

February 9, 2026

Iowa Department of Natural Resources
Land Quality Bureau
Solid Waste and Contaminated Sites Section
6200 Park Ave, Ste 200
Des Moines, IA 50321-1371

CON 12-1-1
Doc # 116214

Dear Sir:

Please accept the enclosed CORRECTED Annual Solid By-Product Management Plan for Clow Valve, Oskaloosa, Iowa, prepared in accordance with IAC 567—108.5(455B, 455D).

Feel free to contact me if you have any questions at rob.saunders@clowvalve.com or (641) 569-6124.

Sincerely,



Rob Saunders
Environmental Director

RECEIVED

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Solid By-Product Management Plan RY 2025
Clow Valve, Oskaloosa
DNR ID #62-BUD-06-93
Spent Iron Foundry Sand Delivered to Oldcastle APG, Oskaloosa, Iowa, for Manufactured
Topsoil
Revised: 01/07/2026

The following Solid By-Product Management Plan is prepared according to IAC 108.6(2)(a)-(c).

108.6(2) Solid by-product management plans. All recipients of beneficial use determinations granted pursuant to 567—108.5(455B, 455D) and coal combustion by-product and foundry sand beneficial uses listed in 567—108.5(455B, 455D) shall develop and maintain a solid by-product management plan that satisfies the following requirements:

108.6(2)a. List the sources of the solid by-product.

The source of spent iron foundry sand is the Clow Valve Company Iron Foundry located at 1607 17th Avenue, Oskaloosa, Iowa 52577. The spent iron foundry sand is the waste sand from the molds and cores used for pouring molten ductile iron.

108.6(2)b. List procedures for periodic testing of the solid by-product to ensure that the chemical and physical composition has not changed significantly.

Spent iron foundry sand will be analyzed at least annually by a certified lab for the analytes listed on Iowa DNR Form 542-0652. (These analytes are also listed in our Beneficial Use Determination 62-BUD-06-93, Section VIII, paragraph 2). If a significant change is made to our molding process, a new analysis of the spent iron foundry sand will be conducted.

Analytical results will be promptly compared to the limits on the DNR form 542-0652. Any exceedances will be handled according to the procedure listed in our Beneficial Use Determination 62-BUD-06-93, Section VIII, paragraph 3.

108.6(2)c. Provides a description of storage procedures including:

(1) Storage locations(s).

The spent iron foundry sand will be stored at the Clow Valve Foundry located at 1607 17th Avenue East, Oskaloosa, IA 52577.

(2) Maximum anticipated inventory, including dimensions of any stockpiles.

The spent iron foundry sand destined for Oldcastle APG will be stored in a dumpster, not a stockpile, and will be limited to approximately 25,000 lbs.

(3) Run-on and run-off controls, which may include a storm water National Pollutant Discharge Elimination System (NPDES) permit.

Spent iron foundry sand is stored in dumpster under an awning, protected from precipitation. Therefore, run-on and run-off controls are not relevant. The Clow

Valve Foundry has a Storm Water Pollution Prevention Plan and best management practices are in place to manage incidental spills of spent iron foundry sand.

(4) Management practices to minimize uncontrolled dispersion of the solid by-product.

Spent iron foundry sand is stored in dumpsters under an awning. During transportation of the dumpsters off site, the product is covered with a tarp to prevent wind dispersion.

(5) Maximum storage time, not to exceed six months unless authorized in writing by the department.

Typically, the spent iron foundry sand is taken to Oldcastle APG approximately once per week. If Oldcastle APG is not taking spent foundry sand because their operations are seasonal, then the spent iron foundry sand is taken to the Mahaska County Landfill. Spent iron foundry sand destined for Oldcastle APG will not exceed the six month storage limit.



