



IOWA DEPARTMENT OF NATURAL RESOURCES

REQUEST FOR SPECIAL WASTE AUTHORIZATION



Check one of the following:

☐ New Application

☒ Renewal, Existing SWA #:

84-SWA-36-22

The intent of a special waste authorization is to provide safe and proper management for disposal of wastes which present a threat to human health or the environment or a waste with inherent properties which make the disposal of the waste in a sanitary landfill difficult to manage. It is each landfill's responsibility to inform the waste generator if a waste should be handled as a special waste and to ensure that special wastes delivered to the landfill conform to the Special Waste Acceptance Criteria (SWAC) on file with the Department. It is the Department's responsibility to review each application for a special waste authorization to verify that the proposed waste can be landfilled under the current regulations in Iowa.

READ THE FOLLOWING INSTRUCTIONS BEFORE COMPLETING THIS APPLICATION

Waste Generator:

1. Complete Sections 1-3 of this application applicable to the waste characterization and disposal information.
2. Attach Toxicity Characteristic Leaching Procedure (TCLP) test results, material safety data sheet(s) (MSDS), or evidence of "processor knowledge" when appropriate that demonstrates the waste is not considered a characteristic hazardous waste exhibiting the properties of flammability, corrosivity, reactivity or toxicity or a listed hazardous waste as defined in 40 CFR Part 261, Subpart D.
3. Provide signature in Section 3 to verify that the information provided is true, accurate and complete.
4. Mail or deliver the completed application with attachments to the requested disposal destination (*must be a landfill that is authorized to accept waste from the service area of where the waste was generated*). Please contact Mike Smith at (515) 229-8356 for a list of landfills authorized to accept waste from the service area in which your facility is located.

Receiving Landfill: Prior review of this application by the receiving landfill allows the department to more quickly process and evaluate the application.

1. Complete Section 5 of this application applicable to the landfill.
2. Indicate by signing the application that the landfill is willing to accept the waste if a Special Waste Authorization is issued by the department and if instructions for disposal of the waste, as contained in the landfill's SWAC, are followed by the generator.
3. Attach SWAC procedures for disposal of the waste.
4. Keep 1 copy for your records and submit the remaining one copy of the completed application with attachments (TCLP, MSDS, SWAC, etc.) to the department at the following address, or email to mike.smith@dnr.iowa.gov:

Iowa Department of Natural Resources
Land Quality Bureau- Attn: Mike Smith
6200 Park Ave Ste 200
Des Moines, IA 50321

Applications will be considered incomplete if not signed by both the waste generator and receiving landfill. The receiving landfill must attach a copy of the SWAC for the particular waste for which the application has been submitted.

Written notification of approval or rejection will be mailed or emailed to the generator and landfill. If approved, a copy of the authorization must accompany the waste hauler to the landfill.

For questions concerning this application contact Mike Smith at (515) 229-8356 or mike.smith@dnr.iowa.gov.

SECTION 1: WASTE GENERATOR INFORMATION

Name of Primary Contact* Spencer Brothersen **Title** Sr. Environmental Engineer

**SWA approvals will be sent to this person at the address provided below.*

Company Name A&I Products, Rock Valley

Mailing Address 1100 10th Street

City Rock Valley **State** Iowa **Zip Code** 51247

Telephone # 3092071739 **Email Address** BrothersenSpencer@JohnDeere.com

Address or location of the point of generation of the waste, if different from the company address:

Address 1020 22nd Ave

City Rock Valley **State** Iowa **Zip Code** 51247

SECTION 2: WASTE CHARACTERIZATION

Waste determined to be hazardous may not be landfilled in Iowa. Attach TCLP analysis that demonstrates the waste is not considered hazardous. For raw or virgin materials being disposed of, a MSDS that indicates the waste is not hazardous may be submitted in lieu of a TCLP analysis.

The generator may also apply knowledge of the hazardous characteristic(s) of the waste in light of the materials or the processes used ("knowledge of process"). In order to use knowledge to characterize the waste, the knowledge that is applied must be valid and verifiable and the generator must be able to demonstrate the basis for their claim by providing supporting information to justify that conclusion.

