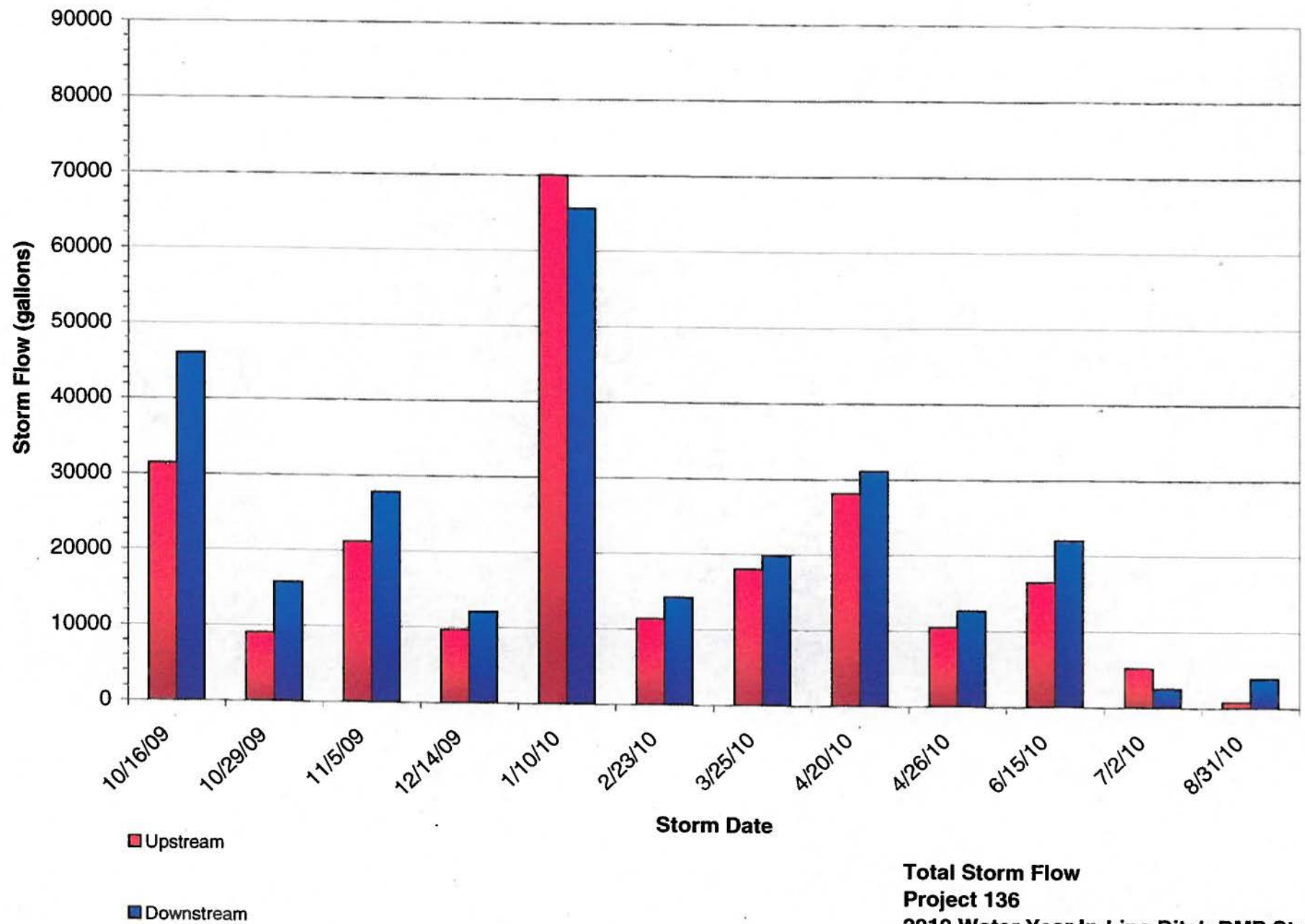
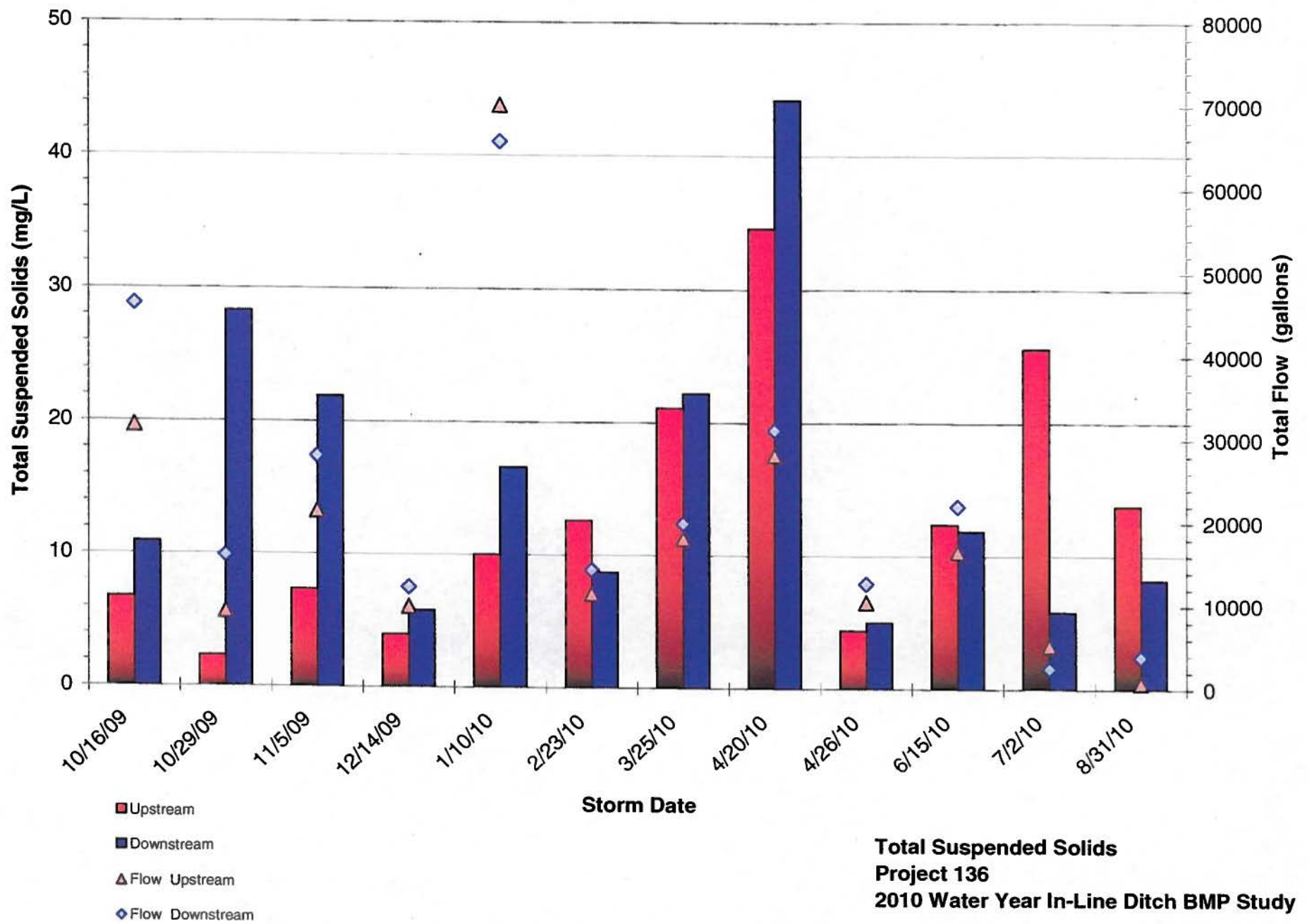


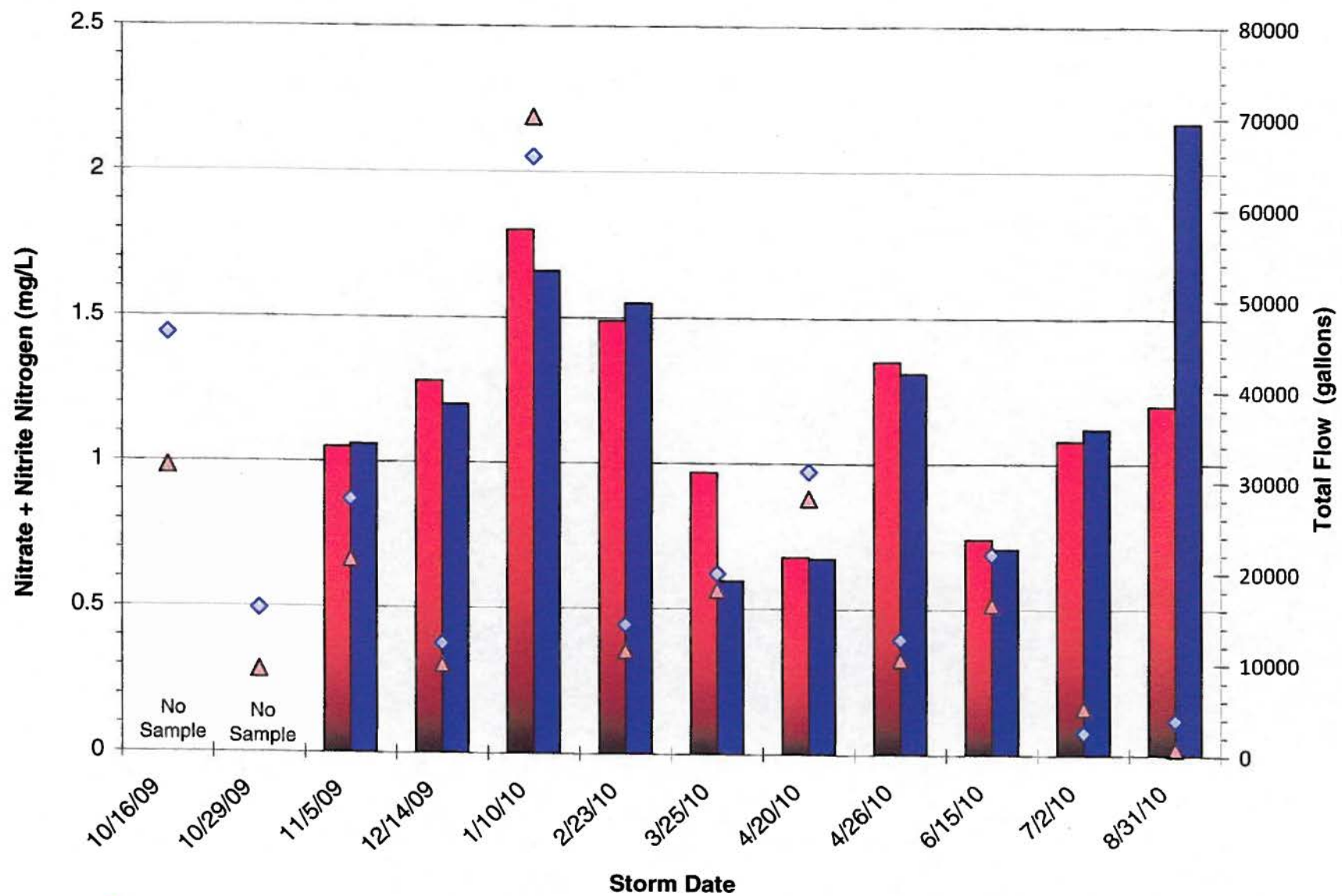
## **Appendix C.**

# **Analytical Result Charts**



**Total Storm Flow  
Project 136  
2010 Water Year In-Line Ditch BMP Study**

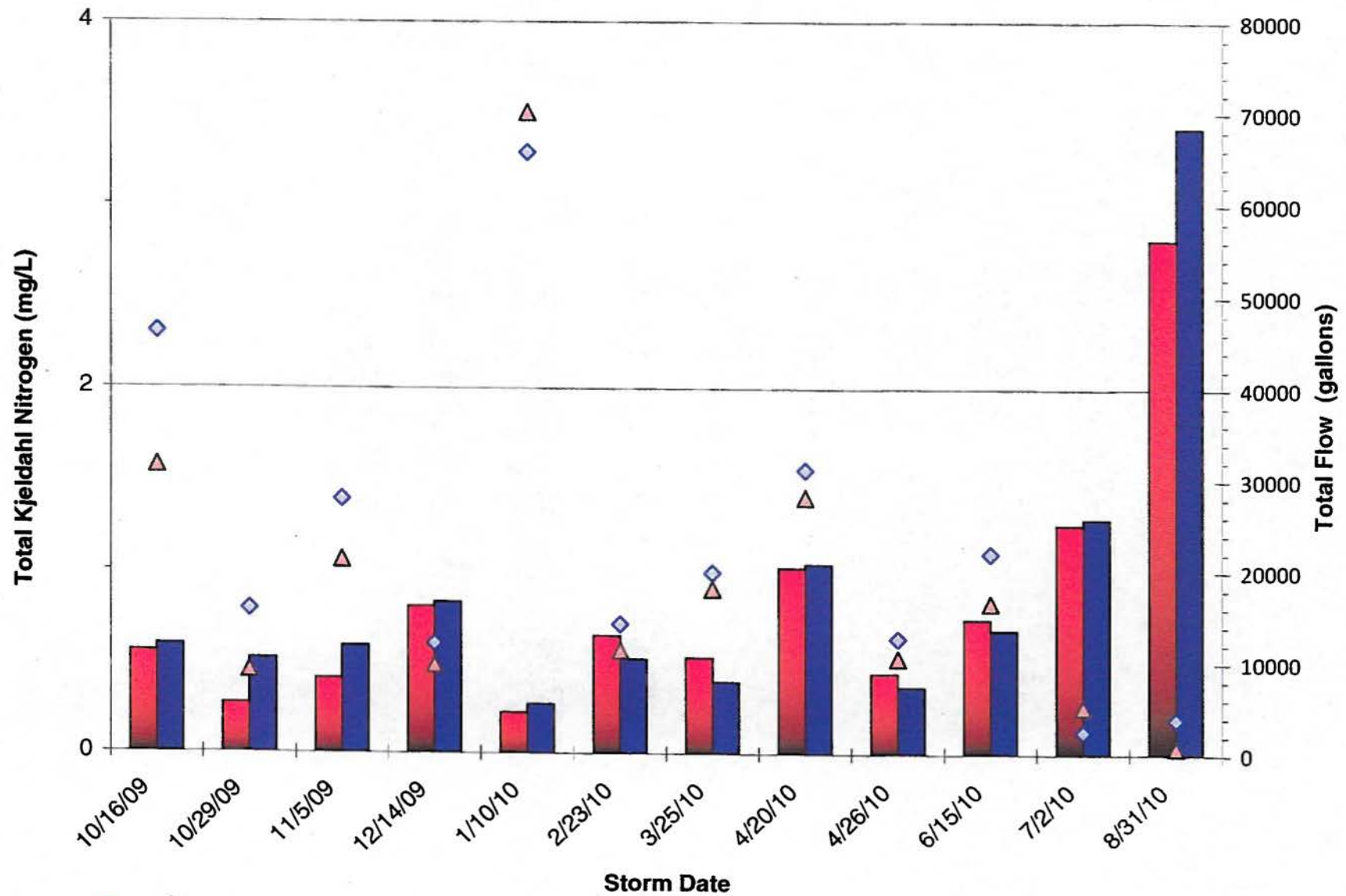




■ Upstream  
■ Downstream  
▲ Flow Upstream  
◆ Flow Downstream

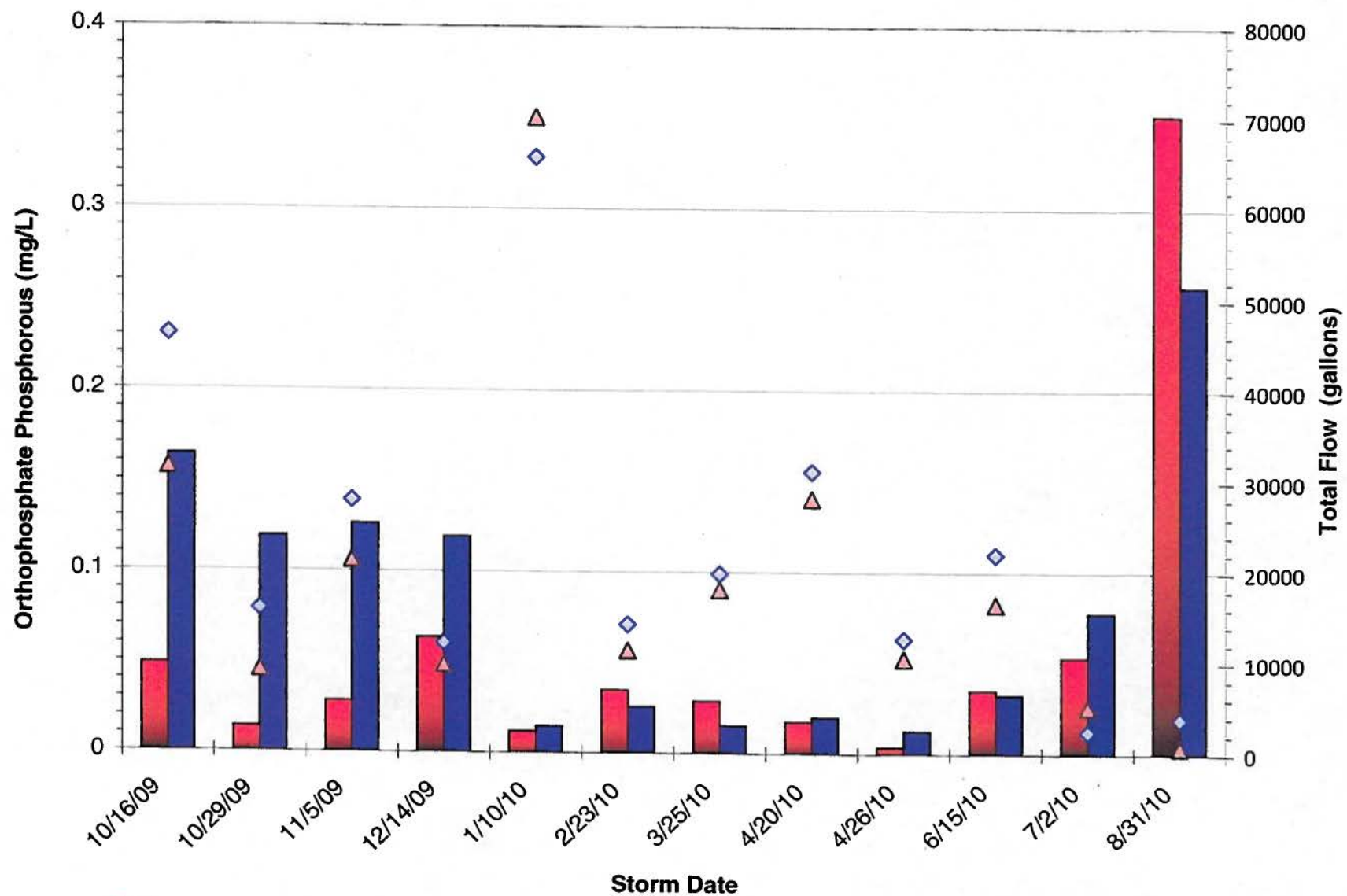
**Nitrate + Nitrite Nitrogen**  
**Project 136**  
**2010 Water Year In-Line Ditch BMP Study**





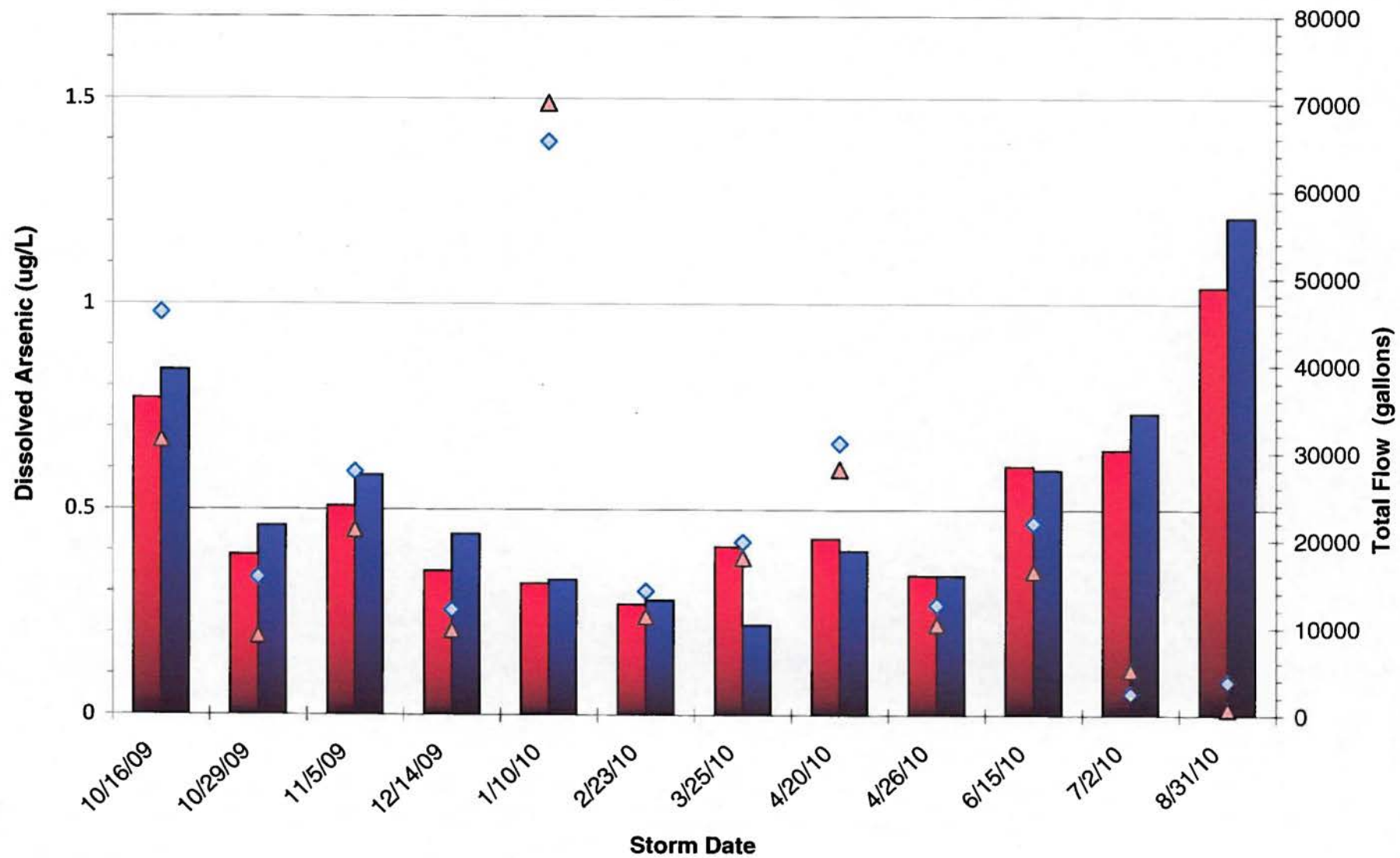
■ Upstream  
 ■ Downstream  
 ▲ Flow Upstream  
 ◆ Flow Downstream

**Total Kjeldahl Nitrogen**  
**Project 136**  
**2010 Water Year In-Line Ditch BMP Study**



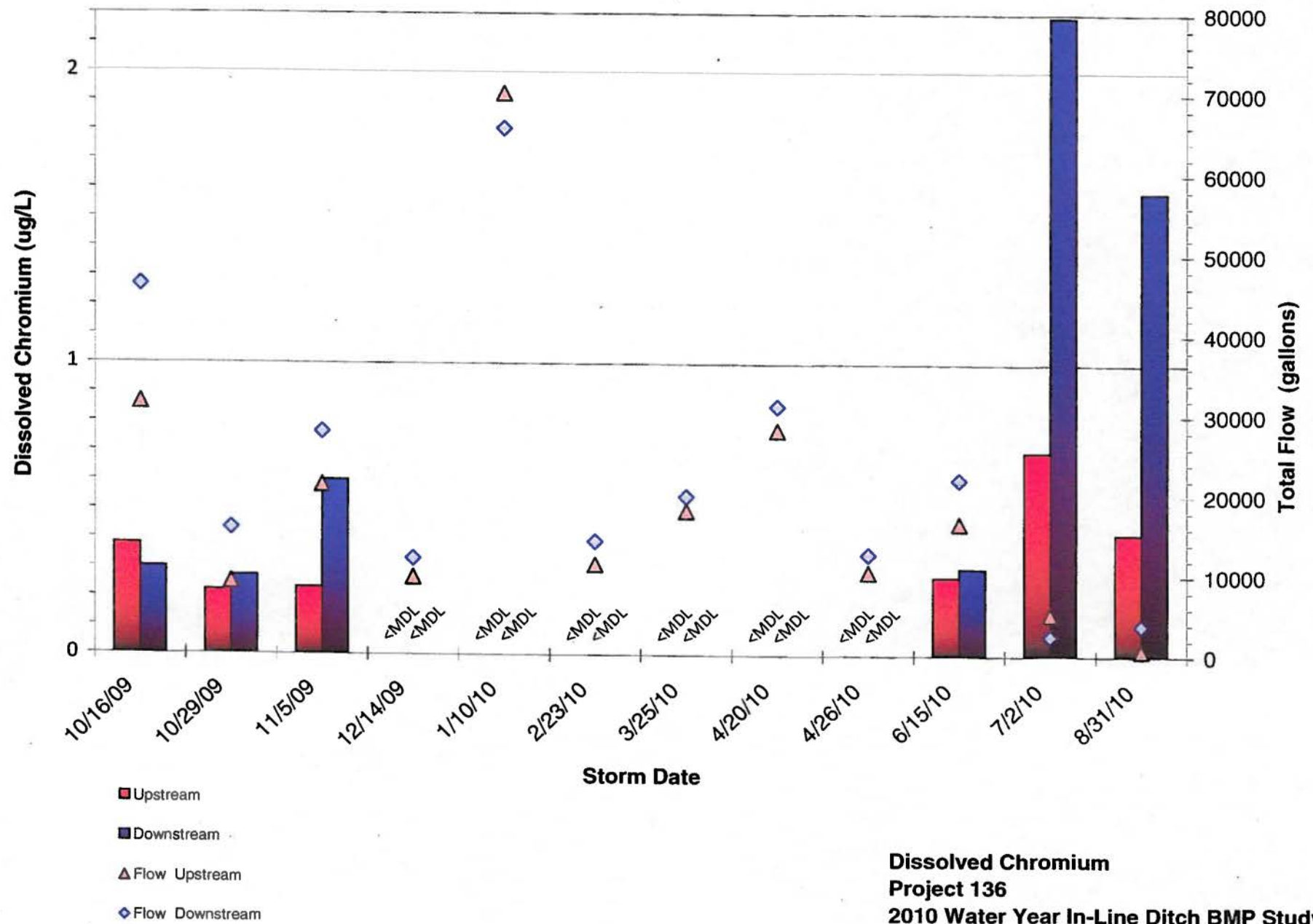
■ Upstream  
 ■ Downstream  
 ▲ Flow Upstream  
 ◆ Flow Downstream

