

LEGEND

USGS Gauging Stations	Ecology Gauging Stations
● Daily Streamflow	● Manual Stage Height
● Daily Streamflow, Real-time	● Telemetry
● Peakflow	— Major Roads
● Real-time	— Rivers and Streams
● Water Quality	▭ County Line
■ WSU Monitoring Sites	▭ Pataha Sub-Basin
★ Ecology Water Quality Stations	

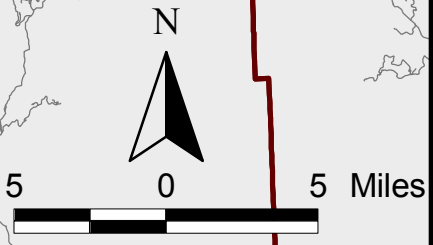



EXHIBIT 5-1
WRIA 35
Pataha Subbasin Map
 July 2004



Economic and Engineering Services, Inc.
 Bellevue Mount Vernon Olympia Portland Tri-Cities

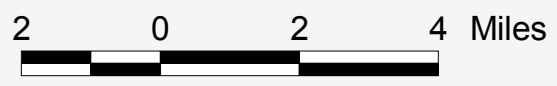
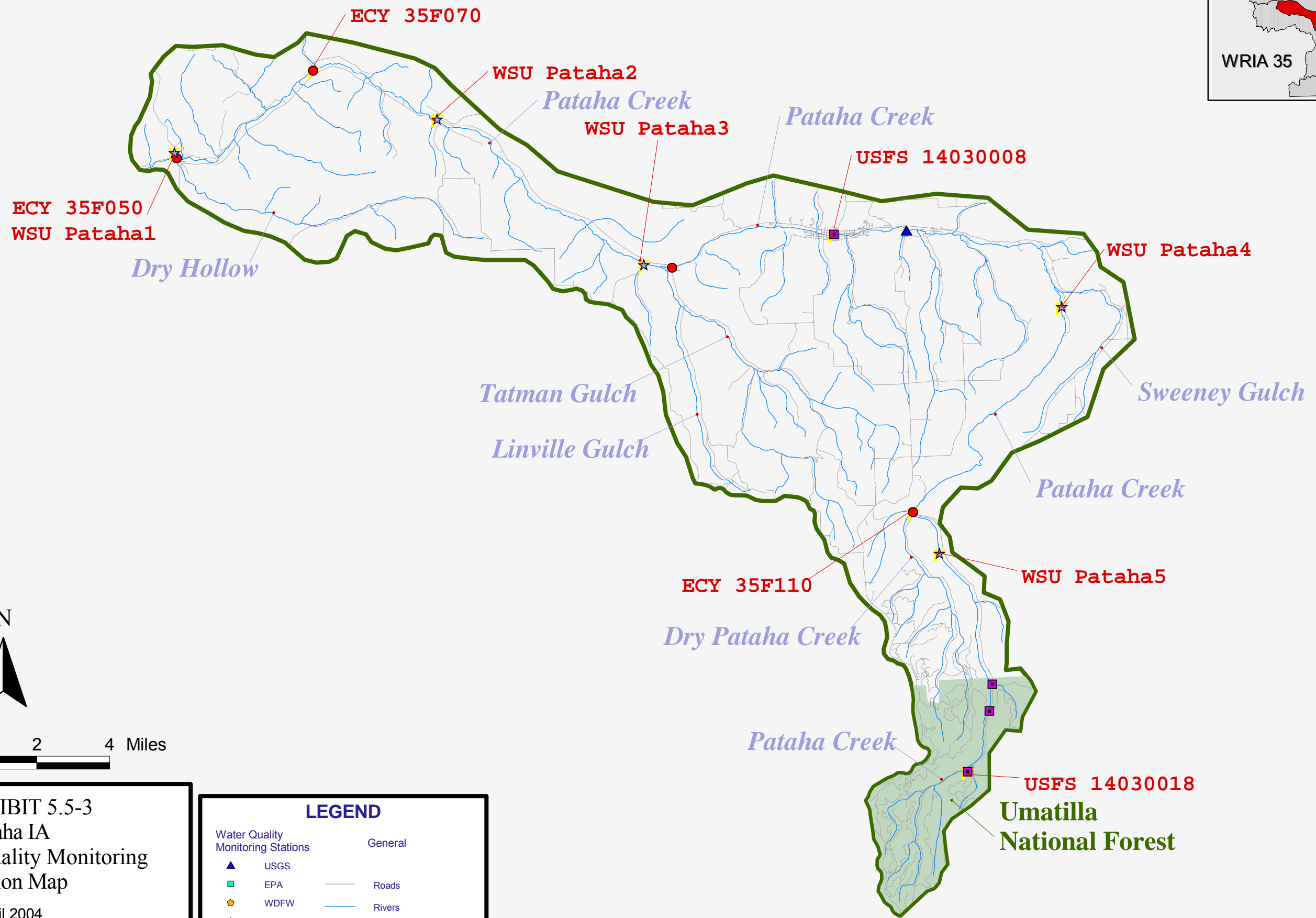
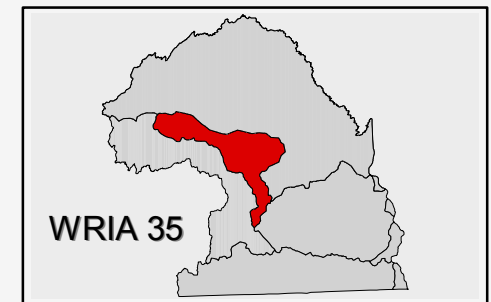


EXHIBIT 5.5-3
Pataha IA
Water Quality Monitoring
Location Map
April 2004

Water Quality Monitoring Stations		General	
▲	USGS	—	Roads
■	EPA	—	Rivers
◆	WDFW	■	Umatilla National Forest
★	WSU		
●	ECY		
■	USFS		

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
USFS 14030018: 6/2003 to 10/2003**

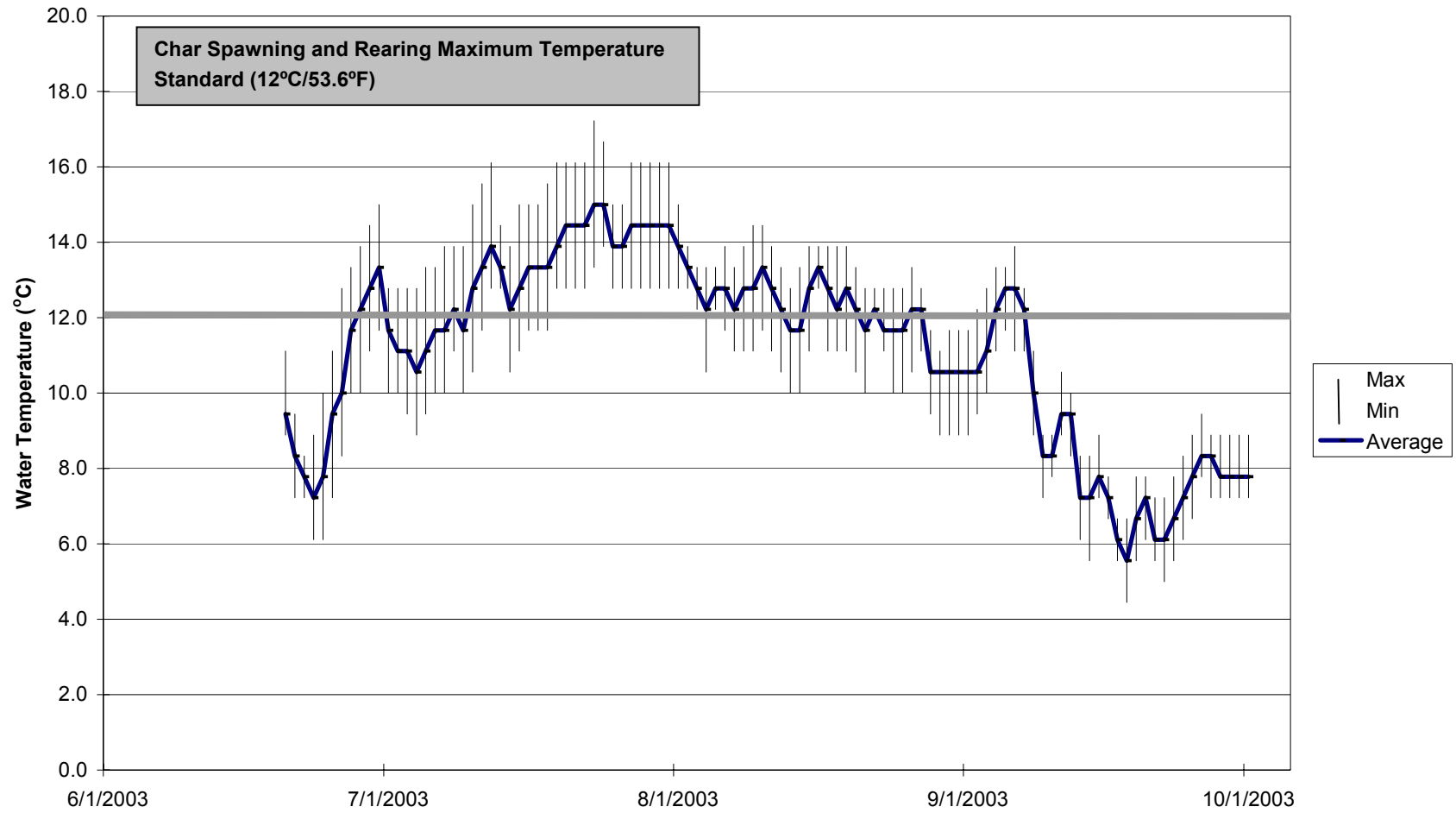


Exhibit 5-5.5

**Temperature Monitoring in Pataha Creek near Columbia Center
WSU Pataha 5: 1999 to 2001, and 2003
Ecology 35F110: 2002 Water Year**