Beneficial Use Determination: Solid By-Product Management Plan Analytical Testing Report

Beneficial Use ID#: 62 -BUD- 06 - 93
 DNR Certified Lab: Microbac Labs, Newton, Iowa
 Lab Report Date: 02/27/2025
 By-Product Generator: Clow Valve Company
 City: Oskaloosa State: IA Zip: 52577
 By-Product Name: Spent Foundry Sand

Send completed report form(s), laboratory analytics, and supplemental Solid By-Product Management Plan (SBMP) documentation to:

Iowa Department of Natural Resources
 Land Quality Bureau
 Solid Waste & Contaminated Sites Section
 6200 Park Ave Ste 200
 Des Moines, IA 50321

For questions concerning this report form please contact the DNR at (515) 201-8272.

ANALYTICAL TESTING RESULTS

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods ([SW-846](#)).

Required		Synthetic Precipitation Leaching Procedure (EPA Test Method 1312)			Total Metals			
*	Contaminant	MCL	10 X MCL	Test Result	Regulatory Limit	Test Result		
<input type="checkbox"/>	Antimony	0.006 mg/L	0.06 mg/L	<0.0100 mg/L	31 mg/kg	10.7	mg/kg	
<input type="checkbox"/>	Arsenic	0.010 mg/L	0.10 mg/L	<0.0100 mg/L	17 mg/kg	<1.00	mg/kg	
<input type="checkbox"/>	Barium	2.0 mg/L	20.0 mg/L	0.0854 mg/L	15,000 mg/kg	18.9	mg/kg	
<input type="checkbox"/>	Beryllium	0.004 mg/L	0.04 mg/L	<0.0100 mg/L	110 mg/kg	<1.0	mg/kg	
<input type="checkbox"/>	Boron				16,000 mg/kg	40.1	mg/kg	
<input type="checkbox"/>	Cadmium	0.005 mg/L	0.05 mg/L	<0.0050 mg/L	70 mg/kg	<1.0	mg/kg	
<input type="checkbox"/>	Chromium	0.1 mg/L	1.0 mg/L	<0.0200 mg/L	** (Total)	<3.00	mg/kg	
					(Hexavalent - VI)	210 mg/kg	<5.0	mg/kg
					(Trivalent - III)	97,000 mg/kg	<3.00	mg/kg
<input type="checkbox"/>	Cobalt				23 mg/kg	<1.00	mg/kg	
<input type="checkbox"/>	Copper	1.3 mg/L	13.0 mg/L	0.0173 mg/L	15,000 mg/kg	<3.0	mg/kg	
<input type="checkbox"/>	Fluoride	4.0 mg/L	40.0 mg/L	0.4 mg/L	4,700 mg/kg	<10.0	mg/kg	
<input type="checkbox"/>	Lead	0.015 mg/L	0.15 mg/L	0.0154 mg/L	400 mg/kg	<5.00	mg/kg	
<input type="checkbox"/>	Lithium				160 mg/kg	<5	mg/kg	
<input type="checkbox"/>	Manganese				10,000 mg/kg	24.2	mg/kg	
<input type="checkbox"/>	Mercury	0.002 mg/L	0.02 mg/L	<0.00500 mg/L	23 mg/kg	<0.05	mg/kg	
<input type="checkbox"/>	Molybdenum				390 mg/kg	<1.0	mg/kg	
<input type="checkbox"/>	Nickel				1,500 mg/kg	<5.0	mg/kg	
<input type="checkbox"/>	Selenium	0.05 mg/L	0.5 mg/L	<0.0100 mg/L	390 mg/kg	3.0	mg/kg	
<input type="checkbox"/>	Silver				370 mg/kg	<1.0	mg/kg	
<input type="checkbox"/>	Thallium	0.002 mg/L	0.02 mg/L	<0.0050 mg/L	0.78 mg/kg	<0.5	mg/kg	
<input type="checkbox"/>	Vanadium				350 mg/kg	<5.00	mg/kg	
<input type="checkbox"/>	Zinc				23,000 mg/kg	8.0	mg/kg	

