

Oregon DHS - Drinking Water Services – Turbidity Monitoring Report Form

System Name: Rainbow Rock Services Assc **ID#** 41-01361 **Month/Year:** Apr / 2021

DAY	12:00 AM (NTU)	4:00 AM (NTU)	8:00 AM (NTU)	NOON (NTU)	4:00 PM (NTU)	8:00 PM (NTU)	Highest Reading of the Day ¹ (NTU)	Peak Hourly Demand Flow (GPM)
1				0.04	0.04		0.04	
2								
3								
4								
5								
6				0.045	0.04		0.05	
7				0.05	0.045		0.12	
8			0.04	0.04	0.04		0.04	
9			0.05	0.04	0.04		0.05	
10			0.04	0.04	0.04		0.05	
11								
12			0.05	0.04	0.04		0.05	
13				0.04	0.04		0.13	
14								
15			0.04	0.05			0.06	
16								
17								
18								
19			0.04				0.12	
20								
21			0.09		0.05		0.11	
22			0.05	0.05	0.05		0.08	
23				0.05			0.12	
24								
25								
26				0.05			0.14	
27				0.045	0.04		0.10	
28								
29				0.04			0.11	
30			0.045	0.045			0.10	
31								

Conventional or Direct Filtration Monthly Summary		Monthly UV Summary (Yes or No)	
95% of the 4-hour turbidity readings ≤ 0.3 NTU?	Yes	Is any off-spec water produced in the month? No	
All the 4-hour turbidity readings < 1 NTU?	Yes		
All turbidity readings < IFE triggers? ²	Yes		
- OR -		PRINTED NAME: Mark Haglund	
Slow Sand/Cartridge/Membrane/DE Filtration		SIGNATURE: <i>Mark Haglund</i>	DATE: 5/4/21
95% of turbidity readings ≤ 1 NTU?	Yes / No	PHONE #: (541) 412-0424	CERT #: T-6161 FE
All turbidity readings < 5 NTU?	Yes / No		
Is there 4-log virus inactivation provided with Chlorine;		xOther_WTP uses UV and Chlorine	CT _{viral} : Required = Achieved =
		Yes	

¹ Including continuous NTU data, if applicable, for optimization recording purposes

² IFE = Individual Filter Effluent

OHA - Drinking Water Services - Surface Water Quality Data Form

County: Curry


Filtration with UV *Giardia/Crypto* Disinfection

Month/Year: Apr-21

System Name: Rainbow Rock Services

WS ID #: 41-01361

Day	Turbidity							Viral CT's						
	12:00 AM [NTU]	4:00 AM [NTU]	8:00 AM [NTU]	NOON [NTU]	4:00 PM [NTU]	8:00 PM [NTU]	Higest NTU of the day ¹	Minimum Cl2 Residual at 1st User C [mg/L] ²	Contact Time (T) [minutes]	Actual CT C X T	Temp C	pH	Required CT Use Tables	Required CT Met? ² [Yes / No]
1				0.04	0.04		0.04	0.35	71	24.85	11.3	7.35	6	Yes
2														
3														
4														
5														
6				0.045	0.04		0.05	0.30	71	21.3	16.3	7.99	4	Yes
7				0.05	0.045		0.12	0.65	71	46.15	10.9	7.41	6	Yes
8			0.04	0.04	0.04		0.04	0.60	71	42.6	10.3	6.98	6	Yes
9			0.05	0.04	0.04		0.05	0.50	71	35.5	10.3	7.02	6	Yes
10			0.04	0.04	0.04		0.05	0.55	71	39.05	10.3	7.07	6	Yes
11														
12			0.05	0.04			0.05	0.45	71	31.95	10.4	7.50	6	Yes
13				0.04	0.04		0.13	0.60	71	42.6	10.4	7.41	6	Yes
14														
15			0.04	0.05			0.06	0.50	71	35.5	10.9	7.26	6	Yes
16														
17														
18														
19			0.04				0.12	0.25	71	17.75	11.2	7.46	6	Yes
20														
21			0.09		0.05		0.11	0.60	71	42.60	11.3	7.09	6	Yes
22			0.05	0.05	0.05		0.08	0.75	71	53.25	11.5	7.33	6	Yes
23				0.05			0.12	0.65	71	46.15	12.6	7.10	6	Yes
24														
25														
26				0.05			0.14	0.50	71	35.5	10.9	7.24	6	Yes
27				0.045	0.04		0.10	0.70	71	49.7	10.5	7.20	6	Yes
28														
29				0.04			0.11	0.60	71	42.6	11.8	7.55	6	Yes
30			0.045	0.045			0.10	0.55	71	39.05	11.6	7.26	6	Yes
31														

