



August 12, 2021

**TO:** DAIN NETLAND  
CLOW VALVE  
902 S. 2<sup>ND</sup> STREET  
OSKALOOSA, IA 52577

DEB DANLEY  
MAHASKA CO. SOLID WASTE MANGT.  
2979 HIGHWAY 63  
OSKALOOSA, IA 52577

**Re:** *New Special Waste Authorization # 62-SWA-08-21*

The following special waste authorization (SWA) applies ONLY to the waste generator addressed above. This authorization allows the waste generator to dispose of the special waste referenced in accordance with the instructions, conditions and limitations contained in this SWA. A copy of this SWA must accompany the hauler to the landfill. The waste generator shall notify the department and landfill, prior to disposal, of any change in the characteristics of the special waste being disposed.

The issuance of an SWA does not obligate any waste disposal facility to accept the waste nor does it preclude the facility from imposing restrictions other than those listed in the SWA. The landfill has the final decision whether to accept the special waste. The issuance of an SWA does not exempt the waste generator from any local, state or federal laws or regulations. The department may revoke an SWA for cause at any time.

**WASTE & VOLUME:** Quarterly disposal of approximately 2,000 lbs. of spent powder paint over-spray, with approximately 7,500 pounds for immediate disposal.

**GENERATOR:** Clow Valve  
Dane Netland, (641) 569-6093

**ISSUE DATE:** August 12, 2021

**EXPIRATION DATE:** August 12, 2024

**DISPOSAL SITE:** Mahaska County Solid Waste Management Commission, # 62-SPD-01-74

**SWA CONTACT:** Deb Danley, (641) 673-9266

**Authorized by:** Susan Johnson Digitally signed by Susan Johnson  
Date: 2021.08.12 08:59:29 -05'00'  
Iowa Department of Natural Resources

**If you have questions regarding this authorization, please contact Sue Johnson at 515-217-0872.**

cc: Iowa DNR Field Office #5, Des Moines, IA

## ANALYTICAL REPORT

December 22, 2021

Work Order: 1EL1117

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Report To
Dain Netland Clow Valve Company 902 S 2nd St Oskaloosa, IA 52577

Work Order Information
Date Received: 12/10/2021 9:20AM Collector: Horn, Roger Phone: (641) 673-8611 PO Number: hrhx303

Project : Waste Sampling

Project Number: Metal Casting Facility

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
<b>1EL1117-01</b>	Spent Iron Sand-Metal Casting Facility (Iron)			Matrix:Solid		Collected: 12/09/21 12:01	
Silver (TCLP)	<0.010 mg/L	0.010	1EL0746	EPA 6010B	JAR	12/20/21 11:37	
Arsenic (TCLP)	<0.030 mg/L	0.030	1EL0746	EPA 6010B	JAR	12/20/21 11:37	
<b>Barium (TCLP)</b>	<b>0.332 mg/L</b>	<b>0.010</b>	1EL0746	EPA 6010B	JAR	12/20/21 11:37	
Cadmium (TCLP)	<0.005 mg/L	0.005	1EL0746	EPA 6010B	JAR	12/20/21 11:37	
Chromium (TCLP)	<0.010 mg/L	0.010	1EL0746	EPA 6010B	JAR	12/20/21 11:37	
Mercury (TCLP)	<0.00050 mg/L	0.00050	1EL0774	EPA 7470A	JAR	12/17/21 7:19	
<b>Lead (TCLP)</b>	<b>0.060 mg/L</b>	<b>0.020</b>	1EL0746	EPA 6010B	JAR	12/20/21 11:37	
Selenium (TCLP)	<0.050 mg/L	0.050	1EL0746	EPA 6010B	JAR	12/20/21 11:37	
<b>TCLP pH, Initial</b>	<b>4.9 pH</b>		1EL0616	EPA 1311	BMS	12/14/21 15:29	
<b>TCLP pH, Final</b>	<b>5.0 pH</b>		1EL0616	EPA 1311	BMS	12/14/21 15:29	

