Note: Highlighted Water Quality Monitoring Stations are considered 'primary' stations.
Exhibit 5-5.4

2003 Water Temperature Monitoring in Pataha Creek at the Forest Service Boundary above the Campground

Char Spawning and Rearing Maximum Temperature Standard (12°C/53.6°F)
Exhibit 5-5.5
Temperature Monitoring in Pataha Creek near Columbia Center
WSU Pataha 5: 1999 to 2001, and 2003
Ecology 35F110: 2002 Water Year

Char Spawning and Rearing
Maximum Temperature Standard
(12°C/53.6°F)
Mean Fecal Coliform concentration for November 2000 was 4,494 colonies/100mL

Maximum Fecal Coliform Standard for Primary Contact Recreation (100 colonies/100mL)

Exhibit 5-5.6

Fecal Coliform Monitoring in Pataha Creek upstream of Dry Pataha Creek Confluence
WSU Pataha 5: 1999 to 2001, and 2003
Ecology 35F110: 2002 Water Year
Exhibit 5-5.7

pH Monitoring in Pataha Creek upstream of Dry Pataha Creek Confluence
WSU Pataha 5: 2003
Ecology 35F110: 2002 Water Year

pH Standard: Upper Limit - 8.5
pH Standard: Lower Limit - 6.5
Exhibit 5-5.8
Dissolved Oxygen Monitoring in Pataha Creek
upstream of Dry Pataha Creek Confluence
WSU Pataha 5: 2003
Ecology 35F110: 2002 Water Year

Minimum DO Standard for Char (9.5 mg/L)
Exhibit 5-5.10
Total Suspended Solids Monitoring in Pataha Creek upstream of Dry Pataha Creek Confluence
WSU Pataha 5: 1999 to 2001, and 2003
USFS 14030018: 1993 to 2001

USFWS Recommended Maximum TSS Standard for continuous exposure to salmonids (80 mg/L)
Exhibit 5-5.11

Ammonia Monitoring in Pataha Creek upstream from Dry Pataha Creek Confluence
WSU Pataha 5: 1999
Ecology 35F110: 2002 Water Year

Ammonia Concentration (mg/L)
Exhibit 5-5.12

Total Phosphorous Monitoring in Pataha Creek upstream of Dry Pataha Creek Confluence
WSU Pataha 5: 1999
Ecology 35F110: 2002 Water Year

USFWS Recommended Range for trout:
0.01 mg/L to 0.3 mg/L

WSU - 1999
Ecology - 2002 WY
Exhibit 5-5.13

Temperature Monitoring in Pataha Creek upstream of Sweeney Gulch Confluence
WSU Pataha 4: 1999 to 2001

Maximum Temperature Standard for Salmon and Trout Spawning, Noncore Rearing, and Migration
(17.5°C/63.5°F)
Exhibit 5-5.14

Fecal Coliform Monitoring in Pataha Creek upstream of Sweeney Gulch Confluence
WSU Pataha 4: 1999 to 2001

Fecal Coliform Concentration (colonies/100mL)

1999
2000
2001
Mean

Maximum Fecal Coliform Standard for Primary Contact Recreation (100 colonies/100mL)
Exhibit 5-5.15

pH Monitoring in Pataha Creek upstream of Sweeney Gulch Confluence
WSU Pataha 4: 2003

pH Standard: Lower Limit - 6.5
pH Standard: Upper Limit - 8.5
Exhibit 5-5.16
Dissolved Oxygen Monitoring in Pataha Creek upstream of Sweeney Gulch Confluence
WSU Pataha 4: 2003

Minimum DO Standard for Char (9.5 mg/L)
Exhibit 5-5.17
Total Suspended Solids Monitoring in Pataha Creek upstream of Sweeney Gulch Confluence

USFWS Recommended Maximum TSS Standard for continuous exposure to salmonids (80 mg/L)
Exhibit 5-5.18

2003 Water Temperature Monitoring in Pataha Creek at Pomeroy

Maximum Temperature Standard for
Salmon and Trout Spawning, Noncore
Rearing, and Migration
(17.5°C/63.5°F)
Exhibit 5-5.19

Turbidity Monitoring in Pataha Creek near Pomeroy
USFS 14030008: October 2001 to June 2002
Exhibit 5-5.20
Total Suspended Solids Monitoring in Pataha Creek near Pomeroy
USFS 14030008: October 2001 to June 2002

USFWS Recommended Maximum TSS Standard for continuous exposure to salmonids (80 mg/L)
Exhibit 5-5.21

Mean Monthly Temperature in Pataha Creek from Tatman Gulch Confluence to Mouth
WSU Pataha 1, 2 and 3: 1999 to 2001, 2003
Ecology 35F070: 1997 Water Year

Maximum Temperature Standard for
Salmon and Trout Spawning, Noncore
Rearing, and Migration (17.5°C / 63.5°F)
Mean Fecal Coliform in Pataha Creek from Tatman Gulch Confluence to Mouth

WSU Pataha 1, 2, 3: 1999 to 2001, 2003
Ecology 35F070: 1997 Water Year

Maximum Fecal Coliform Standard for Primary Contact Recreation (100 colonies/100mL)

Fecal Coliform Concentration in June 1997 was 7,600 colonies/100mL

Exhibit 5-5.22
Exhibit 5-5.23
Mean Monthly pH Monitoring in Pataha Creek from Tatman Gulch Confluence to Mouth
WSU Pataha 1 and 3: 2003
Ecology 35F070: 1997 Water Year

pH Concentration

pH Standard: Upper Limit - 8.5
pH Standard: Lower Limit - 6.5

WSU Pataha 1
WSU Pataha 3
Ecology 35F070
Exhibit 5-5.24
Mean Monthly Dissolved Oxygen in Pataha Creek
from Tatman Gulch Confluence to Mouth
WSU Pataha 1, 3: 2003
Ecology 35F070: 1997 Water Year

Minimum DO Standard for Salmon and Trout Spawning, Noncore Rearing, and Migration (8 mg/L)
Exhibit 5-5.25

Turbidity Monitoring in Pataha Creek at Archer Road
Ecology 35F070: 1997 Water Year

Turbidity (NTU)

OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP
Exhibit 5-5.26

Mean Monthly Total Suspended Solids Concentration in Pataha Creek
from Tatman Gulch Confluence to Mouth
WSU Pataha 1, 2 and 3: 1999 to 2001, 2003
Ecology 35F070: 1997 Water Year

Total Suspended Solids Concentration in June 1997 was
2,300 mg/L at Ecology 35070

USFWS Recommended Maximum TSS
Standard for continuous exposure to salmonids (80 mg/L)
Exhibit 5-5.27

Ammonia Monitoring in Pataha Creek from Tatman Gulch Confluence to Mouth
WSU Pataha 1, 2, 3: 1999 and 2002
Ecology 35F070: 1997 Water Year

Ammonia Concentration (mg/L)
Exhibit 5-5.28

Total Phosphorous Monitoring in Pataha Creek from Tatman Gulch Confluence to Mouth
WSU Pataha 1, 2, 3: 1999 and 2002
Ecology 35F070: 1997 Water Year

USFWS Recommended Range for trout: 0.01 mg/L to 0.3 mg/L