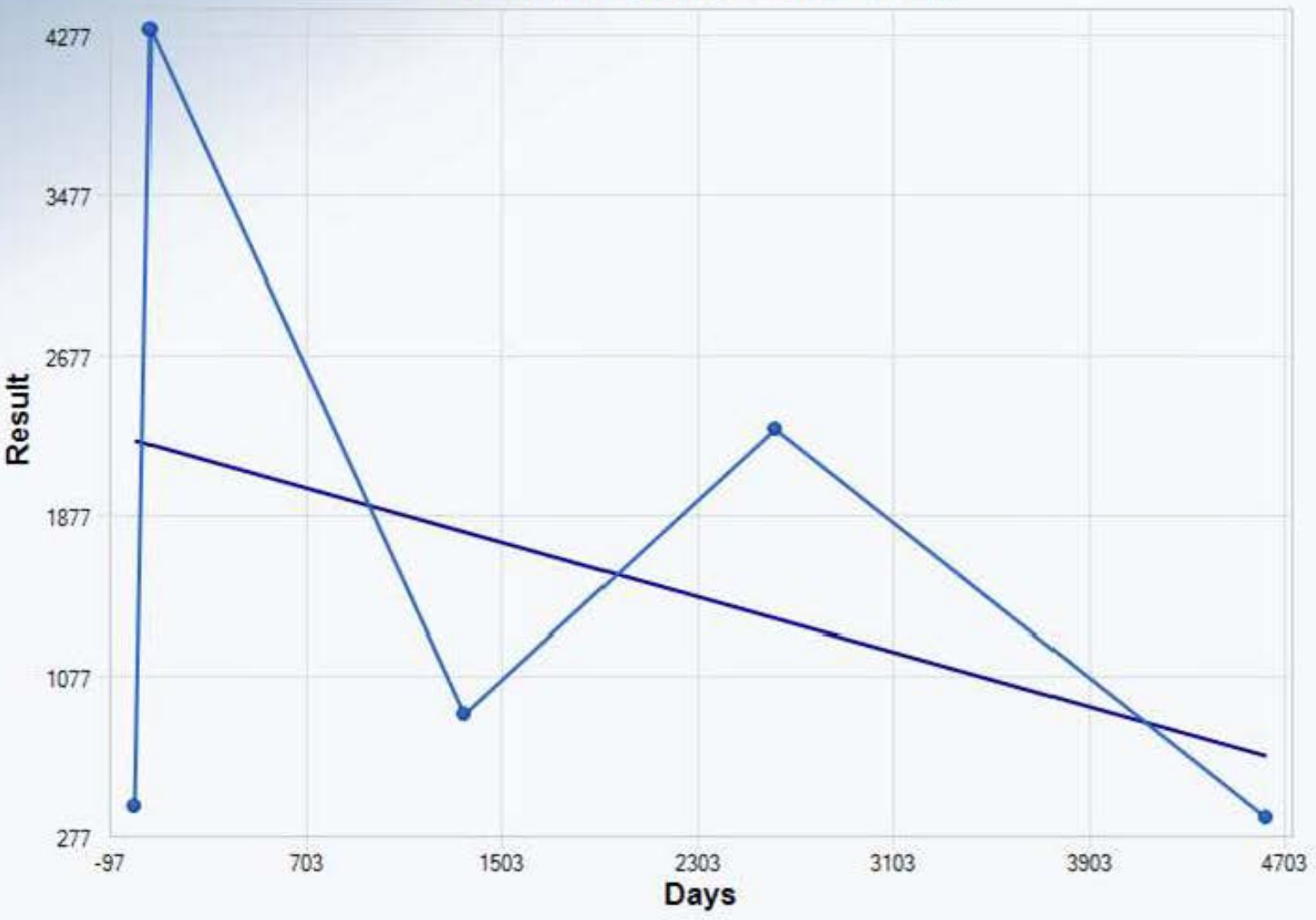
Mann-Kendall Trend Analysis	
n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	4.0825
Standardized Value of S	1.2247
M-K Test Value (S)	6
Tabulated p-value	0.1170
Approximate p-value	0.1103

OLS Regression Line (Blue)	
OLS Regression Slope	2.9379
OLS Regression Intercept	32,071.5984

Insufficient statistical evidence of a significant trend at the specified level of significance.