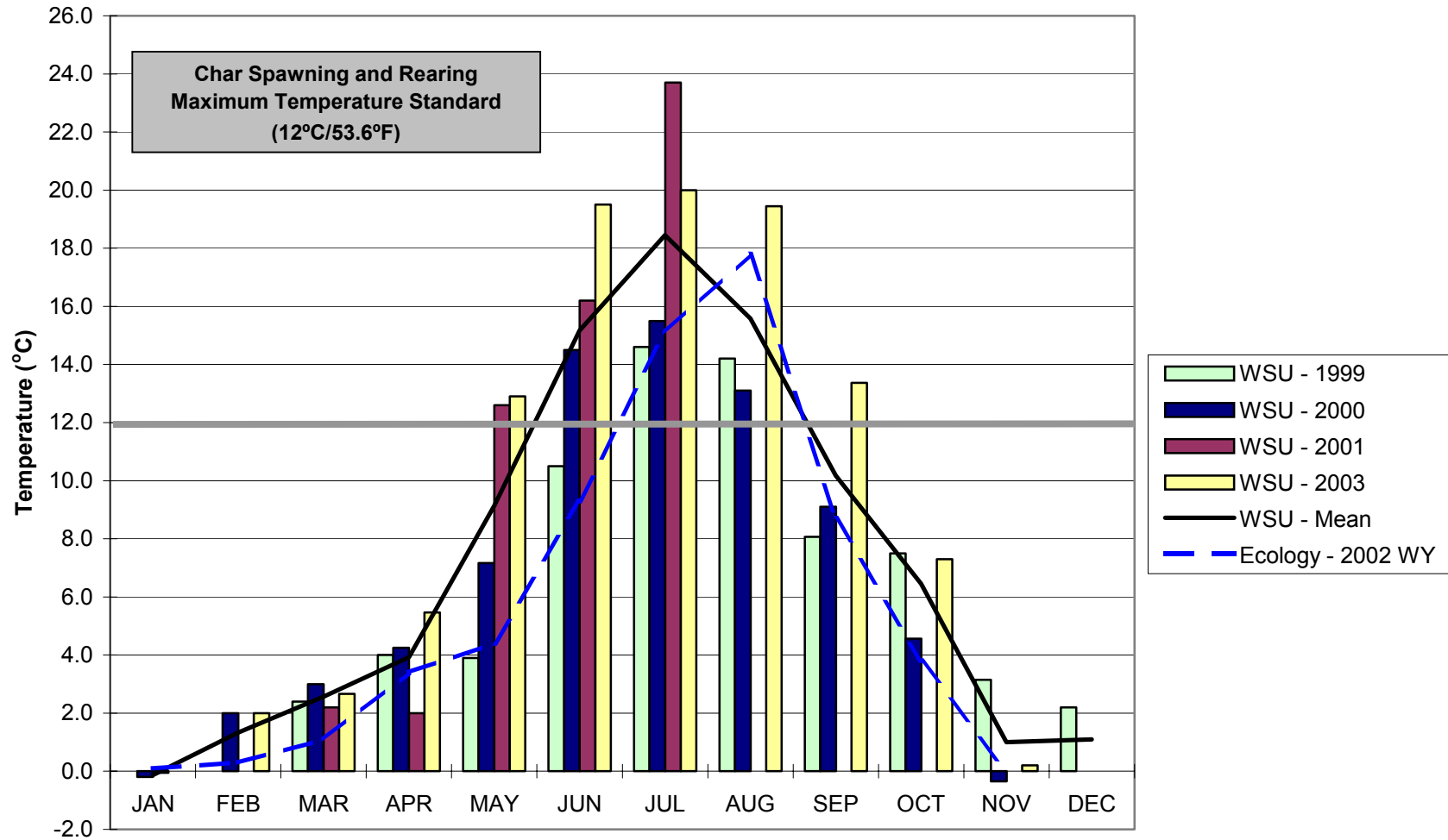


Exhibit 5-5.6

**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**

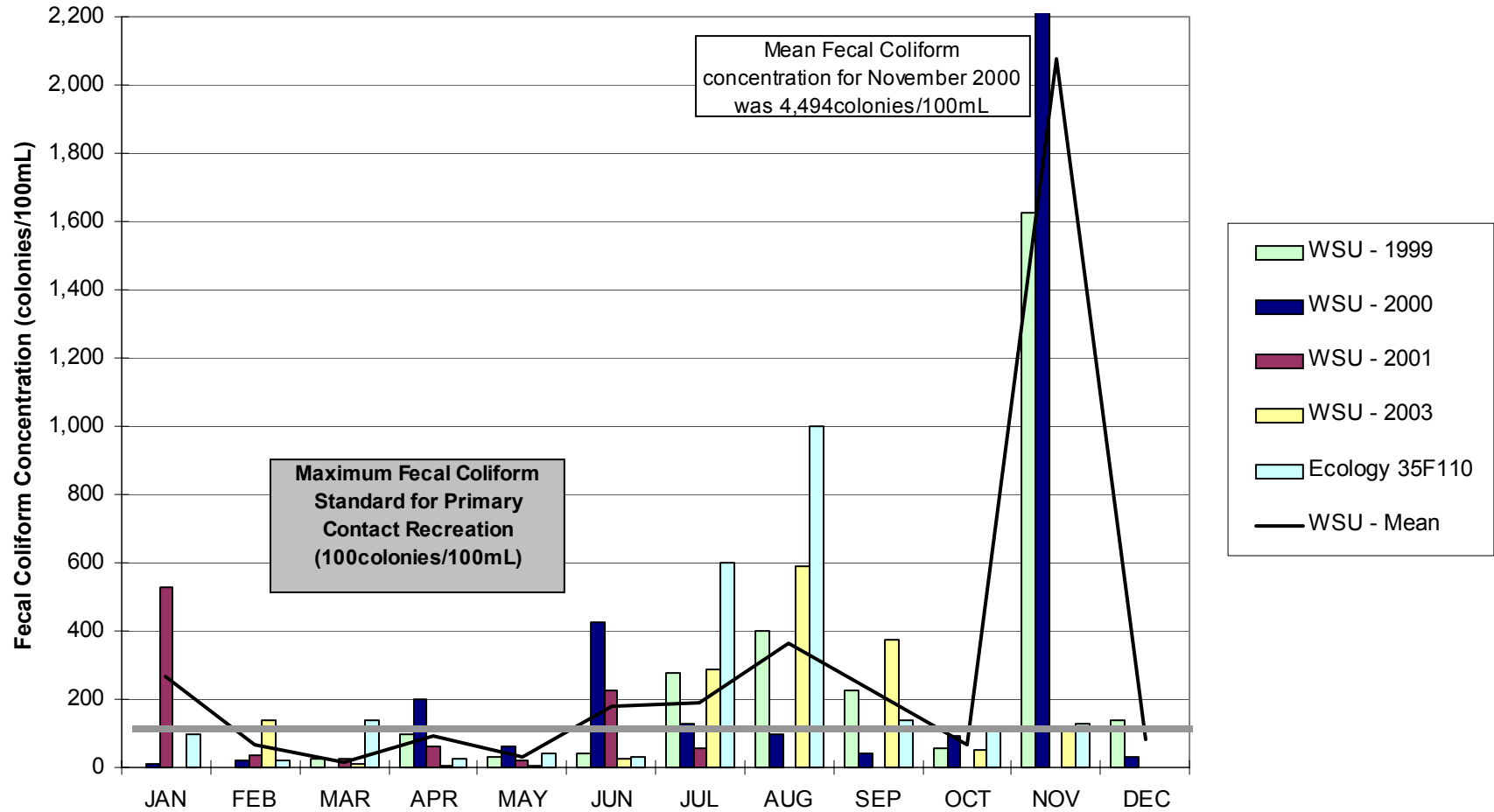


Exhibit 5-5.7

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

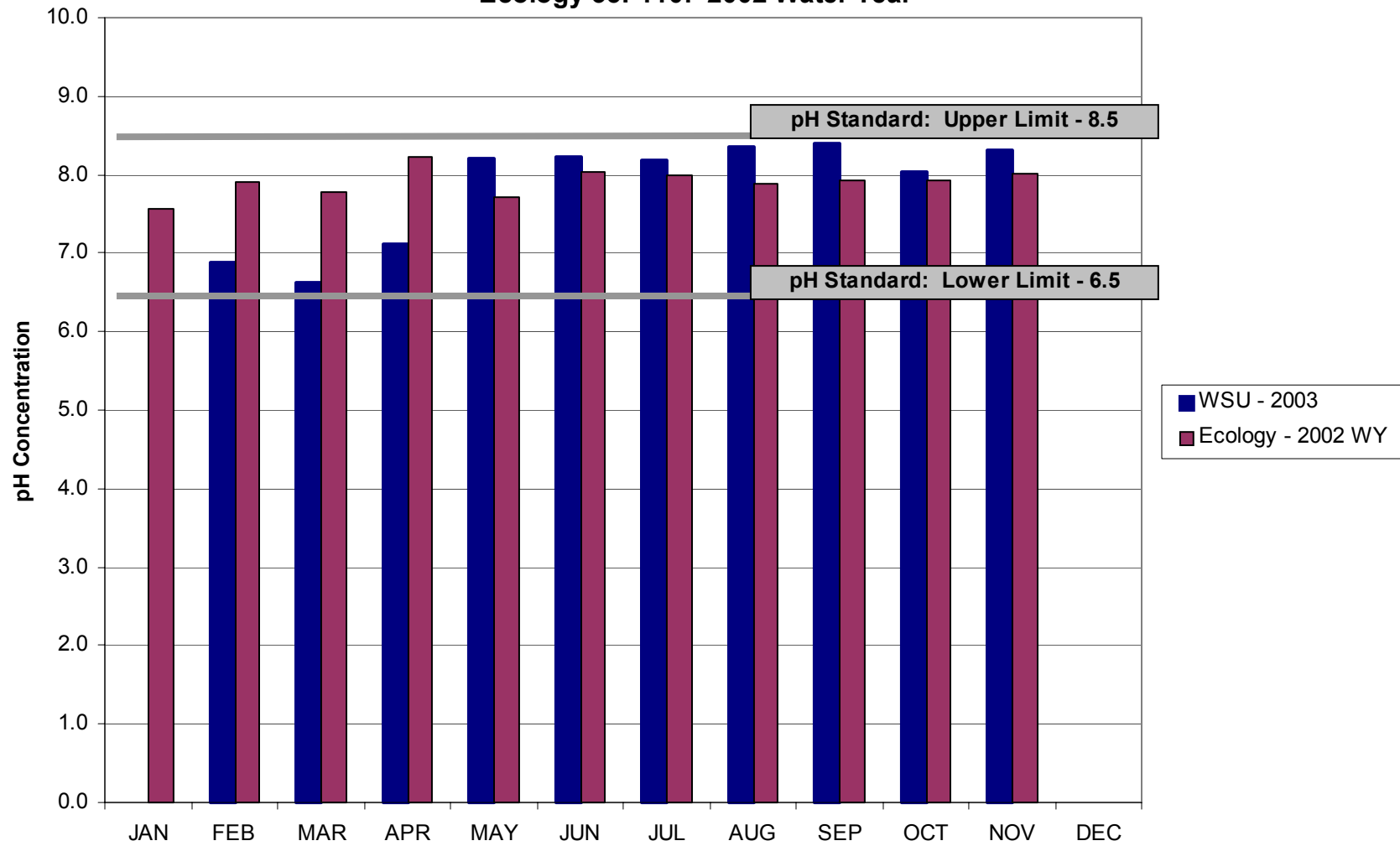


Exhibit 5-5.8

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

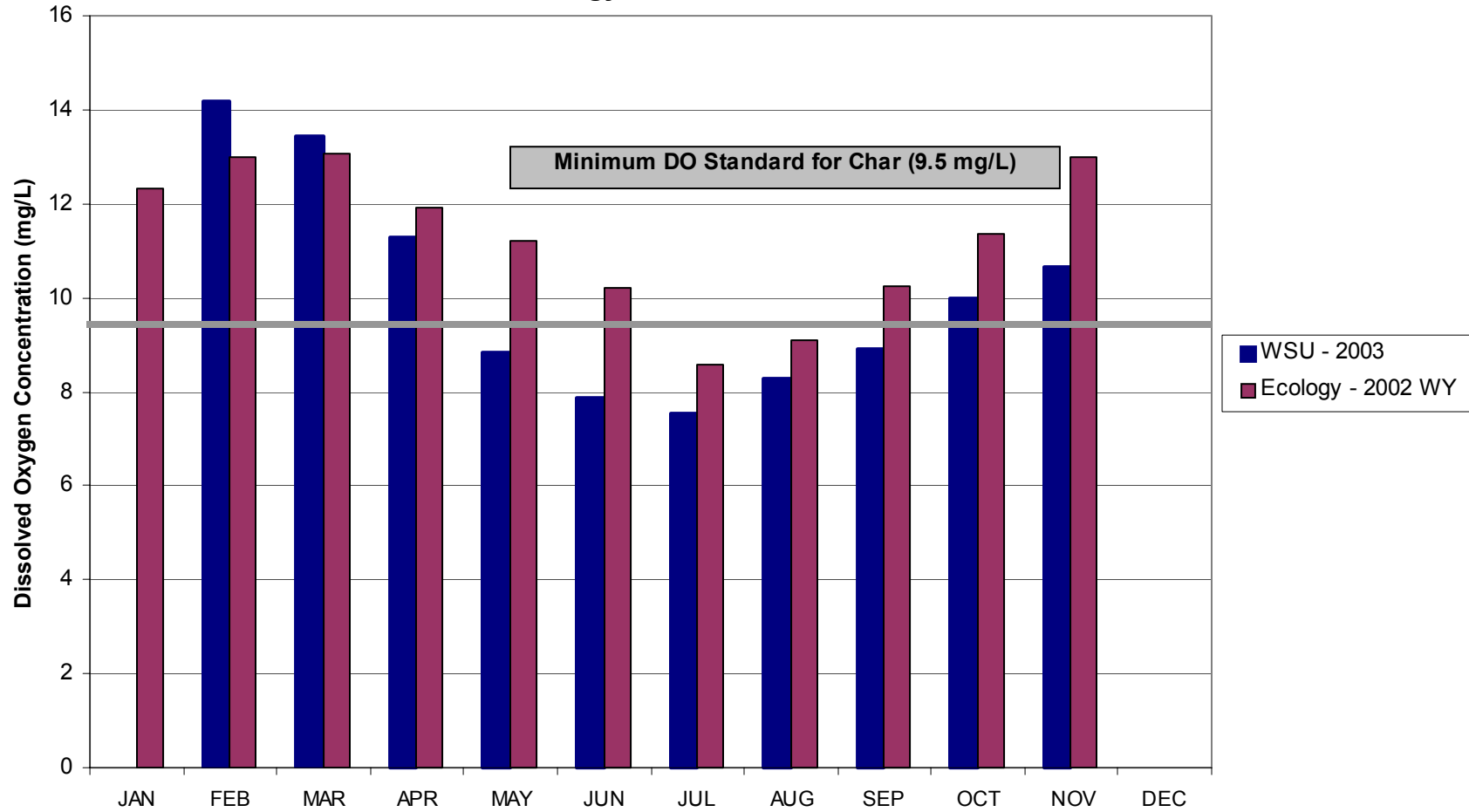


Exhibit 5-5.9

**Turbidity Monitoring in Pataha Creek upstream from Dry Pataha Creek Confluence
USFS 14030018: 1999 to 2001
Ecology 35F110: 2002 Water Year**