Name and description of waste. Please address any RCRA listings derived from wastes etc., that may be applicable and why these listings would not pertain to the waste:

Weld Filters

Has any pretreatment been utilized? If so, please describe the pretreatment process:

No pretreatment; filters will be placed in cardboard boxes prior to disposal and transit to prevent dusting

List the alternatives to disposal that were analyzed and reason not utilized (*attach extra sheets if necessary*):

Weld filters are a pollution control waste, and due to the internal pleating cannot be sent for scrap metal recovery

Physical state at room temperature? ☒ Solid ☐ Semi-Solid ☐ Liquid
Percent (%) Solid: 100 pH: _____ Flashpoint: _____

Does this waste pass the paint filter liquids test?

Free liquids are prohibited from landfill disposal. Free liquids are defined as the liquid produced when a 100-millimeter or 100-gram representative sample is placed on a standard mesh number 60 (fine mesh size) conical paint filter for five minutes. ☒ Yes ☐ No

Is this waste a listed hazardous waste as identified in 40 CFR 261, Subpart D? Refer to the following web link to find listed hazardous wastes: <http://www.gpoaccess.gov/cfr/index.html> ☐ Yes ☒ No

Does this waste exhibit the property of *ignitability* as defined in 40 CFR 261, Subpart C? ☐ Yes ☒ No

Does this waste exhibit the property of *corrosivity* as defined in 40 CFR 261, Subpart C? ☐ Yes ☒ No

Does this waste exhibit the property of *reactivity* as defined in 40 CFR 261, Subpart C? ☐ Yes ☒ No

Does this waste exhibit the property of *toxicity* as defined in 40 CFR 261, Subpart C? ☐ Yes ☒ No

SECTION 3: WASTE DISPOSAL INFORMATION

Indicate the proposed disposal location and if this is a request for an ongoing disposal of a special waste or a one-time disposal. If on going, indicate the approximate amount in pounds to be disposed of quarterly.

Landfill Name* Northwest Iowa Area Sanitary Landfill

**List only a landfill that is authorized to accept waste from the service area of where the waste was generated. Sue Johnson at (515) 217-0872 or susan.johnson@dnr.iowa.gov for a list of landfills authorized to accept waste from your facility.*

☒ Ongoing (or intermittent) with an average disposal rate per quarter of 70 pounds

Indicate the amount on hand to be disposed of immediately: _____ pounds

☐ One time only, with an estimated quantity of _____ pounds

SECTION 4: WASTE GENERATOR CERTIFICATION

"I certify under penalty of law (§455B.417.1(c), Code of Iowa) that I have examined and am familiar with the information submitted in this document concerning hazardous waste, and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete."

Applicant Signature: 

Date: 10/16/26

Printed Name: Spencer Brothersen

Title: Sr. Environmental Engineer

See Landfill Information on the following page.

SECTION 5: LANDFILL INFORMATION

The following section is to be completed by the receiving landfill. By signing below, the landfill verifies that the application has been examined and if approved by the department, is willing to accept the waste described within, provided that instructions for disposal of the waste, as contained in the landfill's Special Waste Acceptance Criteria, are followed by the generator.

Prior review of this application by the receiving landfill will allow the department to more quickly process and evaluate the application. Please address the following:

Indicate the properties that lead you to believe this is a special waste:

Indicate any special handling procedures that the waste generator must follow prior to delivery at the landfill:

Name of Responsible Official*: _____

**SWA approvals will be sent to this person at the address given below.*

Solid Waste Agency Name _____

Mailing Address _____

City _____ **State** _____ **Zip Code** _____

Telephone # _____ **Email Address** _____

Responsible Official Signature: _____ **Date:** _____

ANALYTICAL REPORT

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-236591-1
Client Project/Site: Weld Filter SWA

For:

John Deere & Co
1600 First Ave East
Milan, Illinois 61264

Attn: Josh Grundall



Authorized for release by:

8/2/2022 12:42:31 PM

Brian Graettinger, Lab Director
(319)595-2012

Brian.Graettinger@et.eurofinsus.com

Designee for

Shirley Thompson, Client Service Manager
(319)277-2401

Shirley.Thompson@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Sample Summary	4
Detection Summary	5
Client Sample Results	6
Definitions	7
QC Sample Results	8
QC Association	9
Chronicle	10
Certification Summary	11
Method Summary	12
Chain of Custody	13
Receipt Checklists	15



Case Narrative

Client: John Deere & Co
Project/Site: Weld Filter SWA

Job ID: 310-236591-1

Job ID: 310-236591-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative
310-236591-1

Comments

No additional comments.