**Orthophosphate Phosphorous**  
**Project 136**  
**2010 Water Year In-Line Ditch BMP Study**

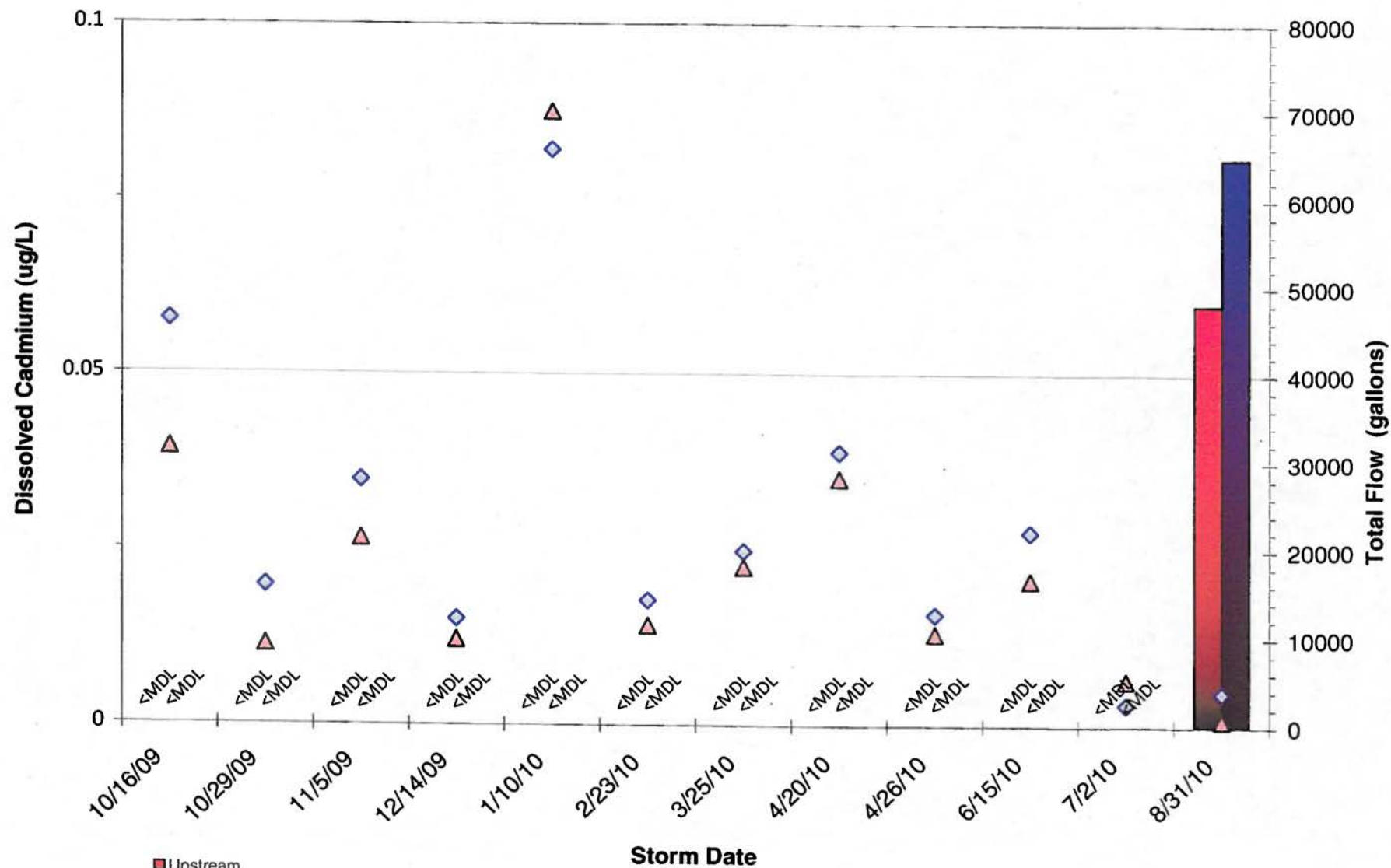


- Upstream
- Downstream
- ▲ Flow Upstream
- ◆ Flow Downstream

**Dissolved Arsenic  
Project 136  
2010 Water Year In-Line Ditch BMP Study**



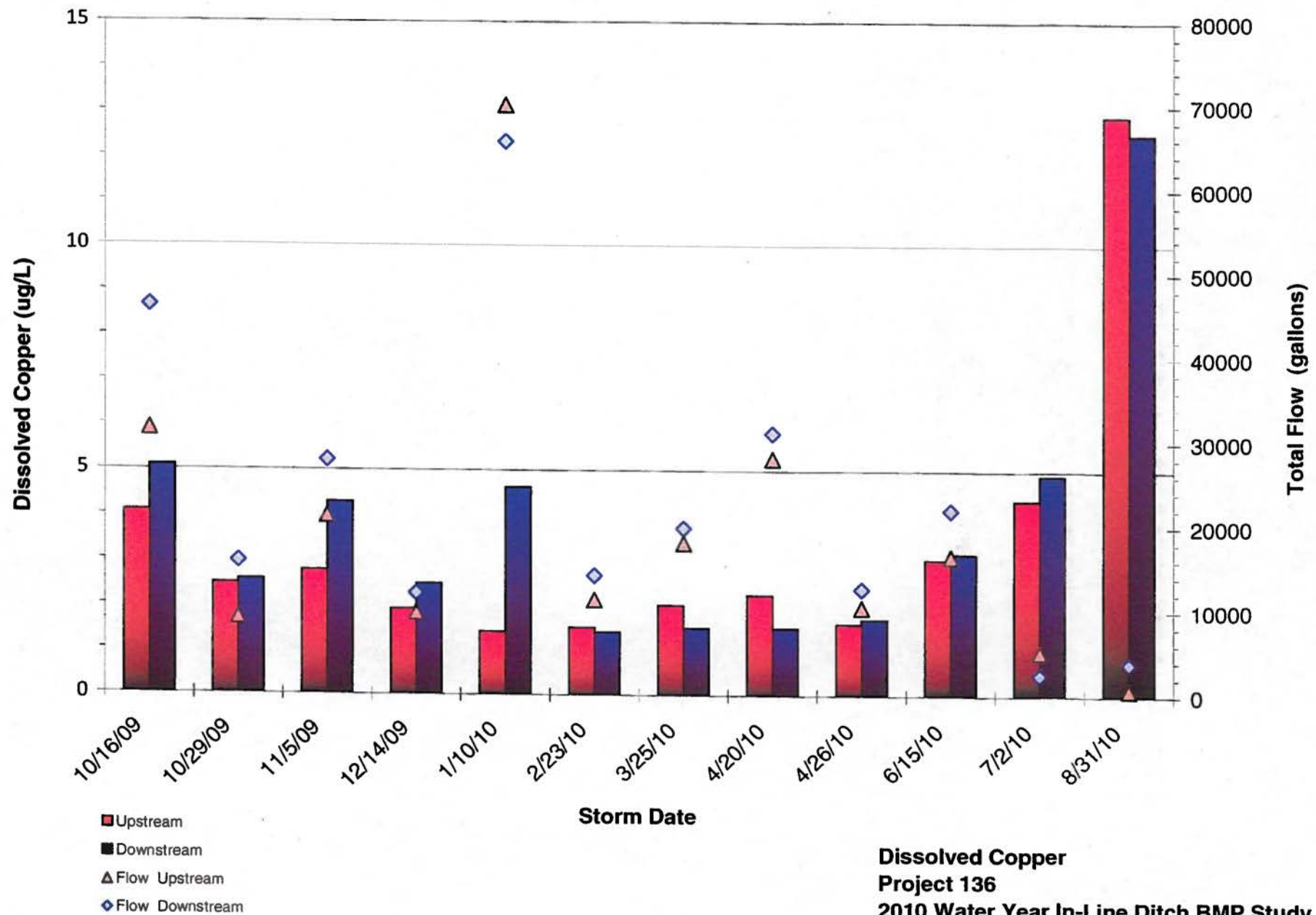
**Dissolved Chromium  
Project 136  
2010 Water Year In-Line Ditch BMP Study**



- Upstream
- Downstream
- ▲ Flow Upstream
- ◆ Flow Downstream

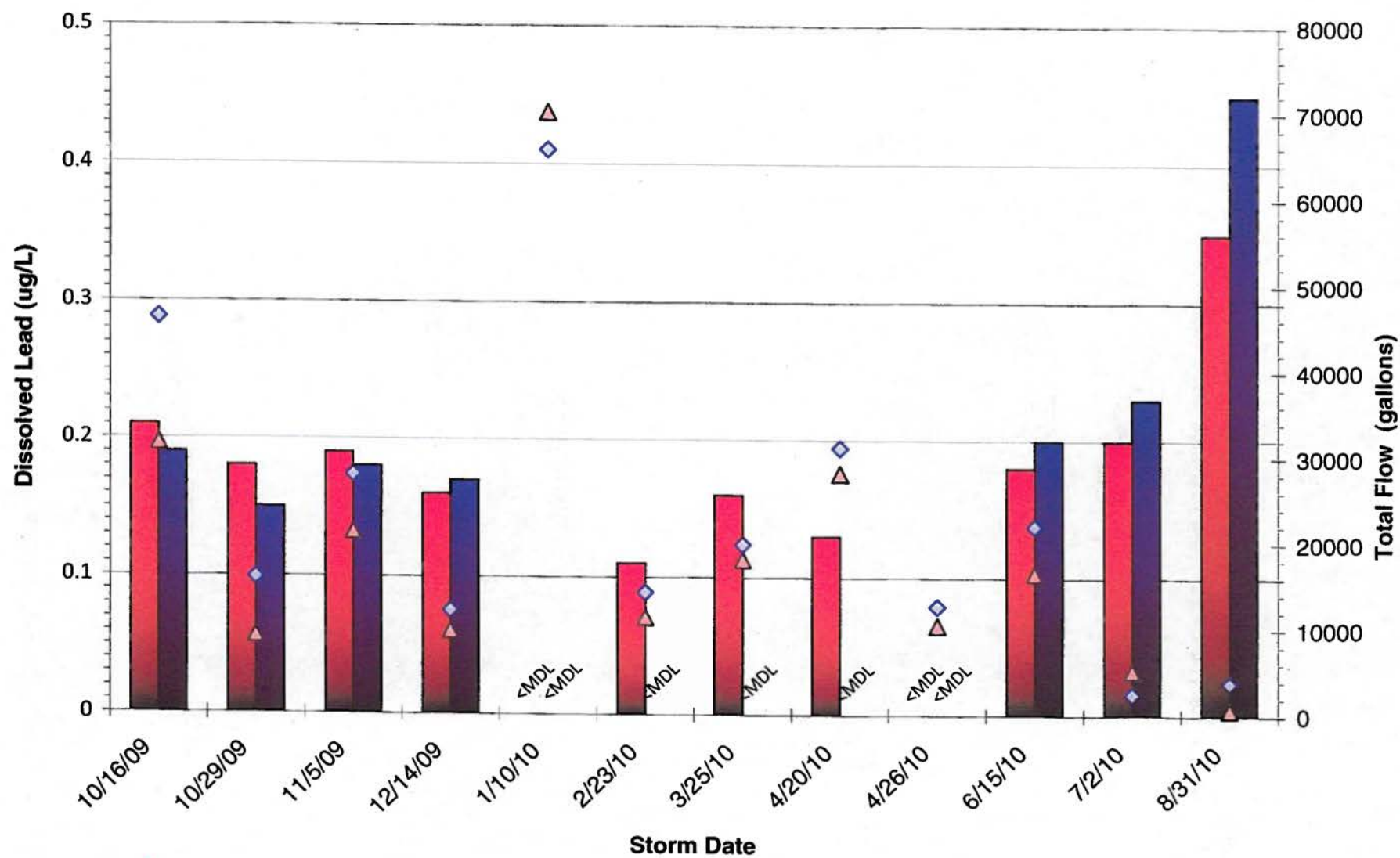
**Dissolved Cadmium  
Project 136  
2010 Water Year In-Line Ditch BMP Study**



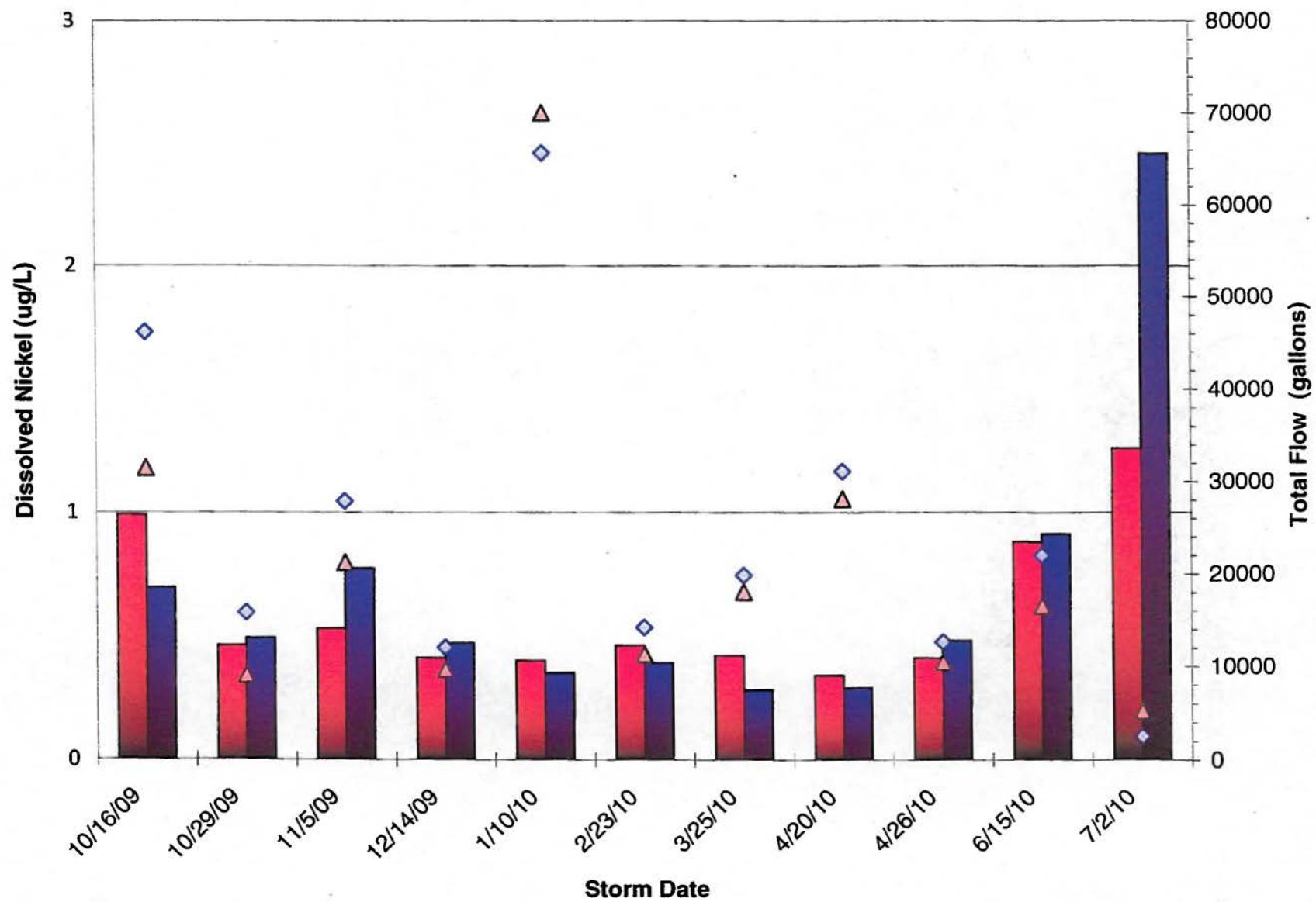


**Dissolved Copper  
Project 136  
2010 Water Year In-Line Ditch BMP Study**



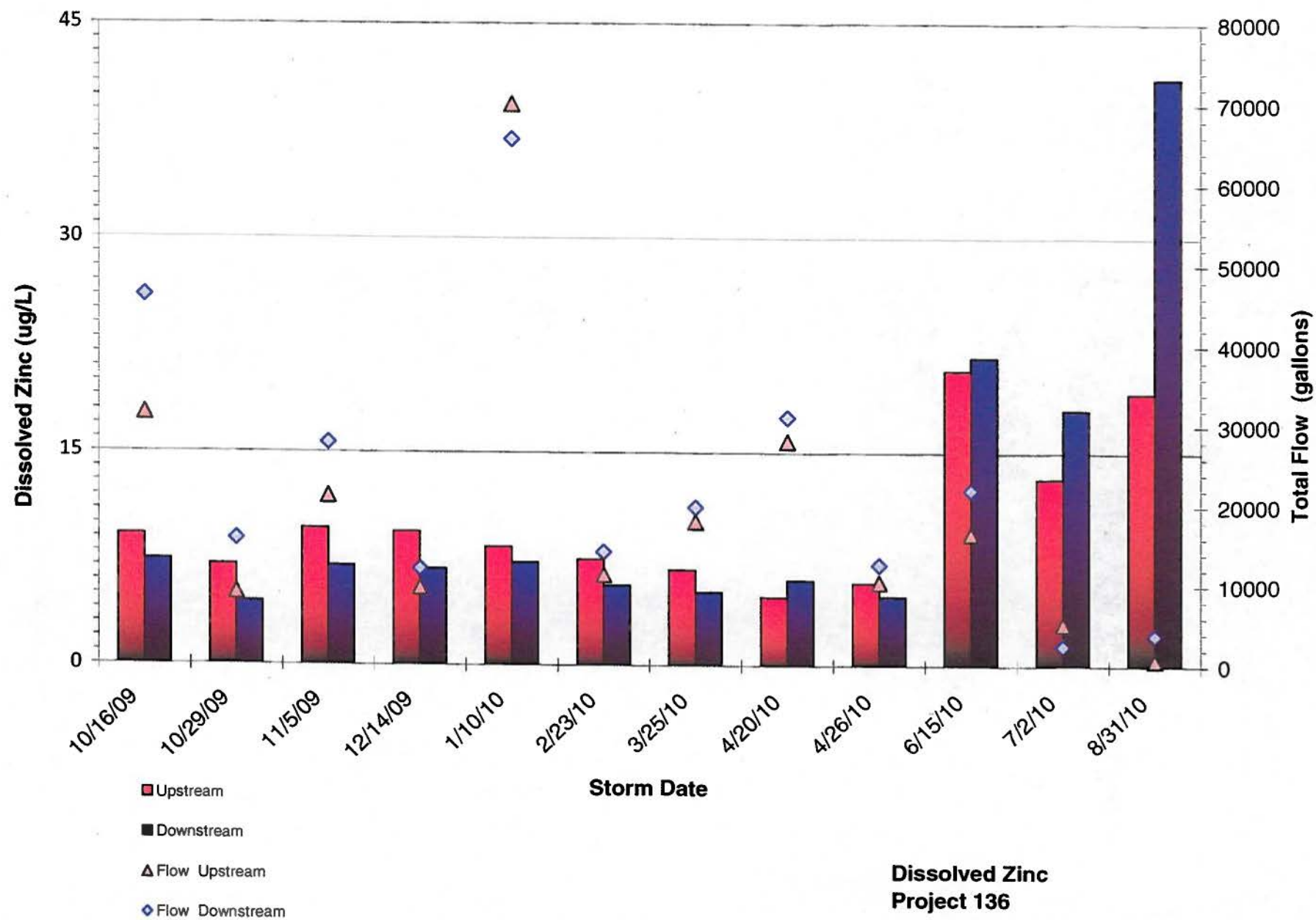


**Dissolved Lead  
Project 136  
2010 Water Year In-Line Ditch BMP Study**

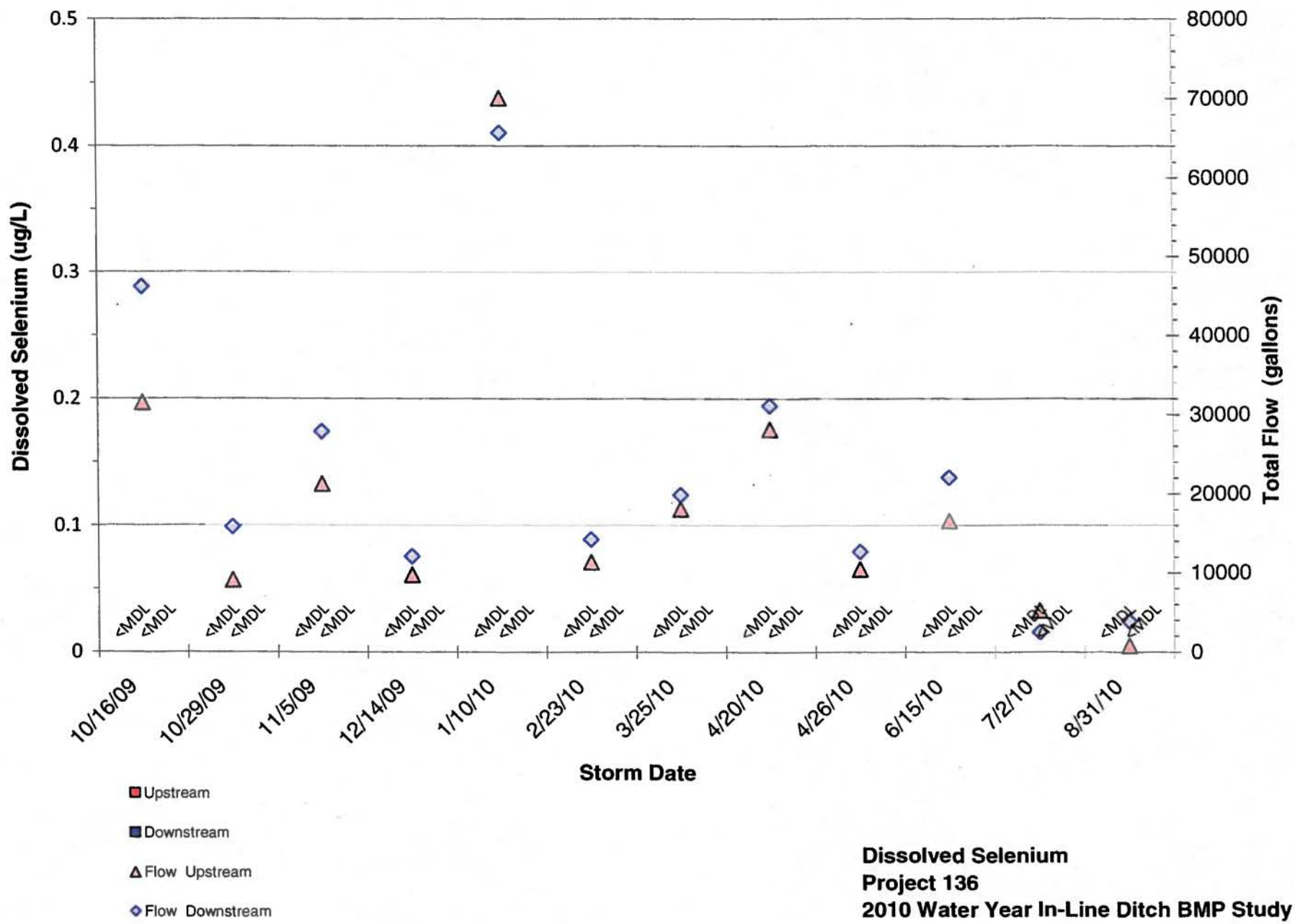


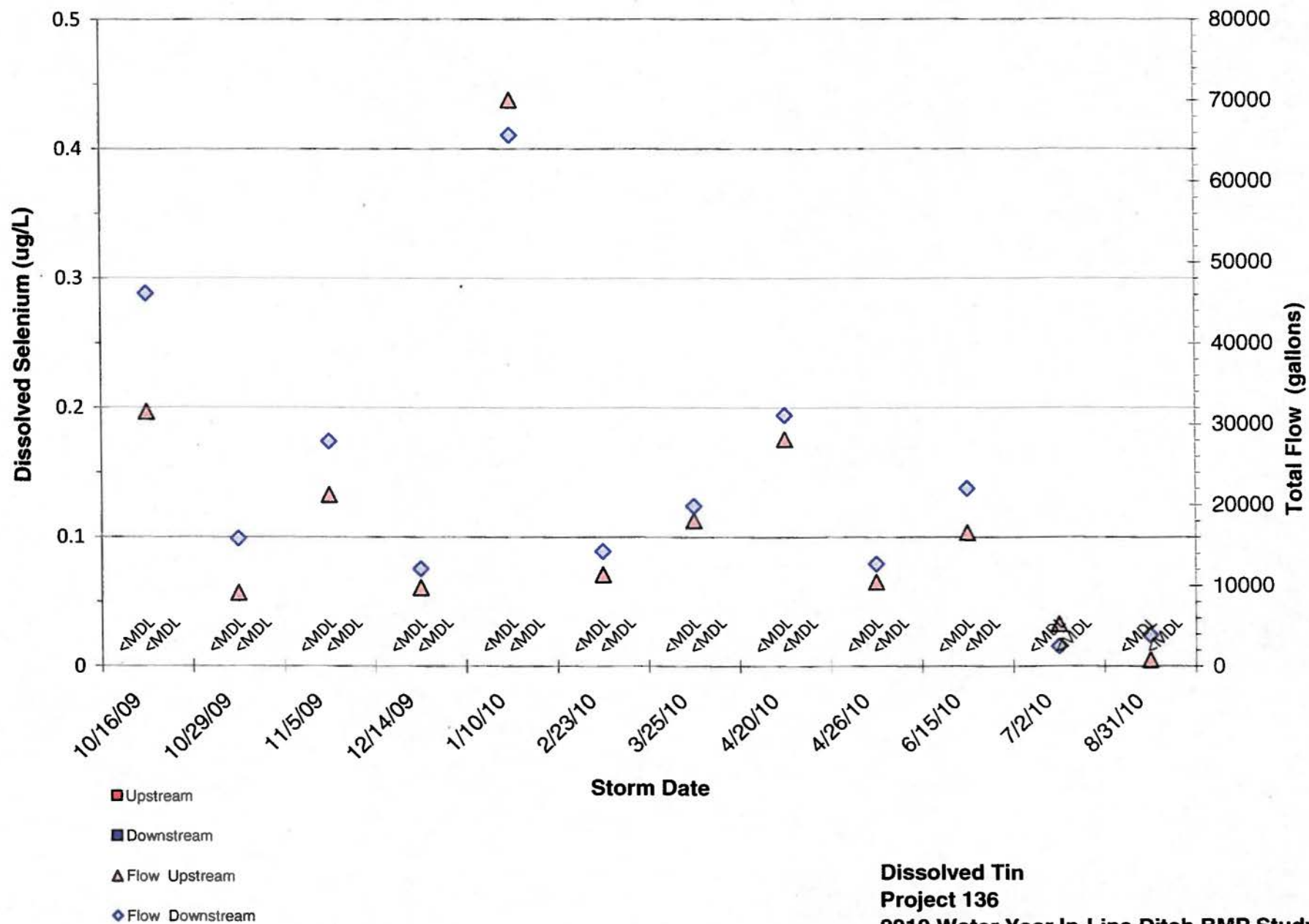
■ Upstream  
 ■ Downstream  
 ▲ Flow Upstream  
 ◆ Flow Downstream

**Dissolved Nickel**  
**Project 136**  
**2010 Water Year In-Line Ditch BMP Study**



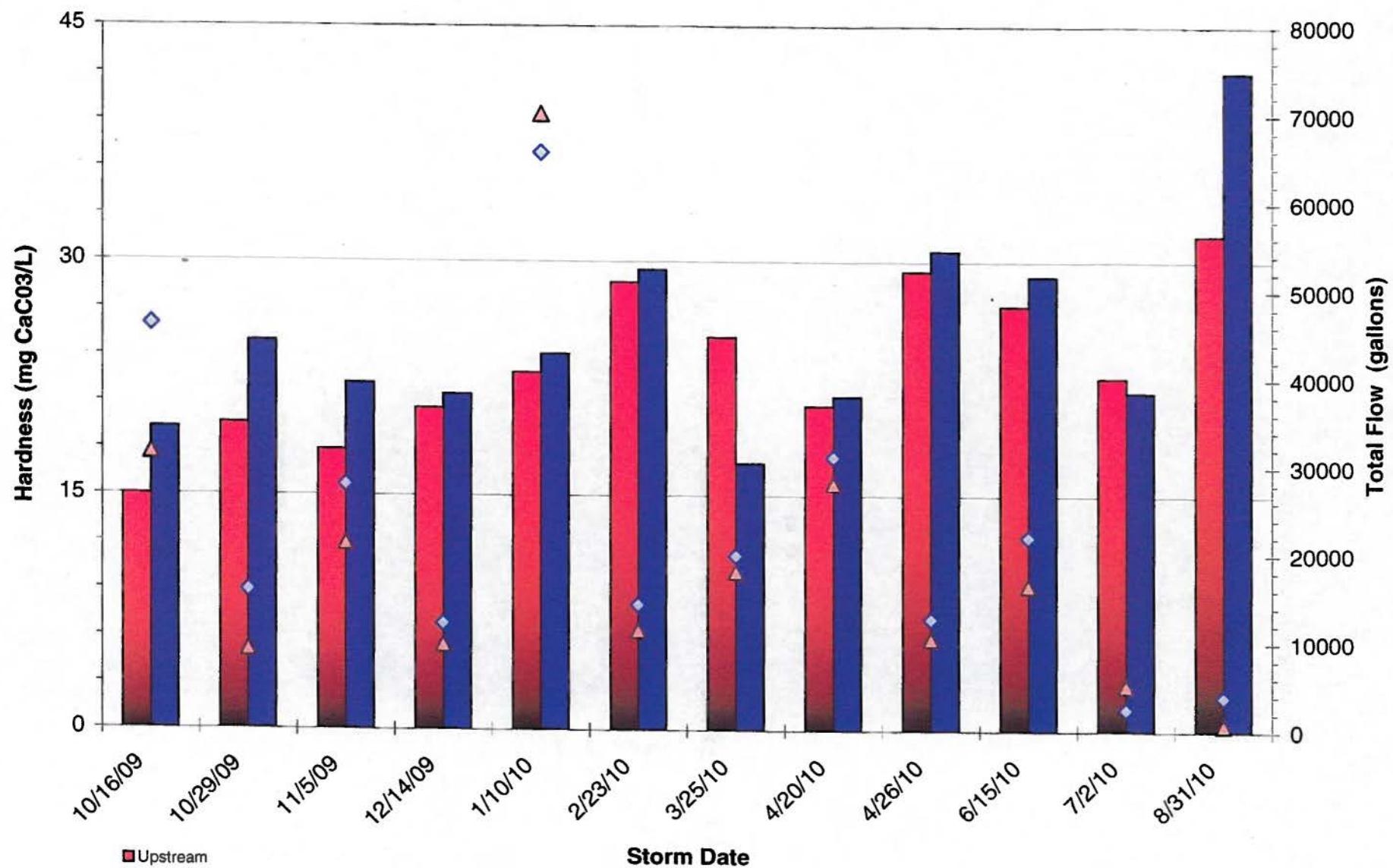
**Dissolved Zinc  
Project 136  
2010 Water Year In-Line Ditch BMP Study**