*Required contaminant

**If Total Chromium ≥210 mg/kg, further analysis shall be conducted to determine hexavalent and trivalent results.

Toxicity Characteristic Leaching Procedure (EPA Test Method 1311) - **Regulatory Limits**

Metals					Volatile Organic Compounds				
*	Contaminant	Regulatory Limit	Test Result		*	Contaminant	Regulatory Limit	Test Result	
<input type="checkbox"/>	Arsenic	5.0 mg/L	<0.030	mg/L	<input type="checkbox"/>	Benzene	0.5 mg/L	<0.050	mg/L
<input type="checkbox"/>	Barium	100.0 mg/L	0.247	mg/L	<input type="checkbox"/>	Carbon tetrachloride	0.5 mg/L	<0.050	mg/L
<input type="checkbox"/>	Cadmium	1.0 mg/L	<0.005	mg/L	<input type="checkbox"/>	Chlorobenzene	100.0 mg/L	<10.0	mg/L
<input type="checkbox"/>	Chromium	5.0 mg/L	<0.010	mg/L	<input type="checkbox"/>	Chloroform	6.0 mg/L	<0.600	mg/L
<input type="checkbox"/>	Lead	5.0 mg/L	<0.020	mg/L	<input type="checkbox"/>	1,2-Dichloroethane	0.5 mg/L	<0.050	mg/L
<input type="checkbox"/>	Mercury	0.2 mg/L	<0.00050	mg/L	<input type="checkbox"/>	1,1-Dichloroethylene	0.7 mg/L	<0.070	mg/L
<input type="checkbox"/>	Selenium	1.0 mg/L	<0.050	mg/L	<input type="checkbox"/>	Methyl ethyl ketone	200.0 mg/L	<20.0	mg/L
<input type="checkbox"/>	Silver	5.0 mg/L	<0.010	mg/L	<input type="checkbox"/>	Tetrachloroethylene	0.7 mg/L	<0.070	mg/L
					<input type="checkbox"/>	Trichloroethylene	0.5 mg/L	<0.050	mg/L
					<input type="checkbox"/>	Vinyl chloride	0.2 mg/L	<0.020	mg/L
Pesticides					Semi-Volatile Organic Compounds				
*	Contaminant	Regulatory Limit	Test Result		*	Contaminant	Regulatory Limit	Test Result	
<input type="checkbox"/>	Chlordane	0.03 mg/L		mg/L	<input type="checkbox"/>	o-Cresol	200.0 mg/L	<20.0	mg/L
<input type="checkbox"/>	Endrin	0.02 mg/L		mg/L	<input type="checkbox"/>	m-Cresol	200.0 mg/L	<20.0	mg/L
<input type="checkbox"/>	Heptachlor (and its epoxide)	0.008 mg/L		mg/L	<input type="checkbox"/>	p-Cresol	200.0 mg/L	<20.0	mg/L
<input type="checkbox"/>	Lindane	0.4 mg/L		mg/L	<input type="checkbox"/>	Cresol	200.0 mg/L	<20.0	mg/L
<input type="checkbox"/>	Methoxychlor	10.0 mg/L		mg/L	<input type="checkbox"/>	1,4-Dichlorobenzene	7.5 mg/L	<0.750	mg/L
<input type="checkbox"/>	Toxaphene	0.5 mg/L		mg/L	<input type="checkbox"/>	2,4-Dinitrotoluene	0.13 mg/L	<0.013	mg/L
					<input type="checkbox"/>	Hexachlorobenzene	0.13 mg/L	<0.013	mg/L
					<input type="checkbox"/>	Hexachlorobutadiene	0.5 mg/L	<0.050	mg/L
					<input type="checkbox"/>	Hexachloroethane	3.0 mg/L	<0.300	mg/L
Herbicides					<input type="checkbox"/>	Nitrobenzene	2.0 mg/L	<0.200	mg/L
*	Contaminant	Regulatory Limit	Test Result		<input type="checkbox"/>	Pentachlorophenol	100.0 mg/L	<10.0	mg/L
<input type="checkbox"/>	2,4-D	10.0 mg/L		mg/L	<input type="checkbox"/>	Pyridine	5.0 mg/L	<0.500	mg/L
<input type="checkbox"/>	2,4,5-TP (Silvex)	1.0 mg/L		mg/L	<input type="checkbox"/>	2,4,5-Trichlorophenol	400.0 mg/L	<40.0	mg/L
					<input type="checkbox"/>	2,4,6-Trichlorophenol	2.0 mg/L	<0.200	mg/L