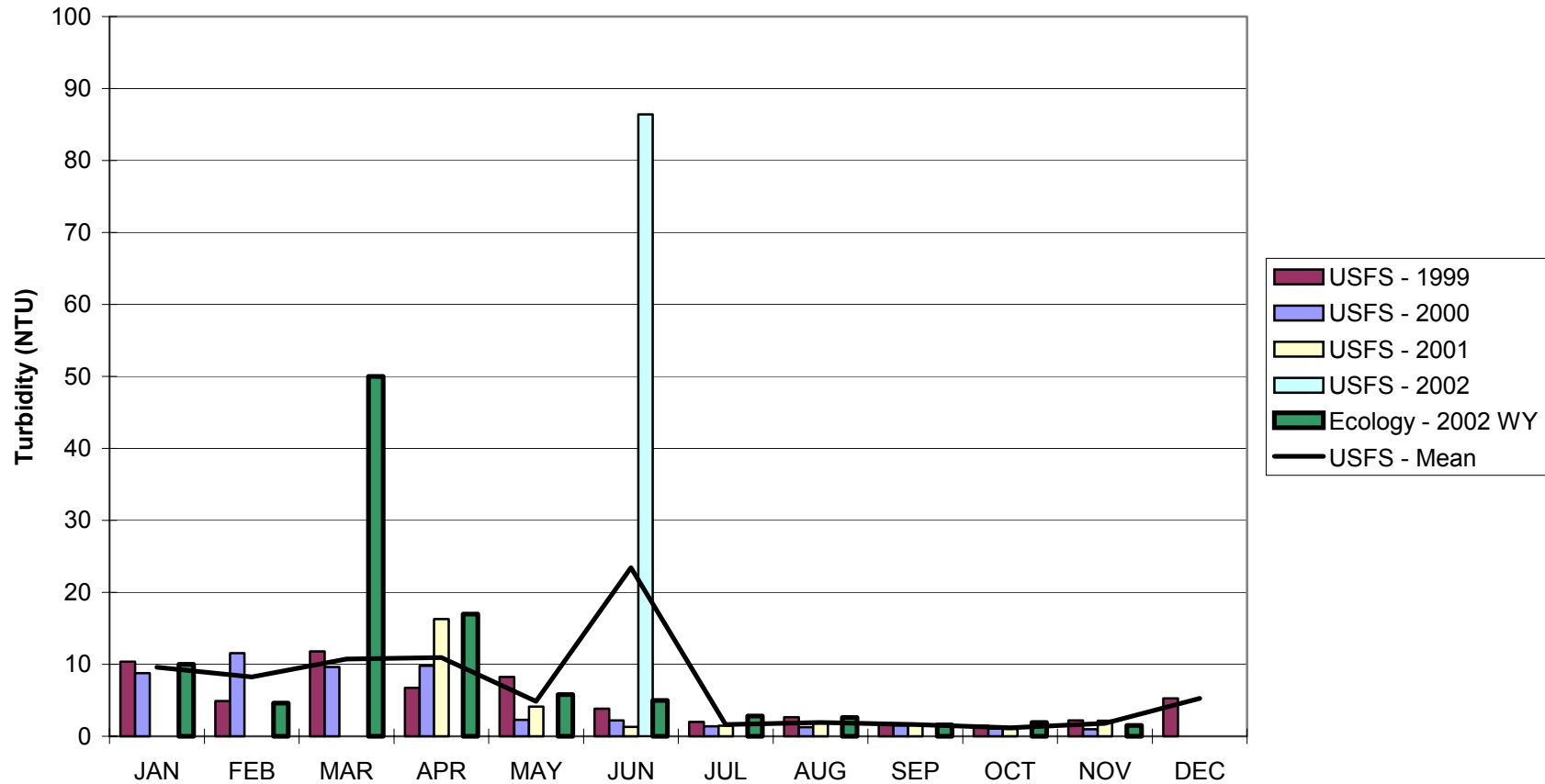


Exhibit 5-5.10

**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**

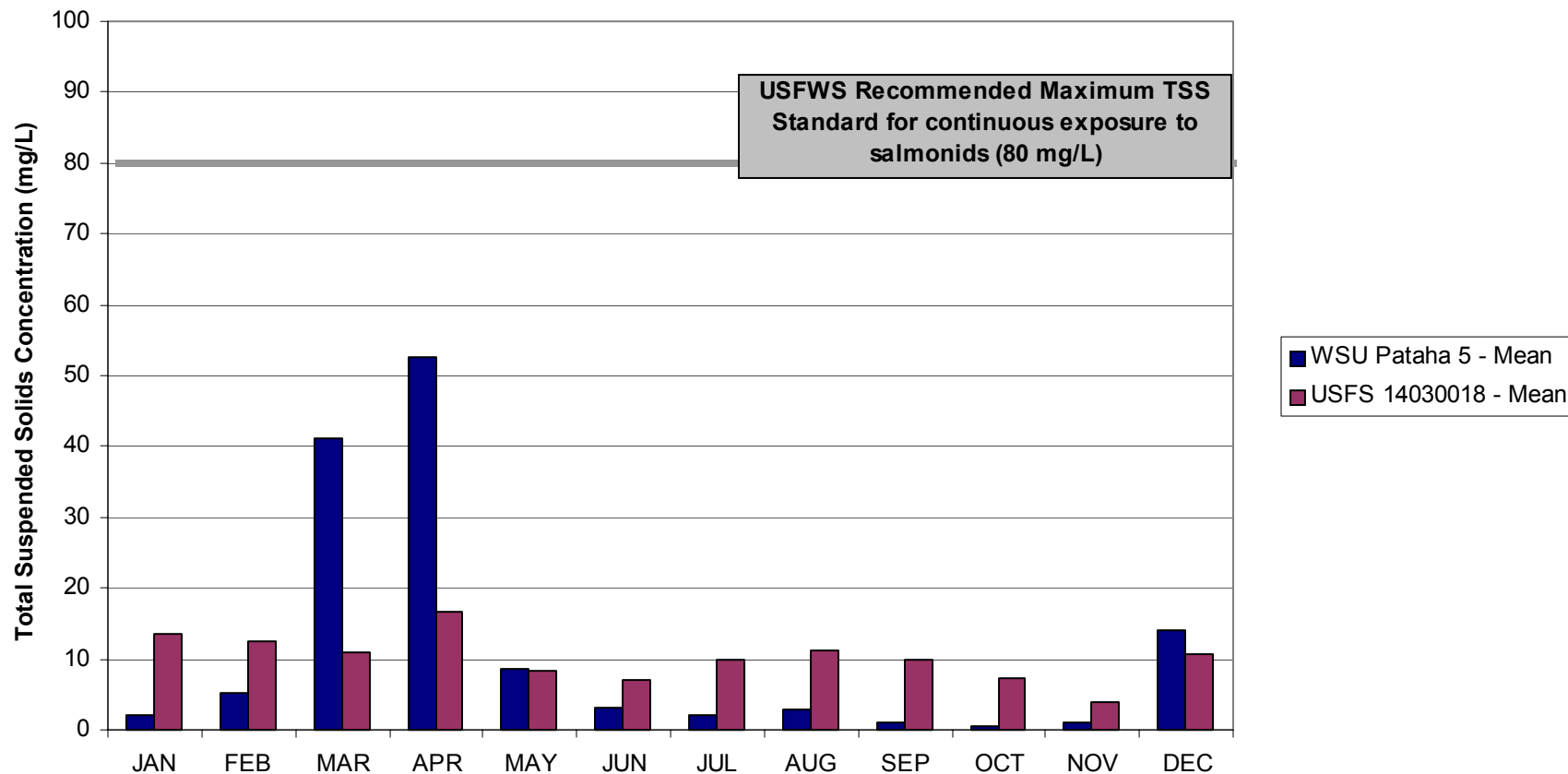


Exhibit 5-5.11

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