125+50-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	4.0825
Standardized Value of S	-0.2449
M-K Test Value (S)	-2
Tabulated p-value	0.4080
Approximate p-value	0.4032

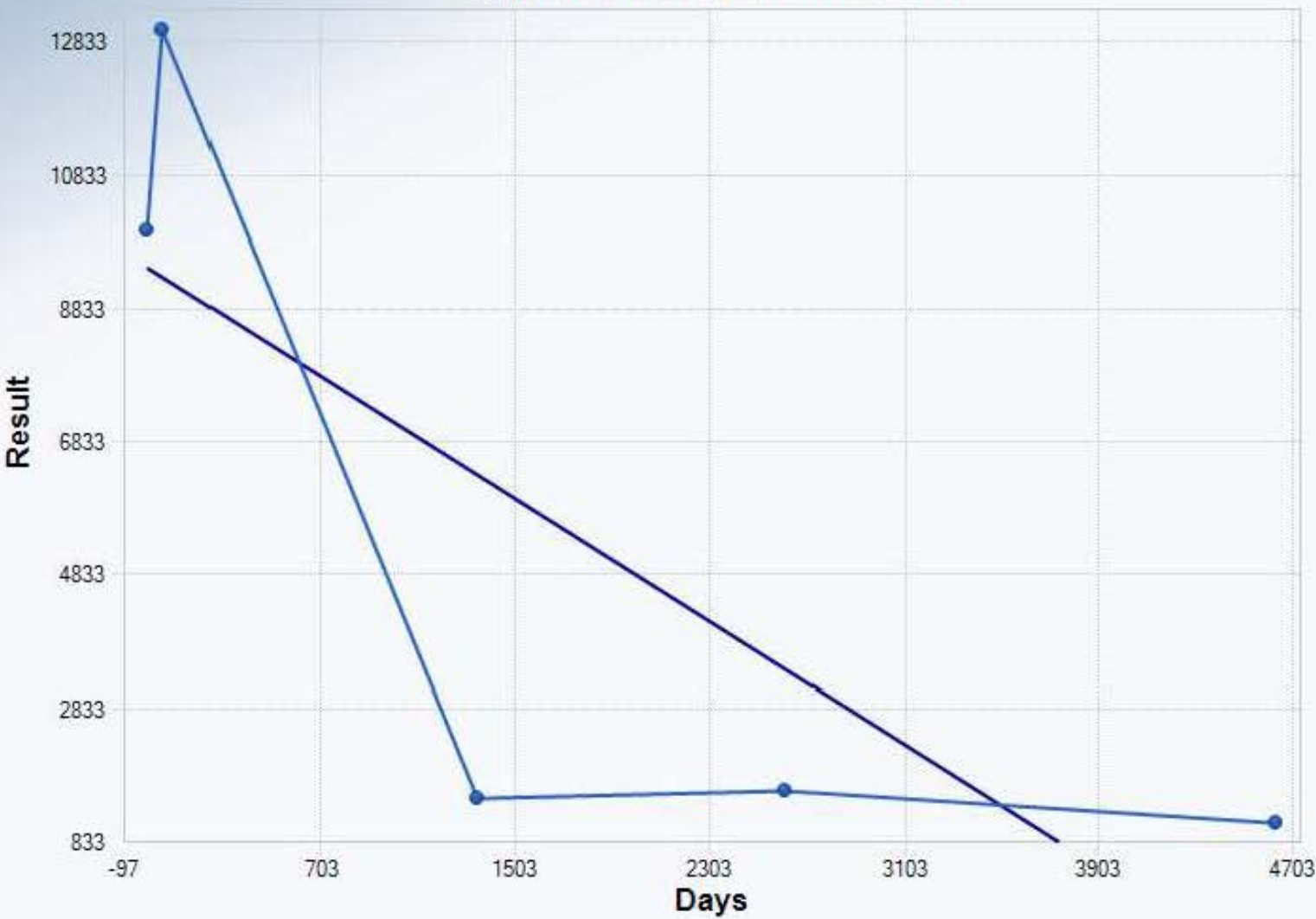
OLS Regression Line (Blue)

OLS Regression Slope	-0.3396
OLS Regression Intercept	2,249.4671

Insufficient statistical evidence of a significant trend at the specified level of significance.