*Required contaminant

BY-PRODUCT GENERATOR CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Signature:  Date: 2-9-26
 Printed Name: Mark A. Willett Title: VP/GM



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11A1673

Revised Report:
Amended in response
to client complaint

Clow Valve Company

Project Name: Reuse Material

Dain Nettland
902 S 2nd St
Oskaloosa, IA 52577

Project / PO Number: JAXT024
Received: 01/24/2025
Reported: 02/27/2025

Case Narrative

Amended Report February 27, 2025: The Cobalt result originally reported for sample 11A1673-01 was incorrect due to analysis error. The corrected result is included in this report.

Tammy McDermott
Quality Assurance Specialist

Analytical Testing Parameters

Client Sample ID:	Metal Casting Facility	Collected By:	Thompson, Andy
Sample Matrix:	Bulk-Solid	Collection Date:	01/22/2025 12:40
Lab Sample ID:	11A1673-01		

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3050B/EPA 6010B								
Barium, total	18.9	1.00	mg/kg	1		01/27/25 1457	01/29/25 0216	JAR
Boron, total	40.1	10.0	mg/kg	1		01/27/25 1457	01/29/25 0216	JAR
Cadmium, total	<1.0	1.0	mg/kg	1		01/27/25 1457	01/29/25 0216	JAR
Copper, total	<3.0	3.0	mg/kg	1		01/27/25 1457	01/29/25 0216	JAR
Lead, total	<5.00	5.00	mg/kg	1		01/27/25 1457	01/29/25 0216	JAR
Lithium, total	<5	5	mg/kg	1		01/27/25 1457	01/29/25 0216	JAR
Manganese, total	24.2	1.0	mg/kg	1		01/27/25 1457	01/29/25 0216	JAR
Molybdenum, total	<1.0	1.0	mg/kg	1		01/27/25 1457	01/29/25 0216	JAR
Nickel, total	<5.0	5.0	mg/kg	1		01/27/25 1457	01/29/25 0216	JAR
Selenium, total	3.0	3.0	mg/kg	1		01/27/25 1457	01/29/25 0216	JAR
Silver, total	<1.0	1.0	mg/kg	1		01/27/25 1457	01/29/25 0216	JAR
Vanadium, total	<5.00	5.00	mg/kg	1		01/27/25 1457	01/29/25 0216	JAR
Zinc, total	8.0	3.0	mg/kg	1		01/27/25 1457	01/29/25 0216	JAR
EPA 3050B/EPA 6020A								
Antimony, total	10.7	1.00	mg/kg	10		01/27/25 1457	01/30/25 0048	ZZZ
Arsenic, total	<1.00	1.00	mg/kg	10		01/27/25 1457	01/30/25 0048	ZZZ
Beryllium, total	<1.0	1.0	mg/kg	10		01/27/25 1457	01/30/25 0048	ZZZ
Cobalt, total	<1.00	1.00	mg/kg	10		01/27/25 1457	02/26/25 0956	RVV
Thallium, total	<0.5	0.5	mg/kg	10		01/27/25 1457	01/30/25 0048	ZZZ
EPA 7471A								
Mercury, total	<0.05	0.05	mg/kg	1		01/27/25 1245	01/28/25 1345	JAR
EPA 9056A								
Fluoride	<10.0	10.0	mg/kg	1	H	02/21/25 0000	02/21/25 1429	MID
Determination of TCLP Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3010A/EPA 6010B								
Arsenic (TCLP)	<0.030	0.030	mg/L	1		01/27/25 1517	01/29/25 2333	JAR
Barium (TCLP)	0.247	0.010	mg/L	1		01/27/25 1517	01/29/25 2333	JAR
Cadmium (TCLP)	<0.005	0.005	mg/L	1		01/27/25 1517	01/29/25 2333	JAR