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Work Order: 1EL1117

**Determination of TCLP Metals - Quality Control**  
**Keystone Laboratories, Inc. - Newton**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1EL0746 - EPA 3010A TCLP ICP</b>										
<b>Blank (1EL0746-BLK1)</b> Prepared: 12/14/21 Analyzed: 12/20/21										
Arsenic (TCLP)	ND	0.030	mg/L							
Barium (TCLP)	0.0123	0.010	"							QB-03
Cadmium (TCLP)	ND	0.005	"							
Chromium (TCLP)	ND	0.010	"							
Lead (TCLP)	ND	0.020	"							
Selenium (TCLP)	ND	0.050	"							
Silver (TCLP)	ND	0.010	"							
<b>Blank (1EL0746-BLK2)</b> Prepared: 12/14/21 Analyzed: 12/20/21										
Arsenic (TCLP)	ND	0.030	mg/L							
Barium (TCLP)	ND	0.010	"							
Cadmium (TCLP)	ND	0.005	"							QB-12
Chromium (TCLP)	ND	0.010	"							
Lead (TCLP)	ND	0.020	"							
Selenium (TCLP)	ND	0.050	"							
Silver (TCLP)	ND	0.010	"							
<b>Blank (1EL0746-BLK3)</b> Prepared: 12/14/21 Analyzed: 12/20/21										
Arsenic (TCLP)	ND	0.030	mg/L							
Barium (TCLP)	0.0944	0.010	"							QB-03
Cadmium (TCLP)	ND	0.005	"							QB-03
Chromium (TCLP)	ND	0.010	"							QB-12
Lead (TCLP)	0.118	0.020	"							QB-03
Selenium (TCLP)	ND	0.050	"							
Silver (TCLP)	ND	0.010	"							
<b>LCS (1EL0746-BS1)</b> Prepared: 12/14/21 Analyzed: 12/20/21										
Arsenic (TCLP)	0.193	0.030	mg/L	0.200000		96.3	80-120			
Barium (TCLP)	0.200	0.010	"	0.200000		99.9	80-120			
Cadmium (TCLP)	0.196	0.005	"	0.200000		98.2	80-120			
Chromium (TCLP)	0.198	0.010	"	0.200000		99.2	80-120			
Lead (TCLP)	0.192	0.020	"	0.200000		96.1	80-120			
Selenium (TCLP)	0.200	0.050	"	0.200000		100	80-120			
Silver (TCLP)	0.186	0.010	"	0.200000		93.2	80-120			

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Work Order: 1EL1117

## Determination of TCLP Metals - Quality Control

### Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1EL0746 - EPA 3010A TCLP ICP</b>										
<b>Matrix Spike (1EL0746-MS1)</b>										
		<b>Source: 1EL0584-01</b>			Prepared: 12/14/21		Analyzed: 12/20/21			
Arsenic (TCLP)	0.203	0.030	mg/L	0.200000	ND	102	70-130			
Barium (TCLP)	0.211	0.010	"	0.200000	0.00337	104	70-130			
Cadmium (TCLP)	0.200	0.005	"	0.200000	0.004	98.0	70-130			
Chromium (TCLP)	0.210	0.010	"	0.200000	ND	105	70-130			
Lead (TCLP)	0.192	0.020	"	0.200000	ND	96.1	70-130			
Selenium (TCLP)	0.200	0.050	"	0.200000	ND	99.8	70-130			
Silver (TCLP)	0.189	0.010	"	0.200000	ND	94.4	70-130			
<b>Matrix Spike Dup (1EL0746-MSD1)</b>										
		<b>Source: 1EL0584-01</b>			Prepared: 12/14/21		Analyzed: 12/20/21			
Arsenic (TCLP)	0.185	0.030	mg/L	0.200000	ND	92.3	70-130	9.59	20	
Barium (TCLP)	0.206	0.010	"	0.200000	0.00337	102	70-130	2.32	20	
Cadmium (TCLP)	0.205	0.005	"	0.200000	0.004	101	70-130	2.52	20	
Chromium (TCLP)	0.194	0.010	"	0.200000	ND	97.1	70-130	7.92	20	
Lead (TCLP)	0.190	0.020	"	0.200000	ND	95.2	70-130	1.01	20	
Selenium (TCLP)	0.193	0.050	"	0.200000	ND	96.3	70-130	3.57	20	
Silver (TCLP)	0.191	0.010	"	0.200000	ND	95.4	70-130	1.04	20	
<b>Post Spike (1EL0746-PS1)</b>										
		<b>Source: 1EL0584-01</b>			Prepared: 12/14/21		Analyzed: 12/20/21			
Arsenic (TCLP)	0.847		mg/L	0.800000	-0.000896	106	75-125			
Barium (TCLP)	0.858		"	0.800000	0.00337	107	75-125			
Cadmium (TCLP)	0.881		"	0.800000	0.004	110	75-125			
Chromium (TCLP)	0.852		"	0.800000	0.00192	106	75-125			
Lead (TCLP)	0.843		"	0.800000	0.008	104	75-125			
Selenium (TCLP)	0.878		"	0.800000	0.00605	109	75-125			
Silver (TCLP)	0.807		"	0.800000	-0.000708	101	75-125			
<b>Batch 1EL0774 - EPA 7470A Hg Water</b>										
<b>Blank (1EL0774-BLK1)</b>										
					Prepared: 12/15/21		Analyzed: 12/17/21			
Mercury (TCLP)	ND	0.00050	mg/L							