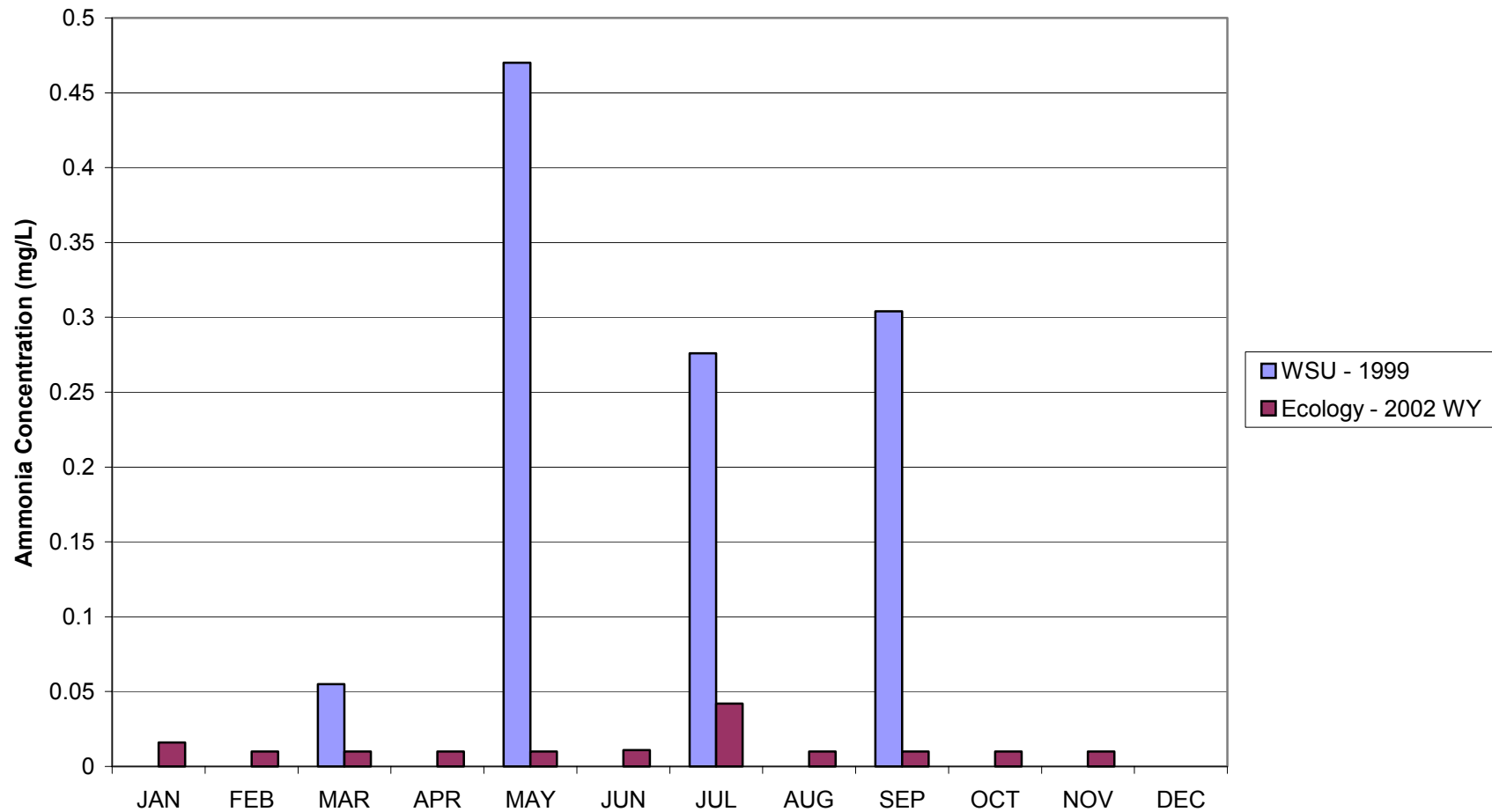


Exhibit 5-5.12

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

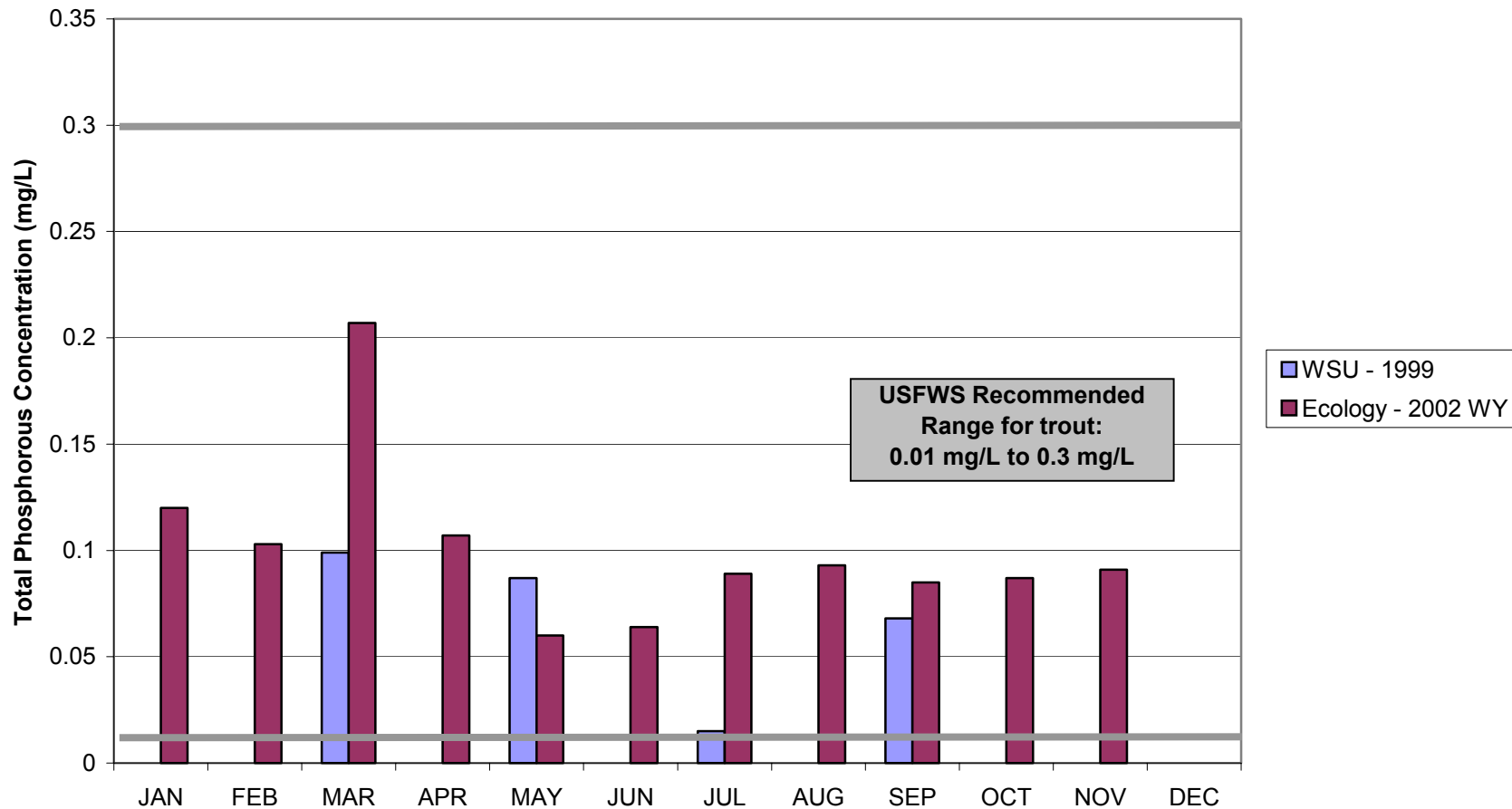
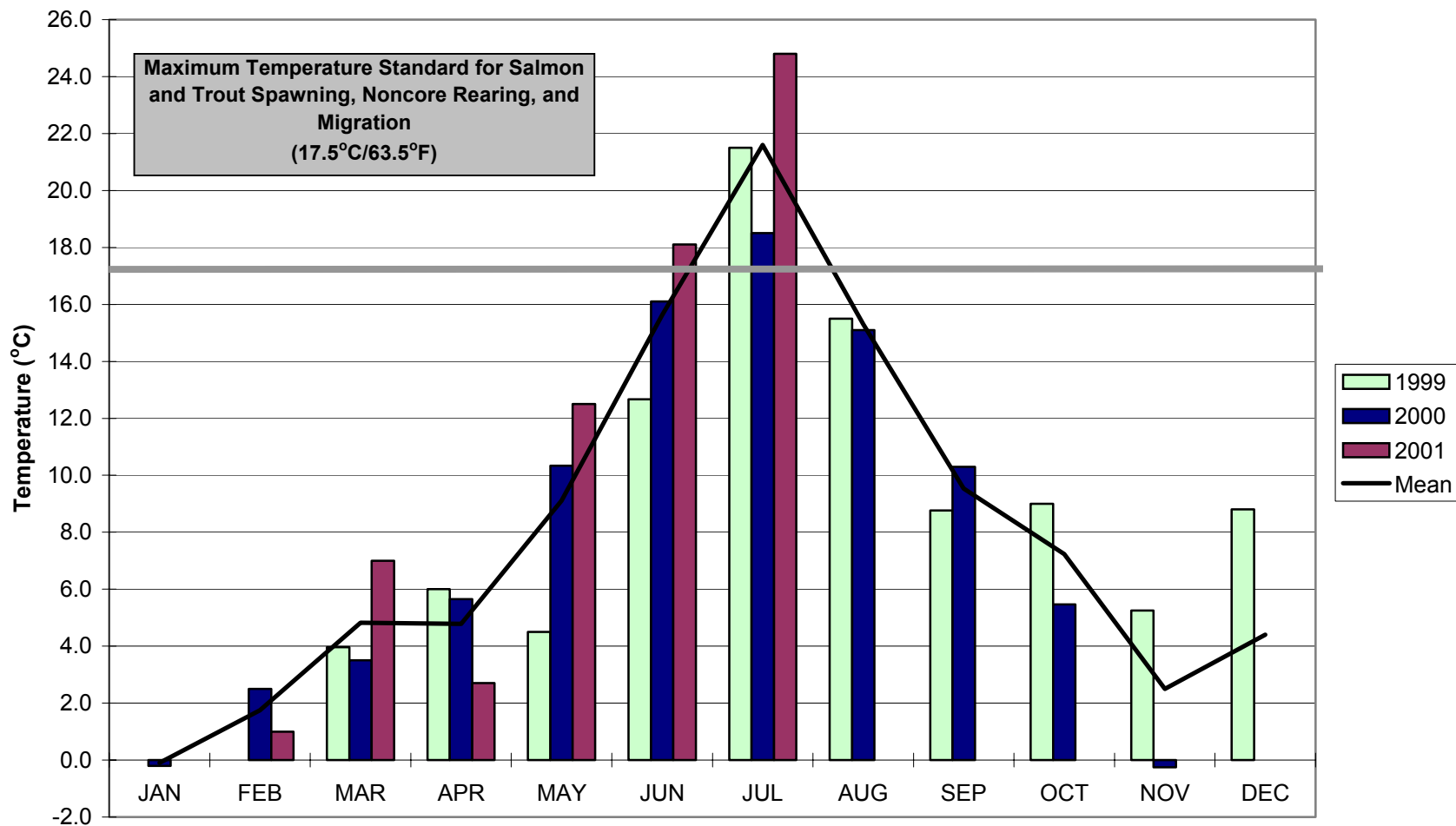