126+90-2

Mann-Kendall Trend Test



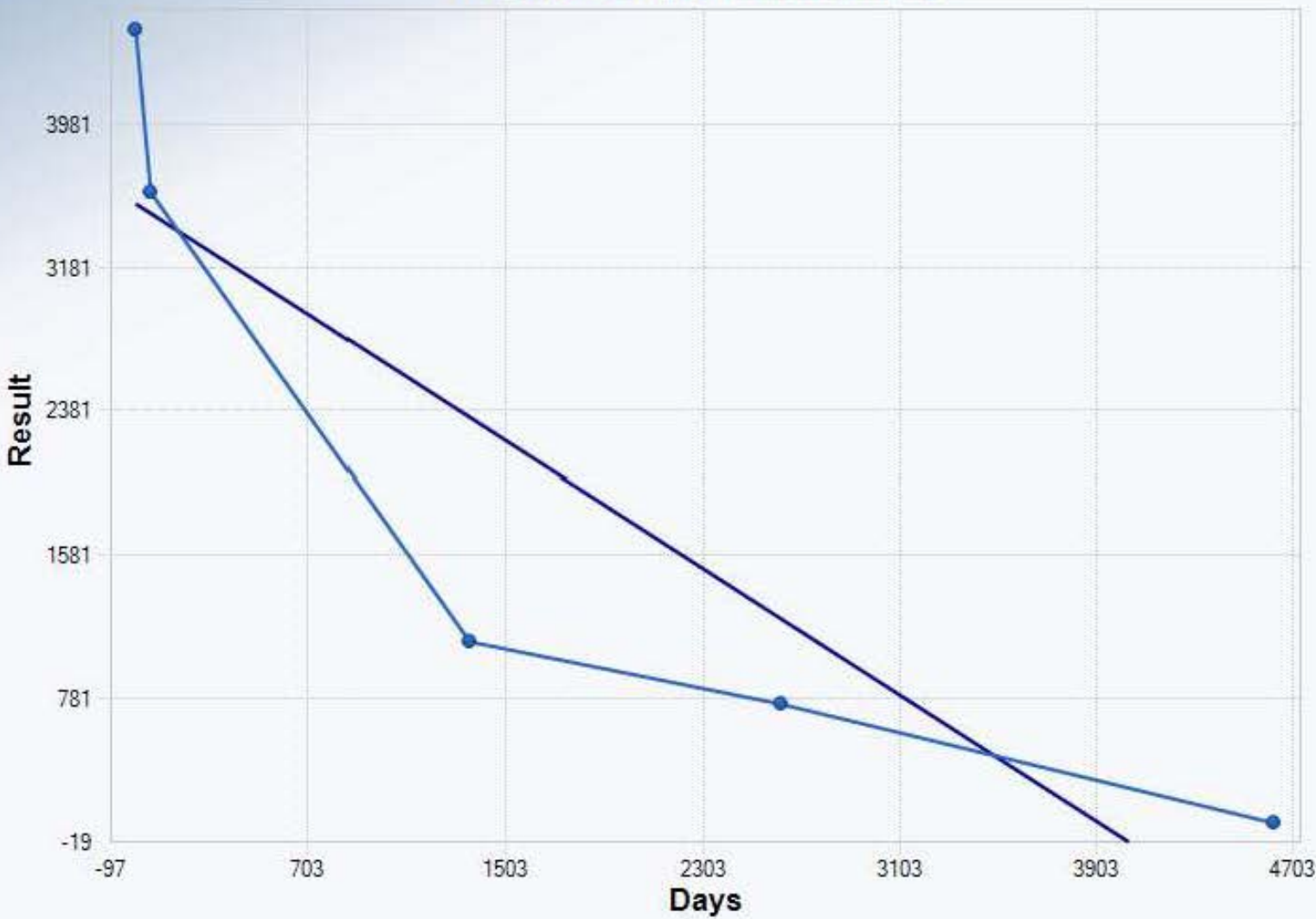
Mann-Kendall Trend Analysis	
n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	4.0825
Standardized Value of S	-1.2247
M-K Test Value (S)	-6
Tabulated p-value	0.1170
Approximate p-value	0.1103

OLS Regression Line (Blue)	
OLS Regression Slope	-2.3116
OLS Regression Intercept	9,447.8026

Insufficient statistical evidence of a significant trend at the specified level of significance.

128+30-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	4.0825
Standardized Value of S	-2.2045
M-K Test Value (S)	-10
Tabulated p-value	0.0080
Approximate p-value	0.0137