**Dissolved Tin**  
**Project 136**  
**2010 Water Year In-Line Ditch BMP Study**

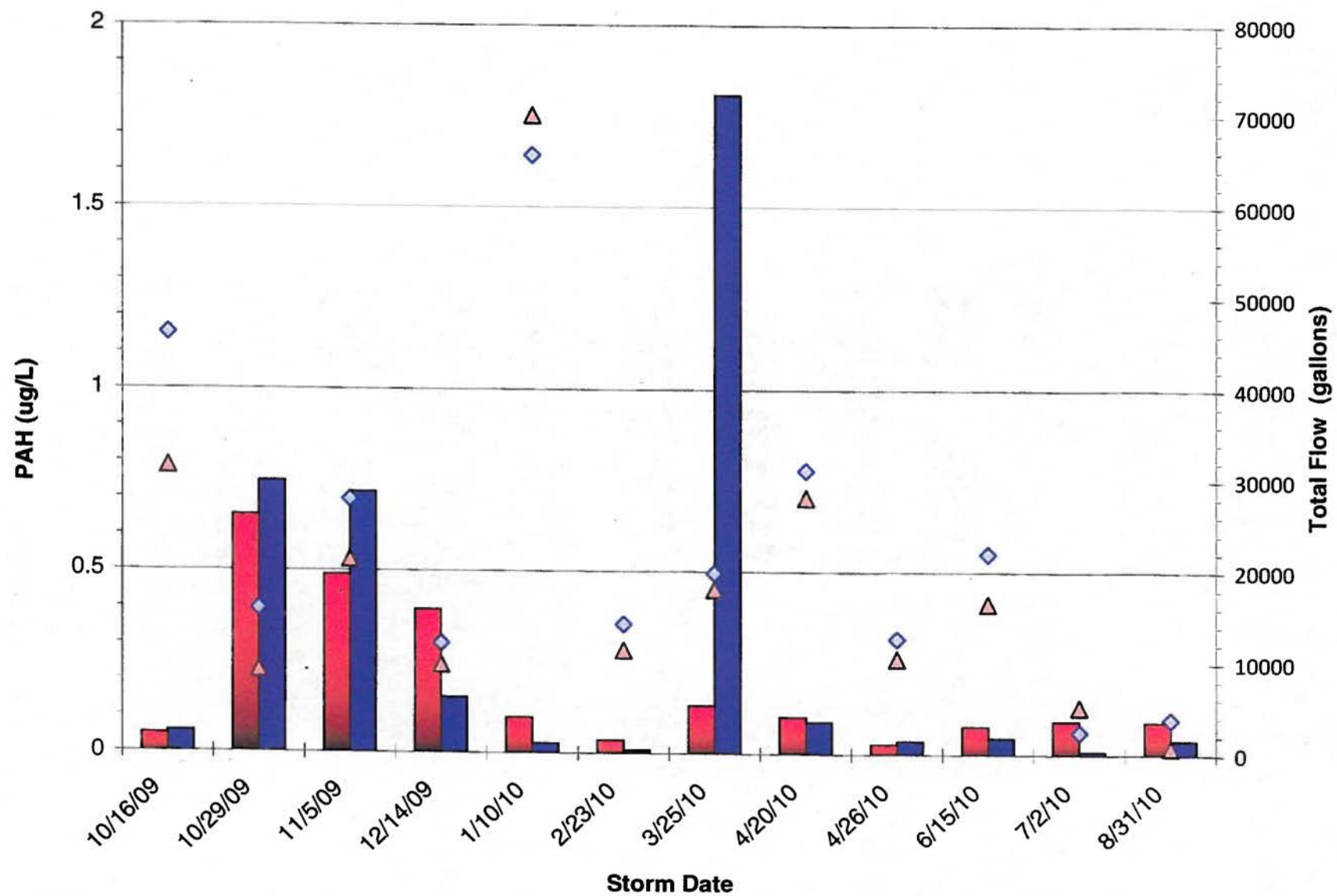




■ Upstream  
■ Downstream  
▲ Flow Upstream  
◆ Flow Downstream

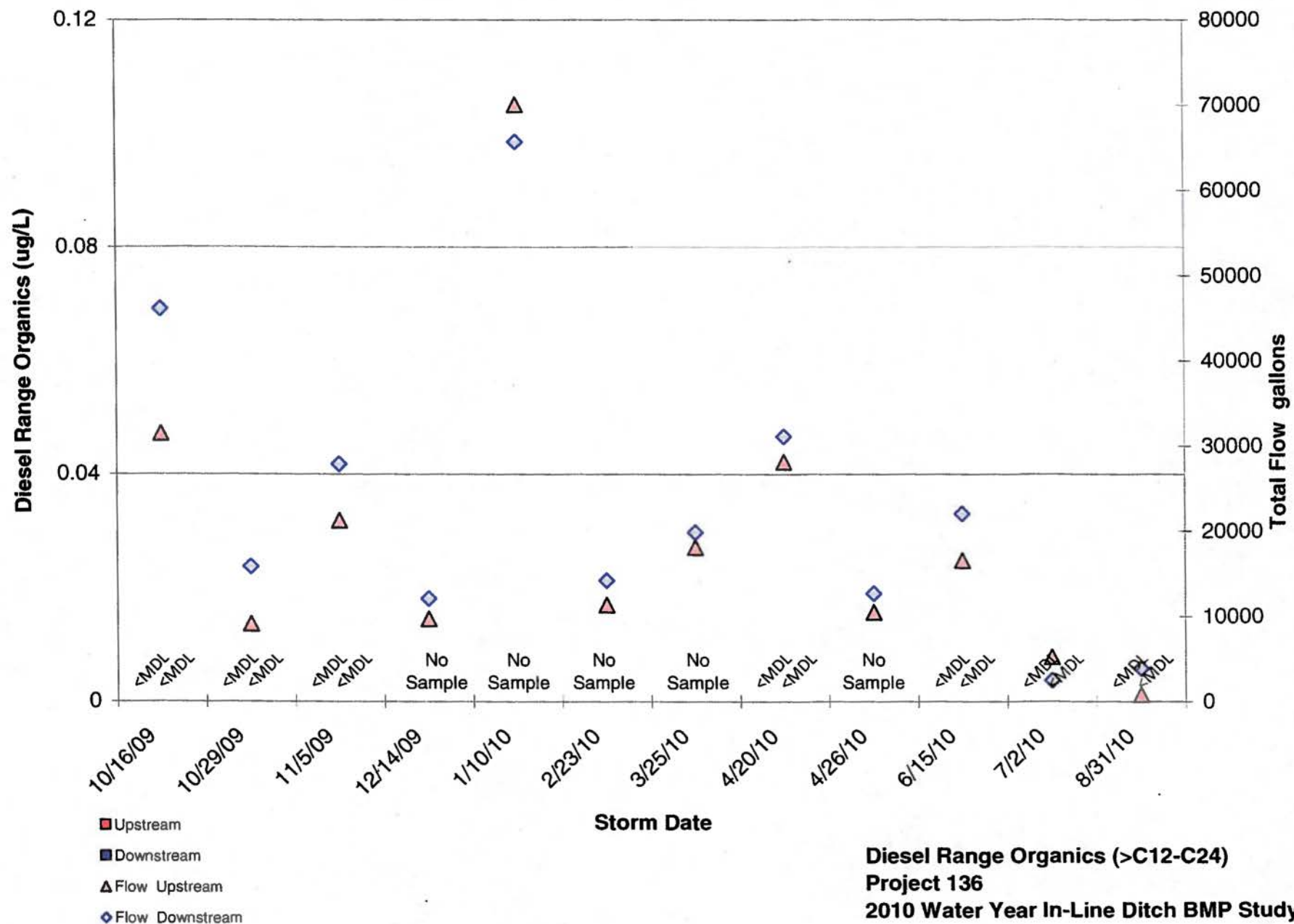
**Hardness  
Project 136  
2010 Water Year In-Line Ditch BMP Study**

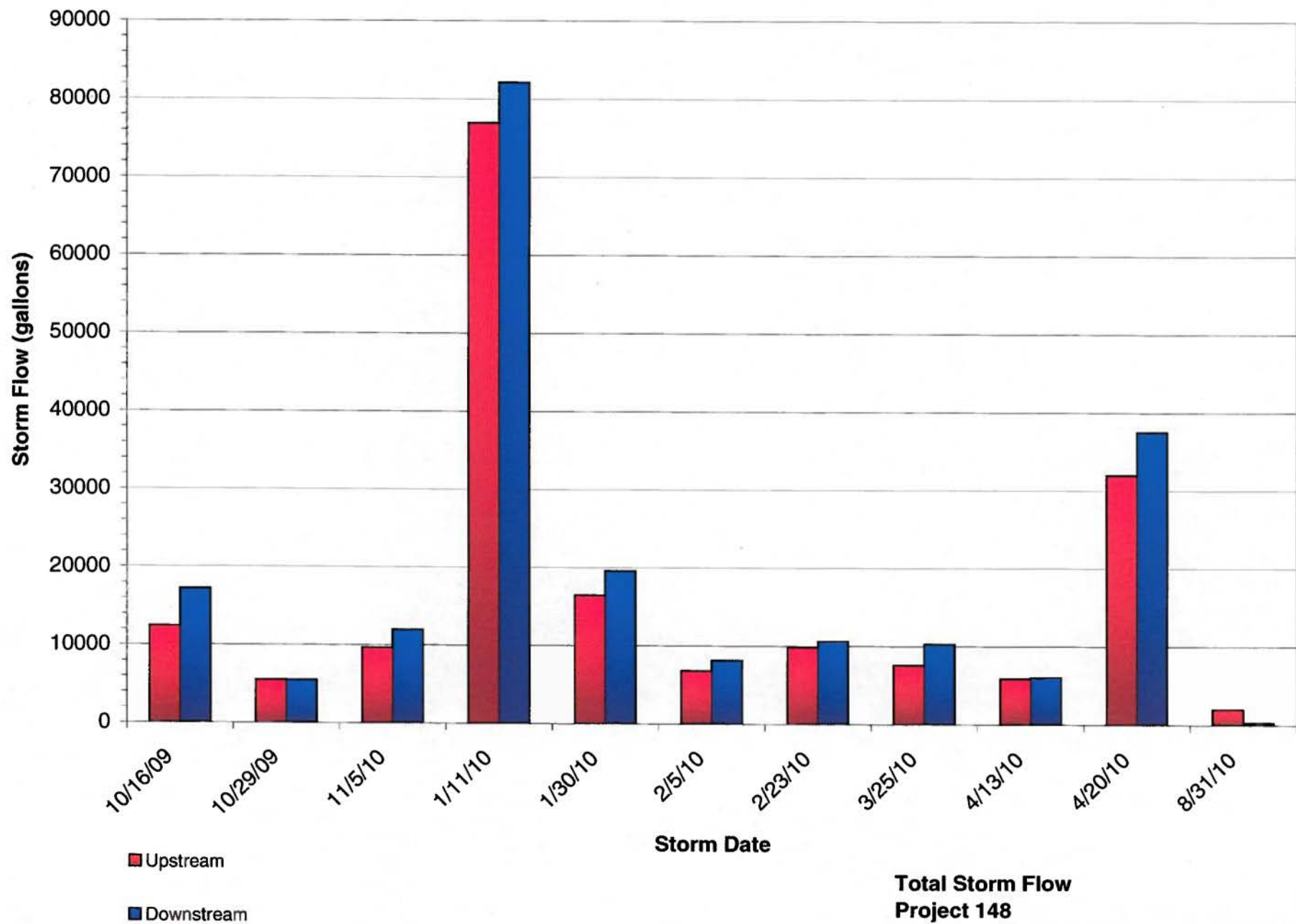




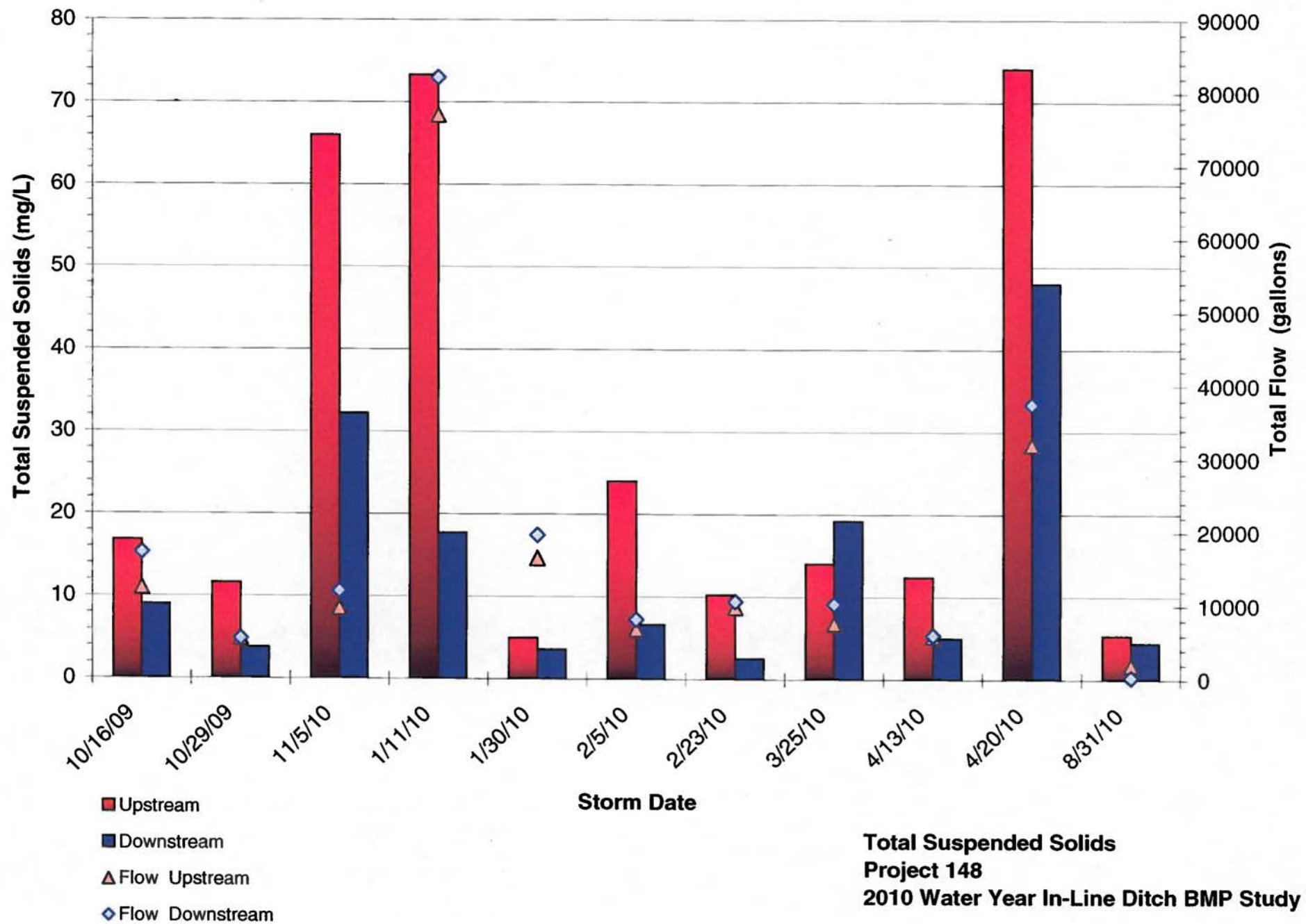
■ Upstream  
 ■ Downstream  
 ▲ Flow Upstream  
 ◆ Flow Downstream

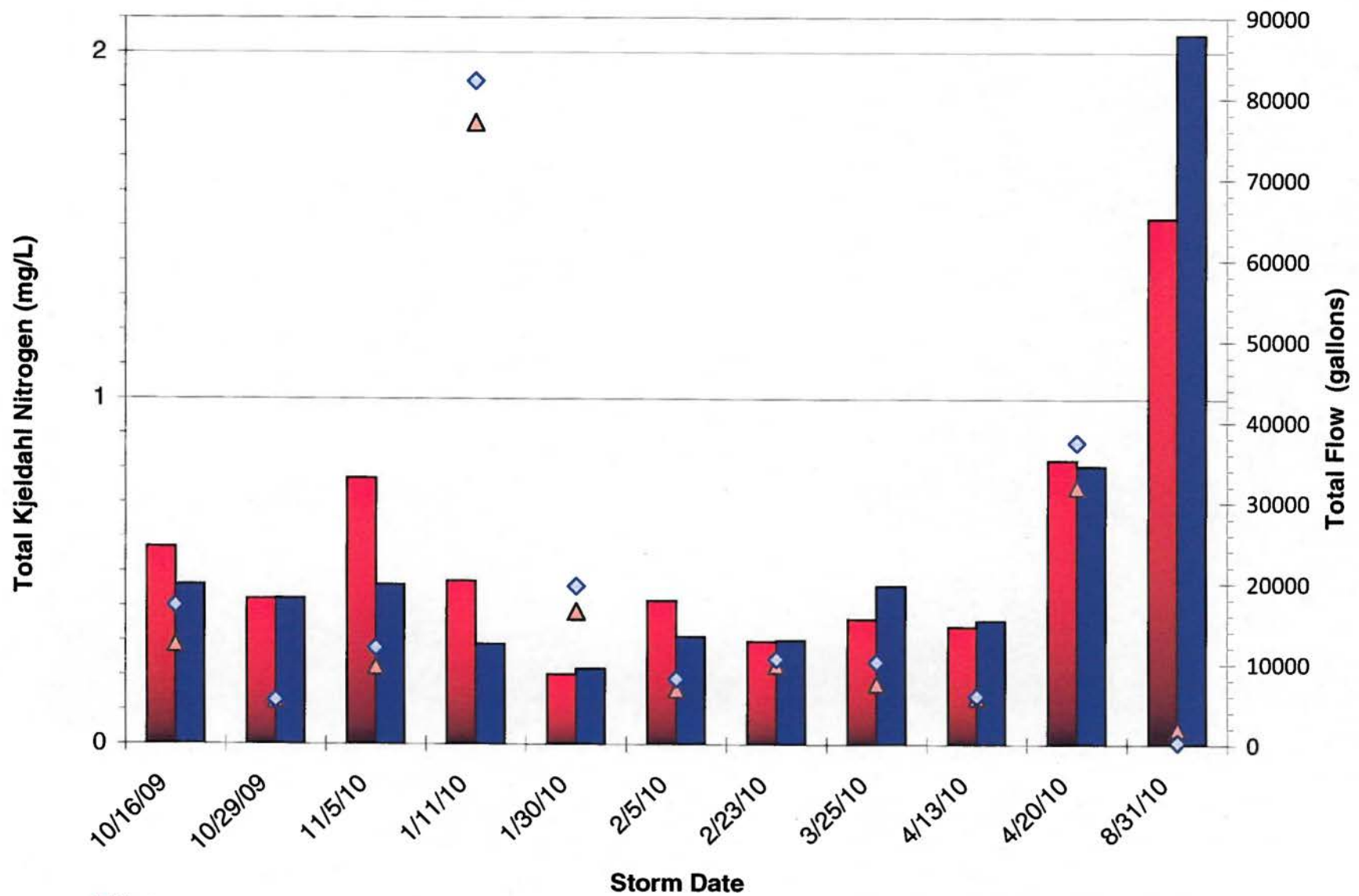
**Sum of PAHs**  
**Project 136**  
**2010 Water Year In-Line Ditch BMP Study**





**Total Storm Flow  
Project 148  
2010 Water Year In-Line Ditch BMP Study**

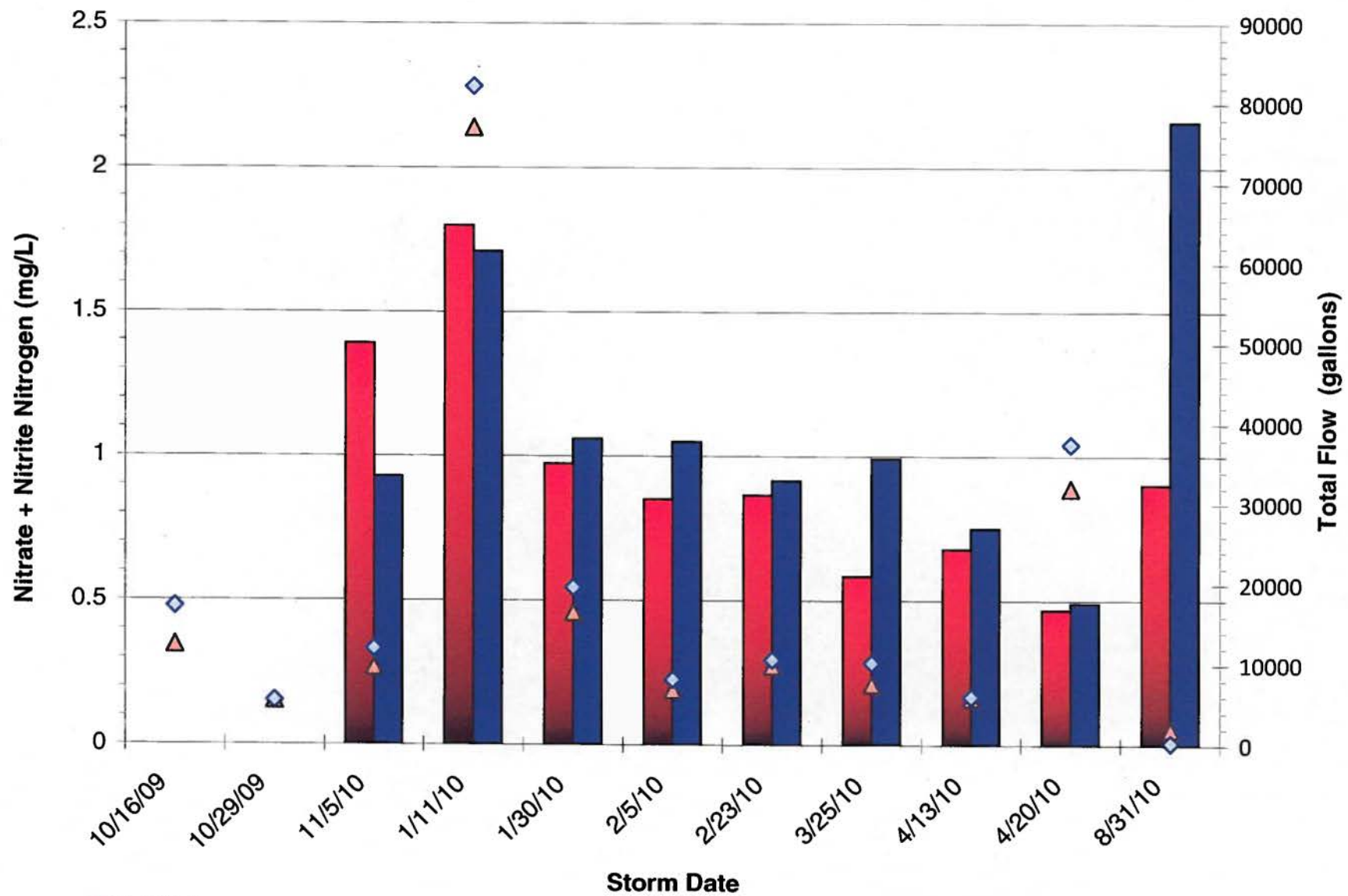




■ Upstream  
 ■ Downstream  
 ▲ Flow Upstream  
 ◆ Flow Downstream

**Total Kjeldahl Nitrogen**  
**Project 148**  
**2010 Water Year In-Line Ditch BMP Study**

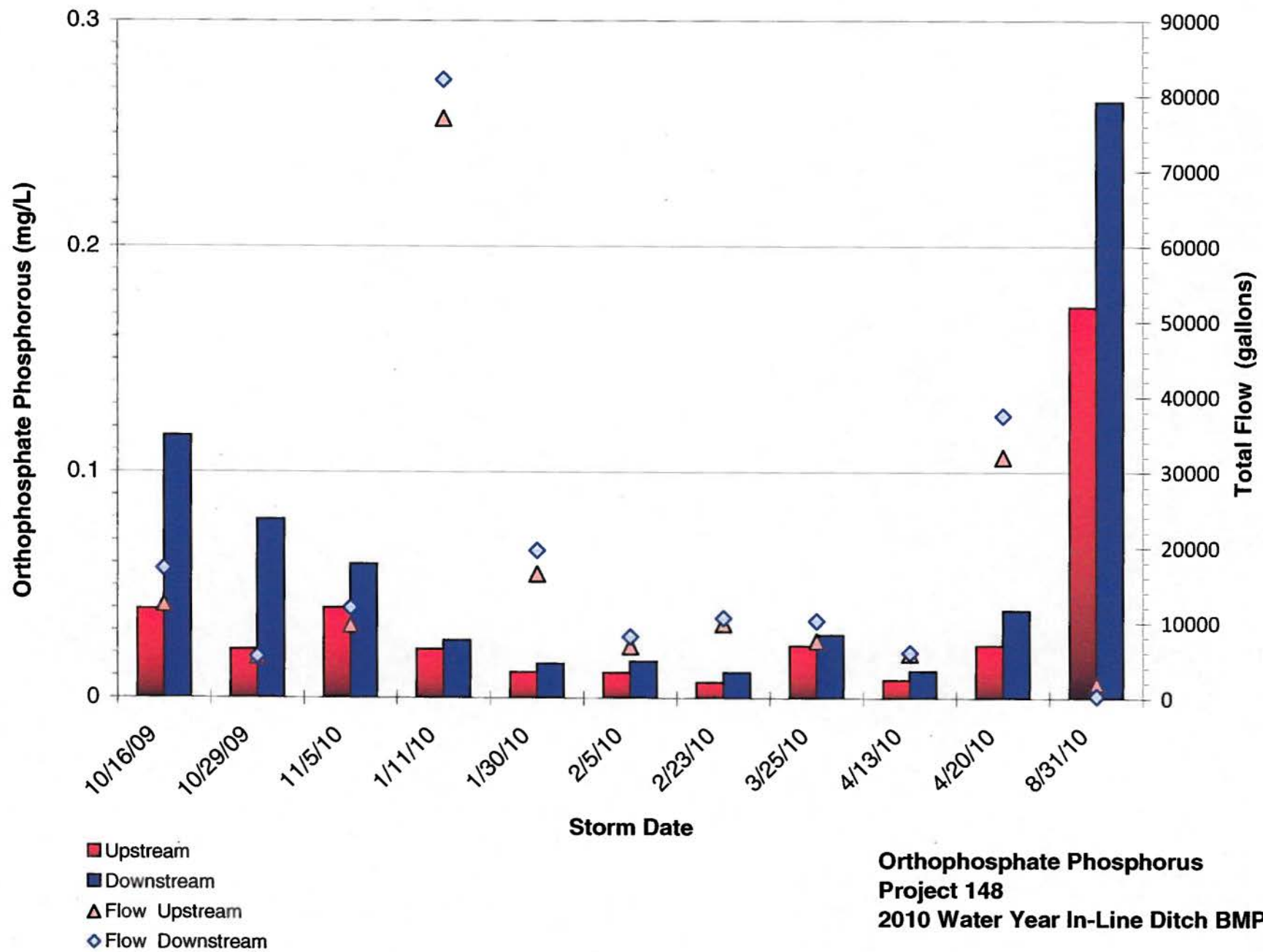




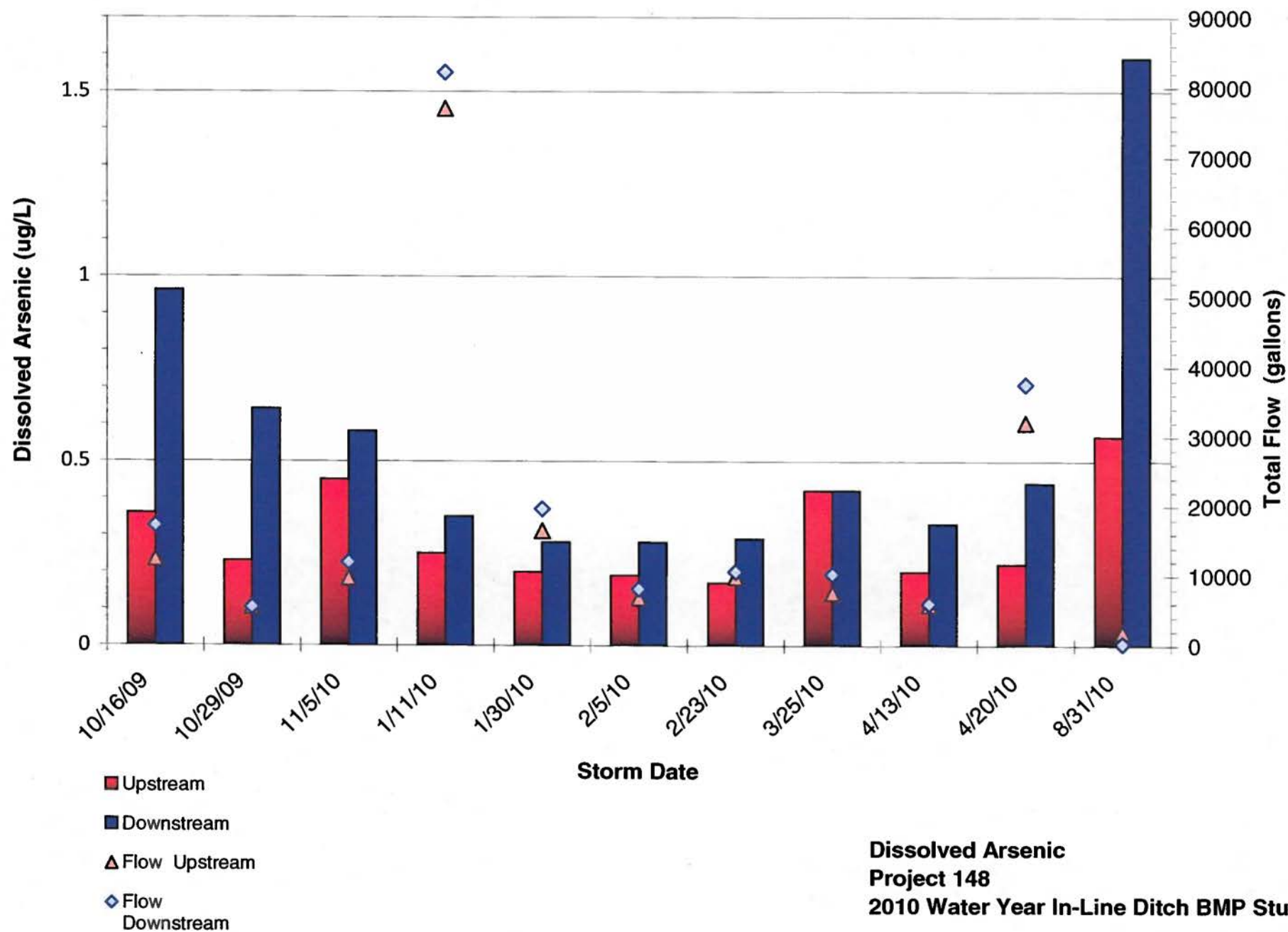
■ Upstream  
 ■ Downstream  
 ▲ Flow Upstream  
 ◆ Flow Downstream

