### Dzus Fastener Company- Site Sample Review Form

Prepared for Sample: WWTP EFF 111419, Sampled 11-14-19

Prepared by: James B. Hyzy, PhD

Date: 11/19/19

This memorandum summarizes the results of the internal data quality review assessment for the above referenced sample conducted by Sevenson Environmental Services, Inc. personnel as part of its Corporate Data Quality Assurance Program. All results have been evaluated relative to the site-specific UFP-QAPP. <u>Data validation was performed manually, and was not subjected to automated data review as outlined in the UFP-QAPP</u>. Accordingly, the analyses performed are of acceptable data quality.

Analytical results from the sample event were compared against the Project Action Limits listed in the Memorandum issued by Donald E. Canestrari, Chief, Central Permit Section, BWP, DOW, to Sarah Saucier, Section A, Remedial Bureau E, DER, dated November 8, 2019.

No exceedances were noted.

"I, the undersigned, as authorized by my company, certify that I have reviewed the data and find it to be as presented above."

Approved by:

James B, Hyzy, PhD Project Chemist

Sevenson Environmental Services, Inc.





November 18, 2019

Rob Volker Sevenson Environmental Services 2749 Lockport Road Niagara Falls, NY 14305

RE: Project: DZUS FASTENER-TREATED DISCHARG

Pace Project No.: 70111915

### Dear Rob Volker:

Enclosed are the analytical results for sample(s) received by the laboratory on November 14, 2019. 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,

Jennifer Aracri

jennifer.aracri@pacelabs.com

(631)694-3040 Project Manager

**Enclosures** 

cc: James Hyzy, Sevenson Environmental Services Konor Krueger, Sevenson Environmental Services Tony Portfilio, Sevenson Environmental Services Daniel Ruff, Sevenson Environmental Services







### **CERTIFICATIONS**

Project:

DZUS FASTENER-TREATED DISCHARG

Pace Project No.:

70111915

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747 New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158 Pennsylvania Certification #: 68-00350 Connecticut Certification #: PH-0435 Maryland Certification #: 208

Rhode Island Certification #: LAO00340 Massachusetts Certification #: M-NY026 New Hampshire Certification #: 2987





# **SAMPLE SUMMARY**

Project:

DZUS FASTENER-TREATED DISCHARG

Pace Project No.: 70111915

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70111915001	WWTP EFF 111419	Water	11/14/19 15:13	11/14/19 17:14
70111915002	WWTP EFF 111419 DUP	Water	11/14/19 15:13	11/14/19 17:14



# **SAMPLE ANALYTE COUNT**

Project:

DZUS FASTENER-TREATED DISCHARG

Pace Project No. 70111915

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70111915001	WWTP EFF 111419	EPA 6010C	JMW	6
		SM22 2540C	KS1	1
		SM22 2540D	KS1	1
		EPA 9014 Total Cyanide	JM3	1
70111915002	WWTP EFF 111419 DUP	EPA 6010C	JMW	6
		SM22 2540C	KS1	1
		SM22 2540D	KS1	1
		EPA 9014 Total Cyanide	JM3	1





Project:

DZUS FASTENER-TREATED DISCHARG

Pace Project No.:

70111915

Method: Description: 6010 MET ICP

**EPA 6010C** 

Cllent:

Sevenson Environmental Services

Date:

November 18, 2019

### General Information:

2 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### **Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:





Project:

DZUS FASTENER-TREATED DISCHARG

Pace Project No.:

70111915

Method: S

SM22 2540C

**Description:** 2540C Total Dissolved Solids **Client:** Sevenson Environmental Services

Date:

November 18, 2019

### **General Information:**

2 samples were analyzed for SM22 2540C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### **Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### **Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### **Additional Comments:**





Project:

DZUS FASTENER-TREATED DISCHARG

Pace Project No.:

70111915

Method:

SM22 2540D

Client:

**Description: 2540D Total Suspended Solids** Sevenson Environmental Services

Date:

November 18, 2019

### General Information:

2 samples were analyzed for SM22 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### **Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### **Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 138775

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 664746)
  - Total Suspended Solids

QC Batch: 138776

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 664751)
  - Total Suspended Solids

### **Additional Comments:**





Project:

DZUS FASTENER-TREATED DISCHARG

Pace Project No.:

70111915

Method:

EPA 9014 Total Cyanide Description: 9014 Cyanide, Total

Client:

Sevenson Environmental Services

Date:

November 18, 2019

### General information:

2 samples were analyzed for EPA 9014 Total Cyanide. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### **Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 9010C with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### **Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