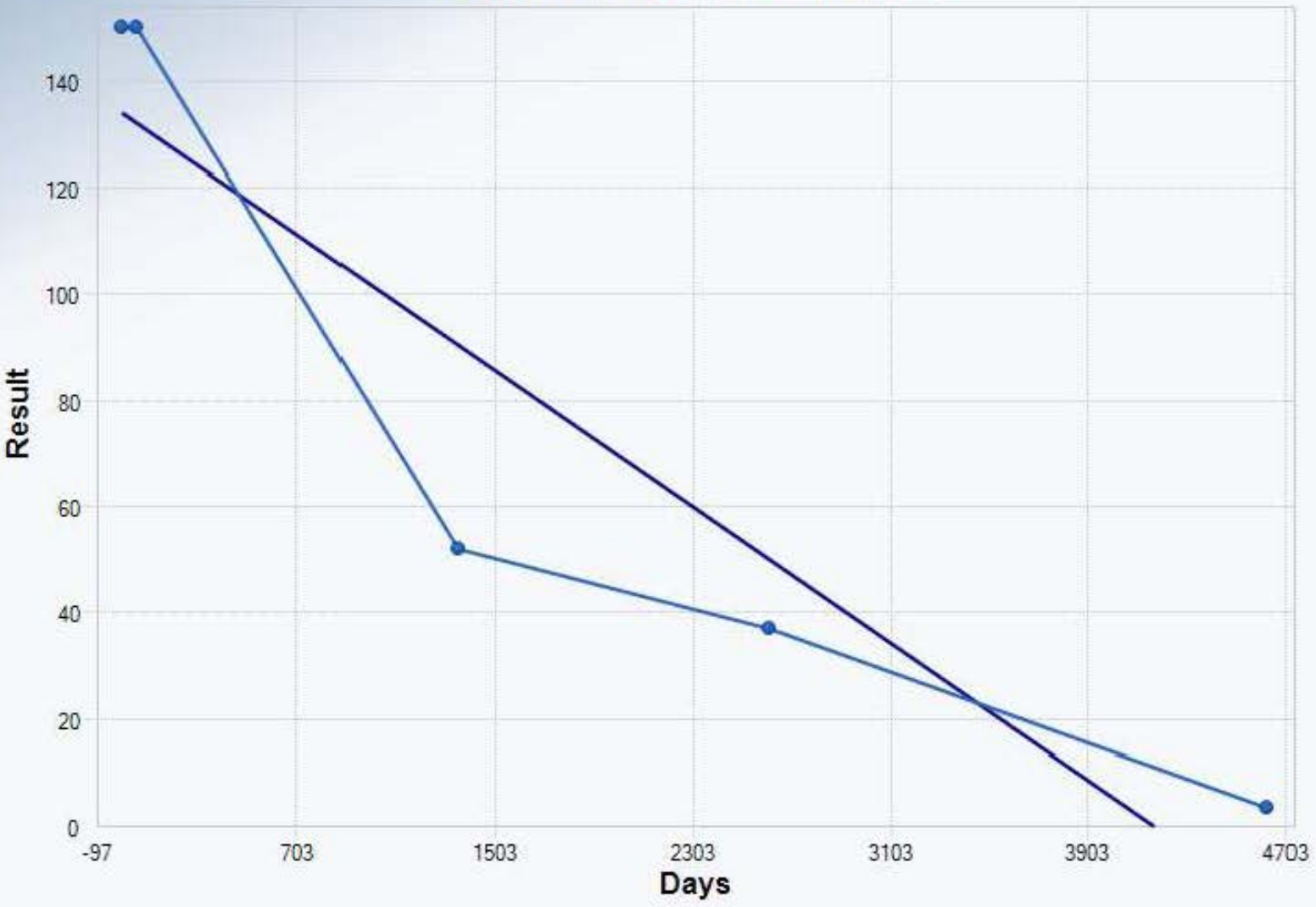
OLS Regression Line (Blue)

OLS Regression Slope	-0.8806
OLS Regression Intercept	3,531.9791

Statistically significant evidence of a decreasing trend at the specified level of significance.