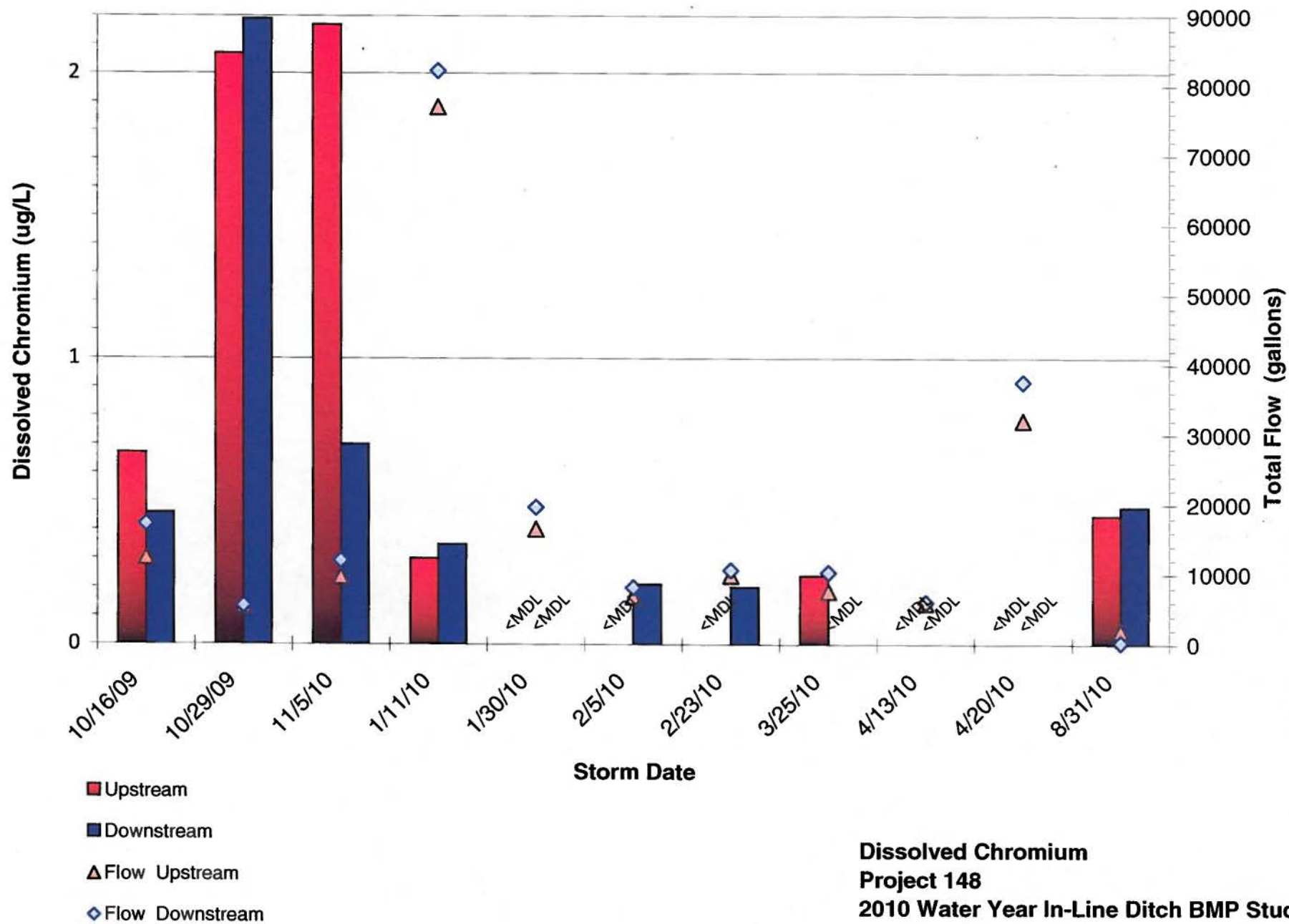
**Nitrate + Nitrite Nitrogen**  
**Project 148**  
**2010 Water Year In-Line Ditch BMP Study**

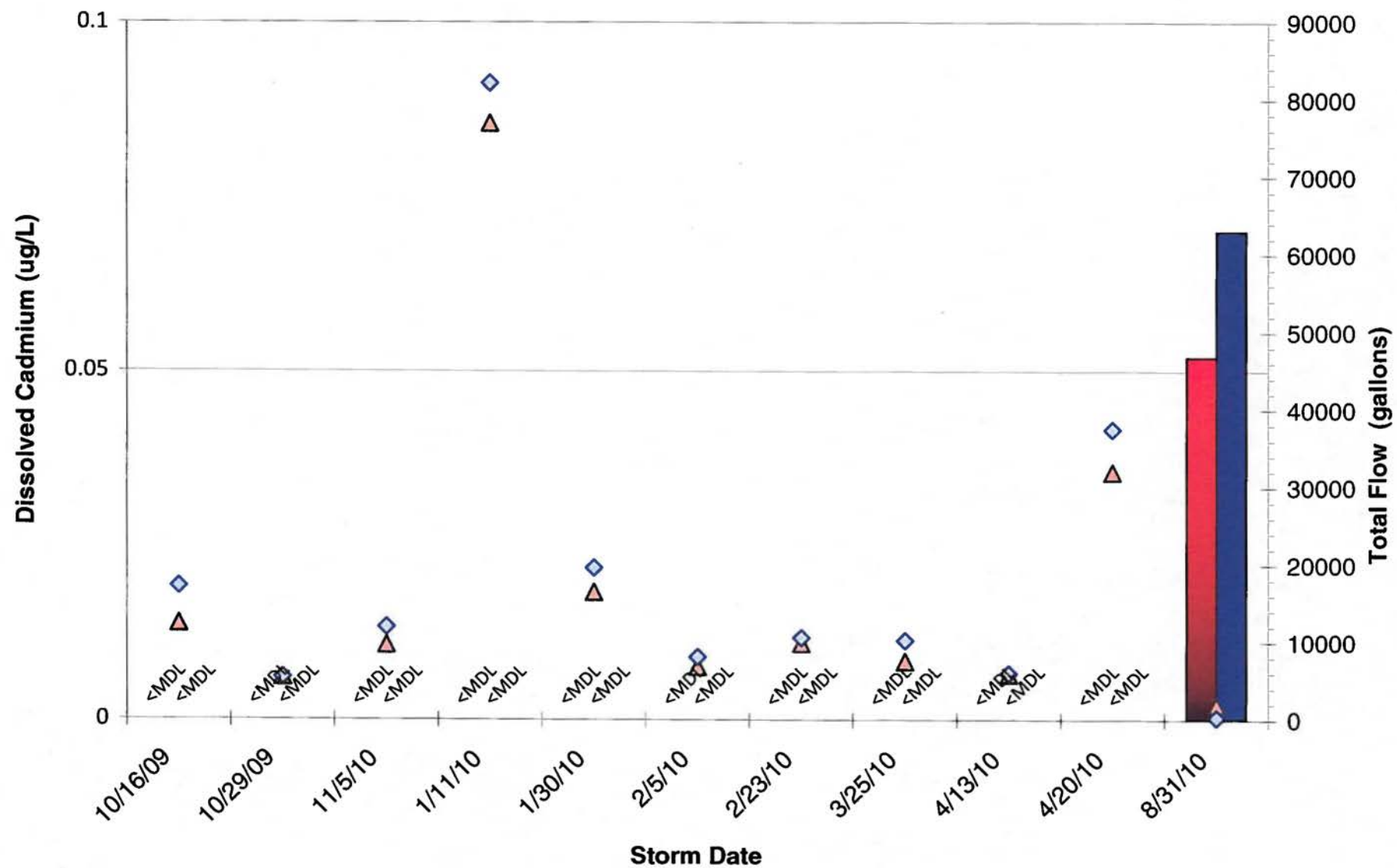




**Orthophosphate Phosphorus  
Project 148  
2010 Water Year In-Line Ditch BMP Study**

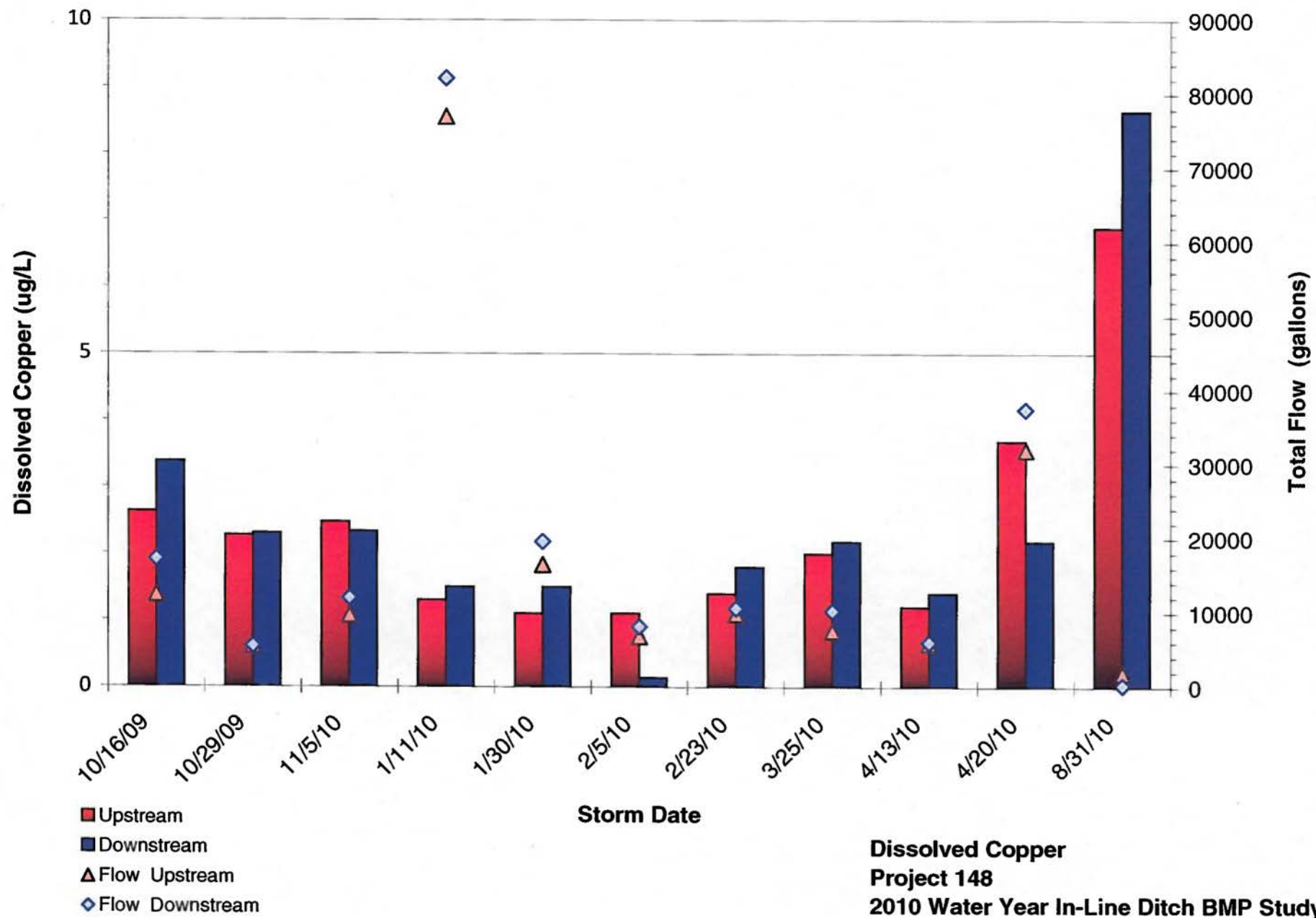


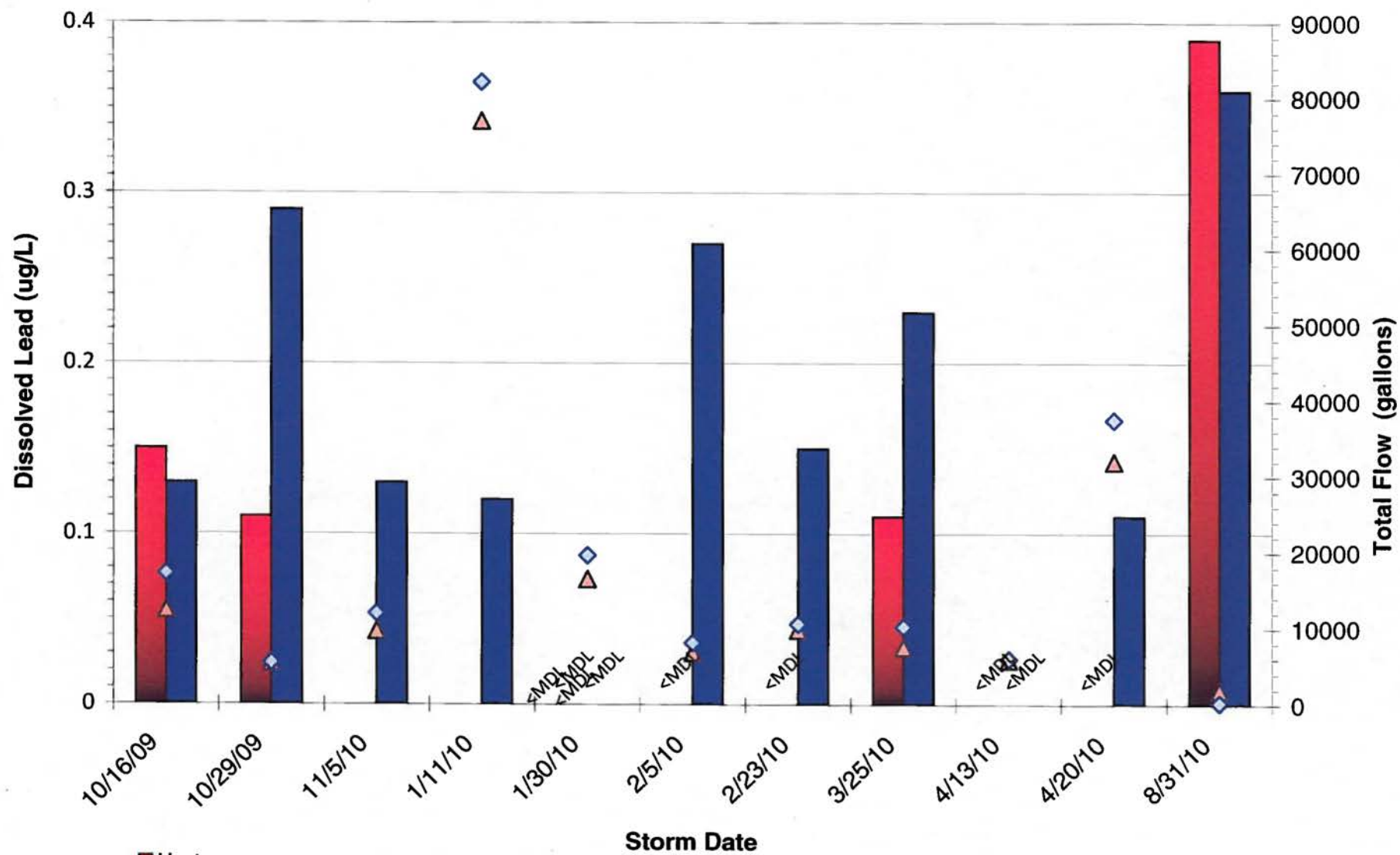




- Upstream
- Downstream
- ▲ Flow Upstream
- ◆ Flow Downstream

**Dissolved Cadmium  
Project 148  
2010 Water Year In-Line Ditch BMP Study**

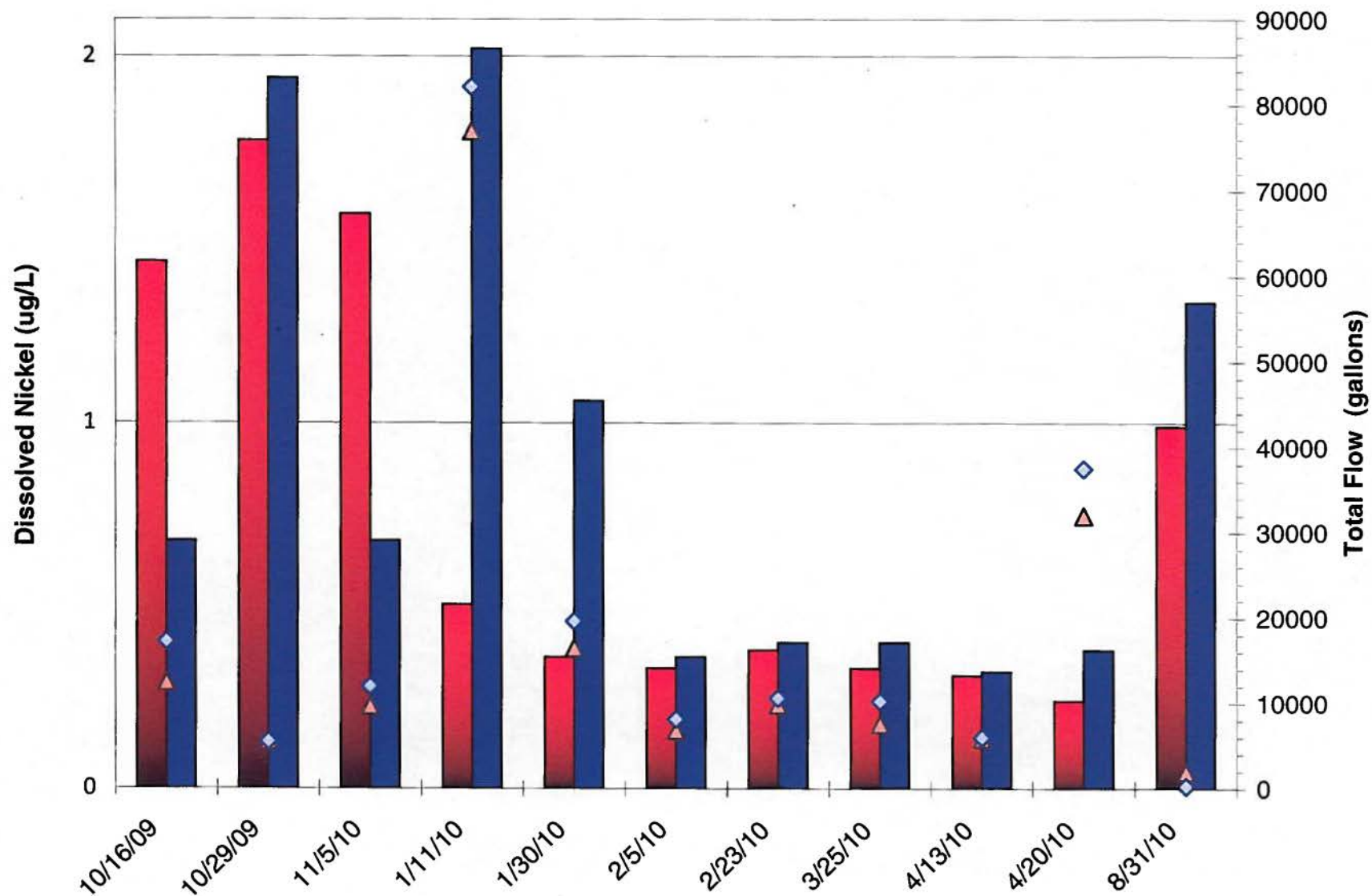




■ Upstream  
 ■ Downstream  
 ▲ Flow Upstream  
 ◆ Flow Downstream

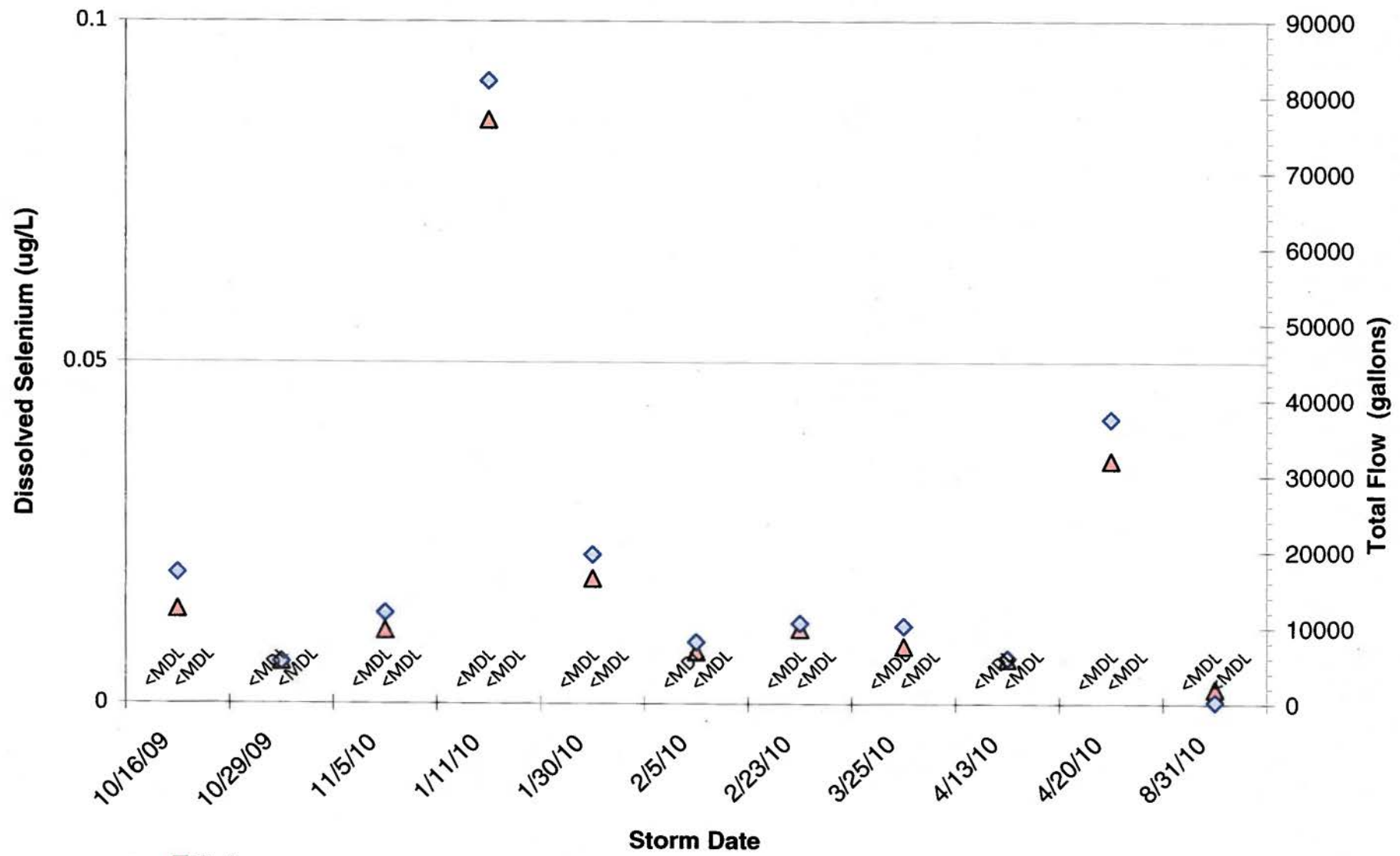
**Dissolved Lead**  
**Project 148**  
**2010 Water Year In-Line Ditch BMP Study**





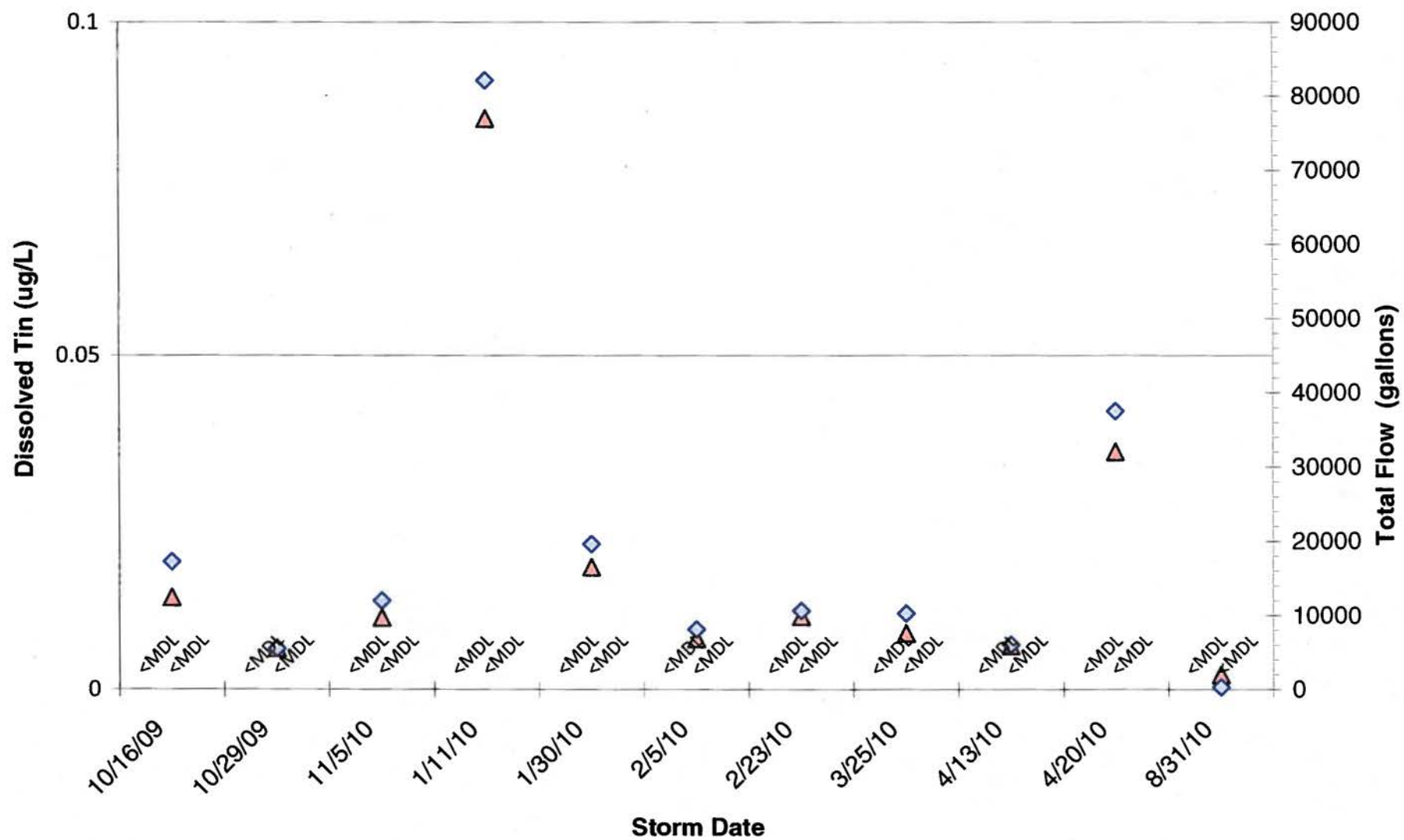
■ Upstream  
 ■ Downstream  
 ▲ Flow Upstream  
 ◆ Flow Downstream

Dissolved Nickel  
 Project 148  
 2010 Water Year In-Line Ditch BMP Study



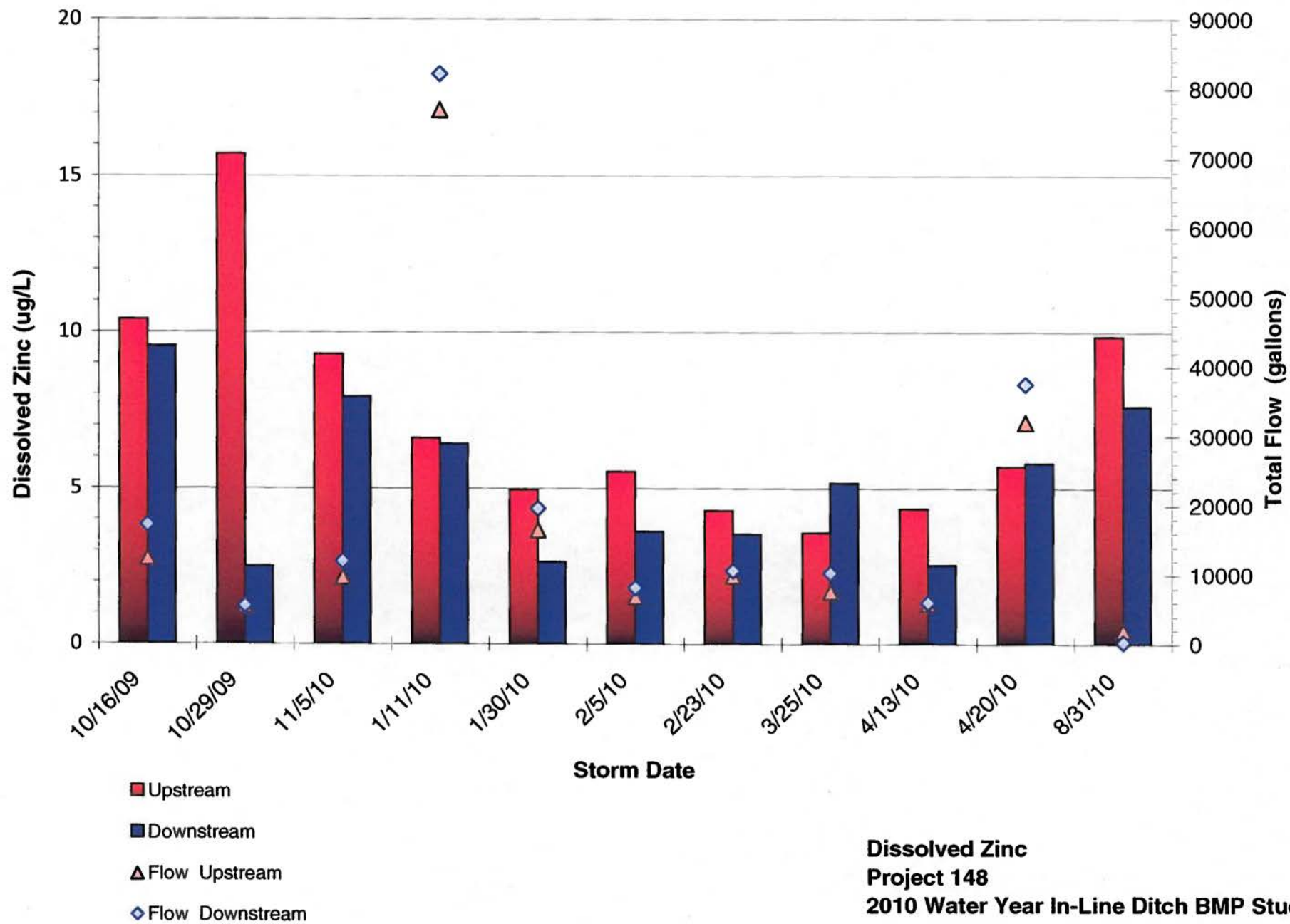
- Upstream
- Downstream
- ▲ Flow Upstream
- ◆ Flow Downstream