Exhibit 5-5.13

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



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

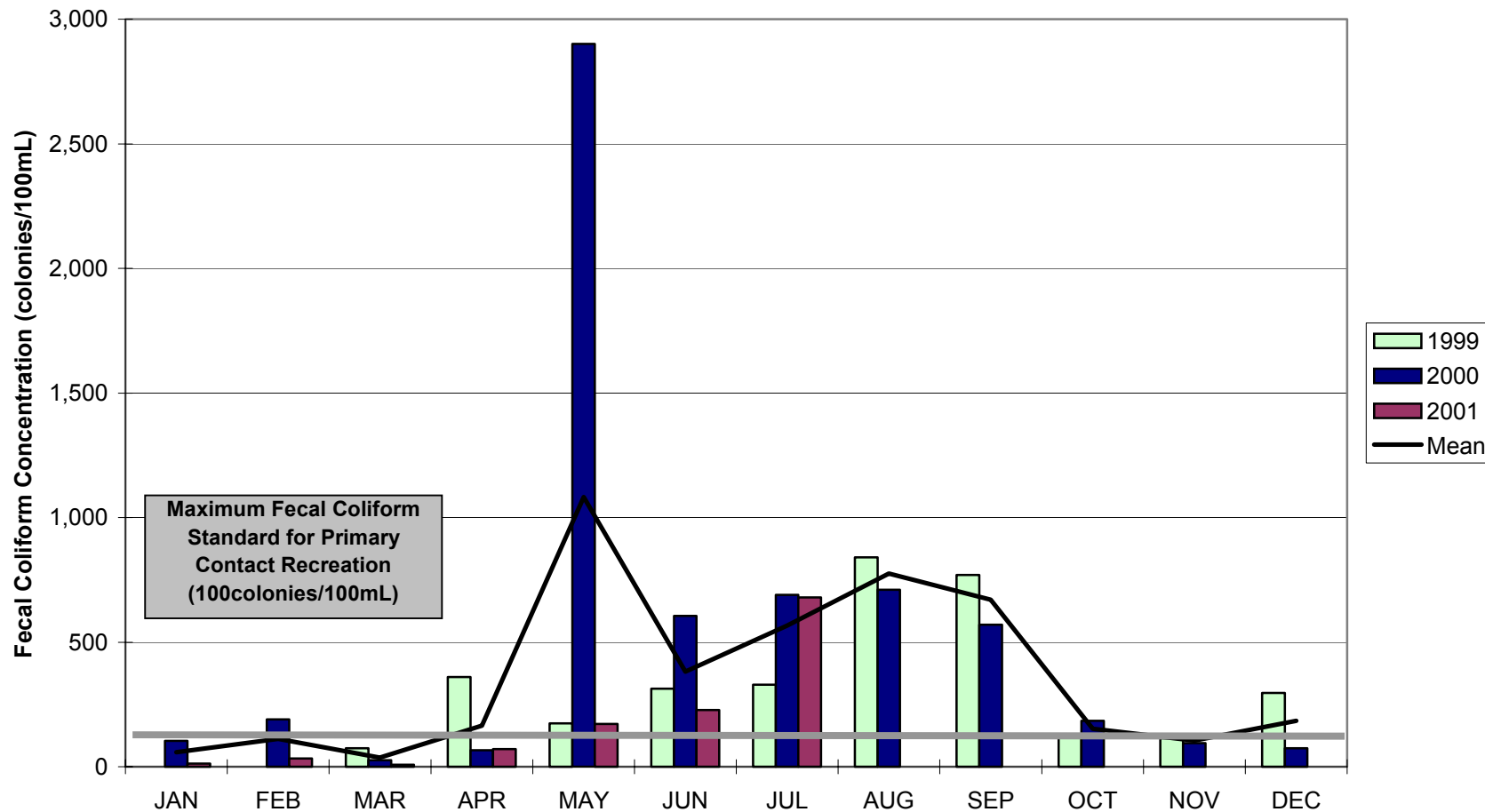


Exhibit 5-5.15

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

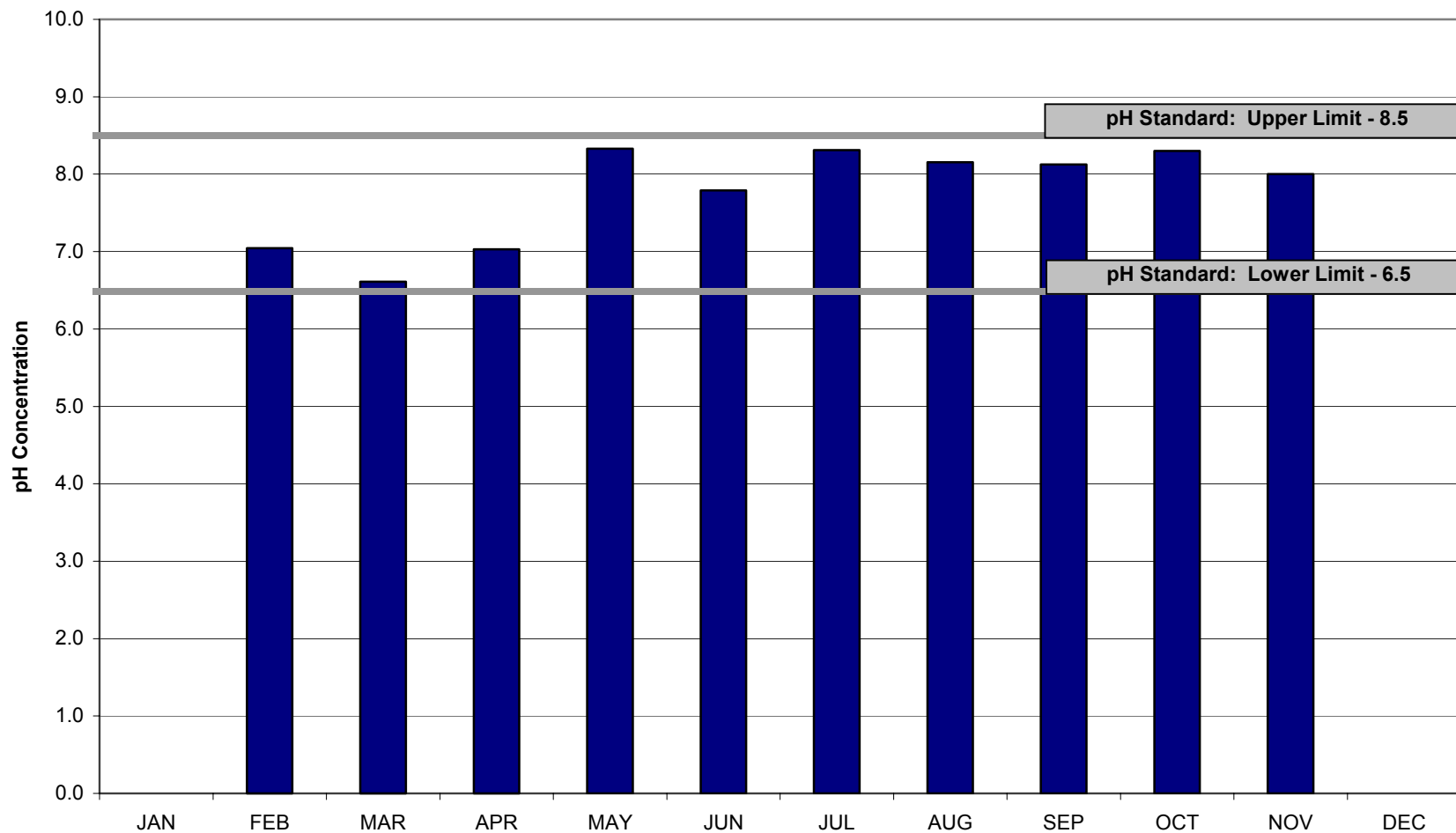
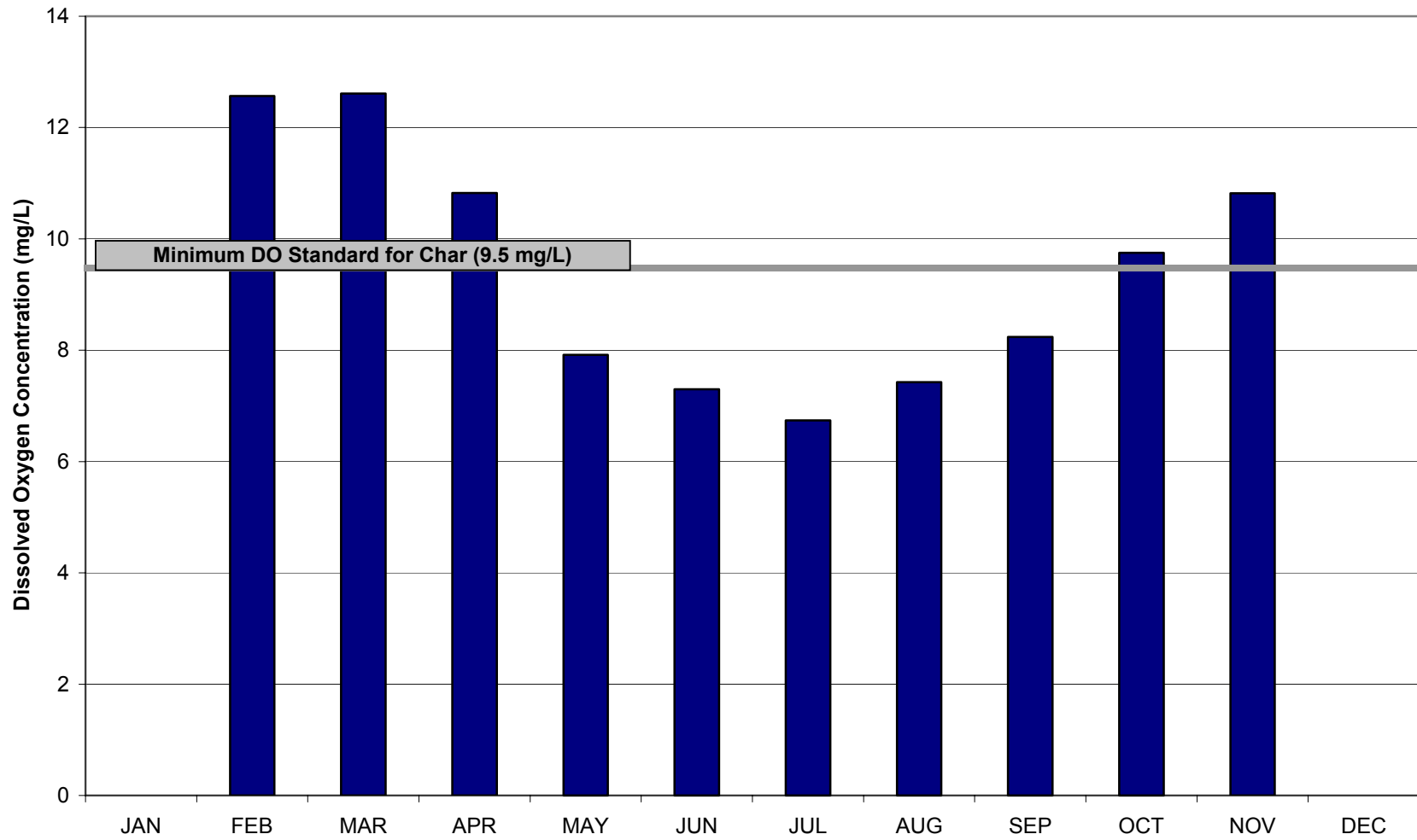


Exhibit 5-5.16

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



**Total Suspended Solids Monitoring in Pataha Creek upstream of Sweeney Gulch Confluence
WSU Pataha 4: 1999 to 2001, 2003**