129+65-2

Mann-Kendall Trend Test



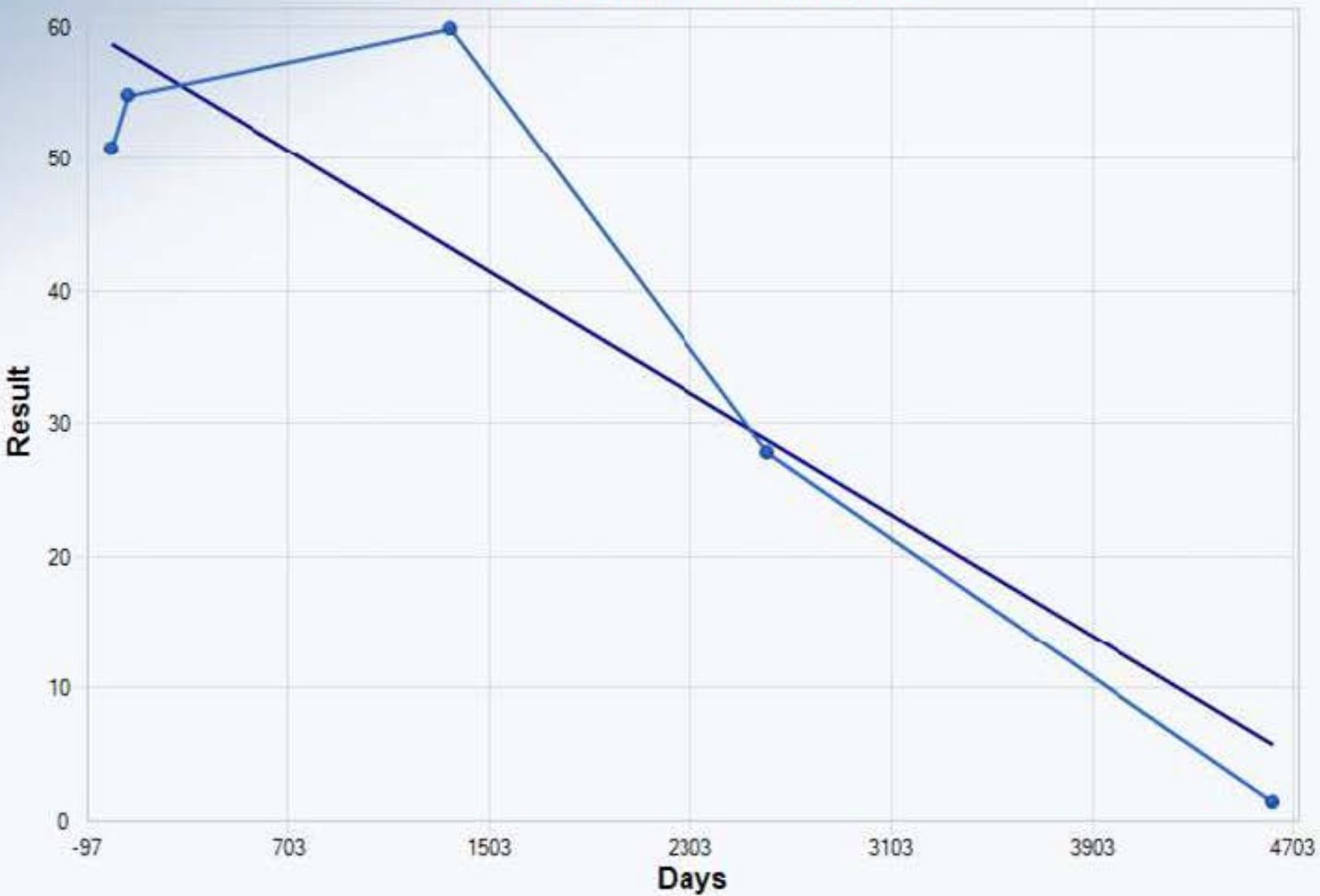
Mann-Kendall Trend Analysis	
n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	3.9581
Standardized Value of S	-2.0212
M-K Test Value (S)	-9
Tabulated p-value	0.0420
Approximate p-value	0.0216

OLS Regression Line (Blue)	
OLS Regression Slope	-0.0322
OLS Regression Intercept	134.2905

Statistically significant evidence of a decreasing trend at the specified level of significance.

131+00-2

Mann-Kendall Trend Test



Mann-Kendall Trend Analysis

n	5
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	4.0825
Standardized Value of S	-0.7348
M-K Test Value (S)	-4
Tabulated p-value	0.2420
Approximate p-value	0.2312

OLS Regression Line (Blue)

OLS Regression Slope	-0.0115
OLS Regression Intercept	59.0051

Insufficient statistical evidence of a significant trend at the specified level of significance.

Appendix J

MEMORANDUM

To: PIONEER Technologies Corporation
5205 Corporate Ctr. Ct. SE, Ste. A
Olympia, WA 98503-5901

Attn: Troy Bussey Jr., P.E.

From: Joel Massmann, Ph.D., P.E.

Date: May 23, 2018

Subject: Former Arkema Manufacturing Site
Estimates of cut-off wall hydraulic conductivity
from continuous water level data

A. Overview

This memorandum summarizes estimates of equivalent hydraulic conductivity for the sheet pile wall on the Former Arkema Manufacturing Site in Tacoma, WA. The estimates are derived using continuous water level data collected in the vicinity of the sheet pile wall during 1990 and 2004. The equivalent hydraulic conductivity values describe the resistance to groundwater flow due to the sheet pile wall. These hydraulic conductivity values will be incorporated into a revised groundwater flow model currently under development.

The sheet pile wall is an important component of the groundwater flow system and has significant impacts on contaminant transport at the site. As part of our ongoing work in updating the 2004 three-dimensional groundwater flow model, we are both evaluating new data collected during recent field efforts and re-evaluating pre-existing data that had been collected during previous field efforts. This memorandum describes a re-evaluation of previously-collected continuous water level data using analytical methods not used in earlier studies.

Estimates of equivalent hydraulic conductivity have been developed using two general approaches. The first approach, which uses data collected in 1990, compares tidal fluctuations measured in a common set of wells before and after the sheet pile wall was

installed. The second approach, which uses data collected in 2004, compares tidal fluctuations measured on the water-ward and land-ward sides of the wall.