Receipt

The sample was received on 7/23/2022 9:30 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: John Deere & Co
Project/Site: Weld Filter SWA

Job ID: 310-236591-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-236591-1	Weld Filters	Solid	07/21/22 08:00	07/23/22 09:30

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: John Deere & Co
Project/Site: Weld Filter SWA

Job ID: 310-236591-1

Client Sample ID: Weld Filters

Lab Sample ID: 310-236591-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.155		0.0200		mg/L	1		6010C	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: John Deere & Co
Project/Site: Weld Filter SWA

Job ID: 310-236591-1

Client Sample ID: Weld Filters

Lab Sample ID: 310-236591-1

Date Collected: 07/21/22 08:00

Matrix: Solid

Date Received: 07/23/22 09:30

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.200		0.200		mg/L		07/29/22 09:00	08/01/22 19:16	1
Barium	<0.500		0.500		mg/L		07/29/22 09:00	08/01/22 19:16	1
Cadmium	<0.0200		0.0200		mg/L		07/29/22 09:00	08/01/22 19:16	1
Chromium	0.155		0.0200		mg/L		07/29/22 09:00	08/01/22 19:16	1
Lead	<0.100		0.100		mg/L		07/29/22 09:00	08/01/22 19:16	1
Selenium	<0.100		0.100		mg/L		07/29/22 09:00	08/01/22 19:16	1
Silver	<0.0200		0.0200		mg/L		07/29/22 09:00	08/01/22 19:16	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		07/28/22 13:50	07/29/22 15:18	1

Definitions/Glossary

Client: John Deere & Co
Project/Site: Weld Filter SWA

Job ID: 310-236591-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Sample Results

Client: John Deere & Co
Project/Site: Weld Filter SWA

Job ID: 310-236591-1

Method: 6010C - Metals (ICP)

Lab Sample ID: LB 310-360815/1-B

Matrix: Solid

Analysis Batch: 361288

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 360885

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.200		0.200		mg/L		07/29/22 09:00	08/01/22 19:10	1
Barium	<0.500		0.500		mg/L		07/29/22 09:00	08/01/22 19:10	1
Cadmium	<0.0200		0.0200		mg/L		07/29/22 09:00	08/01/22 19:10	1
Chromium	<0.0200		0.0200		mg/L		07/29/22 09:00	08/01/22 19:10	1
Lead	<0.100		0.100		mg/L		07/29/22 09:00	08/01/22 19:10	1
Selenium	<0.100		0.100		mg/L		07/29/22 09:00	08/01/22 19:10	1
Silver	<0.0200		0.0200		mg/L		07/29/22 09:00	08/01/22 19:10	1

Lab Sample ID: LCS 310-360815/2-B

Matrix: Solid

Analysis Batch: 361288

Client Sample ID: Lab Control Sample

Prep Type: TCLP

Prep Batch: 360885

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	4.00	4.032		mg/L		101	80 - 120
Barium	2.00	1.936		mg/L		97	80 - 120
Cadmium	2.00	1.883		mg/L		94	80 - 120
Chromium	2.00	1.948		mg/L		97	80 - 120
Lead	4.00	3.745		mg/L		94	80 - 120
Selenium	8.00	7.916		mg/L		99	80 - 120
Silver	2.00	2.020		mg/L		101	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-360815/1-C

Matrix: Solid

Analysis Batch: 361067

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 360910

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		07/28/22 14:50	07/29/22 15:03	1

Lab Sample ID: LCS 310-360815/2-C

Matrix: Solid

Analysis Batch: 361067

Client Sample ID: Lab Control Sample

Prep Type: TCLP

Prep Batch: 360910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0167	0.01715		mg/L		103	80 - 120