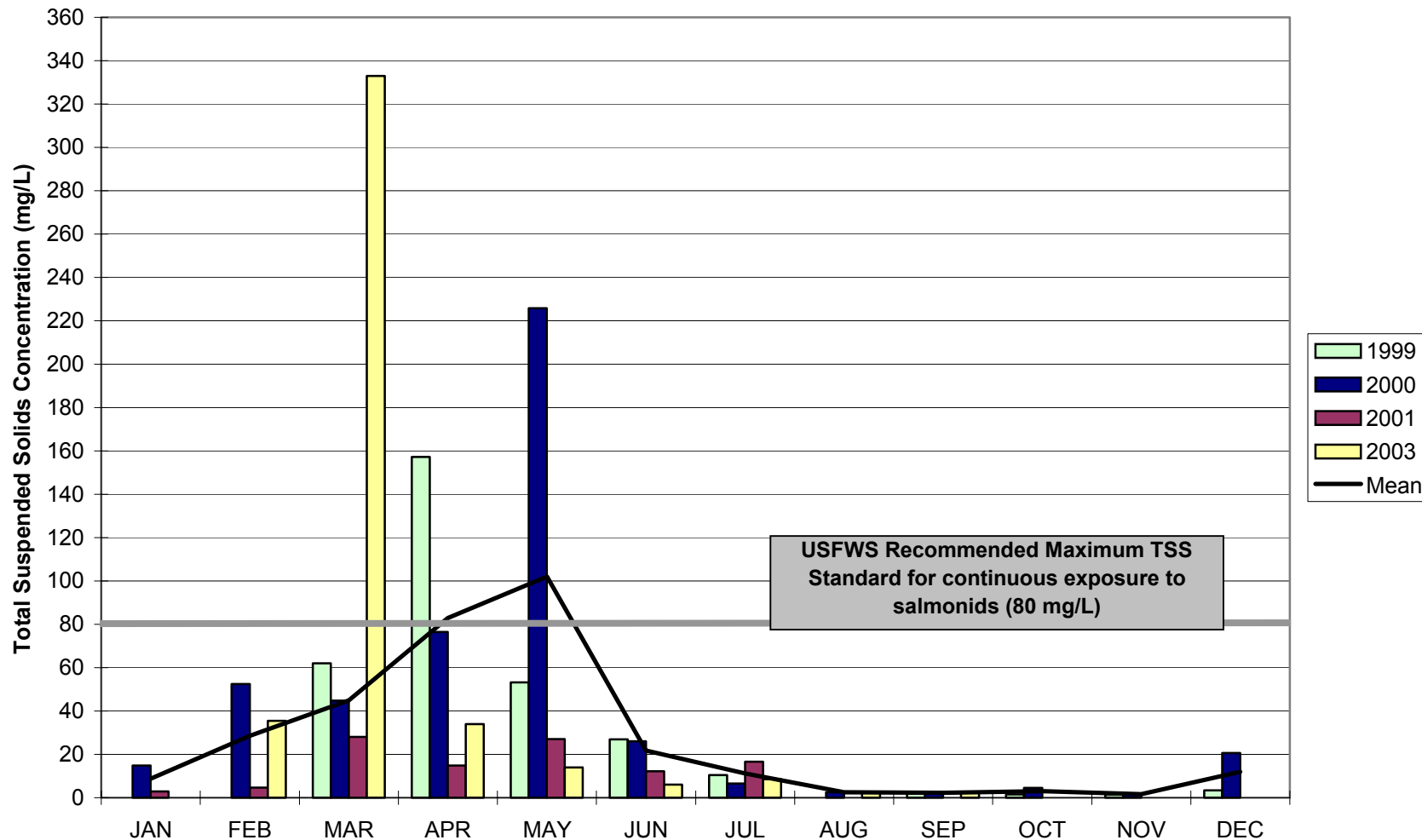


Exhibit 5-5.18

**2003 Water Temperature Monitoring in Pataha Creek at Pomeroy
USFS 14030008: 6/2003 to 11/2003**

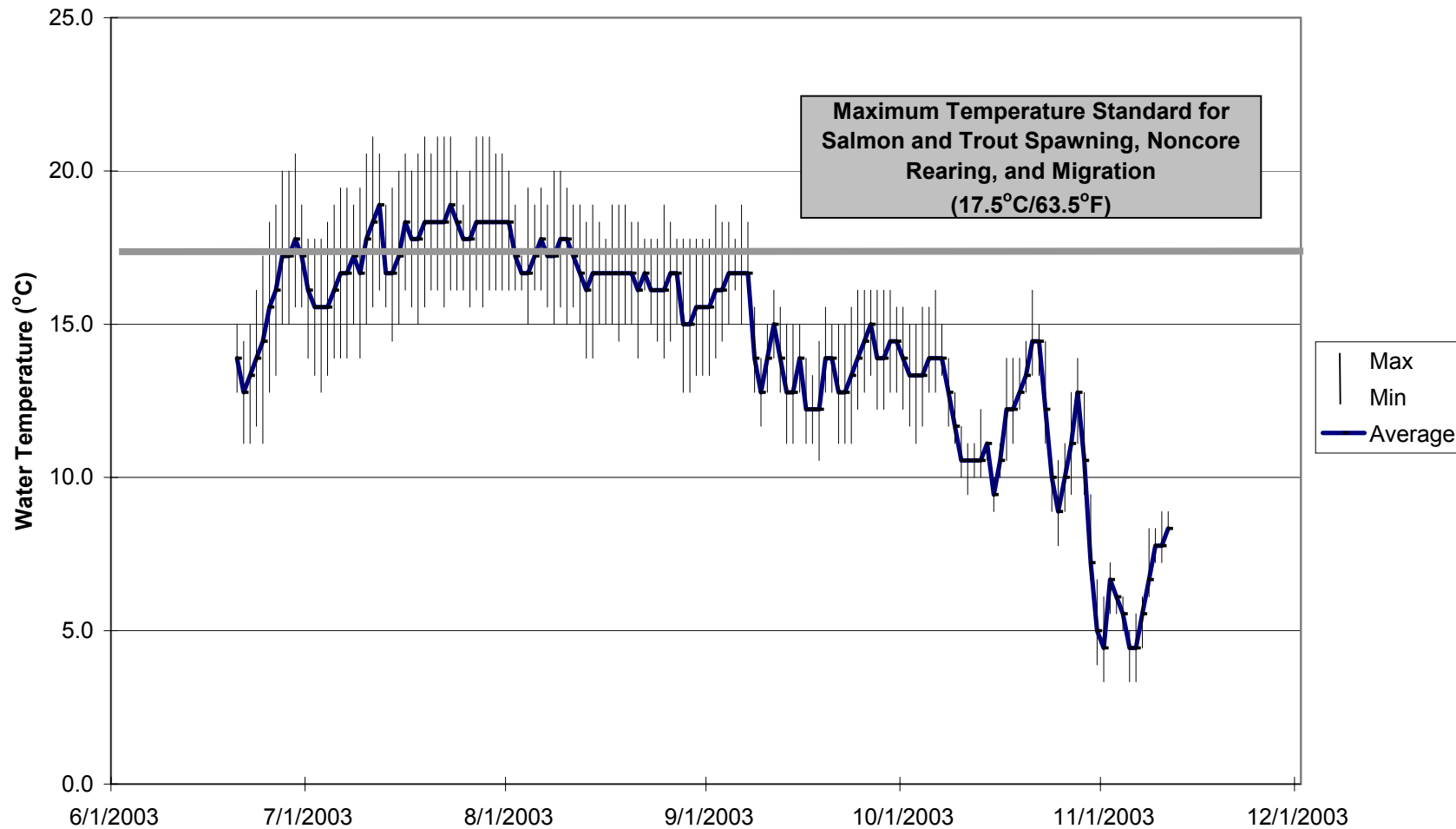
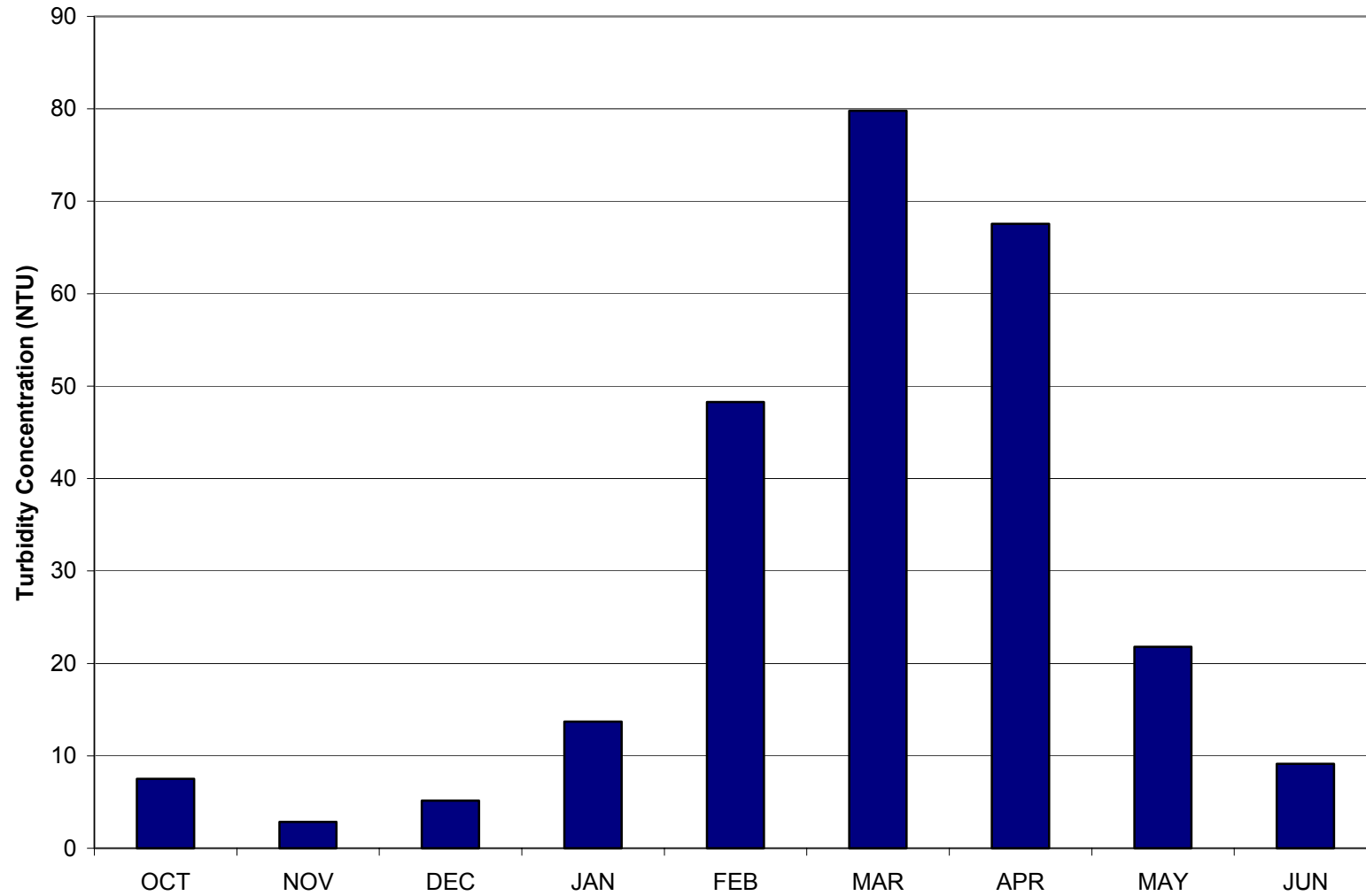