# **ANALYTICAL RESULTS**

Project:

DZUS FASTENER-TREATED DISCHARG

Pace Project No.: 70111915

Date: 11/18/2019 05:39 PM

Sample: WWTP EFF 111419	Lab ID:	70111915001	Collecte	d: 11/14/19	15:13	Received: 11/	14/19 17:14 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MÐL	DF	Prepared	Analyzed	CAS No.	Qua
6010 MET ICP	Analytical	Method: EPA 60	10C Prep	aration Me	hod: El	PA 3005A			
Aluminum	389	ug/L (,100	200	33,4	1	11/15/19 10:01	11/18/19 14:17	7429-90-5	
Cadmium	1.5J	ug/L 📆	2.5	0.84	1	11/15/19 10:01	11/18/19 14:17	7440-43-9	
Chromium	<10.0	ug/L 240	10.0	1.5	1	11/15/19 10:01	11/18/19 14:17	7440-47-3	
Iron	1390	ug/L 3,500	20.0	5.7	1	11/15/19 10:01	11/18/19 14:17	7439-89-6	
Lead	<5.0	ug/L IC	5.0	4.3	1	11/15/19 10:01	11/18/19 14:17	7439-92-1	
Zinc	<b>5.1</b> J	ug/L 760	20.0	4.8	1	11/15/19 10:01	11/18/19 14:17	7440-66-6	
2540C Total Dissolved Solids	Analytical	Method: SM22	2540C						
Total Dissoived Solids	386	mg/L	20.0	6.0	1		11/15/19 10:46		
2540D Total Suspended Solids	Analytical	Method: SM22	2540D						
Total Suspended Solids	10.4	mg/L	2.0		1		11/15/19 14:06		
9014 Cyanide, Total	Analytical	Method: EPA 90	14 Total C	yanide Pre	paratio	n Method: EPA 90	010C		
Cyanide	2.7J	32 ug/L	10.0	2.0	1	11/15/19 08:03	11/15/19 16:08	57-12-5	



### **ANALYTICAL RESULTS**

Project:

DZUS FASTENER-TREATED DISCHARG

Pace Project No.: 70111915

Date: 11/18/2019 05:39 PM

Sample: WWTP EFF 111419 DUP	Lab ID:	70111915002	Collecte	d: 11/14/19	15:13	Received: 11/	14/19 17:14 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit -	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 60	10C Prep	aration Me	hod: El	PA 3005A			
Aluminum	384	ug/L (,100	200	33.4	1	11/15/19 10:01	11/18/19 14:22	7429-90-5	
Cadmium	1.4J	ug/L 👍	2.5	0.84	1	11/15/19 10:01	11/18/19 14:22	7440-43-9	
Chromium	<10.0	ug/L 740	10.0	1.5	1	11/15/19 10:01	11/18/19 14:22	7440-47-3	
Iron	1400	ug/L 3,5∞	20.0	5.7	1	11/15/19 10:01	11/18/19 14:22	7439-89-6	
Lead	<5.0	ug/L 😥	5.0	4,3	1	11/15/19 10:01	11/18/19 14:22	7439-92-1	
Zinc	9.8J	ug/L 760	20.0	4.8	1	11/15/19 10:01	11/18/19 14:22	7440-66-6	
2540C Total Dissolved Solids	Analytical	Method: SM22	2540C						
Total Dissolved Solids	404	mg/L	20.0	6.0	1		11/15/19 10.46		
2540D Total Suspended Solids	Analytical i	Method: SM22 :	2540D						
Total Suspended Solids	9.2	mg/L	2.0		1		11/15/19 14:18		
9014 Cyanide, Total	Analytical I	Method: EPA 90	114 Total C	yanide Pre	paratio	n Method: EPA 90	010C		
Cyanide	2.0J	ug/L 3L	10.0	2.0	1	11/15/19 08:03	11/15/19 16:08	57-12-5	



Project:

DZUS FASTENER-TREATED DISCHARG

Pace Project No.:

70111915

QC Batch:

138749

Analysis Method:

EPA 6010C

QC Batch Method:

EPA 3005A

Analysis Description:

6010 MET Water

Associated Lab Samples: 70111915001, 70111915002

METHOD BLANK: 664615

Matrix: Water

Associated Lab Samples: 70111915001, 70111915002

Date: 11/18/2019 05:39 PM

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers	-
Aluminum	ug/L	<200	200	33.4	11/18/19 14:11		
Cadmium	ug/L	<2.5	2.5	0.84	11/18/19 14:11		
Chromium	ug/L	<10.0	10.0	1.5	11/18/19 14:11		
Iron	ug/L	<20.0	20.0	5.7	11/18/19 14:11		
Lead	ug/L	<5.0	5.0	4.3	11/18/19 14:11		
Zinc	ug/L	<20.0	20.0	4.8	11/18/19 14:11		