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11A1673

Client Sample ID:	Metal Casting Facility	Collected By:	Thompson, Andy
Sample Matrix:	Bulk-Solid	Collection Date:	01/22/2025 12:40
Lab Sample ID:	11A1673-01		

Determination of TCLP Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Chromium (TCLP)	<0.010	0.010	mg/L	1		01/27/25 1517	01/29/25 2333	JAR
Lead (TCLP)	<0.020	0.020	mg/L	1		01/27/25 1517	01/29/25 2333	JAR
Selenium (TCLP)	<0.050	0.050	mg/L	1		01/27/25 1517	01/29/25 2333	JAR
Silver (TCLP)	<0.010	0.010	mg/L	1		01/27/25 1517	01/29/25 2333	JAR
EPA 7470A								
Mercury (TCLP)	<0.00050	0.00050	mg/L	1		01/29/25 1023	01/30/25 1338	JAR

Determination of TCLP Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 1311/EPA 5030B/EPA 8260D								
Vinyl Chloride (TCLP)	<0.020	0.020	mg/L	1		02/06/25 0000	02/06/25 1505	CSM
1,1-Dichloroethylene (TCLP)	<0.070	0.070	mg/L	1		02/06/25 0000	02/06/25 1505	CSM
2-Butanone (MEK) (TCLP)	<20.0	20.0	mg/L	1		02/06/25 0000	02/06/25 1505	CSM
Chloroform (TCLP)	<0.600	0.600	mg/L	1		02/06/25 0000	02/06/25 1505	CSM
Carbon Tetrachloride (TCLP)	<0.050	0.050	mg/L	1		02/06/25 0000	02/06/25 1505	CSM
Benzene (TCLP)	<0.050	0.050	mg/L	1		02/06/25 0000	02/06/25 1505	CSM
1,2-Dichloroethane (TCLP)	<0.050	0.050	mg/L	1		02/06/25 0000	02/06/25 1505	CSM
Trichloroethylene (TCLP)	<0.050	0.050	mg/L	1		02/06/25 0000	02/06/25 1505	CSM
Tetrachloroethylene (TCLP)	<0.070	0.070	mg/L	1		02/06/25 0000	02/06/25 1505	CSM
Chlorobenzene (TCLP)	<10.0	10.0	mg/L	1		02/06/25 0000	02/06/25 1505	CSM
Surrogate: Dibromofluoromethane	97.9	Limit: 57-134	% Rec	1		02/06/25 0000	02/06/25 1505	CSM
Surrogate: 1,2-Dichloroethane-d4	103	Limit: 53-140	% Rec	1		02/06/25 0000	02/06/25 1505	CSM
Surrogate: Toluene-d8	99.0	Limit: 86-114	% Rec	1		02/06/25 0000	02/06/25 1505	CSM
Surrogate: 4-Bromofluorobenzene	96.5	Limit: 78-121	% Rec	1		02/06/25 0000	02/06/25 1505	CSM