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**Determination of TCLP Metals - Quality Control**  
**Keystone Laboratories, Inc. - Newton**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1EL0774 - EPA 7470A Hg Water</b>										
<b>Blank (1EL0774-BLK2)</b>				Prepared: 12/15/21 Analyzed: 12/17/21						
Mercury (TCLP)	ND	0.00050	mg/L							
<b>Blank (1EL0774-BLK3)</b>				Prepared: 12/15/21 Analyzed: 12/17/21						
Mercury (TCLP)	ND	0.00050	mg/L							
<b>LCS (1EL0774-BS1)</b>				Prepared: 12/15/21 Analyzed: 12/17/21						
Mercury (TCLP)	0.00196	0.00050	mg/L	0.00250000		78.5	79-116			QS-03
<b>Matrix Spike (1EL0774-MS1)</b>				Source: 1EL0584-01 Prepared: 12/15/21 Analyzed: 12/17/21						
Mercury (TCLP)	0.00228	0.00050	mg/L	0.00250000	ND	91.4	56-137			
<b>Matrix Spike Dup (1EL0774-MSD1)</b>				Source: 1EL0584-01 Prepared: 12/15/21 Analyzed: 12/17/21						
Mercury (TCLP)	0.00226	0.00050	mg/L	0.00250000	ND	90.2	56-137	1.27	13	

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**TCLP Extraction - Quality Control**  
**Keystone Laboratories, Inc. - Newton**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1EL0616 - EPA 1311</b>										
<b>Blank (1EL0616-BLK1)</b>										
					Prepared: 12/13/21 Analyzed: 12/14/21					
TCLP pH, Initial	4.9		pH							
TCLP pH, Final	4.9		"							

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

**Certified Analyses included in this Report**

Method/Matrix	Analyte	Certifications
<b>EPA 6010B in Water</b>		
	Arsenic (TCLP)	KS-NT,SIA1X
	Barium (TCLP)	KS-NT,SIA1X
	Cadmium (TCLP)	KS-NT,SIA1X
	Chromium (TCLP)	KS-NT,SIA1X
	Lead (TCLP)	KS-NT,SIA1X
	Selenium (TCLP)	KS-NT,SIA1X
	Silver (TCLP)	KS-NT,SIA1X
<b>EPA 7470A in Water</b>		
	Mercury (TCLP)	IA-NT,KS-NT

Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2022
KS-NT	Kansas Department of Health and Environment (NELAP)	E-10287	10/31/2022
MO-KC	Missouri Department of Natural Resources	140	04/30/2022
SIA1X	Iowa Dept. of Natural Resources (updated certificate pending)	95	02/01/2024

**Notes and Definitions**

- QB-03 The method blank contains analyte at a concentration above the MRL; however concentration is less than 10% of the action level, which is negligible according to method criteria.
- QB-12 The analyte was found in the blank at a concentration greater than one-half the reporting limit. However, the concentration of the analyte in the blank was less than the reporting limit so the data was accepted.
- QS-03 The blank spike recovery was below established acceptance limits.

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End of Report

*Sue Thompson*

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Keystone Laboratories, Inc.

Sue Thompson  
Client Services Manager

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