		Spike	LCS	LCS	% Rec		
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers	
Aluminum	ug/L	5000	4970	99	80-120		
Cadmium	ug/L	50	51.3	103	80-120		
Chromium	ug/L	250	247	99	80-120		
Iron	ug/L	2000	2010	100	80-120		
Lead	ug/L	500	506	101	80-120		
Zinc	ug/L	1000	1000	100	80-120		

MATRIX SPIKE SAMPLE:	664618							_
Parameter	Units	70111915001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	A
Aluminum	ug/L	389	5000	5510	102	75-125		. `
Cadmium	ug/L	1.5J	50	53.7	104	75-125		
Chromium	ug/L	<10.0	250	256	102	75-125		
Iron	ug/L	1390	2000	3380	100	75-125		
Lead	ug/L	<5.0	500	520	104	75-125		
Zinc	ug/L	5.1J	1000	1030	102	75-125		

SAMPLE DUPLICATE: 664617		70111915001	Dup		Max		
Parameter	Units	Result	Result	RPD	RPD	Qualifiers	
Aluminum	ug/L	389	384	1	20		
Cadmium	ug/L	1.5J	1.5J		20		
Chromium	ug/L	<10.0	<10.0		20		
Iron	ug/L	1390	1370	1	20		
Lead	ug/L	< 5.0	<5.0		20		
Zinc	ug/L	5.1J	5.0J		20		

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**



Project: DZUS FASTENER-TREATED DISCHARG

Pace Project No.: 70111915

LABORATORY CONTROL SAMPLE:

QC Batch: 138702 Analysis Method: SM22 2540C

QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 70111915001, 70111915002

METHOD BLANK: 664423 Matrix: Water

Associated Lab Samples: 70111915001, 70111915002

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L <10.0 10.0 3.0 11/15/19 10:04

Spike LCS LCS % Rec

Parameter Units Conc. Result % Rec Limits Qualifiers

Total Dissolved Solids mg/L 500 552 110 85-115

MATRIX SPIKE SAMPLE: 664426 70111309001 Spike MS MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers **Total Dissolved Solids** mg/L 177 300 466 96 75-125

 MATRIX SPIKE SAMPLE:
 664428

 70111413003
 Spike
 MS
 MS
 Rec

 Parameter
 Units
 Result
 Conc.
 Result
 % Rec
 Limits
 Qualifiers

Total Dissolved Solids mg/L 150 300 463 104 75-125

SAMPLE DUPLICATE: 664425 70111309001 Dup Max Parameter Units Result Result RPD **RPD** Qualifiers 177 **Total Dissolved Solids** mg/L 169 5 5

SAMPLE DUPLICATE: 664427 70111413003 Dup Max Parameter Units Result Result RPD RPD Qualifiers 150 **Total Dissolved Solids** mg/L 156 5

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**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



Project:

DZUS FASTENER-TREATED DISCHARG

Pace Project No.:

70111915

QC Batch:

138775

QC Batch Method:

SM22 2540D

Analysis Method:

SM22 2540D

Analysis Description:

2540D Total Suspended Solids

METHOD BLANK: 664744

Matrix: Water

Associated Lab Samples:

Total Suspended Solids

Associated Lab Samples:

70111915001

70111915001

Blank

Reporting Limit

Parameter

Units

mg/L

Units

mg/L

mg/L

Result <0.50 MDL

0.50

Analyzed 11/15/19 13:31 Qualifiers

LABORATORY CONTROL SAMPLE: Parameter

664745

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

SAMPLE DUPLICATE:

**Total Suspended Solids** 

Date: 11/18/2019 05:39 PM

Total Suspended Solids

664746 Parameter Units

70111321001 Result

154

200

Dup Result

164

10.0

190

RPD

6

4

95

Max **RPD** 

85-115

Qualifiers

5 D6

5

SAMPLE DUPLICATE: 664747

70111915001 Parameter Units Result Total Suspended Solids mg/L 10.4

Dup Result

RPD

Max RPD

Qualifiers

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.