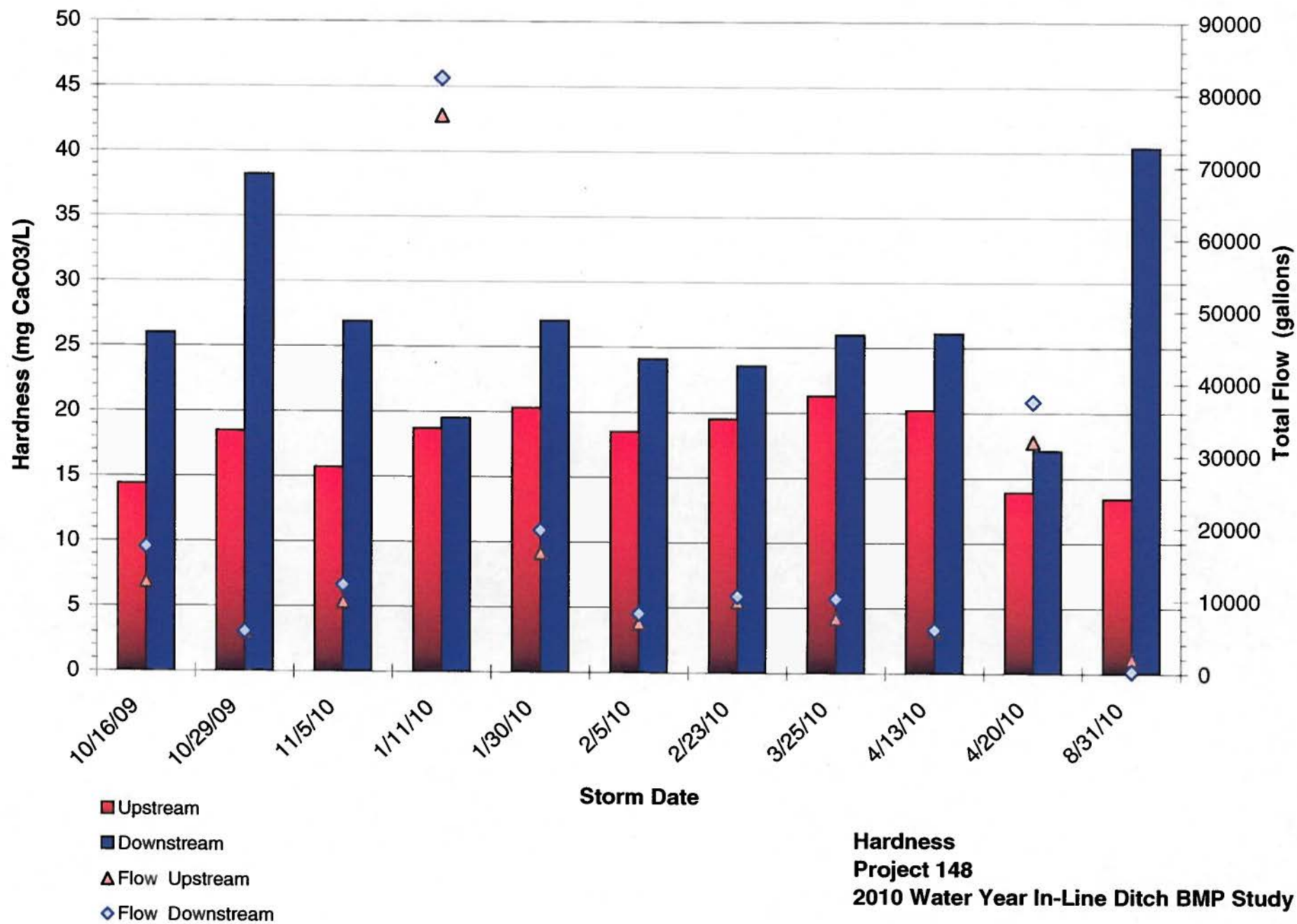
**Selenium**  
**Dissolved Selenium**  
**Project 148**  
**2010 Water Year In-Line Ditch BMP Study**



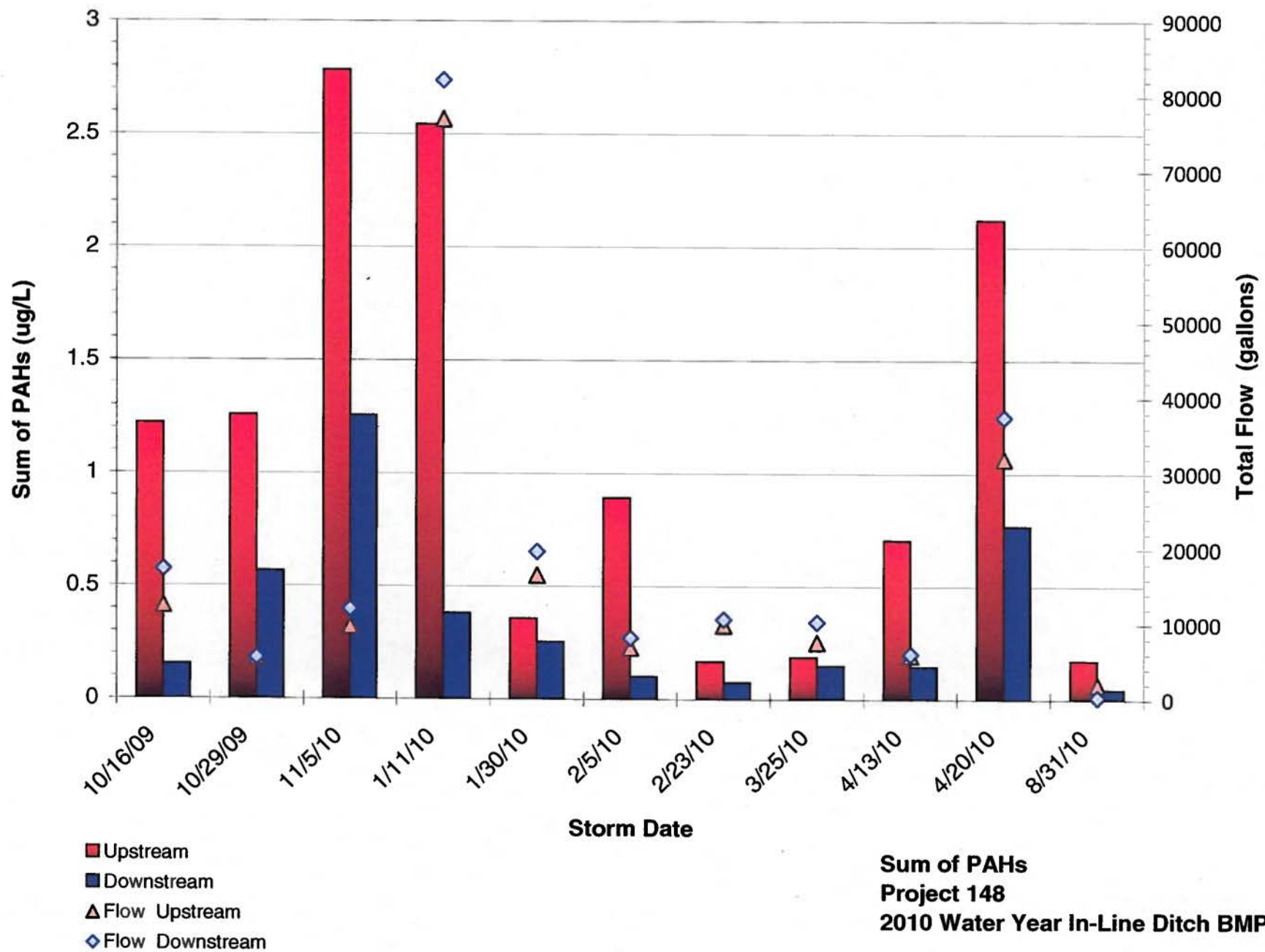
- Upstream
- Downstream
- ▲ Flow Upstream
- ◆ Flow Downstream

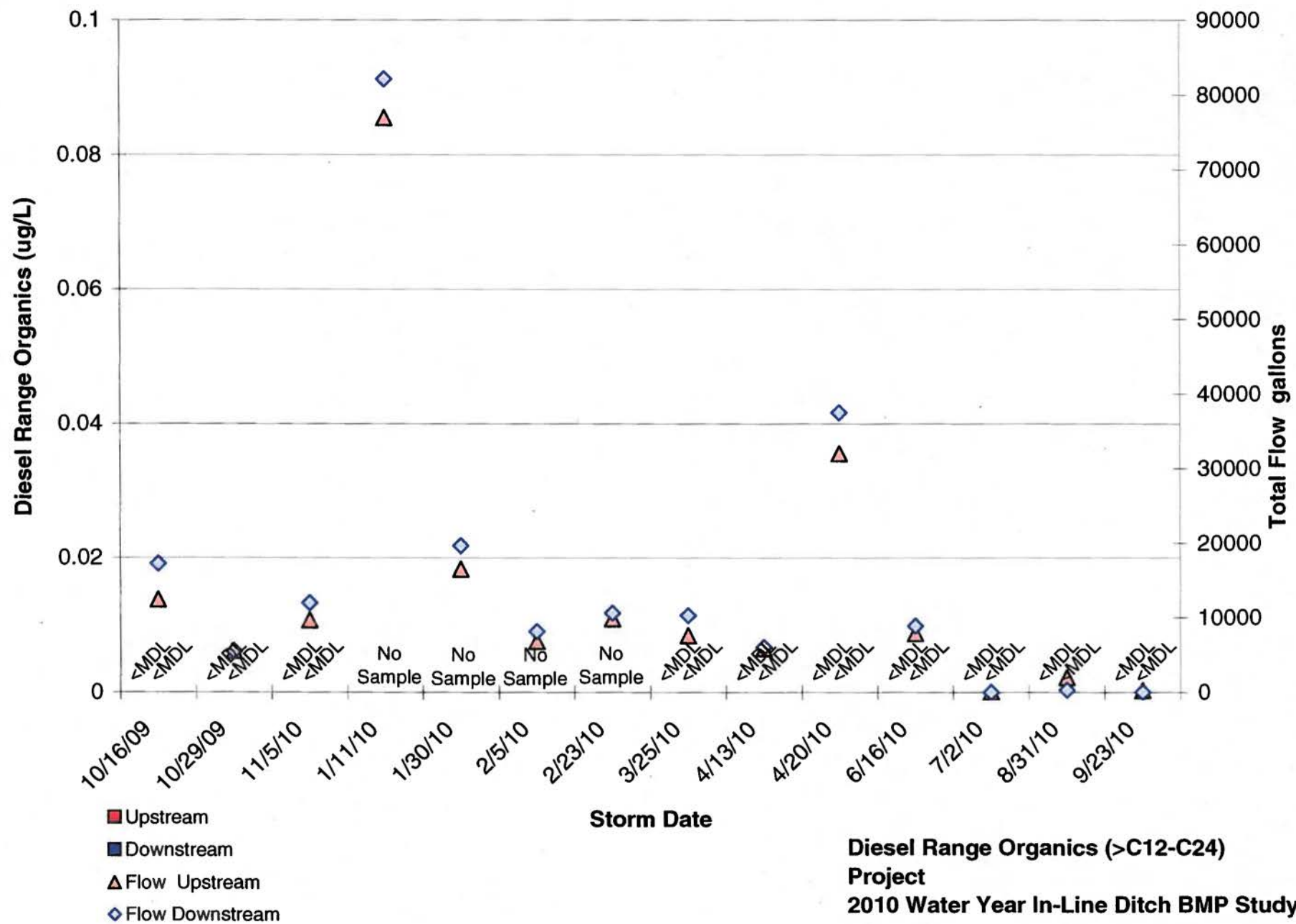
**Dissolved Tin**  
**Project 148**  
**2010 Water Year In-Line Ditch BMP Study**

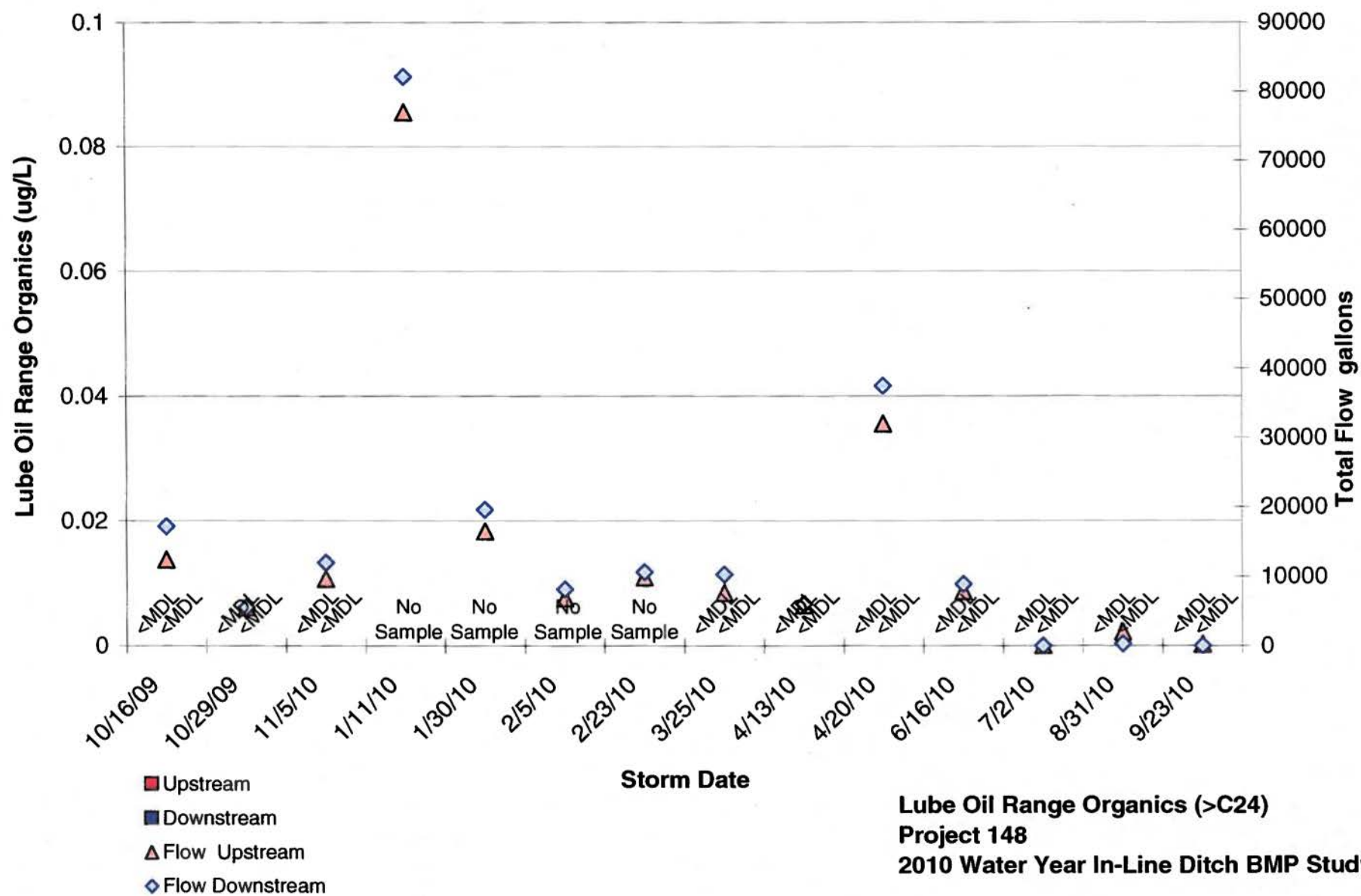


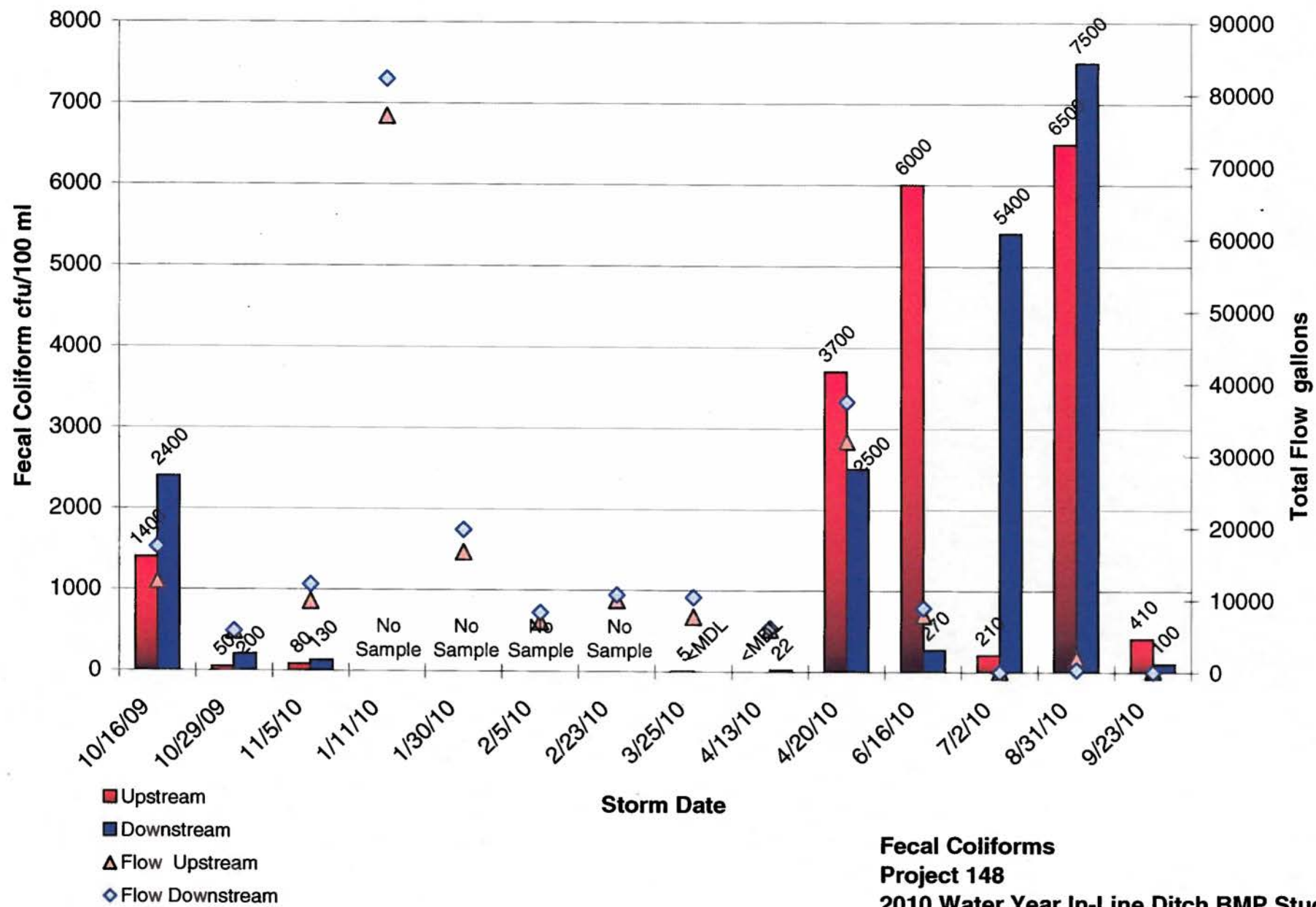




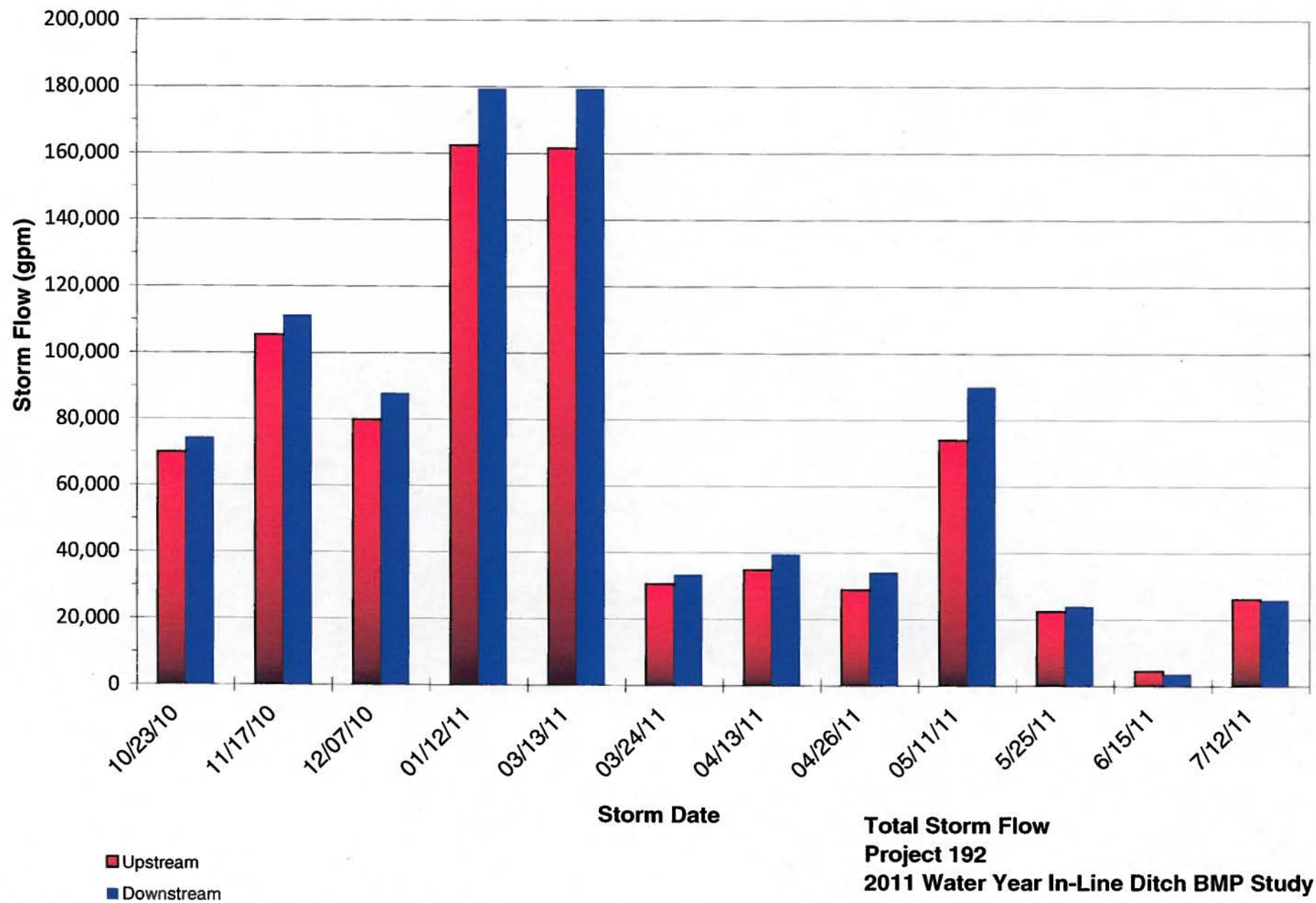




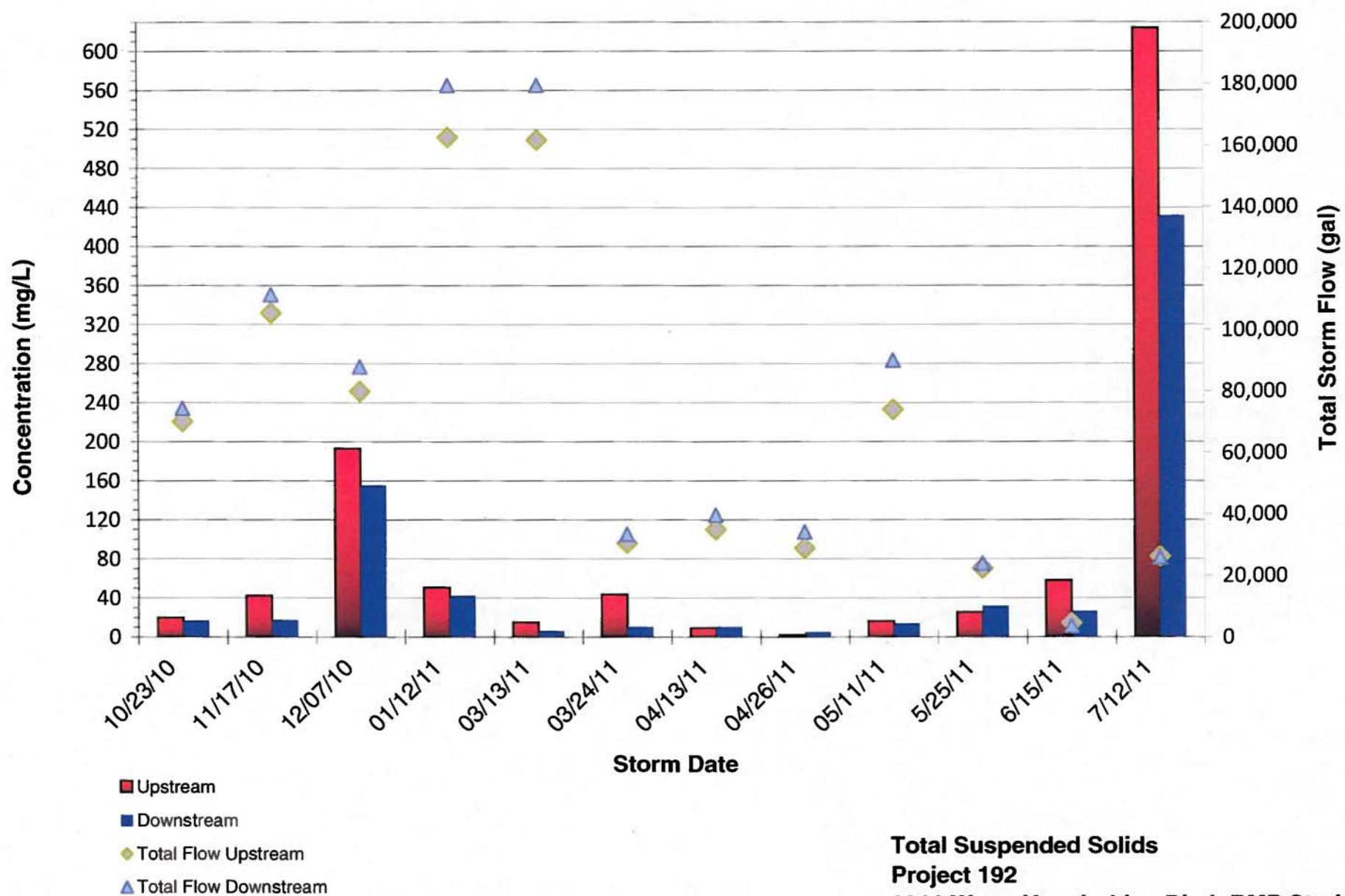




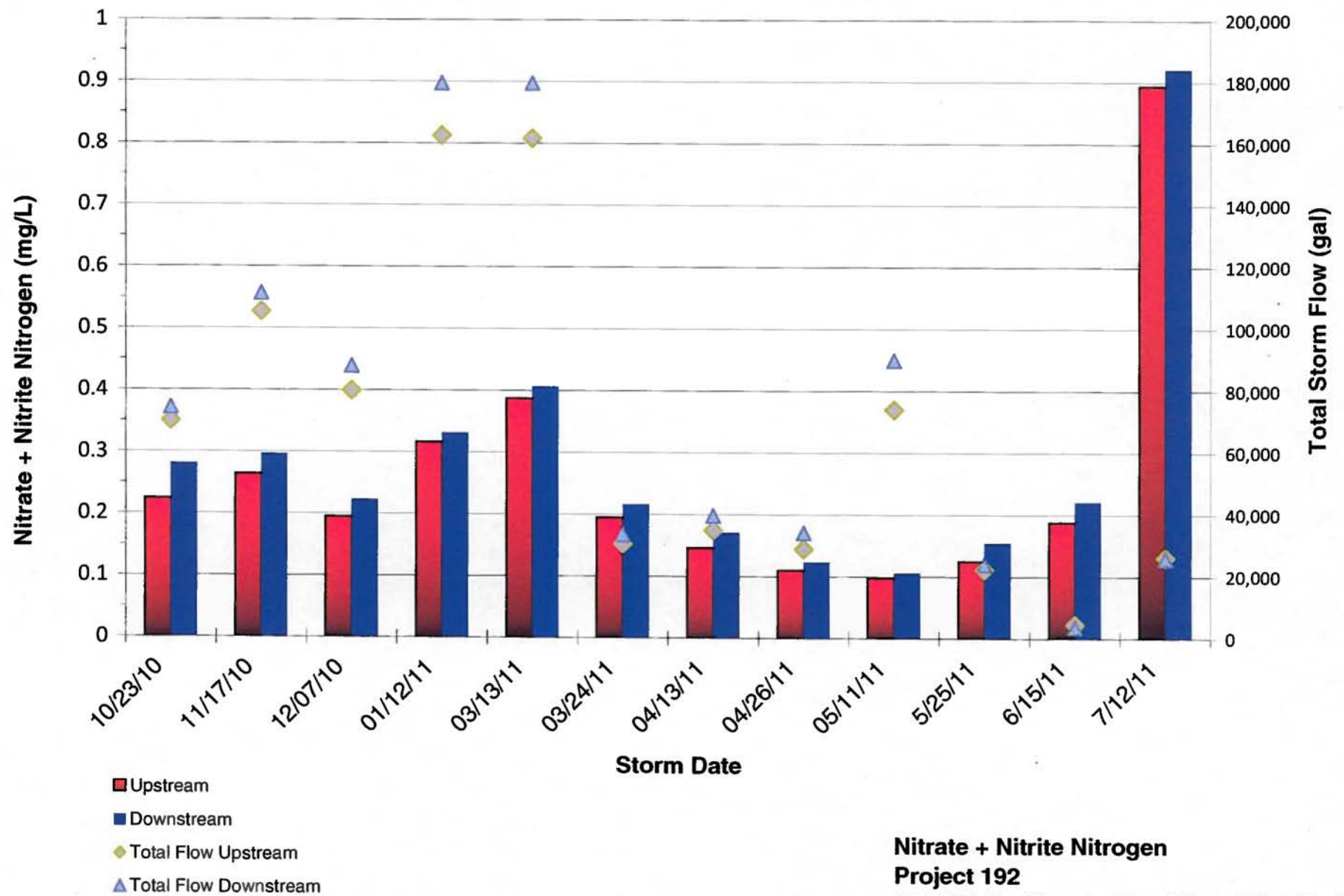
**Fecal Coliforms  
Project 148  
2010 Water Year In-Line Ditch BMP Study**



