

Priority Area Number: 9		Priority Area Name: Rupert		
Ranking Criteria			Score	Comments
<b>1) POPULATION</b>				
	Points	Select One		
<b>a) Within Degraded Area</b>				
<1000	1			
1000 to 10,000	2			
10,000 to 100,000	3	X	3	Population = 25,132
		<b>Subtotal</b>	<b>3</b>	
<b>b) Source Water Protection Areas or Public Water System wells in Priority Area</b>				
0	0			
1 to 20	1			
>20	2	X	2	29 PWS
		<b>Subtotal</b>	<b>2</b>	
<b>c) Number of Wells with Nitrate (NO<sub>3</sub>) ≥ 10 mg/l</b>				
0	0			
1 to 2	1			
3 to 5	2			
6 to 9	3			
10 to 15	4			
>15	5	X	5	18 Wells
		<b>Subtotal</b>	<b>5</b>	
		<b>Population Score</b>	<b>10</b>	
		<b>Max Possible Score = 10</b>		
<b>2) WATER QUALITY</b>				
	% wells	Nitrate Concentration Criteria		
Percent of wells with Nitrate (NO <sub>3</sub> ) ≥ 2 mg/l	78%	2	1.56	
Percent of wells with Nitrate (NO <sub>3</sub> ) ≥ 5 mg/l	44%	5	2.20	
Percent of wells with Nitrate (NO <sub>3</sub> ) ≥ 10 mg/l	8%	10	0.80	
		<b>Water Quality Total</b>	<b>4.56</b>	
<b>3) WATER QUALITY TRENDS</b>				
		Select One		
Increasing	10			
No Discernable Trend	5	X	5	
Decreasing trend	0			
		<b>Trend Score</b>	<b>5</b>	
		<b>Max Possible Score = 10</b>		
<b>4) OTHER BENEFICIAL USES</b>				
Other beneficial uses are impaired	2	Yes=2 No = 0	No	
		<b>Beneficial use score</b>	<b>0</b>	
		<b>Max Possible Score = 2</b>		
		<b>Total Score</b>	<b>19.56</b>	

**NITRATE PRIORITY AREA # 9  
RUPERT**

Nitrate Concentrations: (mg/l)

Minimum Value	0.0
Maximum Value	100.0*
Average Value	5.6
No. Samples $\geq$ 10	18
No. Samples 5 – 9.99	86
No. Samples 2 – 4.99	79
No. Samples < 2	53
No. Samples $\geq$ 2	18
No. Samples $\geq$ 5	104
No. Samples $\geq$ 10	183
% Samples $\geq$ 2	78%
% Samples $\geq$ 5	44%
% Samples $\geq$ 10	7.5%
Total Samples	236
No. PWS Samples	29
No. SMN Samples	121
No. IDAG Samples	86
No. REG/LOC Samples	0

PWS = Public Water Systems

SMN = State Wide Monitoring Network

IDAG = Idaho Dept. of Agriculture Studies

REG/LOC = Regional/Local Monitoring DEQ and DEQ/IDAG Projects

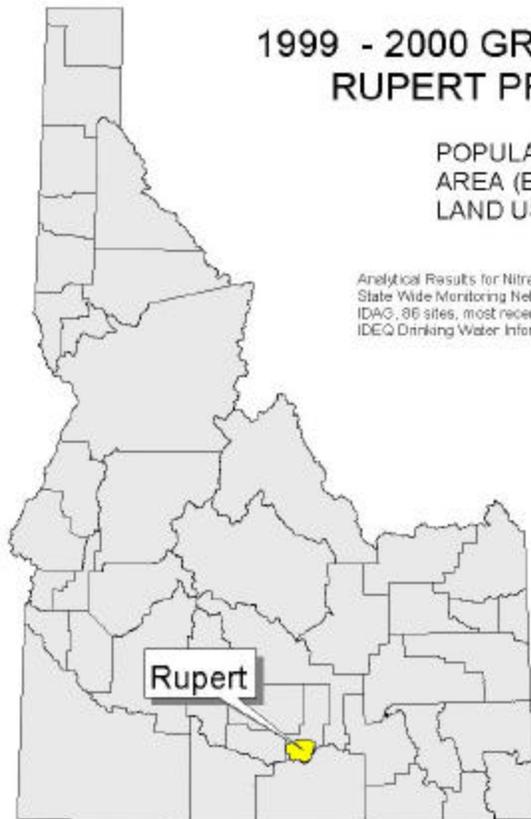
\*Statewide Monitoring Network site ID# USGS 4233591, located at T10S, R23E, Sec. 09 CBCB, historically has significantly high detections of nitrate with the exception of the analysis in 1991:

1987 – 76.0 mg/l  
 1991 – 4.4 mg/l  
 1993 – 58.0 mg/l  
 1995 – 78.0 mg/l  
 1996 – 83.0 mg/l  
 1999 – 100.0 mg/l

# 1999 - 2000 GROUP 1 NITRATE PRIORITIZATION RUPERT PRIORITY AREA # 9\* (RANKED)

POPULATION = 25,132 (Est.)  
 AREA (Est.) = 116,780 Acres  
 LAND USE = Predominantly Irrigated Agriculture,  
 Minor Amounts of Range Land & Urban

Analytical Results for Nitrate Data Sources:  
 State Wide Monitoring Network, (USGS/IDWR), 121 sites, most recent analysis used, includes NAWQA, USGS Study  
 IDAG, 86 sites, most recent analysis used  
 IDEQ Drinking Water Information System (DWIMS), 28 PWS, 1999-2000 data, highest value used



Nitrate Values (mg/l)	Number of Sites
>=10	18
5 - 9.99	86
2 - 4.99	79
< 2	53
MAXIMUM VALUE = 100.00	
MINIMUM VALUE = 0.0	
MEDIAN = 4.4	
AVERAGE = 5.6	

TOTAL NUMBER OF SAMPLING SITES = 236  
 TOTAL NUMBER OF PWS SITES = 29  
 No. Sites Nitrate >= 2 mg/l = 183  
 No. Sites Nitrate >= 5 mg/l = 104  
 No. Sites Nitrate >=10 mg/l = 18

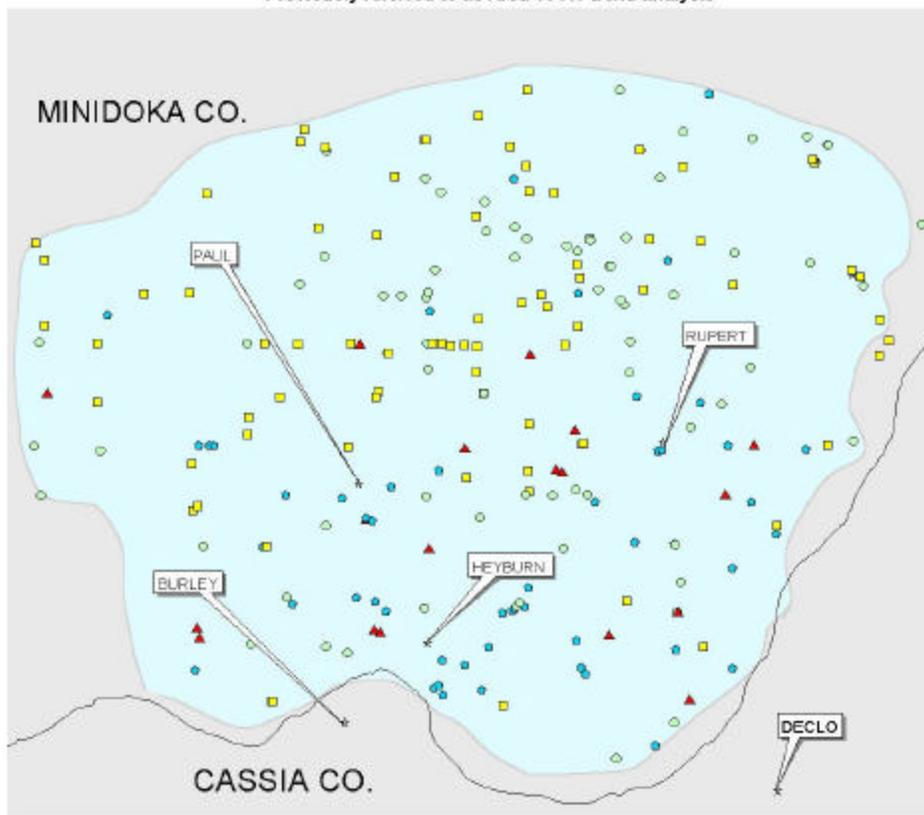
\*Previously referred to as Area 16 for trend analysis

## Nitrate Analytical Results - Statewide, PWS, USGS, IDAG

- ▲ >= 10 mg/l
- 5 - 9.99 mg/l
- 2 - 4.99 mg/l
- <2 mg/l

□ Nitrate Priority Area 9,  
Rupert

USGS = United States Geological Survey  
 IDWR = Idaho Department of Water Resources  
 IDAG = Idaho Department of Agriculture  
 IDEQ = Idaho Department of Environmental Quality  
 PWS = Public Water System  
 NAWQA = National Water Quality  
 Assessment Program (USGS)  
 mg/l = milligrams per liter



3 0 3 6 Miles