The estimated wall hydraulic conductivity based on the evaluations described below is approximately 8×10^{-4} ft/day (2.8×10^{-7} cm/s). The previous modeling work (PGG, 2004) had assumed an effectively impermeable wall with a hydraulic conductivity of 1×10^{-20} ft/day. The estimated horizontal leakage through the sheet pile wall derived using the current three-dimensional groundwater flow model with the updated hydraulic conductivity value is approximately 1.8 gallons per minute for the intermediate aquifer and 1.4 gallons per minute for the shallow aquifer. These estimates do not include vertical flow along the wall or flow around the edges of the wall.

B. Using Tidal Fluctuations to Estimate Hydraulic Properties

Groundwater elevations in wells adjacent to tidal boundaries mimic tidal fluctuations. The amplitudes of the water levels in wells are dampened relative to the amplitude of the tides and there is a time lag between when peak tide levels occur and when peak levels occur in wells. The degree of dampening and the magnitude of the time lags can be used to estimate hydraulic diffusivity of the aquifer (e.g., Ferris, 1951; Erskine, 1991).¹ The hydraulic diffusivity can in turn be used to estimate aquifer hydraulic conductivity.

The installation of the sheet pile wall increases the degree of dampening and the time lag observed in monitoring wells located on the land-ward side of the wall. These changes can be used to calculate the change in hydraulic diffusivity that results from the wall. The effective hydraulic conductivity of the sheet pile wall can then be calculated from the change in hydraulic diffusivity.

C. Estimates based on 1990 water levels

Continuous water level data collected before and after installation of the sheet pile wall are described in ICF Technology (1991). The pre-wall data were collected between September 17-19, 1990 and the post-wall data were collected between November 14-16, 1990. The wells used from the 1990 study are listed in Table 1 and are shown on Figure 1.

¹ Hydraulic diffusivity is defined as the ratio of the hydraulic conductivity, K , to the specific storage, S_s . The equations used to estimate hydraulic diffusivity from time lag and dampening ratio data are described in Ferris (1951). The details of this analysis are beyond the scope of this memorandum but can be provided upon request.

Table 1. Wells used from the 1990 water level study

Well	Newer name	Pre-wall data?	Post-wall data?	Aquifer
I-15S	5C4-2	Yes	No	Intermediate
K-32S	6D2-2	Yes	Yes	Intermediate
I-13S	6D7-2	Yes	Yes	Intermediate
K-11S	6D10-2	Yes	Yes	Intermediate
K-33S	7D1-2	Yes	Yes	Intermediate

Table 2 below summarizes data and calculations used to estimate the pre-wall hydraulic conductivity of the intermediate aquifer near the Hylebos Waterway.² The estimates were calculated using the data collected between September 17 and 19, 1990. The estimated hydraulic conductivity assuming a specific storage value of 1×10^{-4} ranges from 1 ft/day to 46 ft/day, with a median value of 41 ft/day.³ This value is within the range of values reported in previous studies (e.g., Boateng and Massmann, 1999; PGG, 2004).

Table 2 also lists the soil type reported for screened areas of the wells, based on the well logs. All well screens are located in poorly-graded sands, except for well I-13S, which is screened in an area with interbedded sand and clay. The reason for the relatively low hydraulic conductivity at well K-32S is not apparent based on information included in the well log.

Table 3 below summarizes data and calculations used to estimate the post-wall hydraulic conductivity. These estimates were calculated using the data collected between November 14 and 16, 1990. The estimated hydraulic conductivity assuming a specific storage value of 1×10^{-4} ranges from 0.32 to 1.65 ft/day, with a median value of 0.77 ft/day.

Table 3 also lists the reduction in hydraulic conductivity that resulted from the sheet pile wall. The wall hydraulic conductivity was calculated from these reductions based on the assumption that the hydraulic conductivity of the native materials was not affected by wall installation.⁴ The calculated wall hydraulic conductivity ranges from 2×10^{-4} ft/day to 9×10^{-4} ft/day, with a median value of 4.2×10^{-4} ft/day.

² The water level data were used in the ICF study to qualitatively evaluate the effectiveness of the sheet pile wall. The data were not used to quantitatively estimate the hydraulic conductivity of the wall. The values listed in Table 2 are from the current analysis.

³ A specific storage value of 1×10^{-4} is within the range of typical values and is equal to the median specific storage calculated using a hydraulic conductivity of 40 ft/day, as outlined in Table 2.

⁴ The thickness of the wall was assigned a value of 315 mils or 0.026 feet.

D. Estimates based on 2004 water levels

Continuous water level data were collected between January 16 and February 18, 2004 as part of the Bank Focused Feasibility Study (PGG, 2004).⁵ These data were collected from pairs of wells located on the water-ward and land-ward sides of the sheet pile wall. The wells from the 2004 study are listed in Table 4 and their locations are shown on Figure 1.