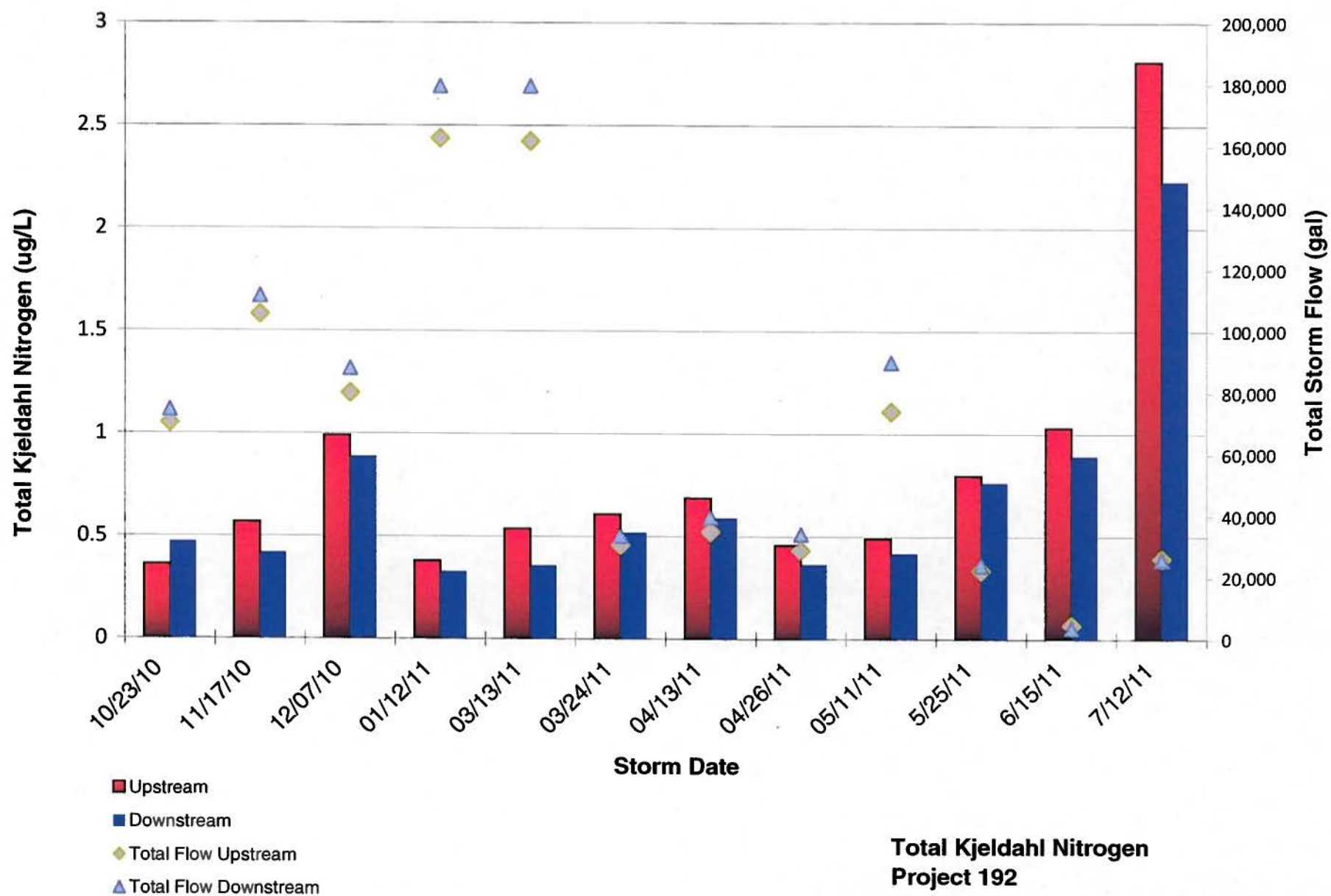




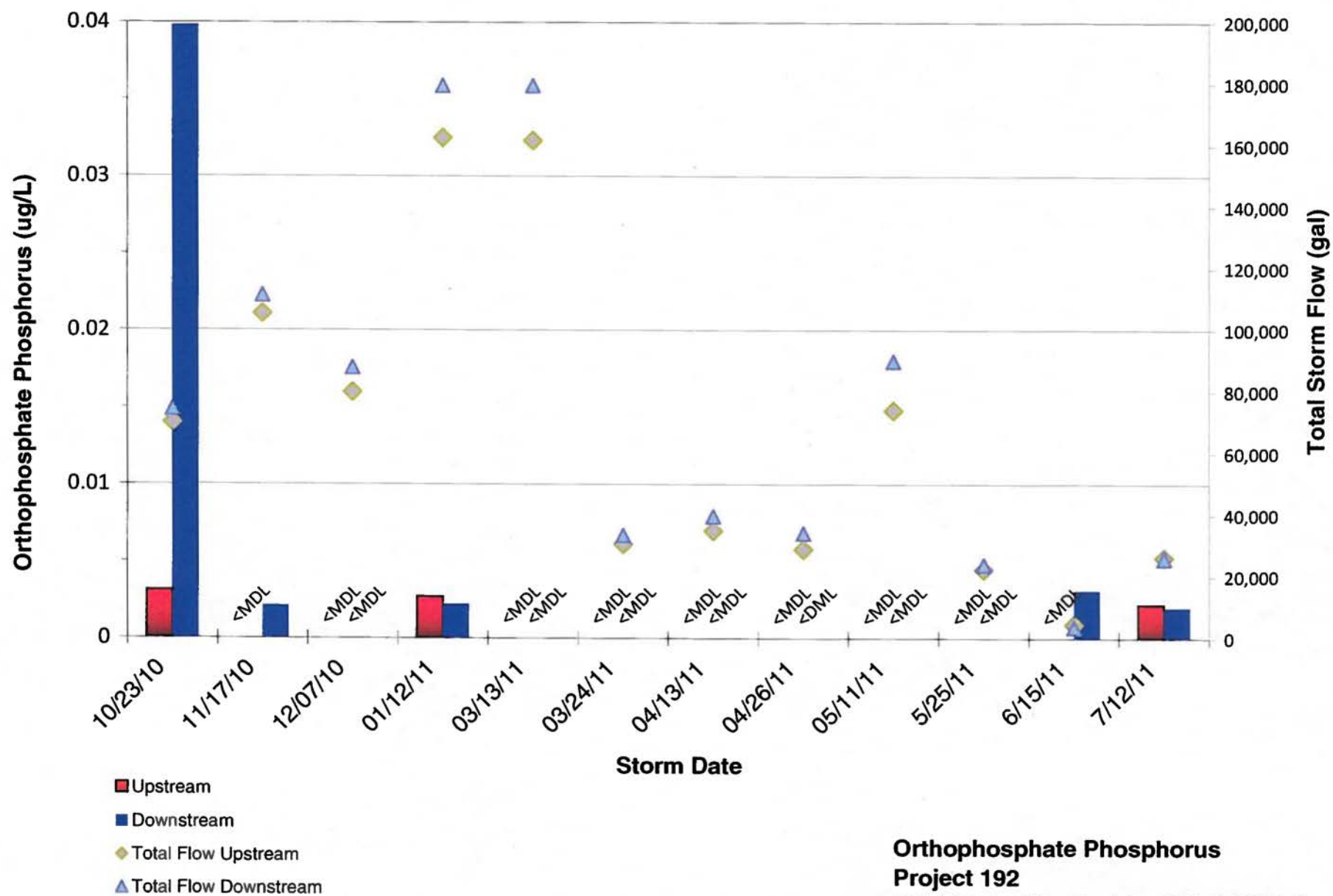
**Total Suspended Solids  
Project 192  
2011 Water Year In-Line Ditch BMP Study**



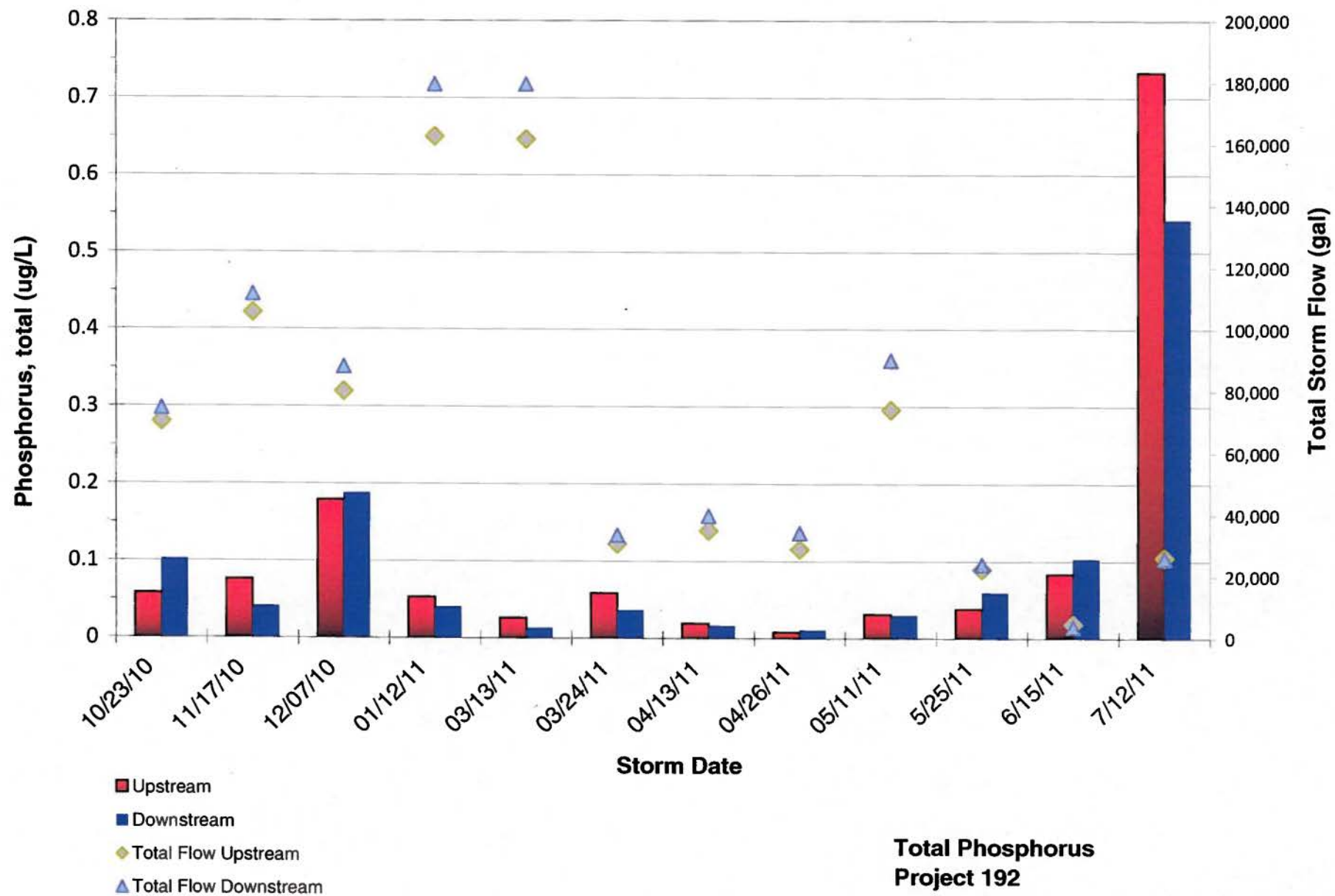
**Nitrate + Nitrite Nitrogen  
Project 192  
2011 Water Year In-Line Ditch BMP Study**



**Total Kjeldahl Nitrogen  
Project 192  
2011 Water Year In-Line Ditch BMP Study**

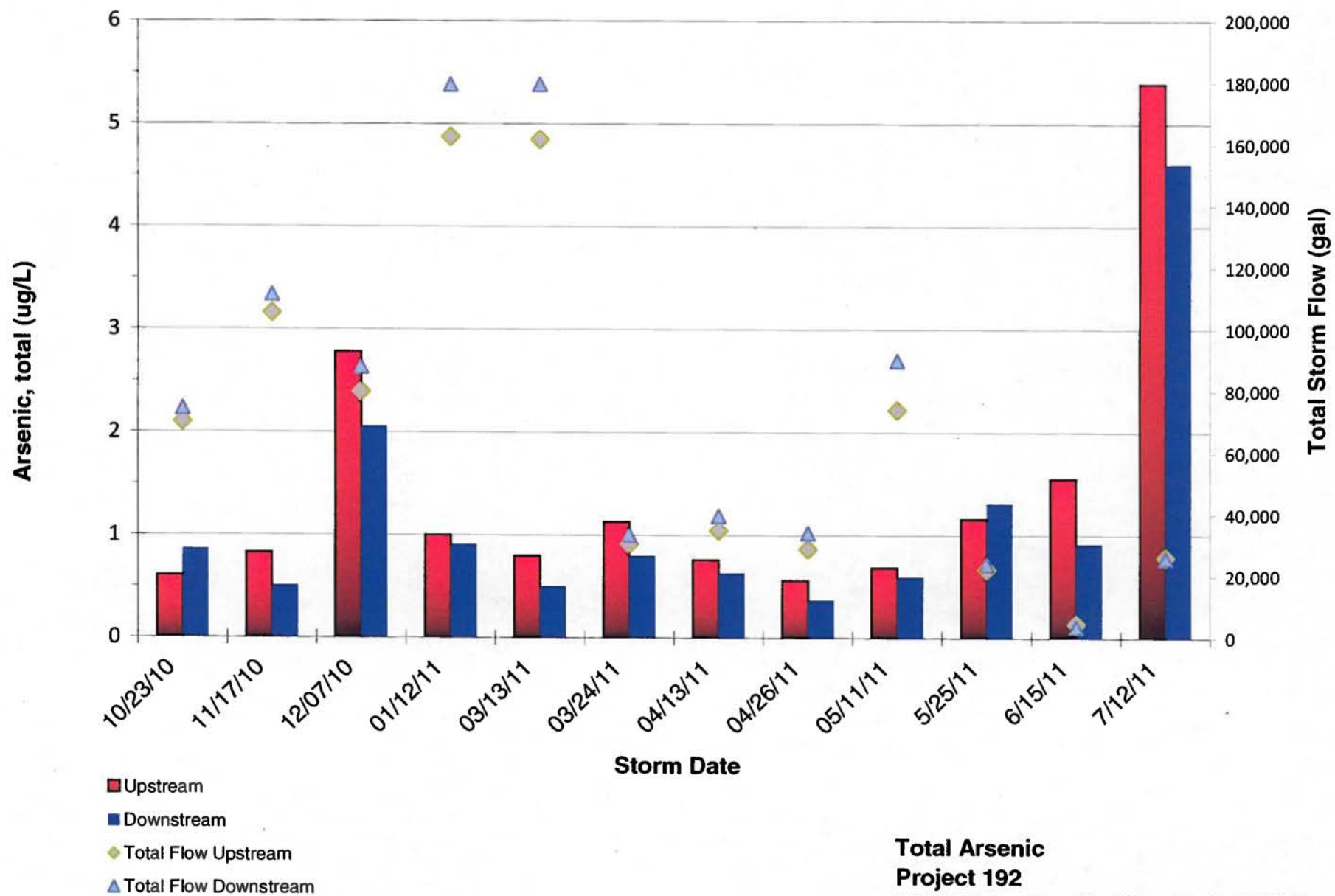


**Orthophosphate Phosphorus  
Project 192  
2011 Water Year In-Line Ditch BMP Study**

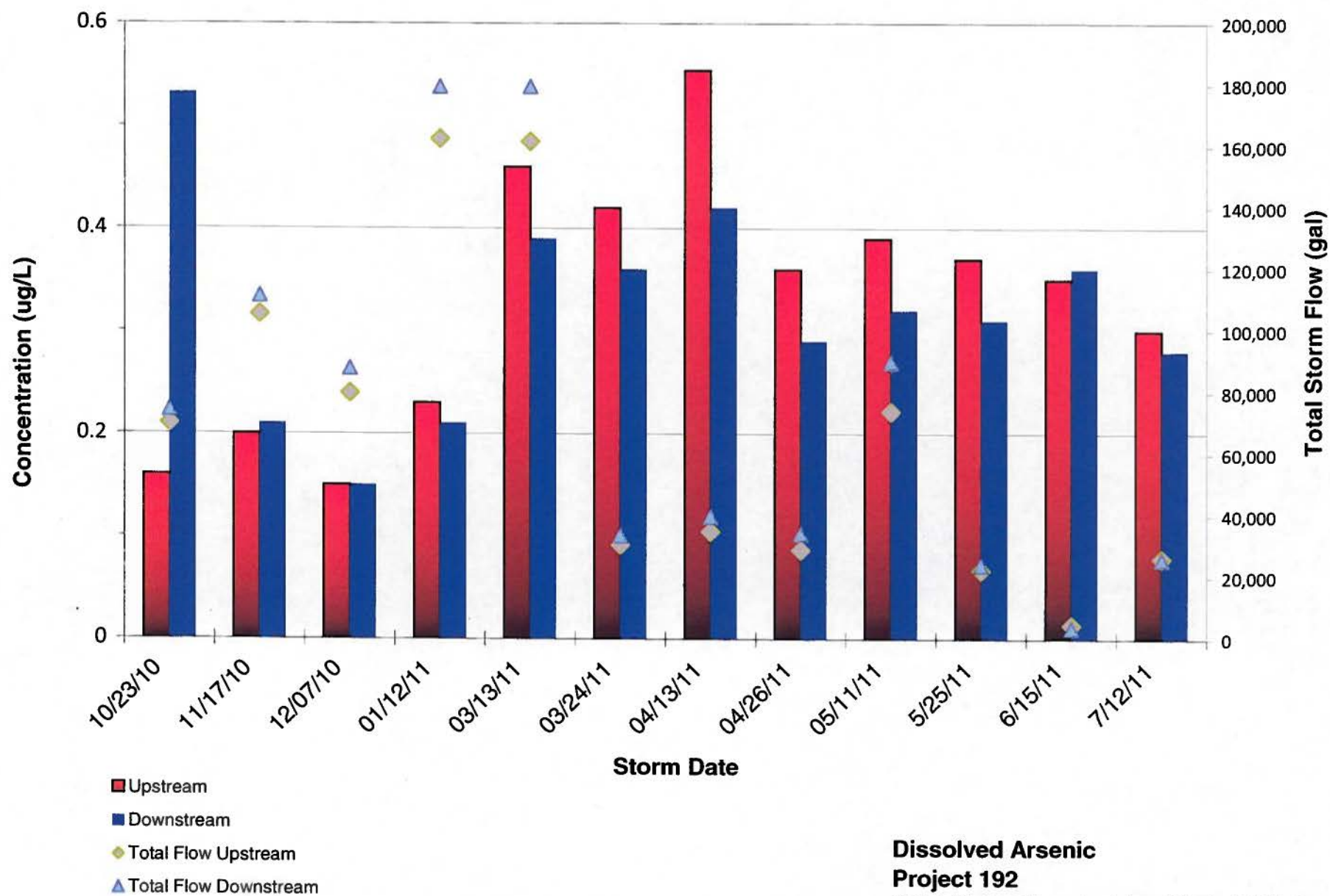


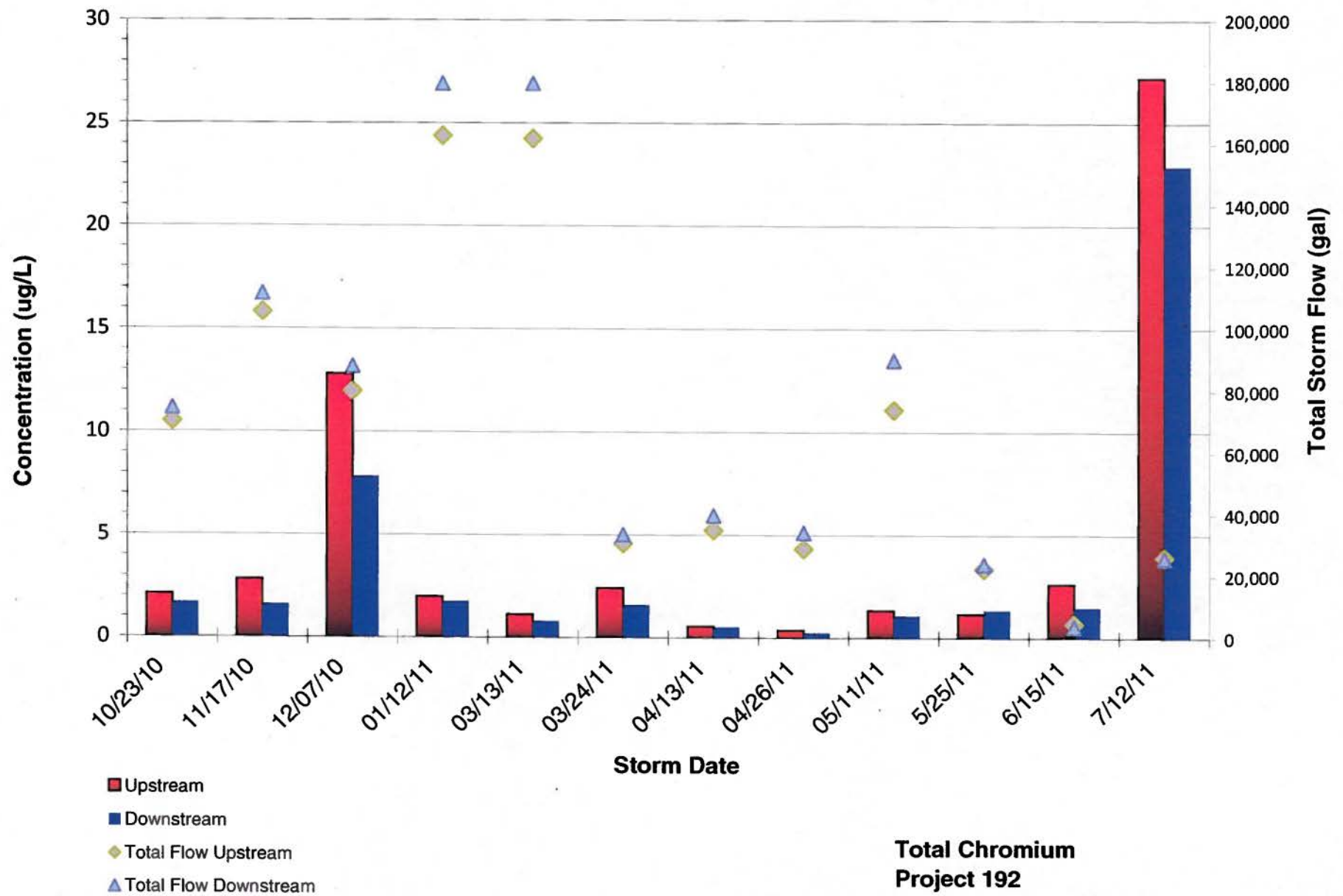
**Total Phosphorus  
Project 192  
2011 Water Year In-Line Ditch BMP Study**