Conventional or Direct Filtration 95% of the 4-hour turbidity readings ≤ 0.3 NTU? Yes All the 4-hour turbidity readings <1 NTU? Yes All turbidity readings < IFE triggers? Yes		Monthly Summary (Yes or No) Was CT's met everyday? All Cl2 residual at entry point ≥ 0.2 mg/L ? Yes Yes	
Monthly UV Summary (Yes or No) Was the volume of off-spec water produced less than 5% for the month? N/A		Phone #: 541-412-0424 Cert #: T - 6161 FE Date: 5/4/21 Printed Name: Mark Haglund Signature: 	

- 1 If one NTU value per day measured, value same as Compliance Turbidity. Intended for multiple readings per day. Used for optimization efforts only. Highest NTU of the day is for optimization, not complianc. Highest is only for stat-wide tracking of performance among all treatment systems.
- 2 If CT not met - see chart below or Cl2 at entry point <0.2 mg/L, notify DWS within 24 hours.
- 3 IFE = Individual Filter Effluent (OAE 333-061-0040(1)(e)(B&C))

4/21/21 - At Noon, WTP was off for maintenance.

Required CT for viral inactivation (for pH range of 6.0 to 9.9)						
Temp C	0 - 4.9	5.0 - 9.9	10.0 - 14.9	15.0 - 19.9	20 - 24.9	≥ 25.0 C
Required CT	12	8	6	4	3	2

Oregon DHS - Drinking Water Services – Surface Water Quality Data

County: Curry

System Name: Rainbow Rock Services Association

ID# 41 01361

Month/Year: Apr / 2021

Minimum UVT [%] during month: - Duty sensor variation from reference sensor %: -

Minimum Validated UVT : {Insert Req'd Value} Min. UV Dose achieved/intended this month: 45.2 / 40 mJ/cm2

Date	Peak Hourly Demand Flow	Minimum Intensity	Minimum Dose	All Lamps On?	Daily Water Produced {A}	Water outside Validated Conditions {B}	Cumulative % Off-Spec Water Produced
	[gpm/unit]	[^{mW} /cm ²]	[mJ/cm ²]	[Y or N]	[gal]	[gal]	(Mo. Sum {B}) ÷ (Mo. Sum {A}) * 100 [%]
1	20		46.8	Y	6582.4	0	0
2							
3							
4							
5							
6	20		46.4	Y	7330.4	0	0
7	20		47.1	Y	7928.8	0	0
8	20		45.2	Y	9724	0	0
9	20		46.0	Y	10808	0	0
10	20		47.1	Y	11706	0	0
11							
12	20		56.5	Y	10248	0	0
13	20		55.7	Y	8527.2	0	0
14							
15	20		56.4	Y	9798.8	0	0
16							
17							
18							
19	20		55.0	Y	8826.4	0	0
20							
21	20		54.4	Y	7704	0	0
22	20		55.2	Y	10472	0	0
23	20		54.8	Y	6208	0	0
24							
25							
26	20		53.2	Y	8602	0	0
27	20		54.6	Y	9649.2	0	0
28							
29	20		55.3	Y	7106	0	0
30	20		55.1	Y	10472	0	0
31							0
Monthly Cumulative % Off-Spec Water Produced							

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Signature: 

Op Cert #: T - 6161 FE

Date: 5/4/2021