Eurofins Cedar Falls

QC Association Summary

Client: John Deere & Co
Project/Site: Weld Filter SWA

Job ID: 310-236591-1

Metals

Leach Batch: 360815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-236591-1	Weld Filters	TCLP	Solid	1311	
LB 310-360815/1-B	Method Blank	TCLP	Solid	1311	
LB 310-360815/1-C	Method Blank	TCLP	Solid	1311	
LCS 310-360815/2-B	Lab Control Sample	TCLP	Solid	1311	
LCS 310-360815/2-C	Lab Control Sample	TCLP	Solid	1311	

Prep Batch: 360885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-236591-1	Weld Filters	TCLP	Solid	3010A	360815
LB 310-360815/1-B	Method Blank	TCLP	Solid	3010A	360815
LCS 310-360815/2-B	Lab Control Sample	TCLP	Solid	3010A	360815

Prep Batch: 360910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-236591-1	Weld Filters	TCLP	Solid	7470A	360815
LB 310-360815/1-C	Method Blank	TCLP	Solid	7470A	360815
LCS 310-360815/2-C	Lab Control Sample	TCLP	Solid	7470A	360815

Analysis Batch: 361067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-236591-1	Weld Filters	TCLP	Solid	7470A	360910
LB 310-360815/1-C	Method Blank	TCLP	Solid	7470A	360910
LCS 310-360815/2-C	Lab Control Sample	TCLP	Solid	7470A	360910

Analysis Batch: 361288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-236591-1	Weld Filters	TCLP	Solid	6010C	360885
LB 310-360815/1-B	Method Blank	TCLP	Solid	6010C	360885
LCS 310-360815/2-B	Lab Control Sample	TCLP	Solid	6010C	360885

Lab Chronicle

Client: John Deere & Co
Project/Site: Weld Filter SWA

Job ID: 310-236591-1

Client Sample ID: Weld Filters

Lab Sample ID: 310-236591-1

Date Collected: 07/21/22 08:00

Matrix: Solid

Date Received: 07/23/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			360815	07/27/22 14:50	AEE6	TAL CF
TCLP	Prep	3010A			360885	07/29/22 09:00	QTZ5	TAL CF
TCLP	Analysis	6010C		1	361288	08/01/22 19:16	ZRI4	TAL CF
TCLP	Leach	1311			360815	07/27/22 14:50	AEE6	TAL CF
TCLP	Prep	7470A			360910	07/28/22 13:50	XXW3	TAL CF
TCLP	Analysis	7470A		1	361067	07/29/22 15:18	DHM5	TAL CF

Laboratory References:

TAL CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: John Deere & Co
Project/Site: Weld Filter SWA

Job ID: 310-236591-1

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-21 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: John Deere & Co
Project/Site: Weld Filter SWA

Job ID: 310-236591-1

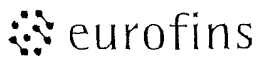
Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
1311	TCLP Extraction	SW846	TAL CF
3010A	Preparation, Total Metals	SW846	TAL CF
7470A	Preparation, Mercury	SW846	TAL CF

Protocol References:

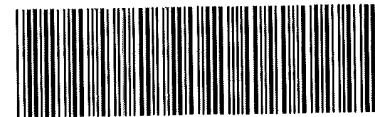
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
America



310-236591 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client <u>A31 PRODUCTS, Rock Valley</u>			
City/State:	CITY <u>M. lan</u>	STATE <u>IL</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>7-23-22</u>	TIME <u>430</u>	Received By: <u>EM</u>
Delivery Type: ☐ UPS ☒ FedEx <u>SM</u> ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID: _____
Multiple Coolers?		☐ Yes ☒ No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?		☒ Yes ☐ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☐ Yes ☒ No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): _____	
Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>8.6</u>		Corrected Temp (°C): <u>8.0</u>	
Sample Container Temperature			
Container(s) used:	CONTAINER 1 <u>40ml VOA Vial</u>	CONTAINER 2	
Uncorrected Temp (°C):	<u>9.3</u>	<u>11.9</u>	
Corrected Temp (°C):	<u>9.3</u>	<u>11.9</u>	
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☒ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Login Sample Receipt Checklist

Client: John Deere & Co

Job Number: 310-236591-1

Login Number: 236591

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Homolar, Dana J

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	