Table 4 below summarizes data and calculations used to estimate the hydraulic conductivity of the wall. The reduction in hydraulic diffusivity (K/S_s) resulting from the wall is calculated by comparing values derived using data from the water-ward side of the wall with values derived using data from the land-ward side of the wall. It is assumed that the wall has a negligible effect on specific storage so that the reduction in hydraulic diffusivity is equal to the reduction in hydraulic conductivity. The average hydraulic conductivity with the wall in place is calculated with the following expression:

$$K = (1 - \% \text{ Reduction}) * 40 \text{ ft/day}$$

The value of 40 ft/day is the estimated hydraulic conductivity of the native materials prior to wall installation, as described in the previous section. The wall hydraulic conductivity was calculated from these average hydraulic conductivity values using a wall thickness of 315 mills or 0.026 feet. The results are listed in Table 4. The calculated wall hydraulic conductivity ranges from 9×10^{-5} ft/day to 2×10^{-3} ft/day, with a median value of 1.2×10^{-3} ft/day.

E. Comparison of values from 1990 and 2004 water levels

The wall hydraulic conductivity values calculated using the 1990 and 2004 water level data are reasonably consistent, with the median value from the 2004 data approximately three times larger than the median value from the 1990 data. This difference is within the uncertainty bounds of the analysis and cannot be reliably used to infer changes in wall conductivity over time.

F. Preliminary estimates of horizontal leakage through the sheet pile wall

The amount of horizontal flow through the sheet pile wall calculated using the current three-dimensional groundwater flow model is approximately 1.8 gallons per minute for the intermediate aquifer and 1.4 gallons per minute for the shallow aquifer. These estimates were derived assuming a wall thickness of 0.026 feet and a wall hydraulic conductivity of 8×10^{-4} ft/day (2.8×10^{-7} cm/s).⁶ These estimates do not include vertical flow along the wall or flow around the edges of the wall. It should be noted that the groundwater model is currently under development and is subject to revision.

⁵ PGG did not use the continuous water level data to estimate hydraulic conductivity values for the wall or the aquifer materials.

⁶ The value of 8×10^{-4} ft/day is the average of the median values listed in Tables 3 and 4.

References

Boateng K. and J. Massmann, 1999. Data Collection, Data Analysis, and Groundwater Modeling Activities Related to the Northwest End of the Barrier Wall, Prepared for Elf Atochem North America, October 1999.

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ICF Technology, Inc., (1991). Results of the ERA Barrier Monitoring Program at the Atochem North America Tacoma Facility, Prepared for Atochem North America, February, 1991. 150 pp.

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Table 2. Estimates of shoreline hydraulic conductivity using 1990 pre-wall tidal fluctuations.

	I-15S	K-32S	I-13S	K-11S	K-33S	Median
Time lag (mins)	15	160	50	25	10	
Dampening ratio	0.787	0.359	0.754	0.864	0.772	
Average K/Ss (ft ² /day)	4.18E+05	1.05E+04	1.17E+05	4.58E+05	4.13E+05	
Ss from K=40 ft/day (1/ft)	9.88E-05	3.92E-03	3.52E-04	9.00E-05	1.00E-04	1.00E-04
K from Ss=1.0E-4 ft-1 (ft/d)	42	1	12	46	41	41
Soil type from boring log ¹	SP	SP	CH-SP	SP	SP	SP

¹Based on Unified Soil Classification System. SP=Poorly-graded sand. CH=Inorganic clays.

Table 3. Estimates of shoreline hydraulic conductivity using 1990 post-wall tidal fluctuations.

	K-32S	I-13S	K-11S	K-33S	Median
Distance from water (ft)	50	50	50	50	
Time lag (mins)	265	140	125	75	
Dampening ratio	0.121	0.192	0.196	0.300	
Average K/Ss (ft ² /day)	3.20E+03	7.41E+03	8.09E+03	1.65E+04	
Ss from K=0.77 ft/day (1/ft)	2.42E-04	1.05E-04	9.58E-05	4.69E-05	1.00E-04
K from Ss=1.0E-4 ft-1 (ft/d)	0.32	0.74	0.81	1.65	0.77
K from pre-wall data (ft/d)	1	12	46	41	
% Reduction in K	69.6%	93.7%	98.2%	96.0%	
Wall K (ft/d)¹	2.39E-04	4.11E-04	4.28E-04	8.95E-04	4.20E-04
Wall K (cm/s)	8.45E-08	1.45E-07	1.51E-07	3.16E-07	1.48E-07

¹ Assumes wall thickness of 0.315 inches or 0.026 feet

Table 4. Estimates of wall hydraulic conductivity using 2004 tidal fluctuation data.