Determination of TCLP Semi-Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3520C/EPA 8270C								
Pyridine (TCLP)	<0.500	0.500	mg/L	1		01/30/25 1506	02/05/25 1103	EPP
1,4-Dichlorobenzene (TCLP)	<0.750	0.750	mg/L	1		01/30/25 1506	02/05/25 1103	EPP
o-Cresol (TCLP)	<20.0	20.0	mg/L	1		01/30/25 1506	02/05/25 1103	EPP
m+p-Cresol (TCLP)	<20.0	20.0	mg/L	1		01/30/25 1506	02/05/25 1103	EPP
Total Cresols (TCLP)	<20.0	20.0	mg/L	1		01/30/25 1506	02/05/25 1103	EPP
Hexachloroethane (TCLP)	<0.300	0.300	mg/L	1		01/30/25 1506	02/05/25 1103	EPP
Nitrobenzene (TCLP)	<0.200	0.200	mg/L	1		01/30/25 1506	02/05/25 1103	EPP
Hexachlorobutadiene (TCLP)	<0.050	0.050	mg/L	1		01/30/25 1506	02/05/25 1103	EPP
2,4,6-Trichlorophenol (TCLP)	<0.200	0.200	mg/L	1		01/30/25 1506	02/05/25 1103	EPP
2,4,5-Trichlorophenol (TCLP)	<40.0	40.0	mg/L	1		01/30/25 1506	02/05/25 1103	EPP
2,4-Dinitrotoluene (TCLP)	<0.013	0.013	mg/L	1		01/30/25 1506	02/05/25 1103	EPP
Hexachlorobenzene (TCLP)	<0.013	0.013	mg/L	1		01/30/25 1506	02/05/25 1103	EPP
Pentachlorophenol (TCLP)	<10.0	10.0	mg/L	1		01/30/25 1506	02/05/25 1103	EPP
Surrogate: 2-Fluorophenol	62.9	Limit: 10-161	% Rec	1		01/30/25 1506	02/05/25 1103	EPP
Surrogate: Phenol-d6	65.2	Limit: 10-155	% Rec	1		01/30/25 1506	02/05/25 1103	EPP
Surrogate: Nitrobenzene-d5	69.3	Limit: 18-151	% Rec	1		01/30/25 1506	02/05/25 1103	EPP

Microbac Laboratories, Inc., Newton

600 East 17th Street South | Newton, IA 50208 | 641-792-8451 p | www.microbac.com



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11A1673

Client Sample ID:	Metal Casting Facility	Collected By:	Thompson, Andy
Sample Matrix:	Bulk-Solid	Collection Date:	01/22/2025 12:40
Lab Sample ID:	11A1673-01		

Determination of TCLP Semi-Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Surrogate 2-Fluorobiphenyl	63.7	Limit: 15-147	% Rec	1		01/30/25 1506	02/05/25 1103	EPP
Surrogate 2,4,6-Tribromophenol	72.5	Limit: 10-162	% Rec	1		01/30/25 1506	02/05/25 1103	EPP
Surrogate Terphenyl-d14	66.7	Limit: 35-160	% Rec	1		01/30/25 1506	02/05/25 1103	EPP
TCLP Extraction	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 1311/EPA 1311								
TCLP pH, Initial	4.9		pH	1		01/27/25 1111	01/28/25 1420	KKJ
TCLP pH Final	5.0		pH	1		01/27/25 1111	01/28/25 1420	KKJ
Determination of SPLP Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony (SPLP)	<0.0100	0.0100	mg/L	10	M2	01/28/25 1427	01/30/25 1817	RVV
Arsenic (SPLP)	<0.0100	0.0100	mg/L	10		01/28/25 1427	01/30/25 1817	RVV
Barium (SPLP)	0.0854	0.0100	mg/L	10		01/28/25 1427	01/30/25 1817	RVV
Beryllium (SPLP)	<0.0100	0.0100	mg/L	10		01/28/25 1427	01/30/25 1817	RVV
Cadmium (SPLP)	<0.0050	0.0050	mg/L	10		01/28/25 1427	01/30/25 1817	RVV
Chromium (SPLP)	<0.0200	0.0200	mg/L	10		01/28/25 1427	01/30/25 1817	RVV
Copper (SPLP)	0.0173	0.0100	mg/L	10		01/28/25 1427	01/30/25 1817	RVV
Lead (SPLP)	0.0154	0.0100	mg/L	10		01/28/25 1427	01/30/25 1817	RVV
Selenium (SPLP)	<0.0100	0.0100	mg/L	10		01/28/25 1427	01/30/25 1817	RVV
Thallium (SPLP)	<0.0050	0.0050	mg/L	10		01/28/25 1427	01/30/25 1817	RVV
EPA 7470A								
Mercury (SPLP)	<0.00500	0.00500	mg/L	1		01/29/25 1024	01/30/25 1356	JAR
EPA 9056A								
Fluoride (SPLP)	0.4	0.1	mg/L	1		02/03/25 0000	02/03/25 2258	MID
SPLP Extraction	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 1312/EPA 1312								
SPLP pH, Initial	5.0		pH	1		01/27/25 1114	01/28/25 1421	KKJ
SPLP pH, Final	10.1		pH	1		01/27/25 1114	01/28/25 1421	KKJ