Exhibit 5-5.19

**Turbidity Monitoring in Pataha Creek near Pomeroy
USFS 14030008: October 2001 to June 2002**



**Total Suspended Solids Monitoring in Pataha Creek near Pomeroy
USFS 14030008: October 2001 to June 2002**

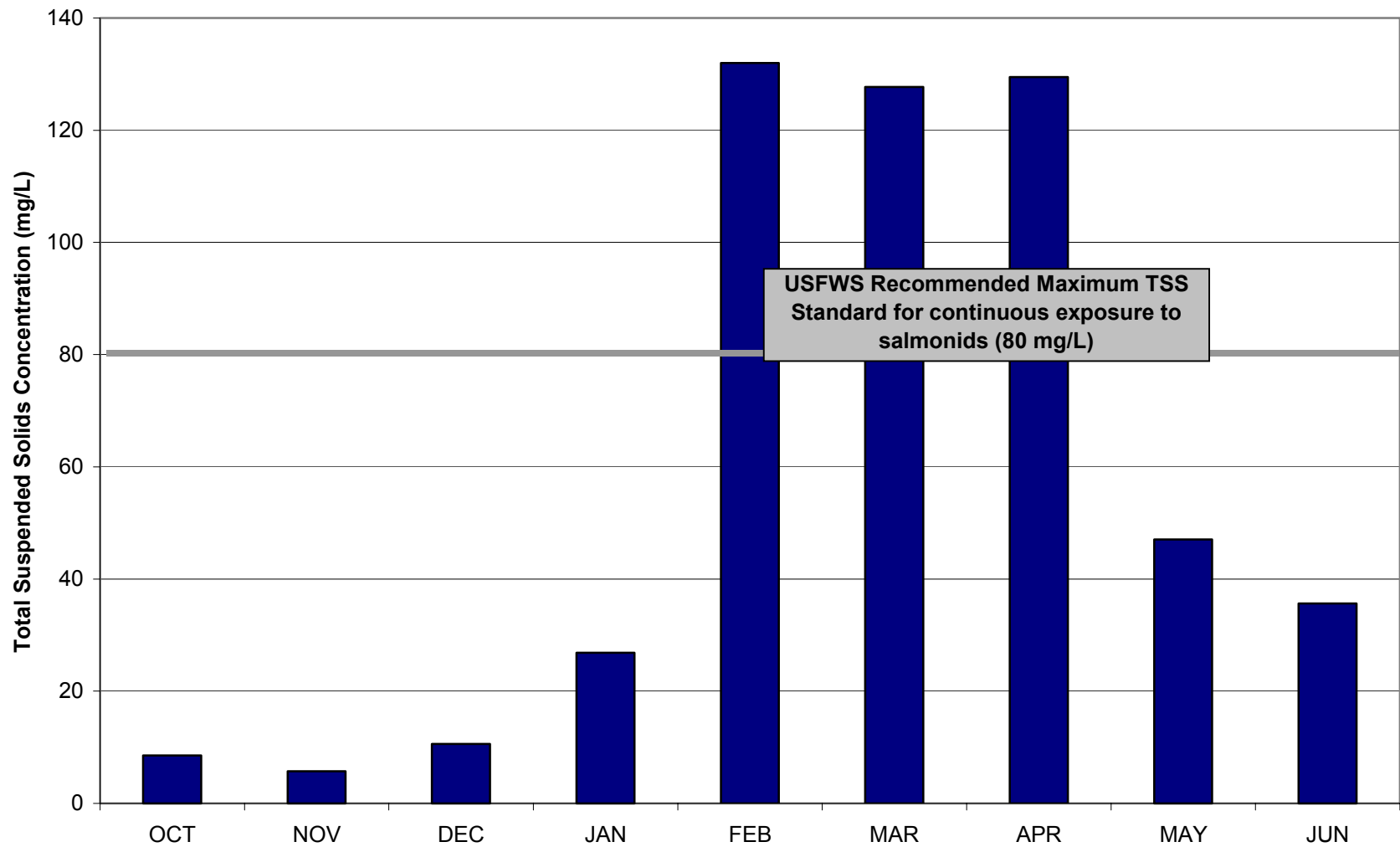


Exhibit 5-5.21

**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**

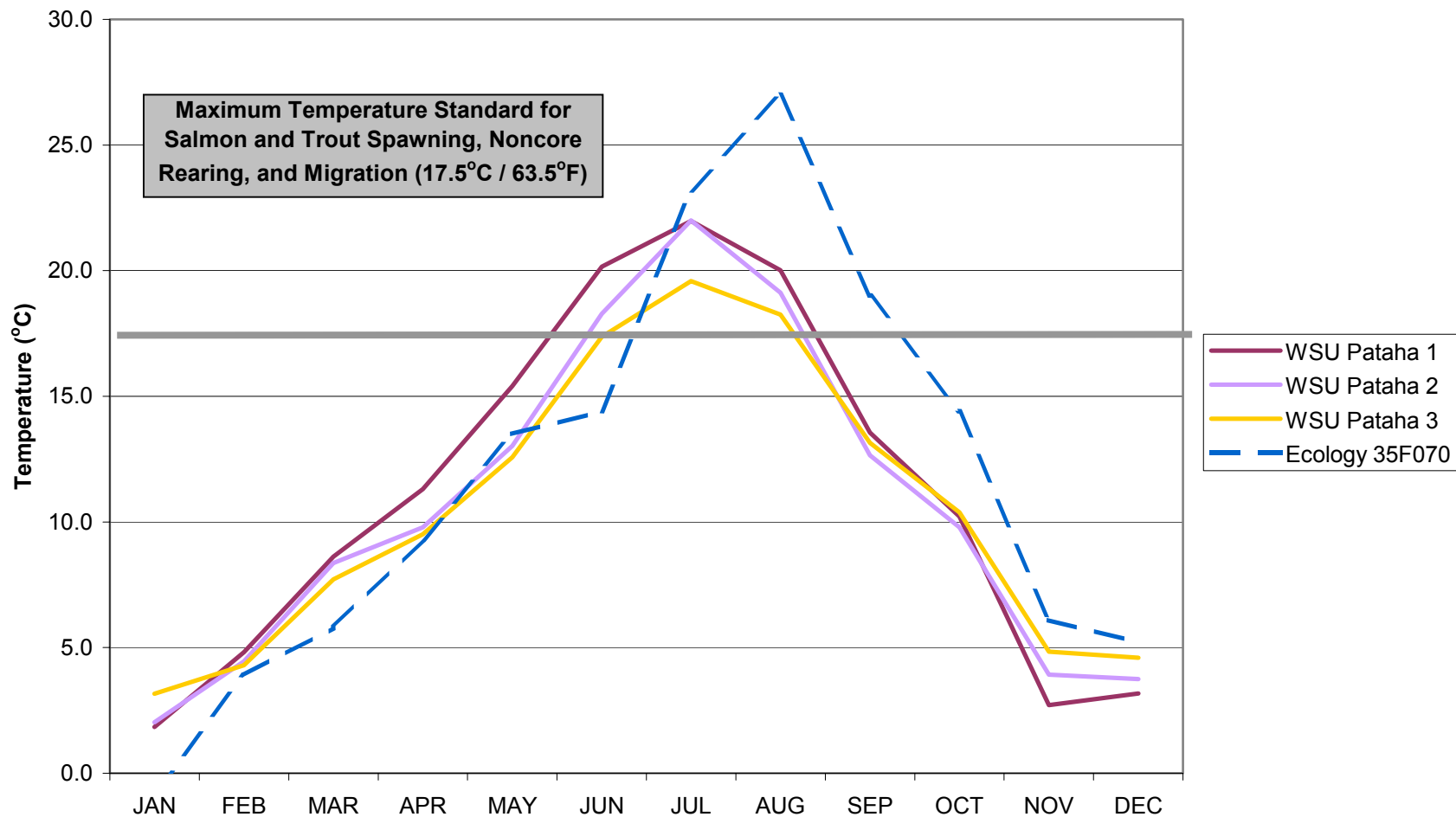


Exhibit 5-5.22

**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**

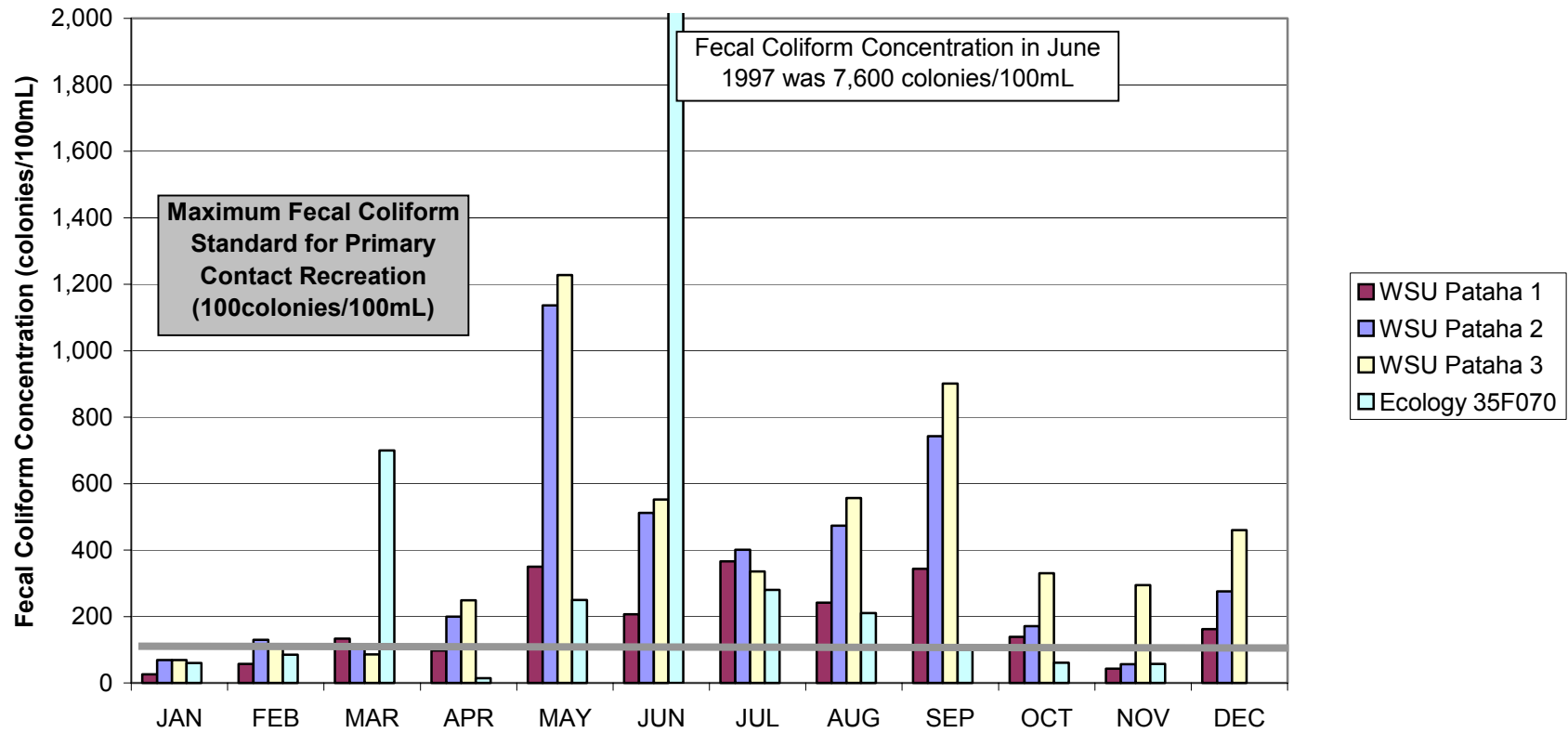


Exhibit 5-5.23

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