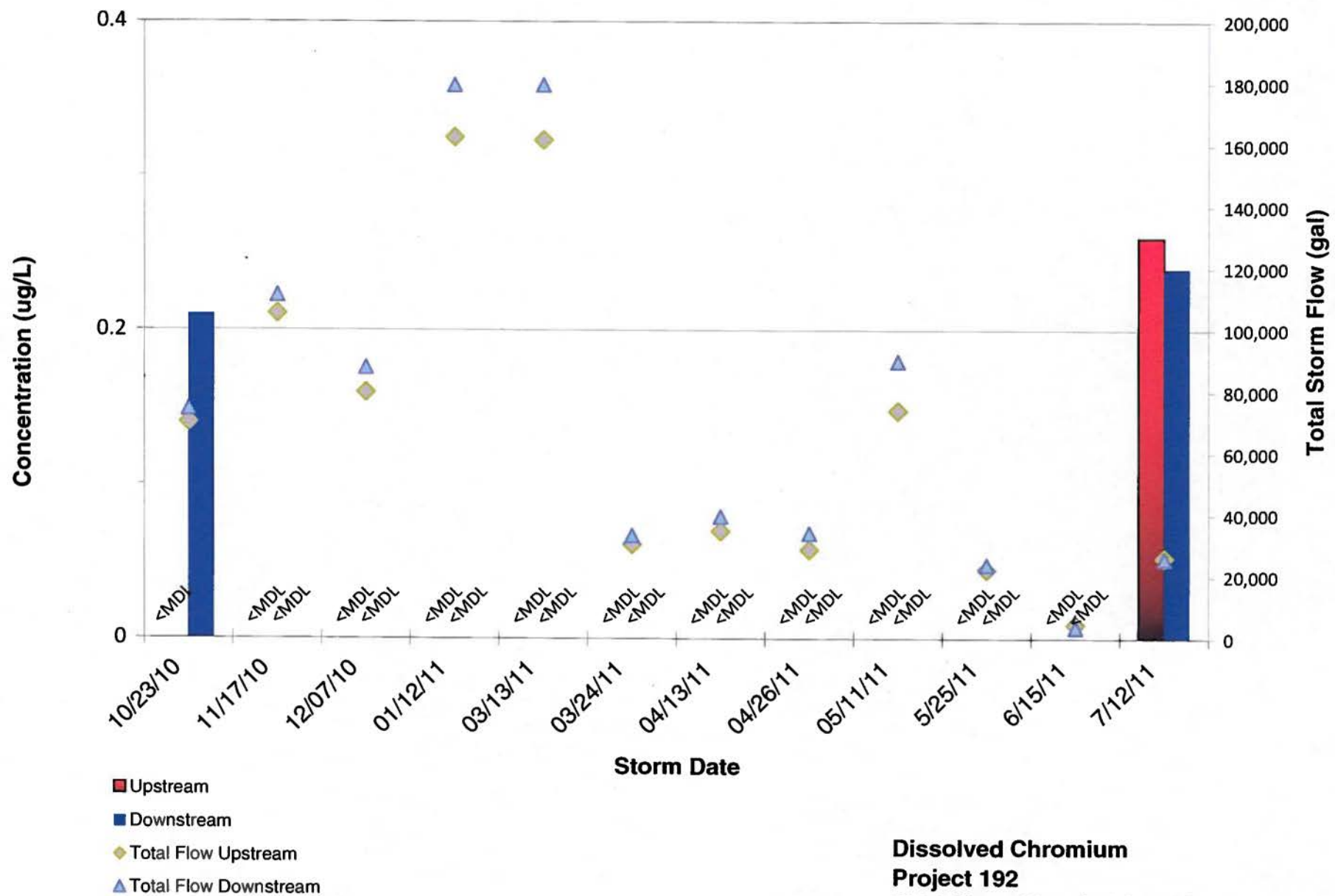


**Total Arsenic  
Project 192  
2011 Water Year In-Line Ditch BMP Study**

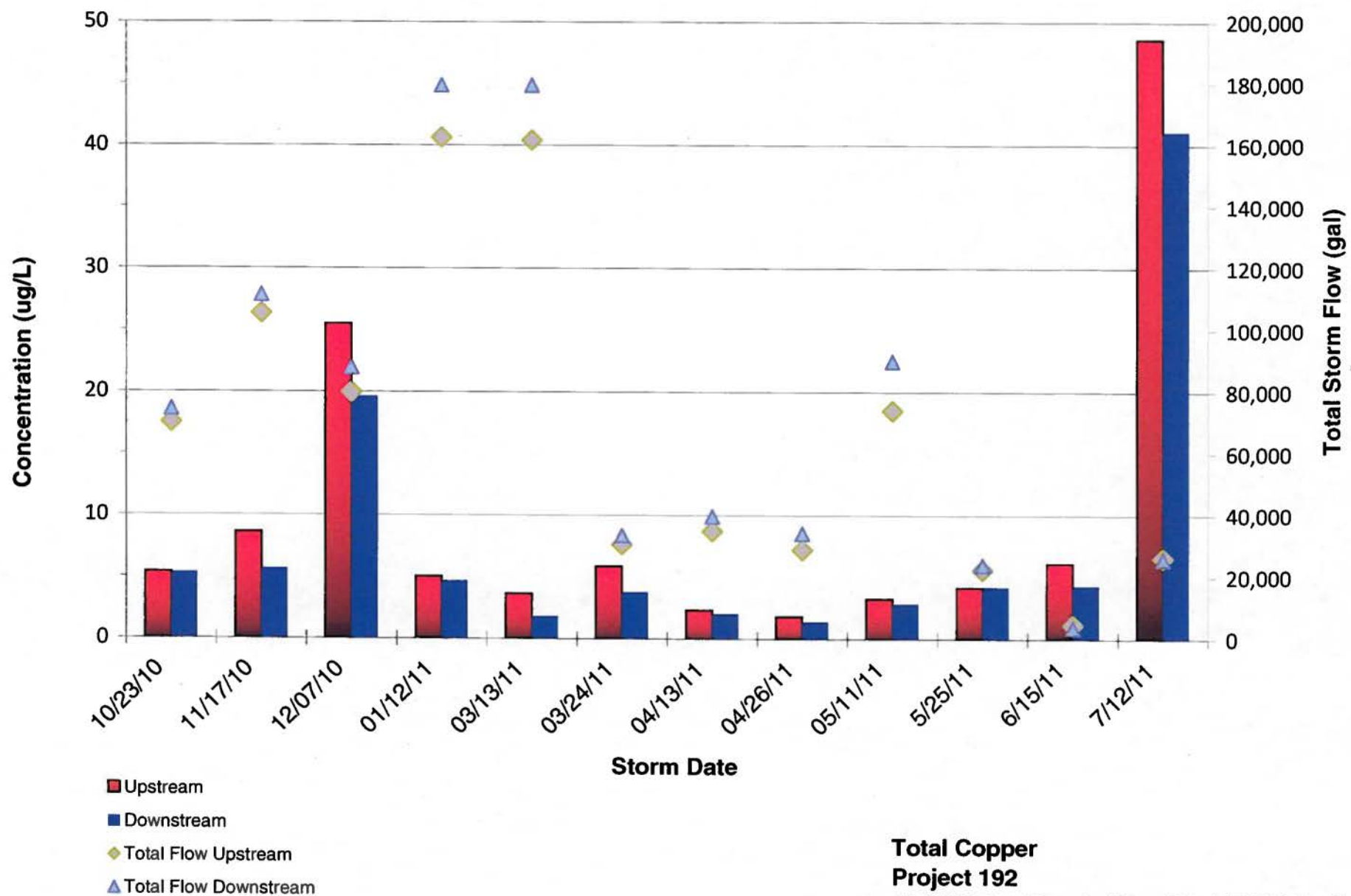




**Total Chromium  
Project 192  
2011 Water Year In-Line Ditch BMP Study**

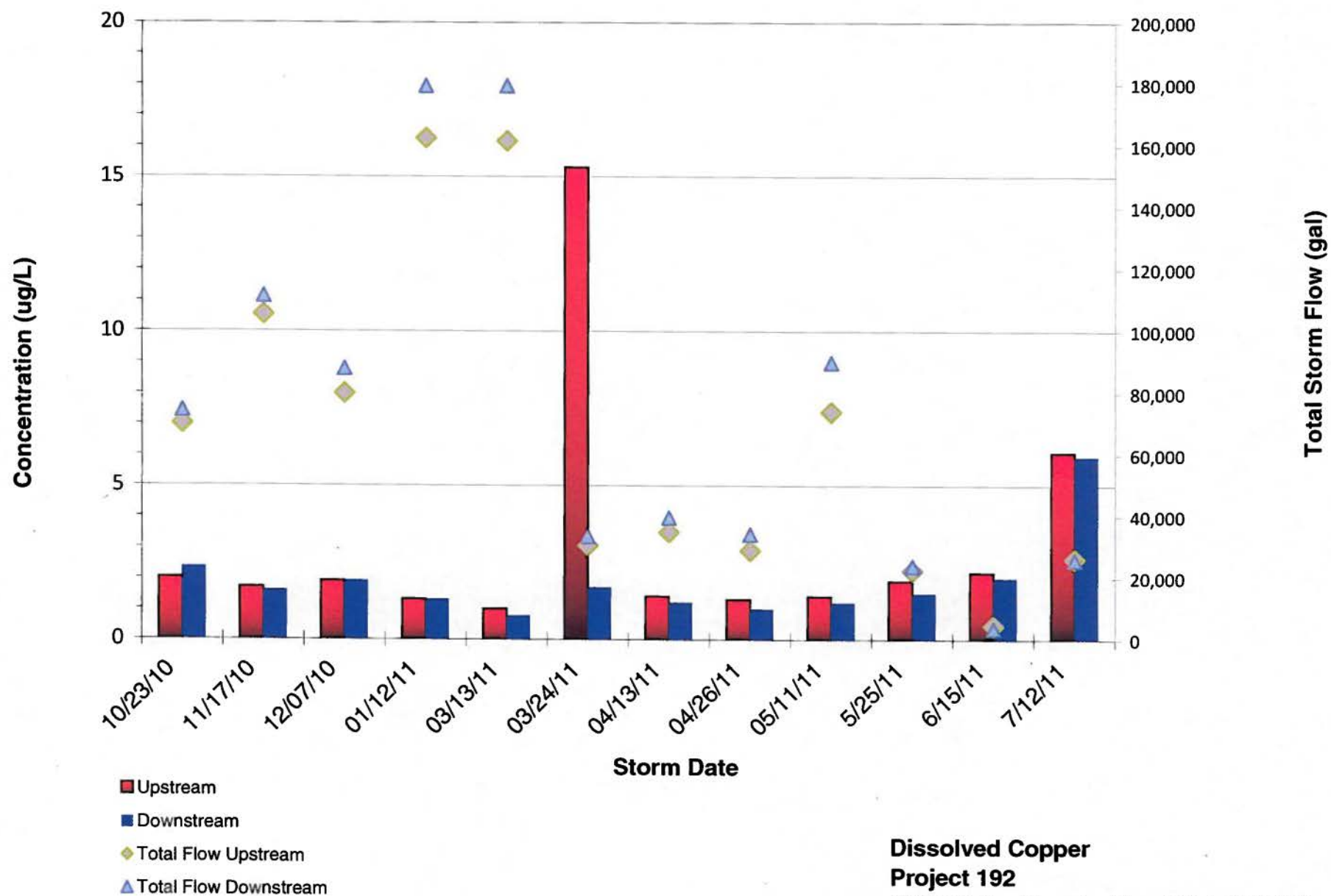


**Dissolved Chromium  
Project 192  
2011 Water Year In-Line Ditch BMP Study**

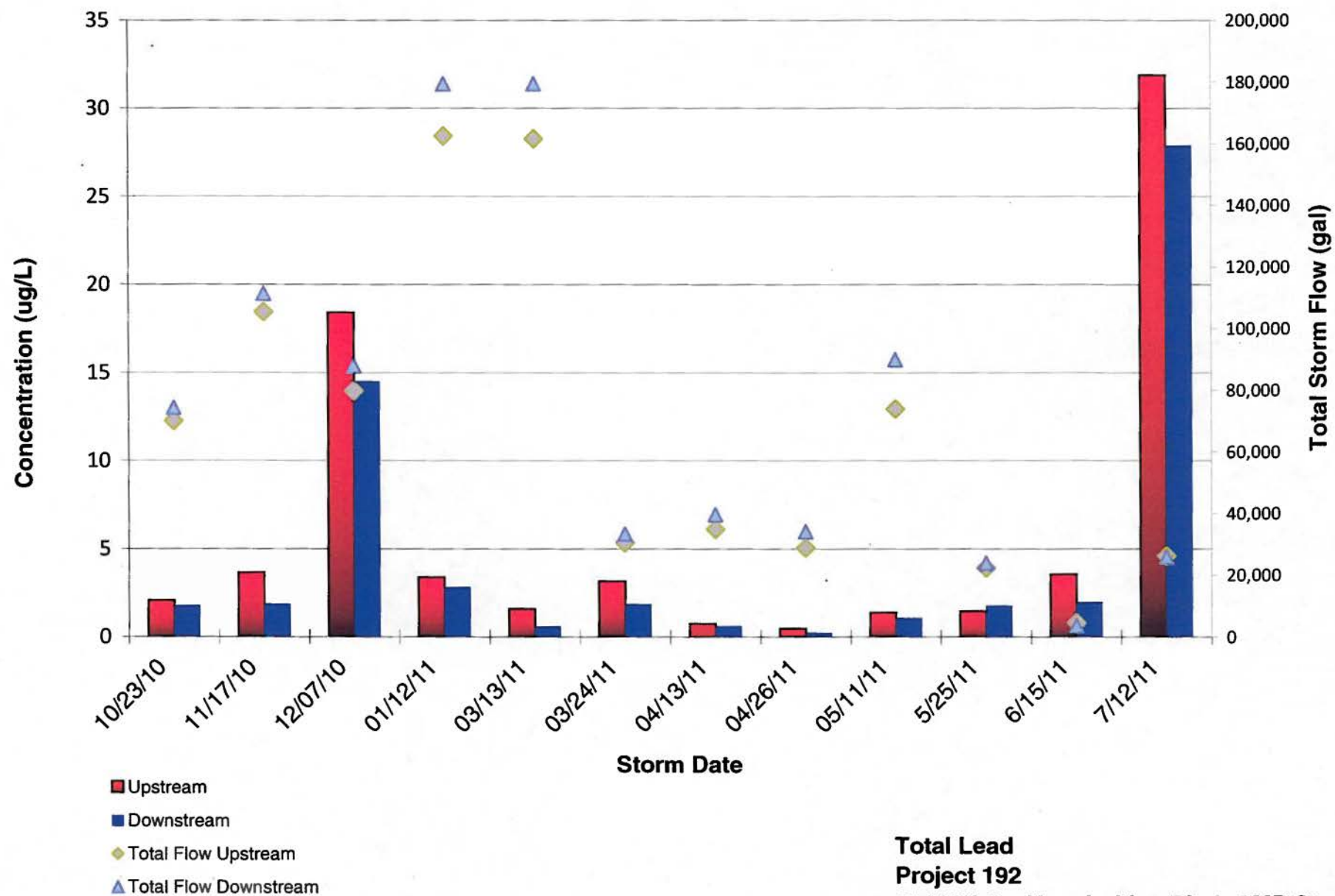


**Total Copper  
Project 192  
2011 Water Year In-Line Ditch BMP Study**



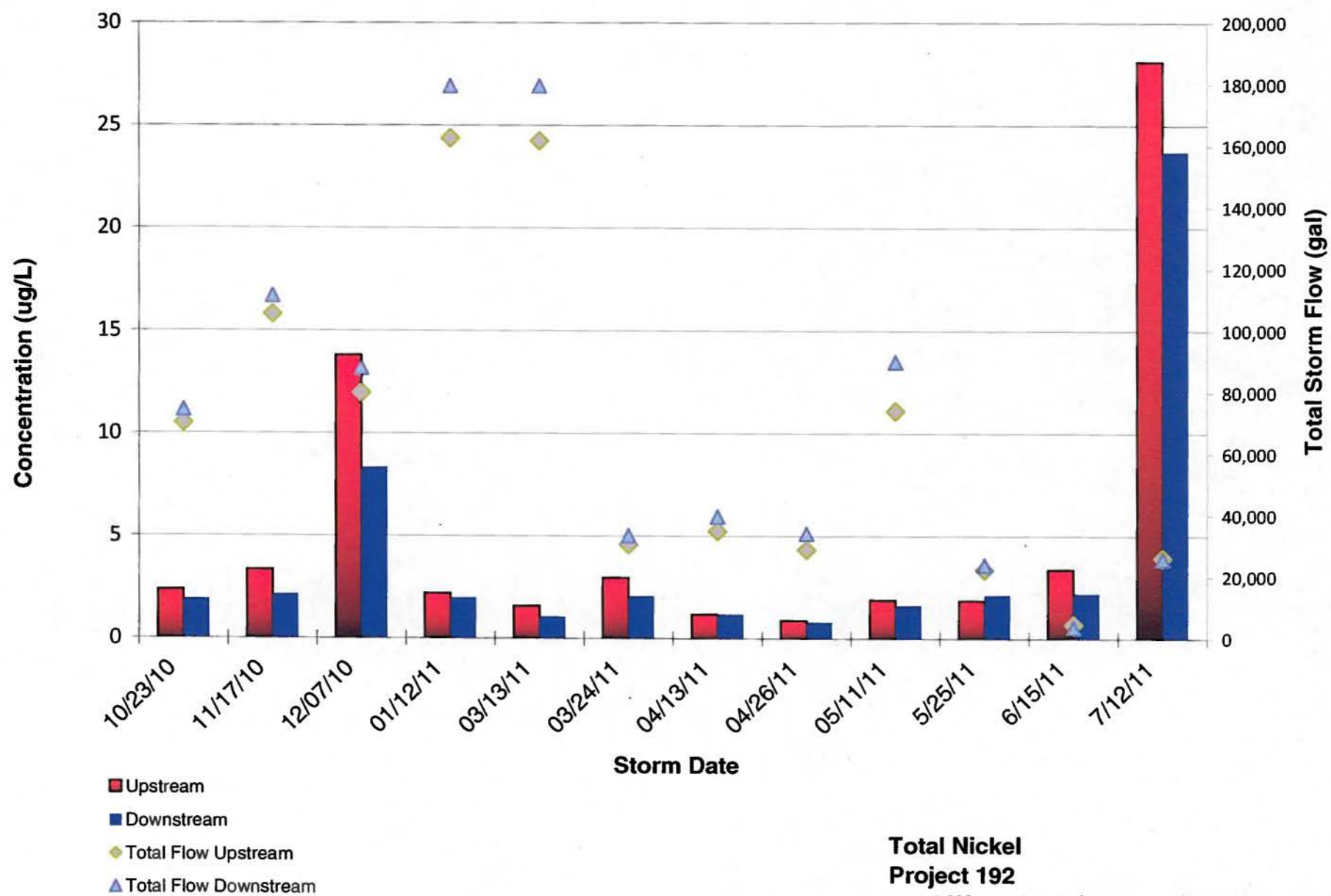


**Dissolved Copper**  
**Project 192**  
**2011 Water Year In-Line Ditch BMP Study**

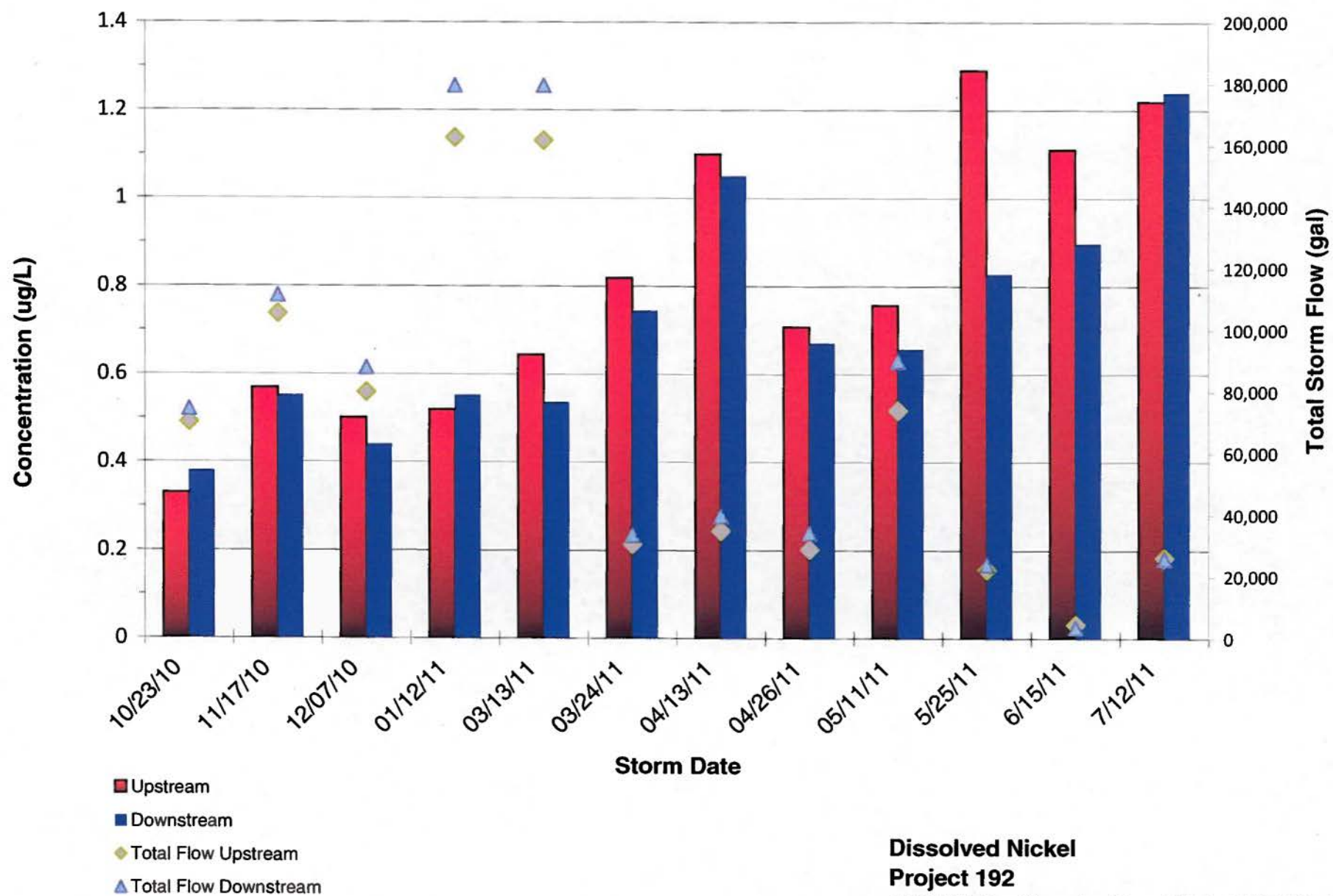


**Total Lead  
Project 192  
2011 Water Year In-Line Ditch BMP Study**



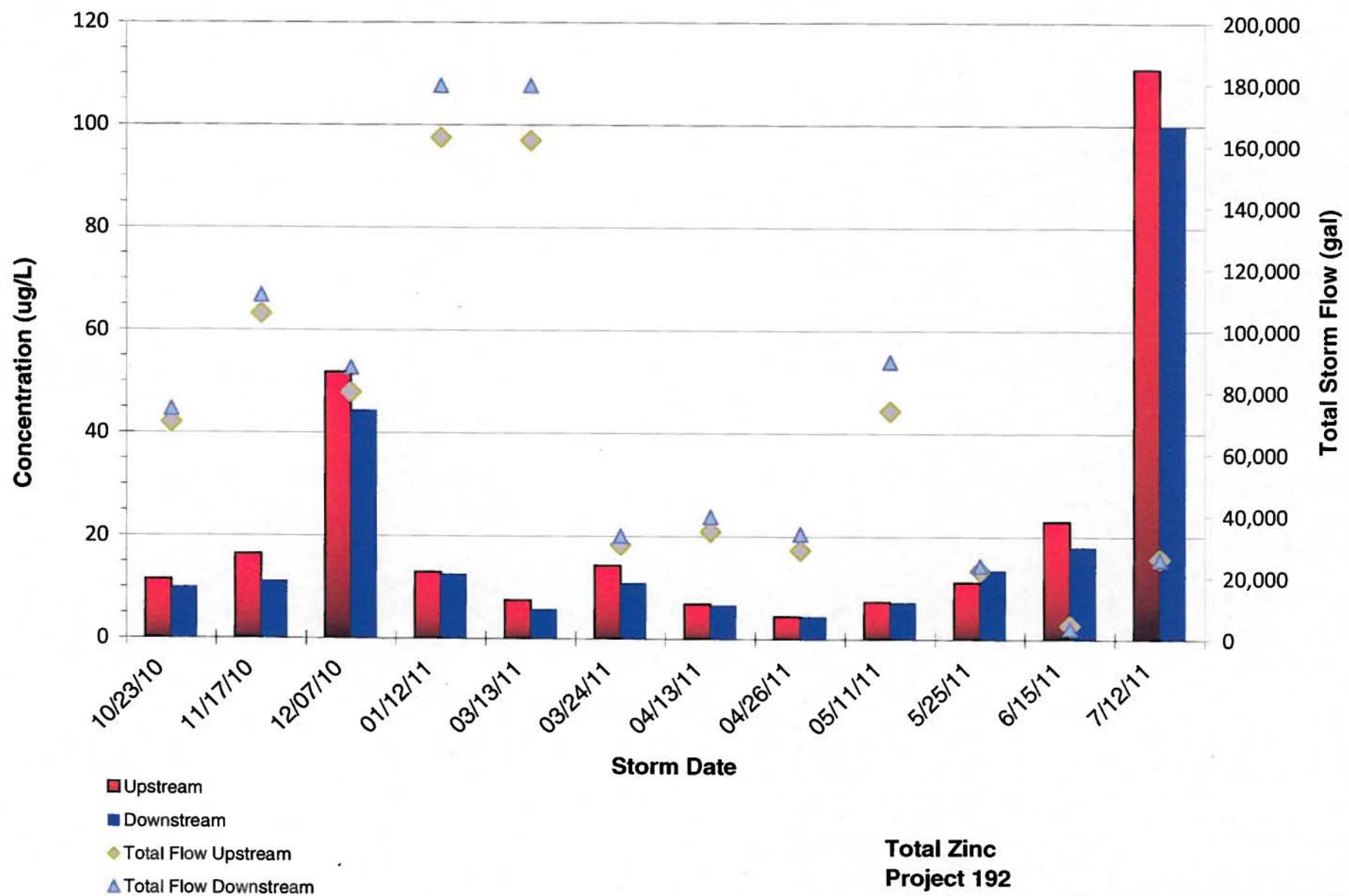


**Total Nickel  
Project 192  
2011 Water Year In-Line Ditch BMP Study**

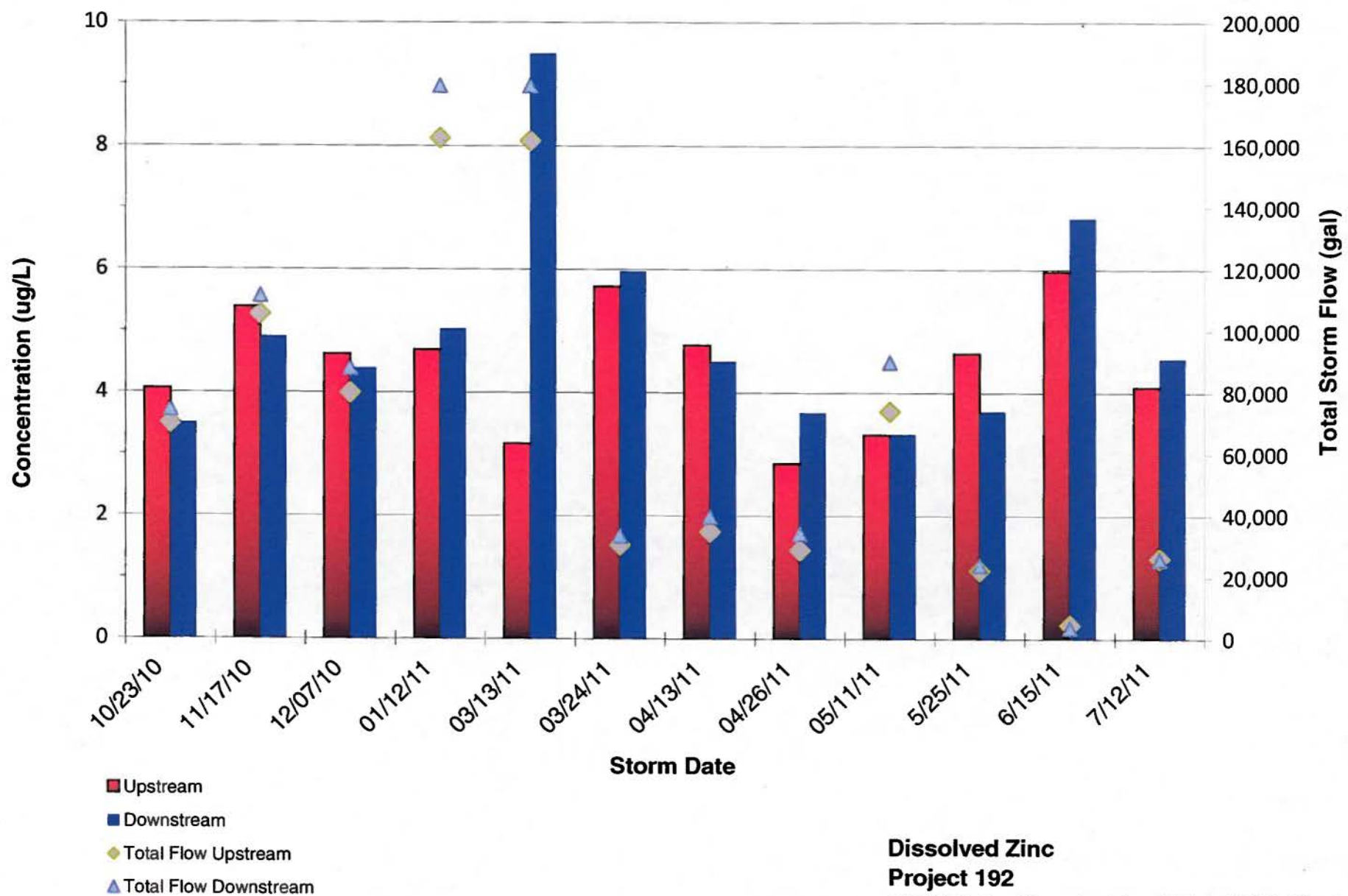


**Dissolved Nickel**  
**Project 192**  
**2011 Water Year In-Line Ditch BMP Study**

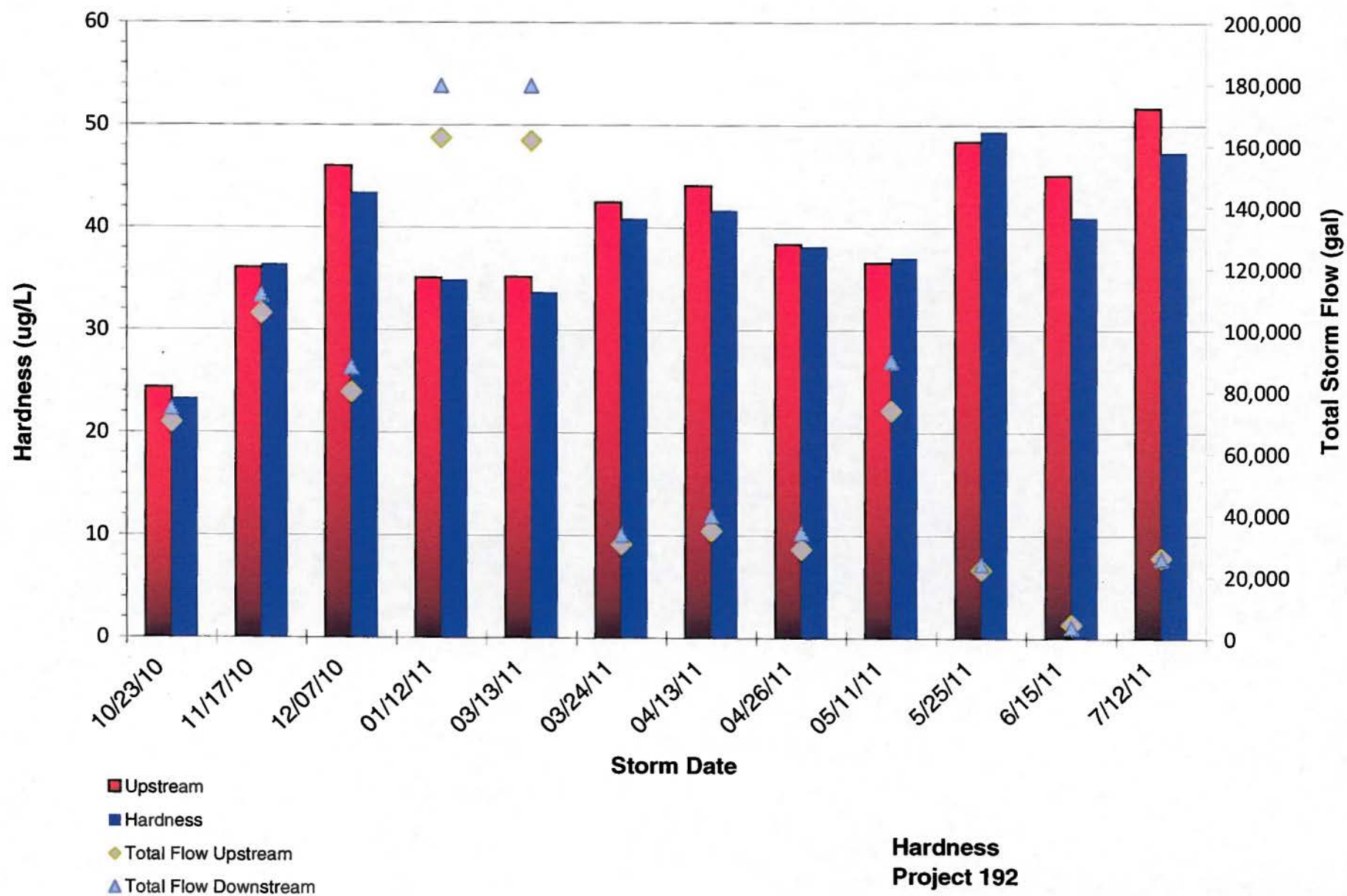




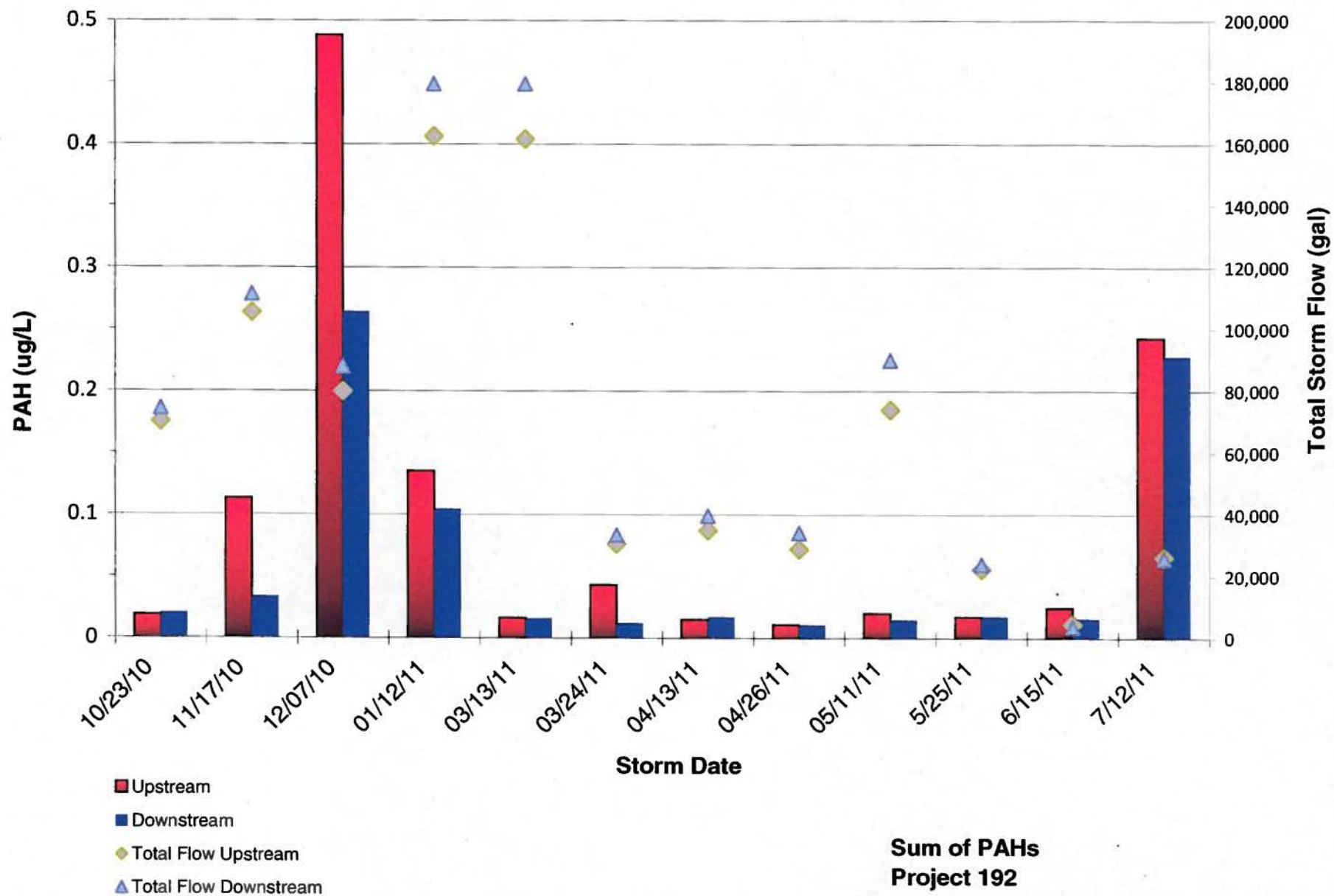
**Total Zinc  
Project 192  
2011 Water Year In-Line Ditch BMP Study**