Definitions

H: Sample was analyzed past holding time.

M2: Matrix spike recovery is below acceptance limits.

RL: Reporting Limit

RPD: Relative Percent Difference



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11A1673

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at [~https://www.microbac.com/standard-terms-conditions~](https://www.microbac.com/standard-terms-conditions).

Reviewed and Approved By:

A handwritten signature in black ink that reads "Heather Murphy". The signature is written in a cursive style and is placed over a light blue rectangular background.

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
02/27/25 10:32



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11B1791

Clow Valve Company

Project Name: Metal Casting Facility

Cindy Thompson
902 S 2nd St
Oskaloosa, IA 52577

Project / PO Number: POHAXT027
Received: 02/28/2025
Reported: 03/05/2025

Analytical Testing Parameters

Client Sample ID: Iron Sand Beneficial Use
Sample Matrix: Bulk-Solid
Lab Sample ID: 11B1791-01

Collected By: Thompson Andy
Collection Date: 02/27/2025 8:31

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Calculation								
Chromium trivalent	<3.00	3.00	mg/kg	1		03/03/25 0917	03/05/25 0812	JAR
EPA 3050B/EPA 6010B								
Chromium total	<3.0	3.0	mg/kg	1		03/03/25 0716	03/05/25 0812	JAR
EPA 7196A								
Chromium, hexavalent	<5.0	5.0	mg/kg	1			03/03/25 0917	AKK

Definitions

- MDL: Minimum Detection Limit
- RL: Reporting Limit
- RPD: Relative Percent Difference

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
03/05/25 15:17

CH

600 E 17th
Newtown, NJ
Phone 64

7 Long Street
Box 105
Centerville, IA 52544
Phone 913-321-7856



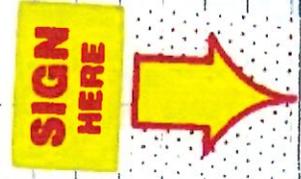
Flow Valve Company

PAGE 1 OF 1

REPORT TO: NAME: _____ COMPANY NAME: _____
 ADDRESS: _____ CITY/ST/ZIP: _____ PHONE: _____
 FAX: _____

Keystone Quote No. _____

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB / COMPOSITE	ANALYSES REQUIRED	LAB USE ONLY	
								LABORATORY WORK ORDER NO.	LABORATORY SAMPLE NUMBER
								17517911	
								SAMPLE TEMPERATURE UPON RECEIPT: 104.0°C	
								SAMPLE CONDITION / COMMENTS:	



Relinquished by: (Signature) _____ Date: 08/28/05 Time: 9:30 AM

Received by: (Signature) _____ Date: _____ Time: _____

Relinquished by: (Signature) _____ Date: _____ Time: _____

Received for Lab by: (Signature) _____ Date: 08/28/05 Time: 9:30 AM

Remarks: (Remarks) ATTN: JIM KAUFMAN

Turn-Around: Standard Rush

Contact Lab Prior to Submission

08/28/05 - See Heather Murray