Project:

DZUS FASTENER-TREATED DISCHARG

Pace Project No.:

70111915

QC Batch:

138776

SM22 2540D

Analysis Method

SM22 2540D

QC Batch Method:

Analysis Description:

2540D Total Suspended Solids

METHOD BLANK: 664748

Associated Lab Samples:

**Total Suspended Solids** 

Matrix: Water

Associated Lab Samples:

70111915002

70111915002

Blank

Reporting Limit

0.50

Parameter

Units mg/L

Units

mg/L

Units

mg/L

Result < 0.50 MDL

Analyzed 11/15/19 14:18 Qualifiers

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

664749

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

85-115

Qualifiers

SAMPLE DUPLICATE:

**Total Suspended Solids** 

Total Suspended Solids

664750

70111948002 Result

8.4

6.8

200

Dup Result

8.8

180

**RPD** 

5

90

Max RPD

5

Qualifiers

SAMPLE DUPLICATE: 664751

Total Suspended Solids

Date: 11/18/2019 05:39 PM

Parameter

70111803001 Units Result

mg/L

Dup

Result **RPD** 6.4 6

Max RPD

Qualifiers

5 D6

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.



Project:

DZUS FASTENER-TREATED DISCHARG

Pace Project No.:

70111915

QC Batch:

138705

Analysis Method

EPA 9014 Total Cyanide

QC Batch Method:

EPA 9010C

Analysis Description:

Matrix: Water

9014 Cyanide, Total

Associated Lab Samples:

ples: 70111915001, 70111915002

METHOD BLANK: 664435

004400

. .

Reporting

Associated Lab Samples:

70111915001, 70111915002

Blank Result

eporung Limit MDL

Qualifiers

Parameter Cyanide Units ug/L

Units

ug/L

Units

ug/L

Units

ug/L

<10.0

10.0

2.0 11/15/19 14:57

Analyzed

Qualificia

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

Parameter

364436

Spike Conc.

75

Result

<10.0

<10.0

LCS Result LCS % Rec % Rec Limits

Qualifiers

MATRIX SPIKE SAMPLE:

SAMPLE DUPLICATE:

Date: 11/18/2019 05:39 PM

Cyanide

664437

70111141004

Spike Conc.

100

<10.0

65.0

MS Result

87

110

MS % Rec

85-115

% Rec

Qualifiers

Cyanide

Cyanide

664438

70111141004 Result Dup Result

RPD

Max RPD

108

Qualifiers

75-125

20

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.





### **QUALIFIERS**

Project:

DZUS FASTENER-TREATED DISCHARG

Pace Project No.:

70111915

### **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.

### **ANALYTE QUALIFIERS**

Date: 11/18/2019 05:39 PM

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.



# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

DZUS FASTENER-TREATED DISCHARG

Pace Project No.: 70111915

Date: 11/18/2019 05:39 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70111915001 70111915002	WWTP EFF 111419 WWTP EFF 111419 DUP	EPA 3005A EPA 3005A	138749 138749	EPA 6010C EPA 6010C	138758 138758
70111915001 70111915002	WWTP EFF 111419 WWTP EFF 111419 DUP	SM22 2540C SM22 2540C	138702 138702		
70111915001	WWTP EFF 111419	SM22 2540D	138775		
70111915002	WWTP EFF 111419 DUP	SM22 2540D	138776		
70111915001 70111915002	WWTP EFF 111419 WWTP EFF 111419 DUP	EPA 9010C EPA 9010C	138705 138705	EPA 9014 Total Cyanide EPA 9014 Total Cyanide	138754 138754

WO#:70111915

# CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT, All relevant fields must be completed accurately.

		Section C Invoice Information:	រកាឧប៉ុហ:		[	Page:	1 Of
ental Services	Report To: James Hyzy	Attention:					
ರಾವ	Сору То:	Сопралу Мапа	278				
tagara Fells, NY 14305	Program Order II.	Address airre Orire			1	Regul	Regulatory Agency
Fax	Project Name: Dank Pastener-Treated Discharge Water		: Manager ismute, araci@oacelabs com	scelabs com		Stat	State / Location
トセナ			0				NY
	(ગ્રહ્મ		N/A	Requested Analy	Requested Analysis Filtered (YM)		
WARK Devise Week Was Water Was Water Was Water Was Water Was Was Water Period	S WAY		Salves Andrews	nZ,dq,e		(VIV) e	
enb	A S & & DATE TYPE (	H380V Pubkoservod SAMPLE TEMP AT	HOO3 HCI NaCOSCO3 Mulhanol Mulhanol Olitor Spayleas	Tokal A.Cd,Cr. F. TDS & TSS Total Cyanida		Rosidual Chlorin	
WWTP EFF 111419	15:13	93	3 3	2%		10	1000
	72	-~1					É
51							
ADDITIONAL COMMENTS	RELINGUISHED BY / AFFILIATION	DATE TIME	ACCEPTED BY / AFFILIATION	TLIATION	DATE TH	Takte	SAMPLE CONDITIONS
24 hr TAT	Robert-volver/ses 11	一十一一八次	4 ruell 1	PYELL	114/11/17	144,6	V IN IV
CATA	-3	_			-	-	3
23							
	SAMPLER NAME AND SIGNATURE	SIGNATURE					12
	PRINT Name of SAMPLER: SIGNATURE of SAMPLER:	22	Short UdilleR	CATE Signed: ( )	14-19	D rit 9MBT	Received o Custody Custody Cooler (YM) Custody Cooler (YM) Sumples Infect