	6D2-2	SW1-2	SW9-2	SW5-2	SW8-2	SW7-2	7D1-2	SW4-2	Median
Transect Group	A	A	C	C	D	D	E	E	
Wall Position	Inside	Outside	Inside	Outside	Inside	Outside	Inside	Outside	
Distance from water (ft)	27.26	19.29	37.77	20.08	35.07	14.63	29.6	14.81	
Time lag (mins)	1530	75	1380	45	1395	10	1560	60	
Average K/S _s (ft ² /d)	496	9,779	681	21,102	559	188,177	213	5,318	
% Reduction in K	94.93%		96.78%		99.70%		96.00%		
Average K with the wall ¹	2.03		1.29		0.12		1.60		
Wall K (ft/d)²	2.04E-03		9.18E-04		8.83E-05		1.46E-03		1.19E-03
Wall K (cm/s)	7.19E-07		3.24E-07		3.11E-08		5.16E-07		4.20E-07

¹Based on assumed intermediate aquifer conductivity of 40 ft/day.²Assumes wall thickness of 0.315 inches or 0.026 feet

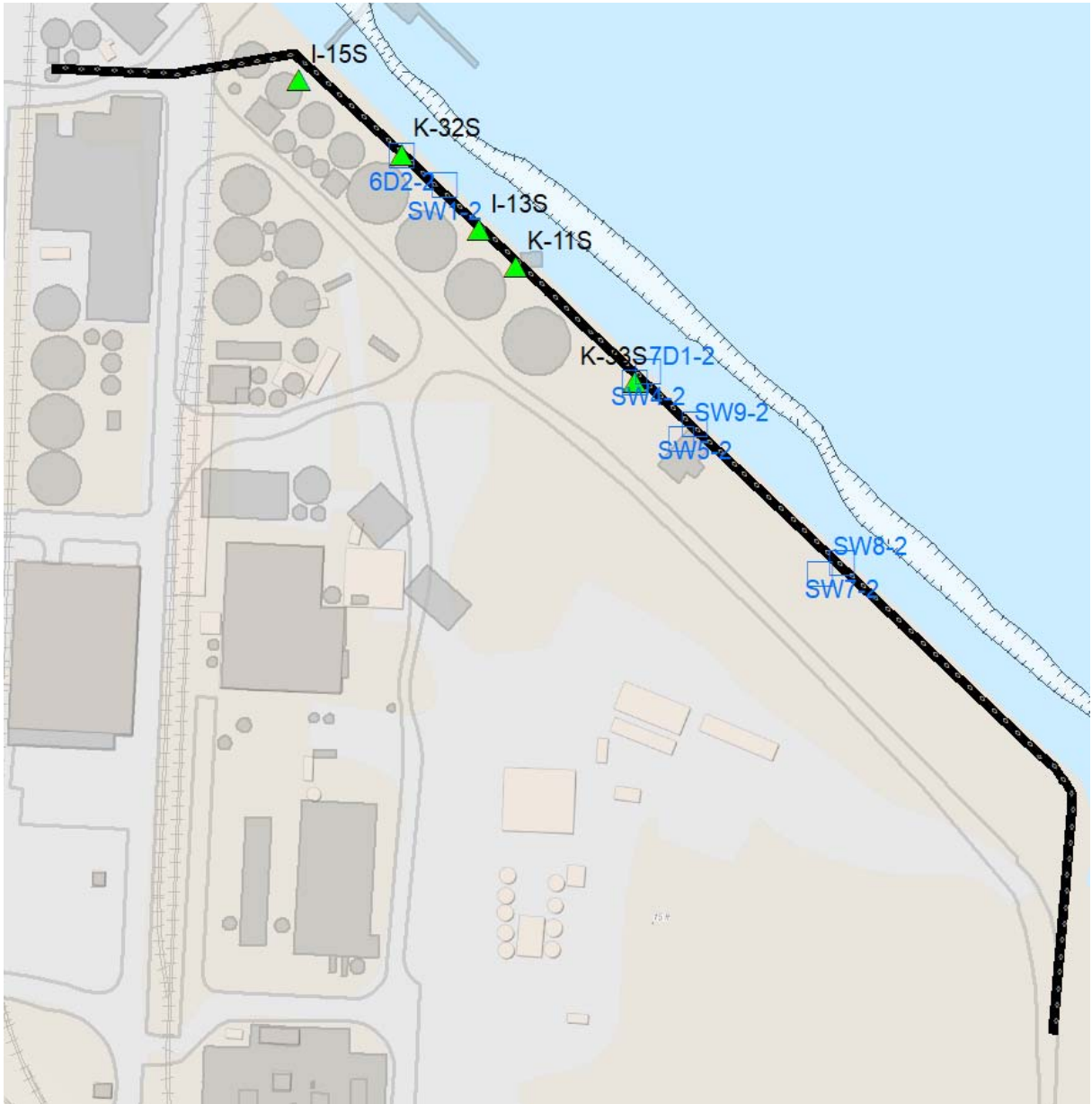


Figure 1. Locations of wells.