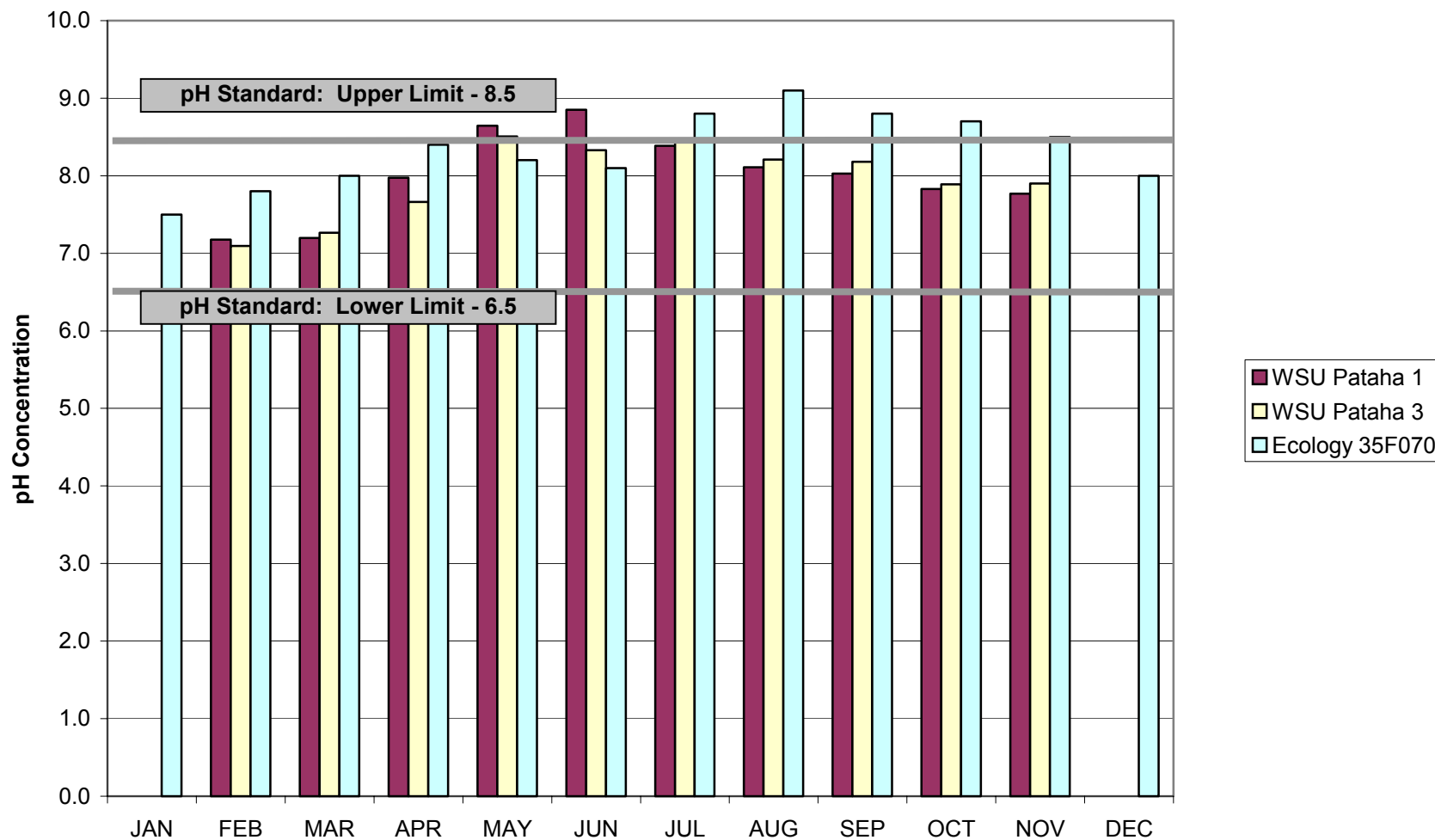


Exhibit 5-5.24

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

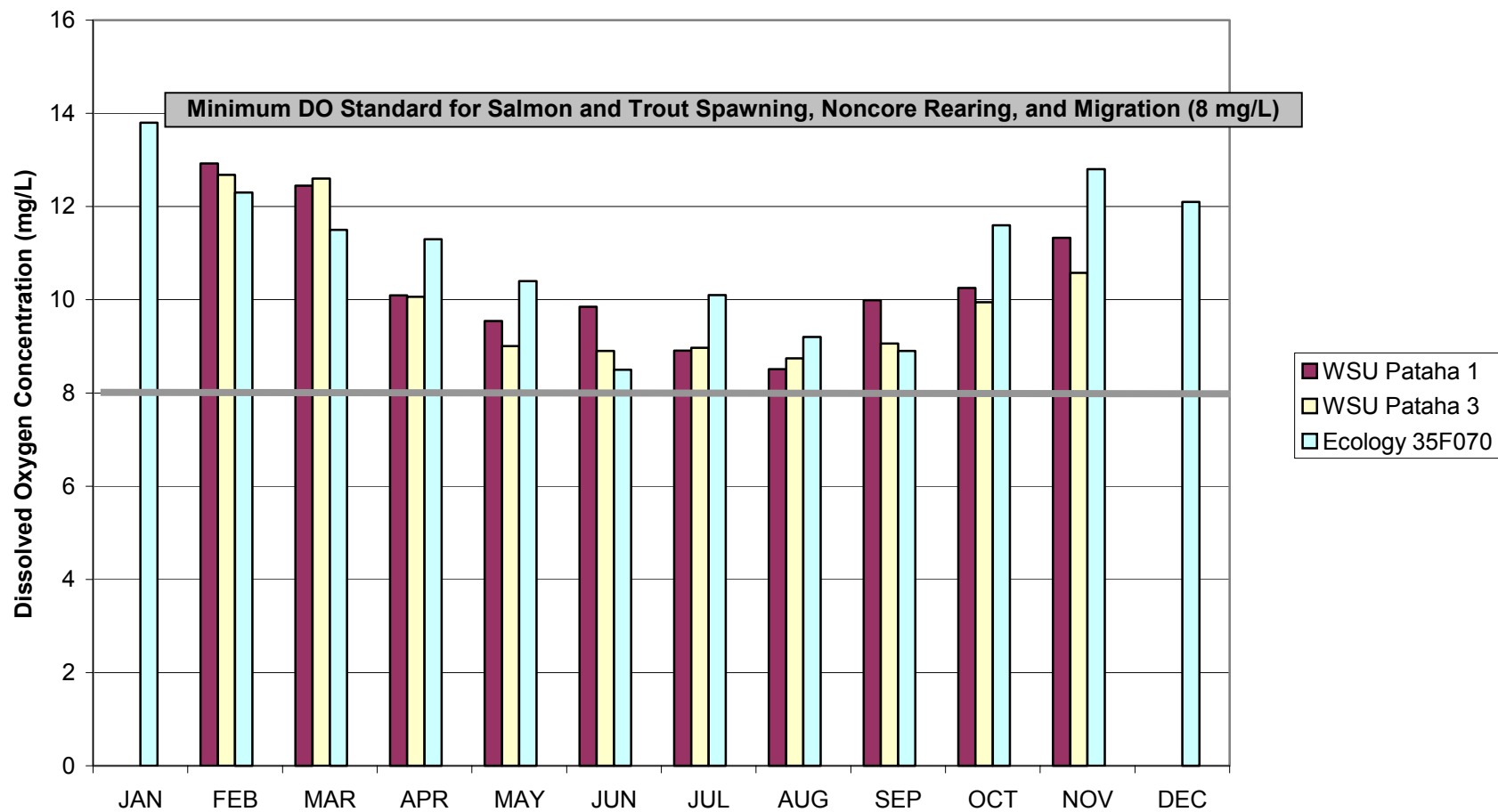


Exhibit 5-5.25

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

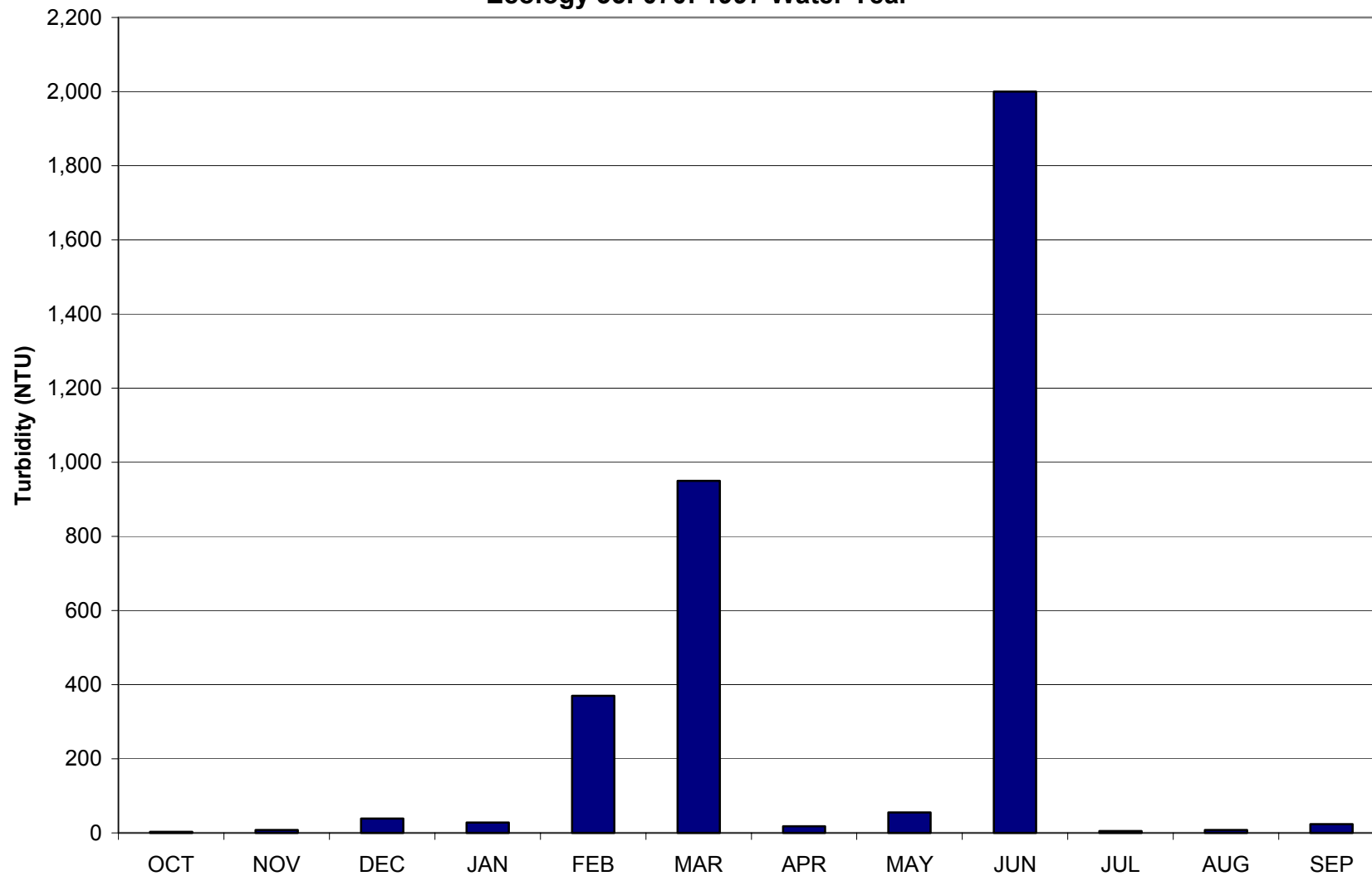


Exhibit 5-5.26

**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**

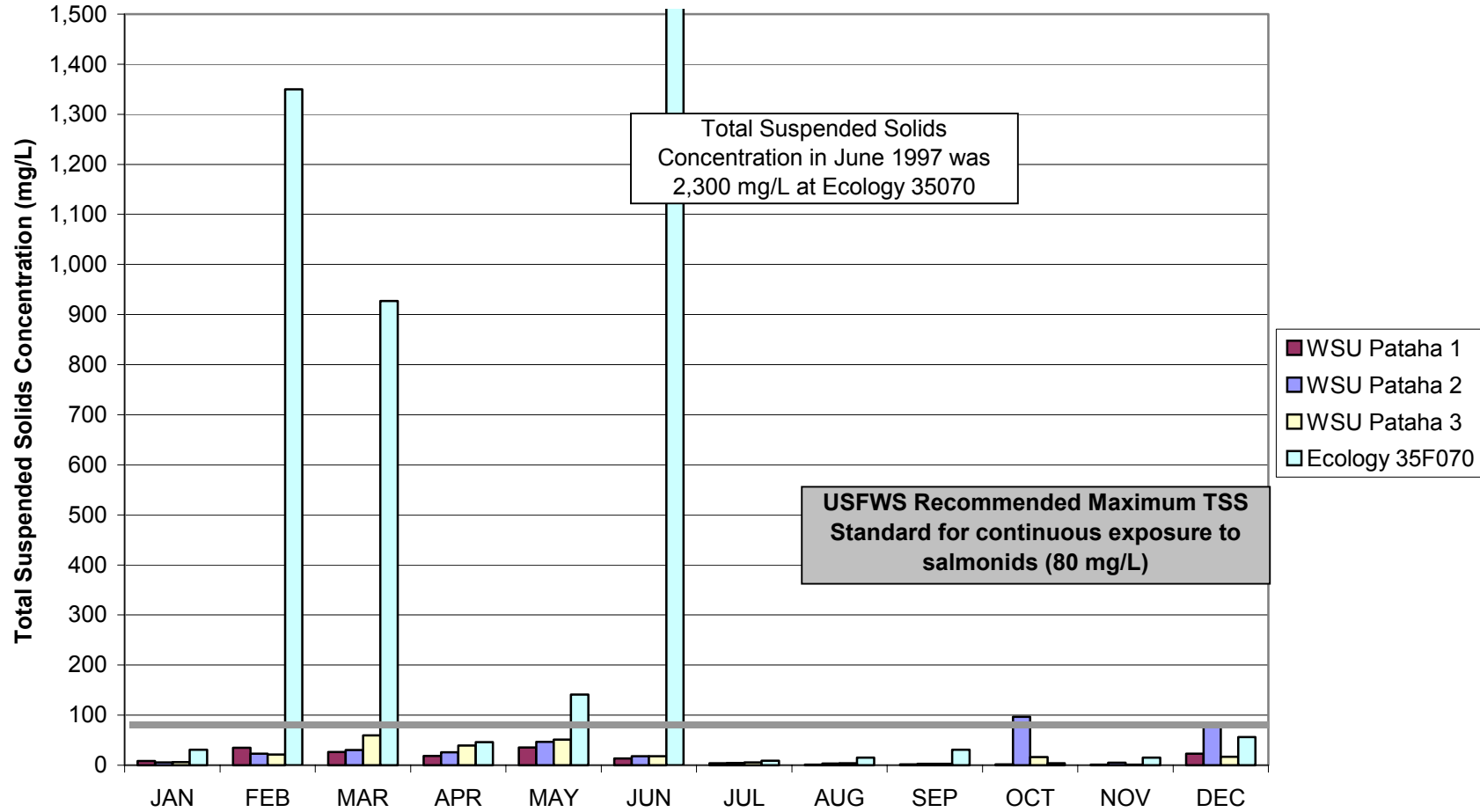


Exhibit 5-5.27

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

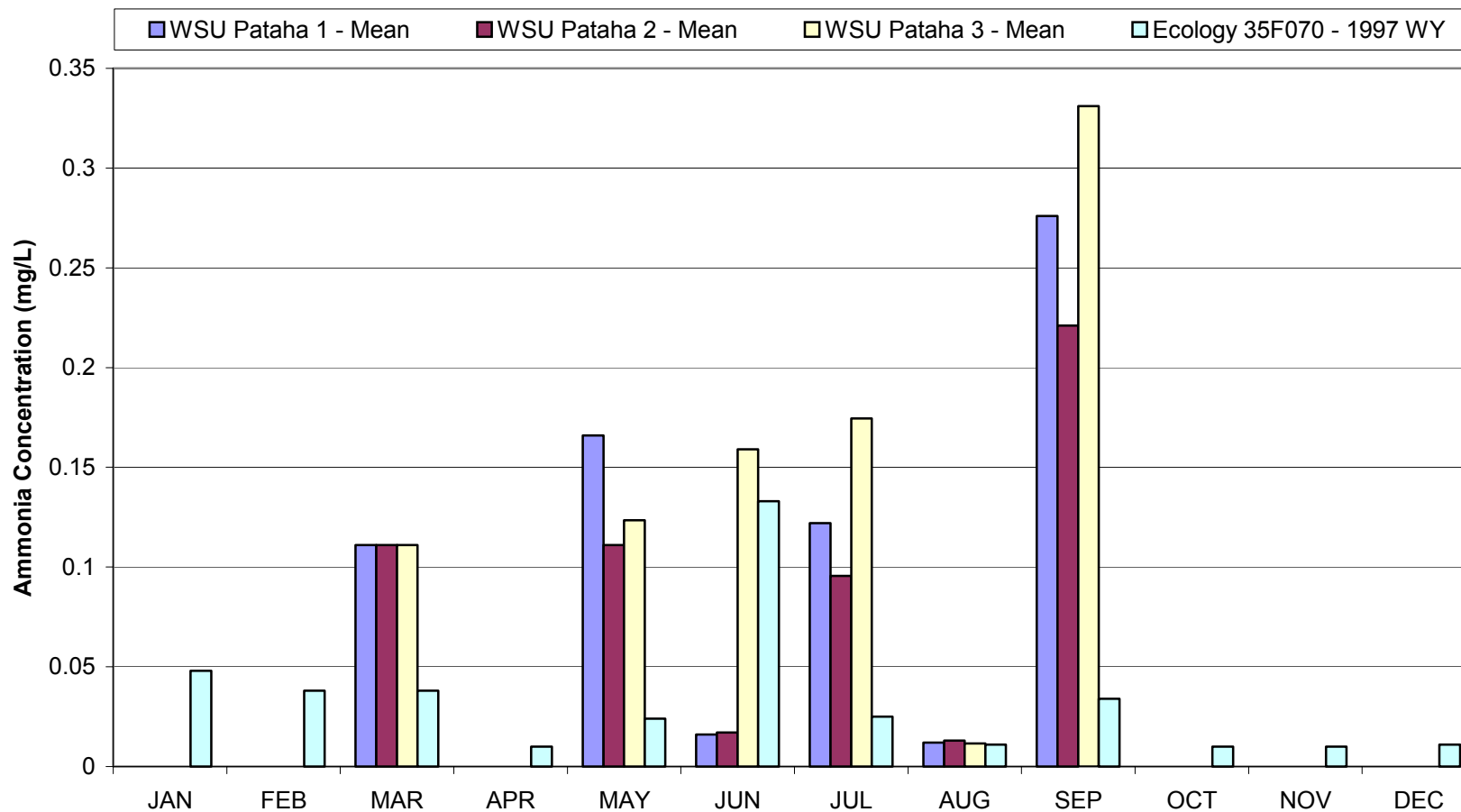


Exhibit 5-5.28

**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**

