

Petition R127-10

Bronco, Gray, and Smoke Creeks

Standards

NAC 445A.181, NAC 445A.182, and NAC 445A.180

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Standards for Bronco, Gray and Smoke Creeks

Smoke Creek in 1967,

Bronco & Gray Creeks in 1973

- ◆ Numeric criteria were assigned, but no beneficial uses, or reach descriptions

NDEP is proposing to

- ◆ Add reach descriptions
- ◆ Add beneficial uses
- ◆ Add numeric criteria based on the beneficial uses

Smoke Creek Description and Location

- Northern Washoe County
- Flows from the California-Nevada state line to the Smoke Creek Desert

Smoke Creek Reach Description

- Smoke Creek

- ◆ NAC 445A.180 The limits of this table apply to the body of water known as Smoke Creek from the California-Nevada state line to the Smoke Creek Desert. Smoke Creek is located in Washoe County

Smoke Creek Beneficial Uses

- Watering of Livestock
- Irrigation
- Aquatic Life – warm water fishery
- Contact Recreation
- Non-contact Recreation
- Propagation of Wildlife

- Note: No Municipal or Domestic Supply and Industrial Supply

Smoke Creek Criteria

Temperature (°C)	S.V. Summer ≤ 25.0 S.V. Winter ≤ 14.0
pH (SU)	S.V. 6.5 – 9.0
Total Phosphorous as P (mg/L)	<u>S.V. ≤ 0.1</u> ^b (Nutrient Narrative footnote)
Nitrogen Species as N (mg/L)	
Nitrite	S.V. ≤ 5.0
Nitrate	S.V. ≤ 90
Total Nitrogen	^b (Nutrient Narrative footnote)

Smoke Creek Criteria - continued

Dissolved Oxygen (mg/L)	S.V. \geq 5.0
Turbidity (NTU)	S.V. \leq 50
Total Dissolved Solids (mg/L)	S.V. \leq 1,000
Chlorides (mg/L)	S.V. \leq 250
Fecal Coliform (No./100 mL)	S.V. \leq 1,000
E. Coli (No./100 mL)	S.V. \leq 410 A.G.M. \leq 126
Total Ammonia (mg/L)	Specified in NAC 445A.118

Bronco and Gray Creeks

- Washoe County
- Flow from headwaters in Nevada, cross the state line into California, and drain into the Truckee River

Reach Descriptions

- Bronco Creek

- ◆ NAC 445A.181 The limits of this table apply to the body of water known as Bronco Creek from its origin to the California-Nevada state Line. Bronco Creek is Located in Washoe County.

- Gray Creek

- ◆ NAC 445A.182 The limits of this table apply to the body of water known as Gray Creek from its origin to the California-Nevada state Line. Gray Creek is Located in Washoe County.

Bronco/Gray Beneficial Uses

- Watering of Livestock
- Irrigation
- Aquatic Life – coldwater fishery
- Contact Recreation
- Non-contact Recreation
- Municipal or Domestic Supply
- Industrial Supply
- Propagation of Wildlife

Bronco/Gray Criteria

Temperature (°C)	Avg. Jun-Sep ≤ 20.0 S.V. Summer ≤ 25.0 S.V. Winter ≤ 13.0
pH (SU)	S.V. 6.5 – 9.0
Total Phosphorous as P (mg/L)	<u>S.V. ≤ 0.1</u> ^b (Nutrient Narrative footnote)
Nitrogen Species as N (mg/L)	
Nitrate	S.V. ≤ 10
Nitrite	S.V. ≤ 0.06
Total Nitrogen	^b (Nutrient Narrative footnote)

Bronco/Gray Criteria - continued

Dissolved Oxygen (mg/L)	S.V. \geq 6.0
Turbidity (NTU)	S.V. \leq 10
Color (PCU)	S.V. \leq 75
Total Dissolved Solids (mg/L)	S.V. \leq 500
Chlorides (mg/L)	S.V. \leq 250
Sulfate (mg/L)	S.V. \leq 250
Fecal Coliform (No./100 mL)	S.V. \leq 1,000
E. Coli (No./100 mL)	S.V. \leq 410 A.G.M. \leq 126
Total Ammonia (mg/L)	Specified in NAC 445A.118

Corrections to Petition R127-10

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To be consistent with TP standards for similar waterbodies and from comments received during the public workshops

Add Total Phosphorus numeric criteria of S.V. ≤ 0.1 mg/l in addition to the narrative

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Questions on Petition R127-10?