

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY
RFP# 2023-14
WWTP RBC Replacement
Question & Answer

SDSTA answers the only question submitted for the subject RFP effective April 19, 2023.

What type of sludge is in the bottom of the RBCs? **See below report.**

Additional info: 6 RBCs and basins have been drained and dry for years and each RBC unit weighs between 80,000 and 120,000 pounds.

GENERAL INFORMATION

Waste Stream Name:	RBC Basin Sludge
Date:	4-13-2023
Description of Process Generating Waste:	WWTP
Waste Classification (NonHaz, Haz, Universal):	Non-Hazardous
If Hazardous, EPA Waste Codes:	
Analysis Results Attached?	Yes
MSDS Attached?	No
Other Attachment?	
Method of Disposal:	

DETERMINATION OF WASTE CLASSIFICATION

1. Is the waste exempt from regulation or not considered a solid waste when recycled?
 - a. Yes The waste is non-hazardous (Cite Exclusion:)
 - b. **No** Go to #2
2. Is the waste listed in the hazardous waste tables (40 CFR 261 Subpart D)?
 - a. Yes The waste is hazardous
 - b. **No** Go to #3
3. Has product and/or process knowledge been used to define the waste as non-hazardous?
 - a. Yes The waste is non-hazardous (Explain:)
 - b. **No** Go to #4
4. Is the waste a universal waste as defined in 40 CFR Part 273?
 - a. Yes The waste is a universal waste
 - b. **No** Go to #5
5. Is the waste ignitable: Flash Point <140F (40 CFR 261.21)?
 - a. Yes The waste is hazardous
 - b. **No** Go to #6
6. Is the waste corrosive: pH ≤ 2 or ≥ 12.5 (40 CFR 261.22)?
 - a. Yes The waste is hazardous
 - b. **No** Go to #7
7. Is the waste reactive: unstable, undergoes violent change, reacts with water to form toxic gases, forbidden explosives, etc. (40 CFR 261.23)?
 - a. Yes The waste is hazardous
 - b. **No** Go to #8
8. Is the waste toxic (40 CFR 261.24)?
 - a. Yes The waste is hazardous
 - b. **No** The waste is non-hazardous

Additional Information:

Revision History

Rev	Date	Section	Paragraph	Summary of Change	Authorized by
01	12/20/2022	NA	NA	Initial Release	CCR 659



MIDCONTINENT
TESTING LABORATORIES, INC.

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JULIE EWING
SOUTH DAKOTA SCIENCE & TECHNOLOGY
AUTHORITY
630 EAST SUMMIT STREET
LEAD, SD 57754

Sample Site: RBC Waste
Sampled: 08/01/11 at 10:00 AM
by Joseph Reedy
Sample Matrix: Solid

Lab ID#: 20110802704
Received: 08/01/11 at 01:00 PM
by Bobbie Laurenz
W1433 - South Dakota
Account: Science & Technology
Authority

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date	
Physical Properties								
Corrosivity	7.65	S.U.	1			EPA SW846 9040B	TMN	08/10/11
Metals - TCLP								
Arsenic (As)	0.037	mg/L	10	0.0003	0.005	EPA SW846 6020	SAC	08/08/11
Barium (Ba)	0.033	mg/L	10	0.0008	0.005	EPA SW846 6020	SAC	08/08/11
Cadmium (Cd)	< 0.001	mg/L	10	0.0003	0.001	EPA SW846 6020	SAC	08/08/11
Chromium (Cr)	0.003	mg/L	10	0.0007	0.001	EPA SW846 6020 DRC	SAC	08/08/11
Copper (Cu)	0.197	mg/L	10	0.001	0.005	EPA SW846 6020	SAC	08/08/11
Lead (Pb)	< 0.001	mg/L	10	0.0007	0.001	EPA SW846 6020	SAC	08/08/11
Mercury (Hg)	< 0.0002	mg/L	1	0.000018	0.0002	EPA SW846 7471B	NMA	08/08/11
Selenium (Se)	< 0.005	mg/L	10	0.001	0.005	EPA SW846 6020	SAC	08/08/11
Silver (Ag)	< 0.001	mg/L	10	0.0004	0.001	EPA SW846 6020	SAC	08/08/11
Zinc (Zn)	0.110	mg/L	10	0.003	0.050	EPA SW846 6020	SAC	08/08/11

Report Approved By:

Report Approved On: 8/11/2011 8:36:22 AM



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JULIE EWING
SOUTH DAKOTA SCIENCE & TECHNOLOGY
AUTHORITY
630 EAST SUMMIT STREET
LEAD, SD 57754

Sample Site: RBC Sludge
Sampled: 03/31/15 at 10:50 AM
by Ken Noren
Sample Matrix: Sludge

Lab ID#: 20150331706
Received: 03/31/15 at 03:45 PM
by Tanya Nelsen
W1433 - South Dakota
Account: Science & Technology
Authority

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date	
Physical Properties								
pH	7.86	S.U.	1			EPA SW846 9045C	TMN	04/16/15
Metals - TCLP								
Arsenic (As)	0.039	mg/L	10	0.00062	0.005	EPA SW846 6020	TNA	04/15/15
Barium (Ba)	0.141	mg/L	1	0.000031	0.001	EPA SW846 6020	TNA	04/15/15
Cadmium (Cd)	0.002	mg/L	10	0.00018	0.001	EPA SW846 6020	TNA	04/15/15
Chromium (Cr)	0.002	mg/L	1	0.000004	0.000	EPA SW846 6020 DRC	TNA	04/15/15
Lead (Pb)	< 1.00	mg/L	10	0.00002	0.001	EPA SW846 6020	TNA	04/15/15
Mercury (Hg)	< 0.0002	mg/L	1	0.000024	0.0002	EPA SW846 7471B	GRT	04/15/15
Selenium (Se)	< 0.005	mg/L	10	0.001	0.005	EPA SW846 6020	TNA	04/15/15
Silver (Ag)	< 0.001	mg/L	10	0.00004	0.001	EPA SW846 6020	TNA	04/15/15

Report Approved By:

Report Approved On: 4/17/2015 9:44:14 AM