# Sample Condition Upon Receipt

Paca Analytical	Clienth	l-uno-		Po	WO#:70111915
		MUSON	PROPERTY.		PM: JSA Due Date: 11/19/19
Courier: Fed Ex UPS USPST C	lient []Commo	ercial [] Pace	L Dthei		CLIENT: Sevenson
Tracking #:				000	
Custody Seaf on Cooler/Box Present:			act: Yes	7110	Femperature Blank Present: Yes No
Packing Material. Bubble Wrap Bubbl					Type of Ice: (Wel) Blue None
Thermometer Used: TH091	Correction	on Factor: 🖞	O. L		Samples on ice, cooling process has begun
Cooler Temperature (°C): (1, 5)	Cooler Te	mparature C	orrected (°C)	4,5	Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6.0°C					Mullylia
USDA Regulated Soil ( N/A, water samp					s of person examining contents: (1) 119(/)
Did samples originate in a quarantine zone within th NM, NY, OK, OR, SC, TN, TX, or VA (check map)?	L YESL	3 NO			Oid samples originate from a foreign source (internationally including Hawaii and Puerto Rico)? [] Yes No d Include with SCUR/COC paperwork.
					COMMENTS:
Chain of Custody Present:	QYes	□No	1		
Chain of Custody Filled Out:	QYes	□No_	2.		
Chain of Custody Relinquished.	Slyes	□No	3]		
Sampler Name & Signature on COC:	L)Xes	13No [	DN/A 4-		4
Samples Arrived within Hold Time:	Yes	ONC	5		
Short Hold Time Analysis (<72hr):	□Yes	OND	6.		
Rush Turn Around Time Requested:	QYes	□No	7		
Sufficient Volume: (Triple volume provided for MS/M	SD\QYes	ONo	8,		
Correct Containers Used:	ElYes	□No	9		
Paco Containers Used:	DYes	□No	ų.	\$(4)	*
Containers Intact:	Elyes	□No	10,		
Filtered volume received for Dissolved tests	□Yes	□No □	N/A 11.	Note if se	diment is visible in the dissolved container.
Sample Labels match COC:	Dyes	□No	12		
-Includes date/time/ID/Analysis Matrix St.	W/ OIL				
All containers needing preservation have been check pH paper Lot #	EXes	□No □	EI AIN	□ HNO;	I DH,SO. DNaOH DHCI
All containers needing presupplier are found to be in	H 65	. 8	Sample	11	a
compliance with EPA recommendation? (HNO), H <sub>2</sub> SO <sub>4</sub> , HCl, NaOH>9 Sulfide,	-DYes	ŪN⊃ □	NIA		· .
NACHE12 Cyanide)					
Exceptions: VOA, Coliform, TOC/DOC, Oil and Greas DRO/8015 (water).	90.		Initial v	hen complet	ed. Lot # of added preservative: Date/Time preservative added
Per Method, VOA pH is checked after analysis					
Samples checked for decisionination,	C)Yes		W/A 14		≅ .
KI starch test strips Lot #				Positive for	Res Chlorine? Y N
Residual chloring ships Lul #		DV- 341	Ψ/A 15	1 03414010	The district of the
Headspace in VOA Vials ( >6mm):	□Yes		V/A 16∷		
Trip Blank Present	□Yes		MV.		1
Trip Blank Custody Seals Present	[]Yes	DHO CK			1
Page Trip Blank Lot # (if applicable):			Lindd D	ala Require	1? Y / N
Cliant Notification/ Resolution:			1-1(3)(1-1.7)	na rxeguirei Date/Tim	
Person Contacted				_ Cranter i iii	
Comments/ Resolution:					
and the state of t	-				- Annual Control of the Control of t
					All and the second seco