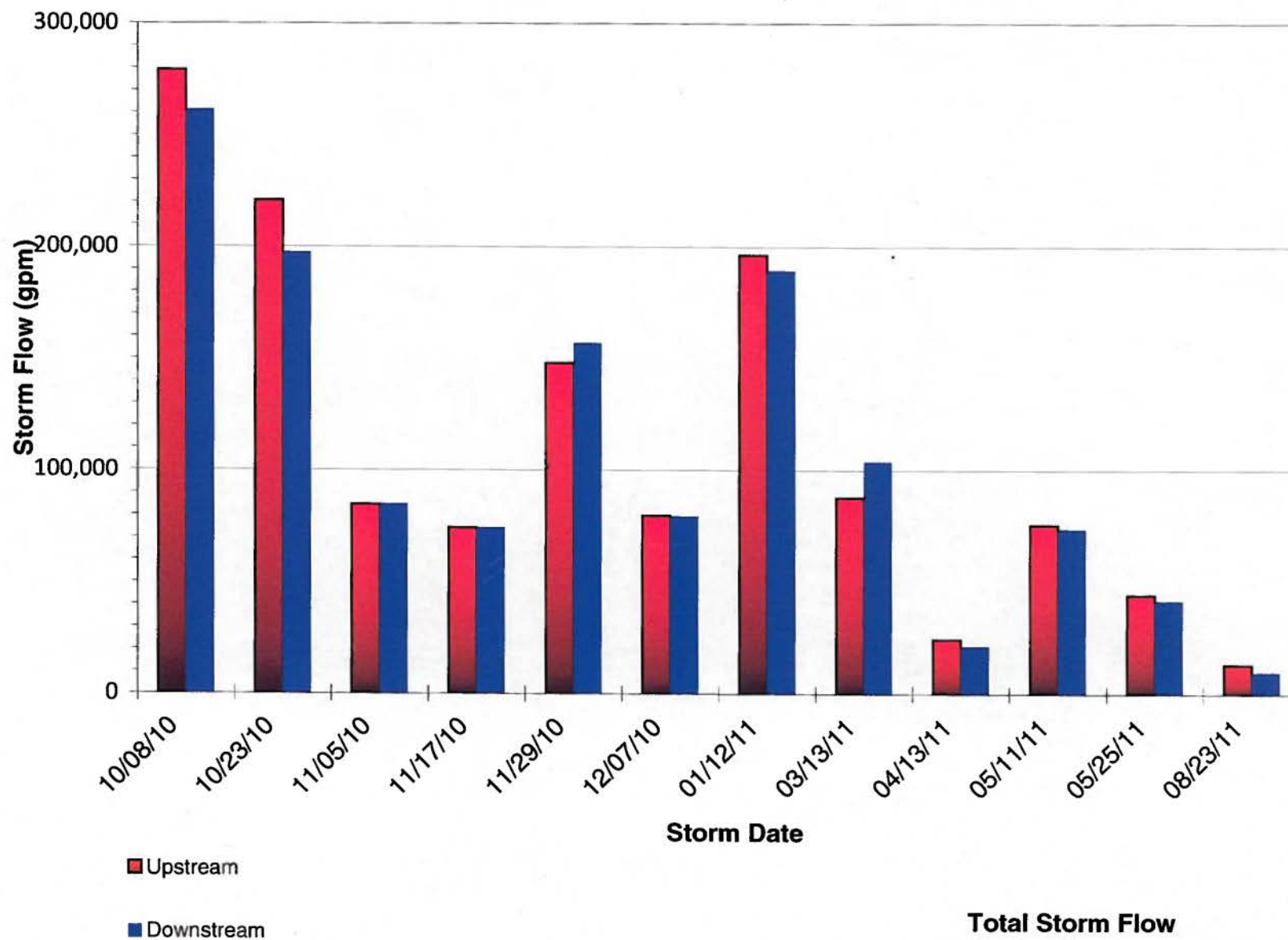
**Dissolved Zinc  
Project 192  
2011 Water Year In-Line Ditch BMP Study**



**Hardness  
Project 192  
2011 Water Year In-Line Ditch BMP Study**

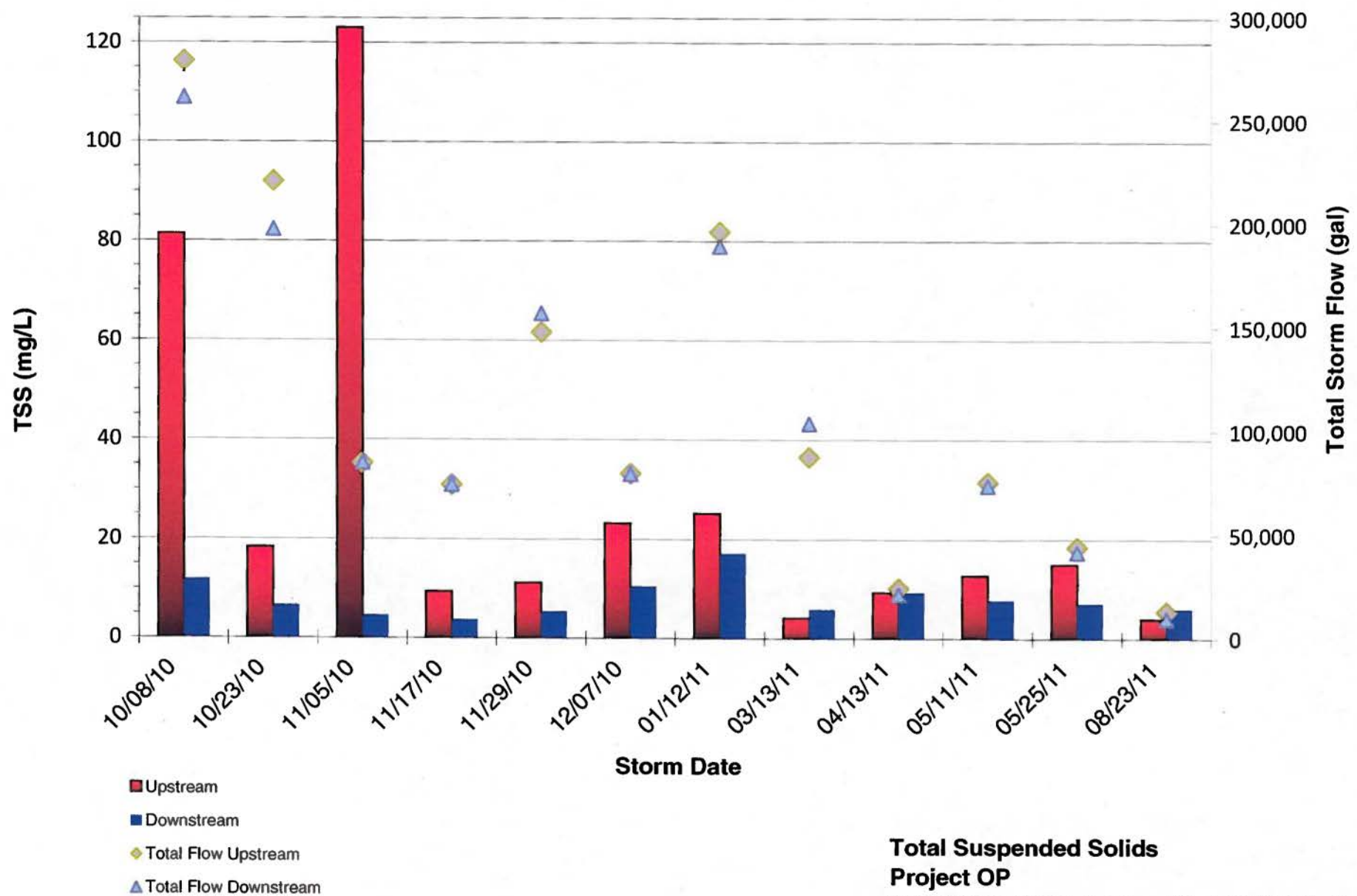


**Sum of PAHs  
Project 192  
2011 Water Year In-Line Ditch BMP Study**

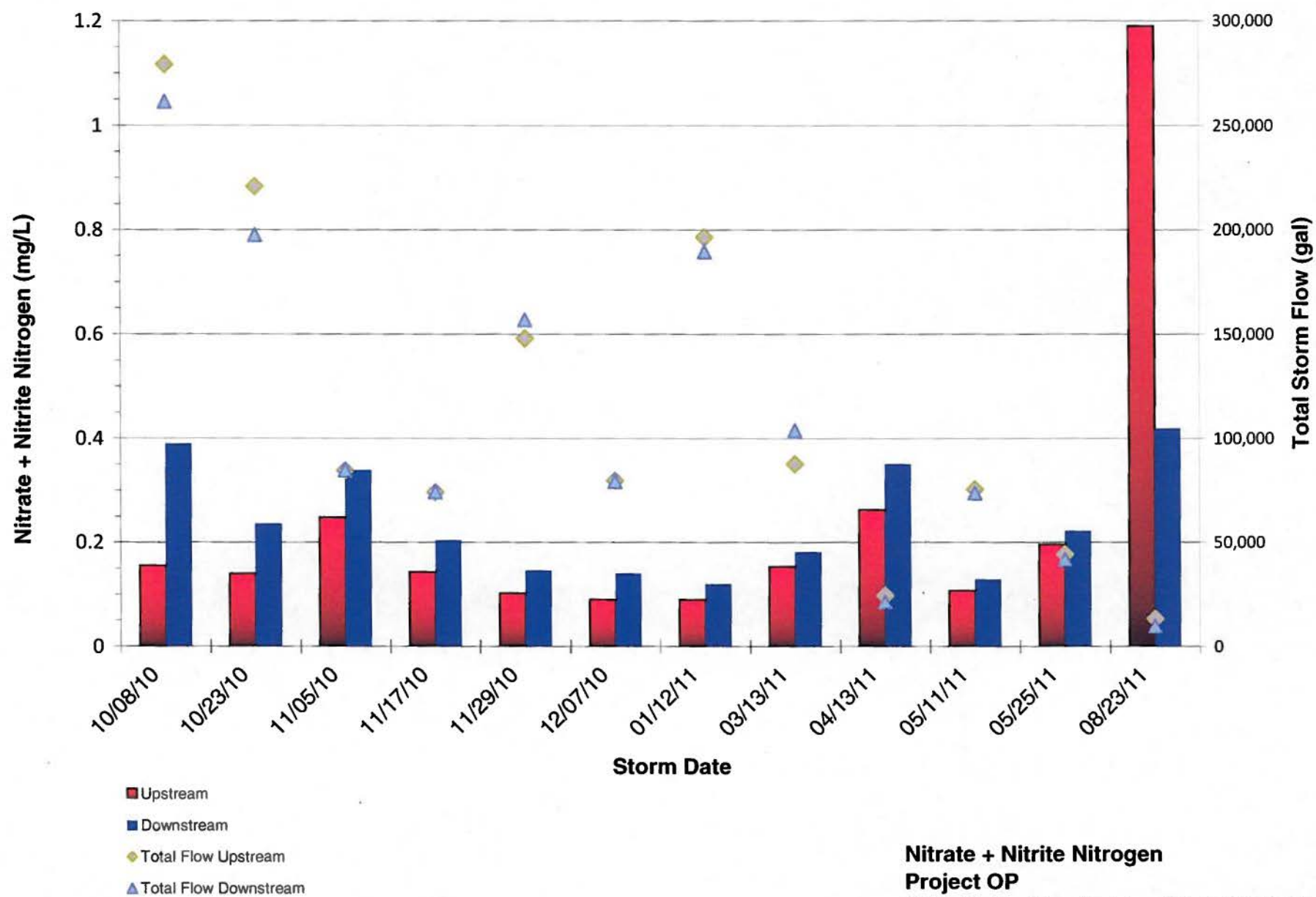


**Total Storm Flow  
Project OP  
2011 Water Year In-Line Ditch BMP Study**

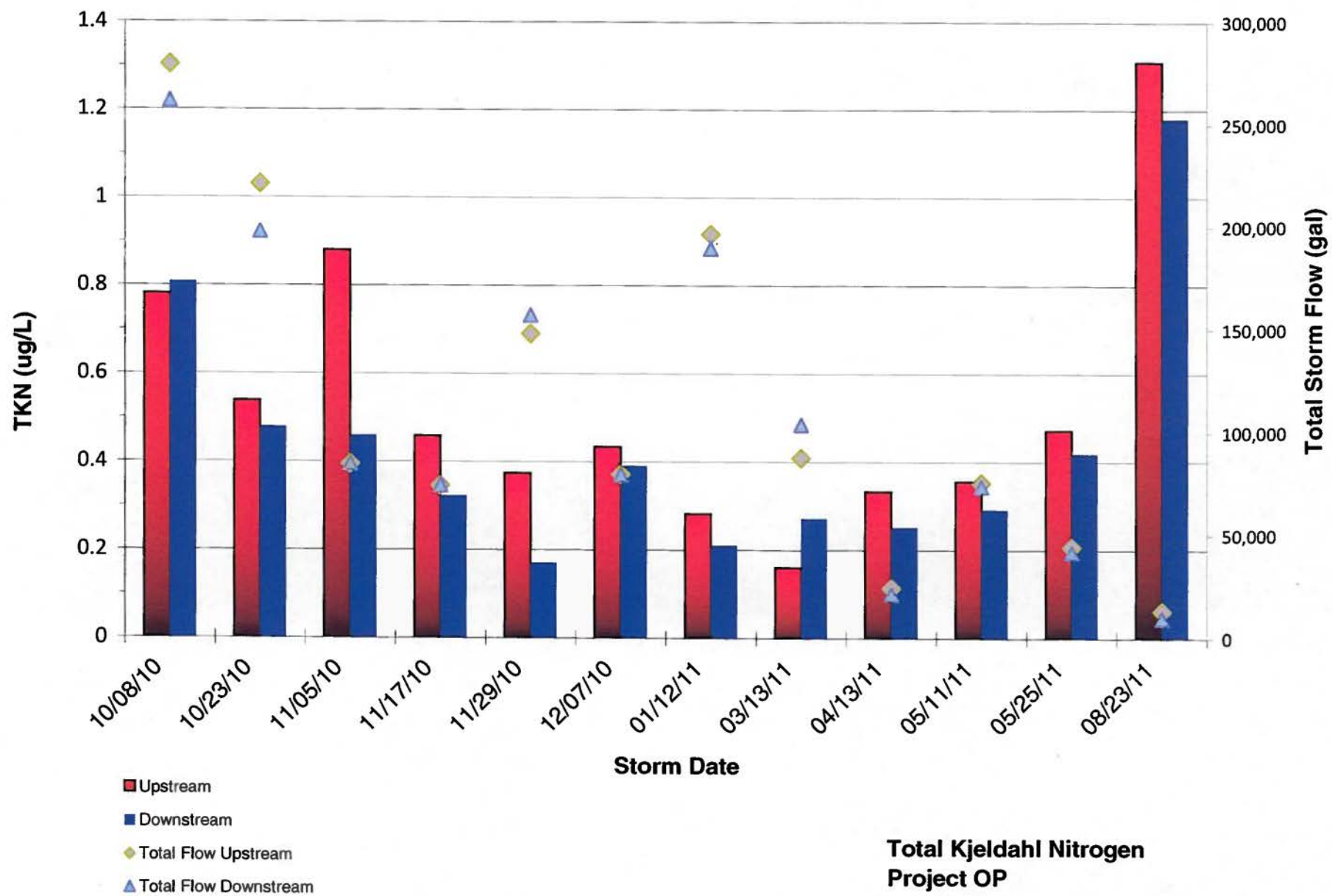




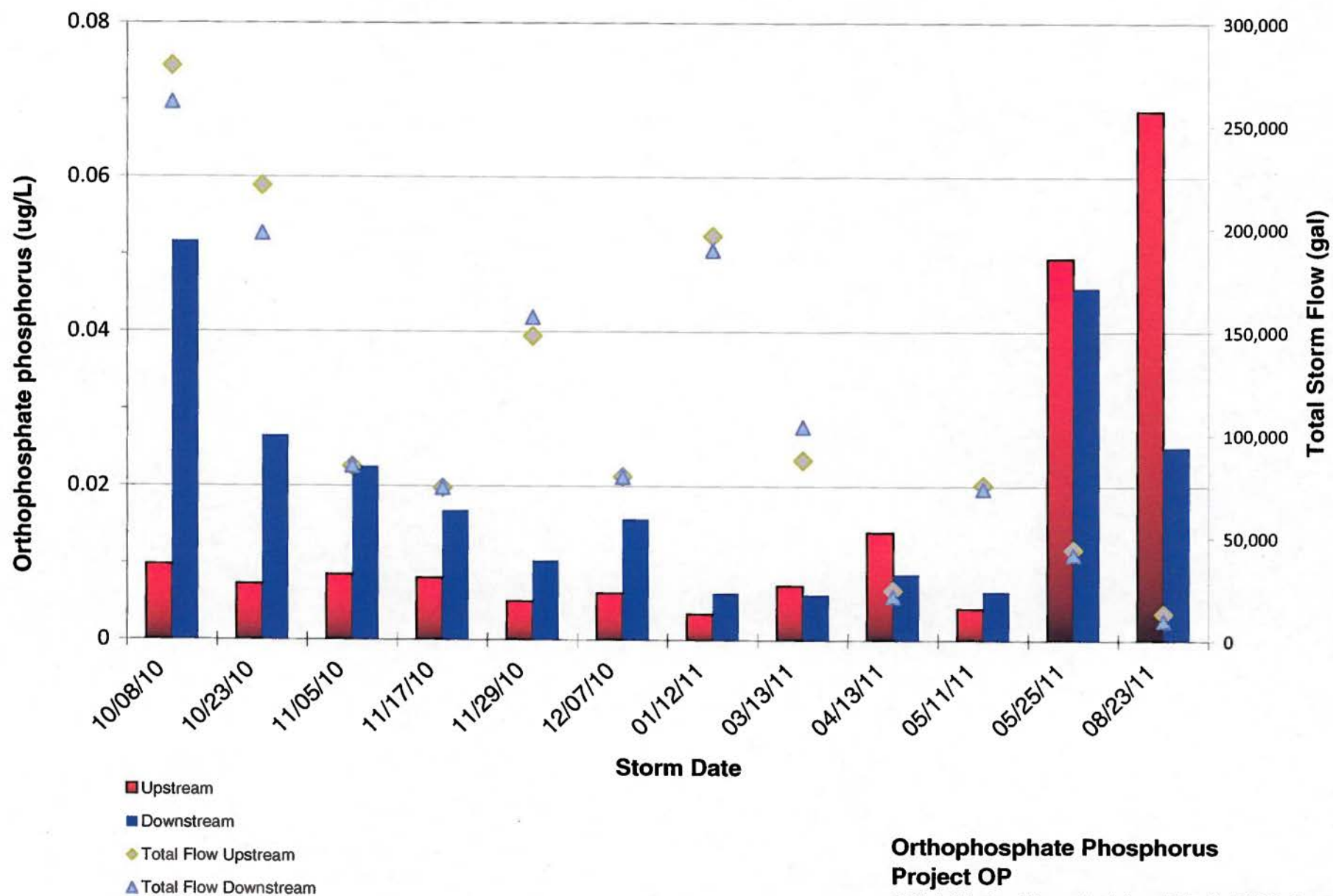
**Total Suspended Solids  
Project OP  
2011 Water Year In-Line Ditch BMP Study**



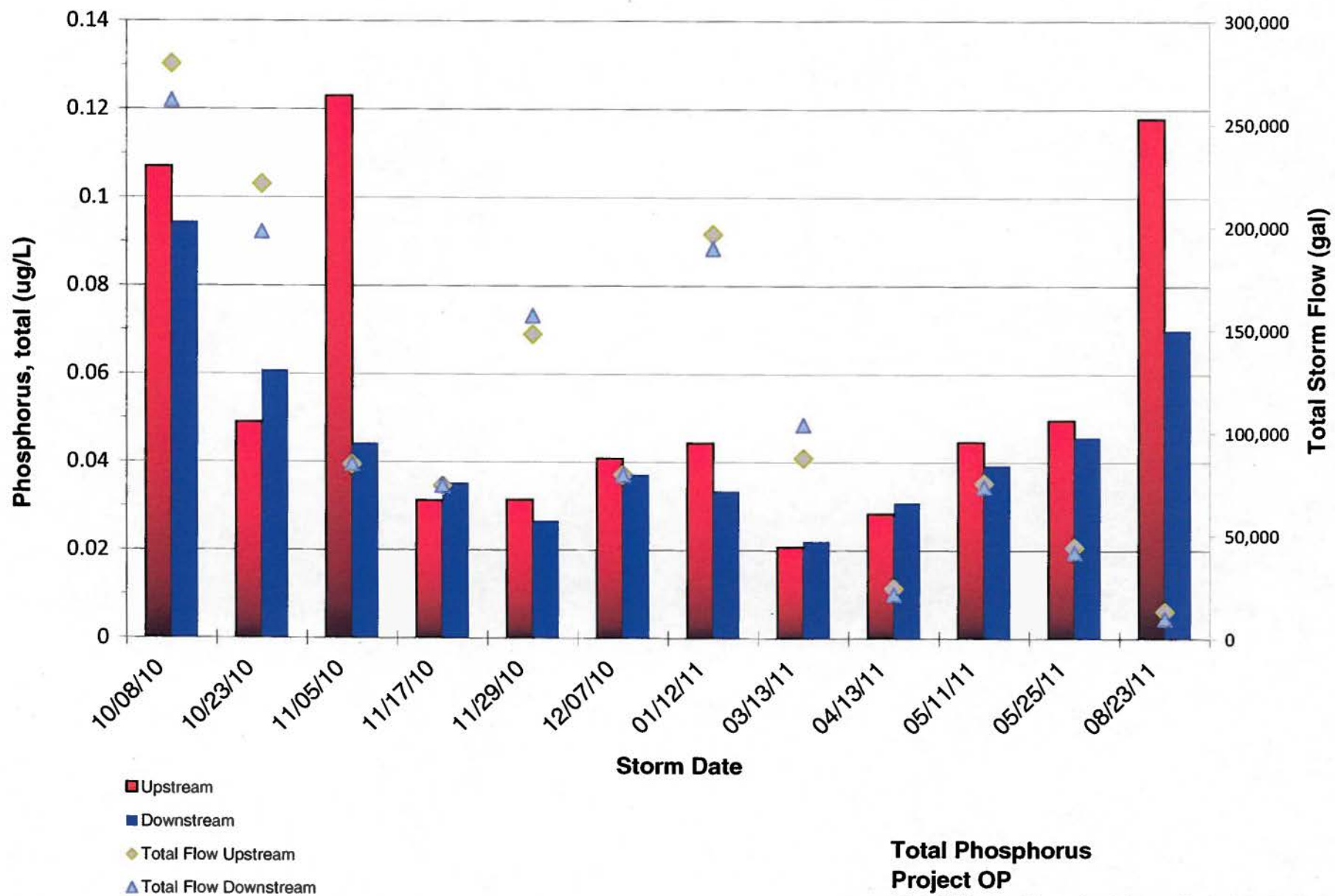
**Nitrate + Nitrite Nitrogen  
Project OP  
2011 Water Year In-Line Ditch BMP Study**



**Total Kjeldahl Nitrogen  
Project OP  
2011 Water Year In-Line Ditch BMP Study**

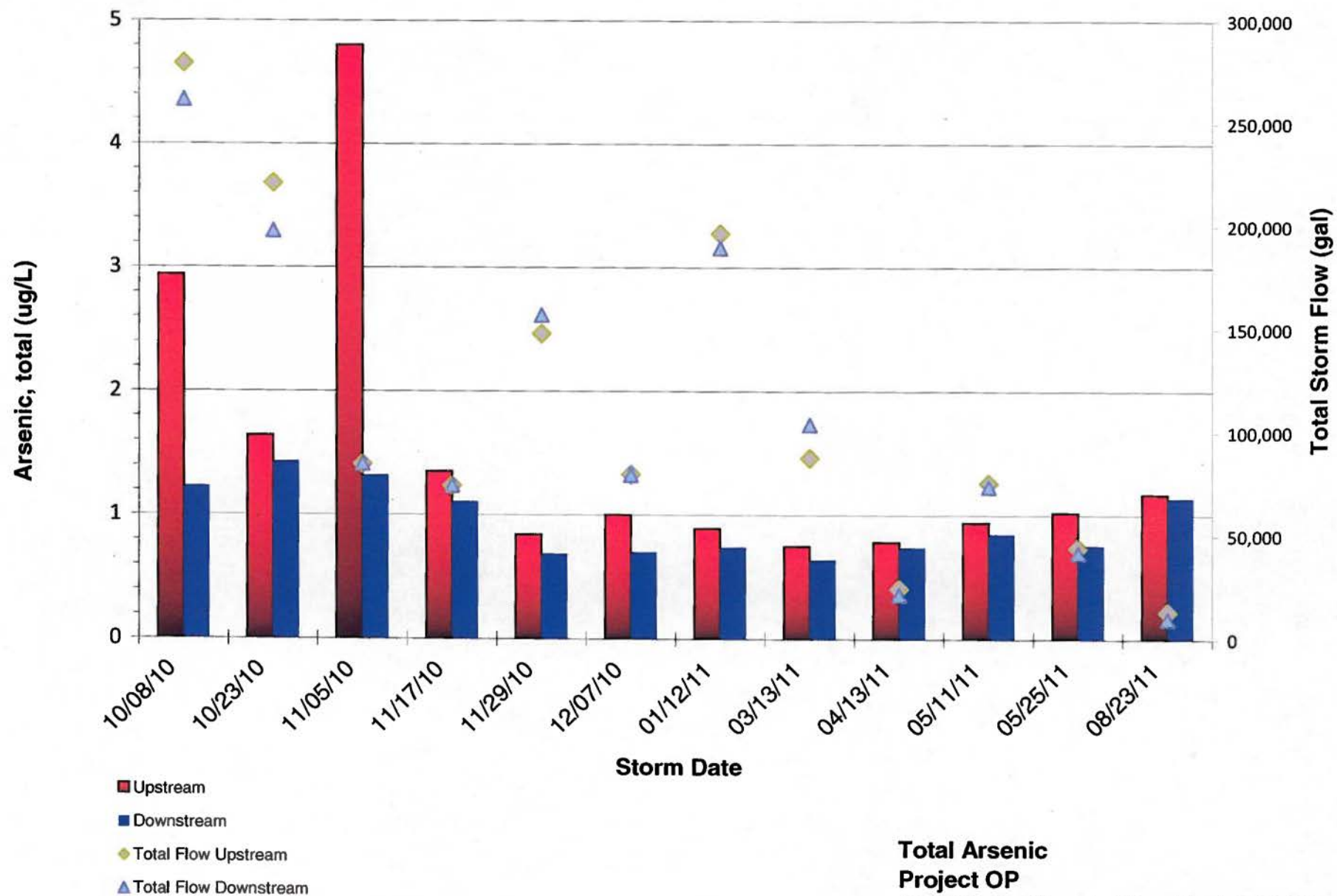


**Orthophosphate Phosphorus  
Project OP  
2011 Water Year In-Line Ditch BMP Study**

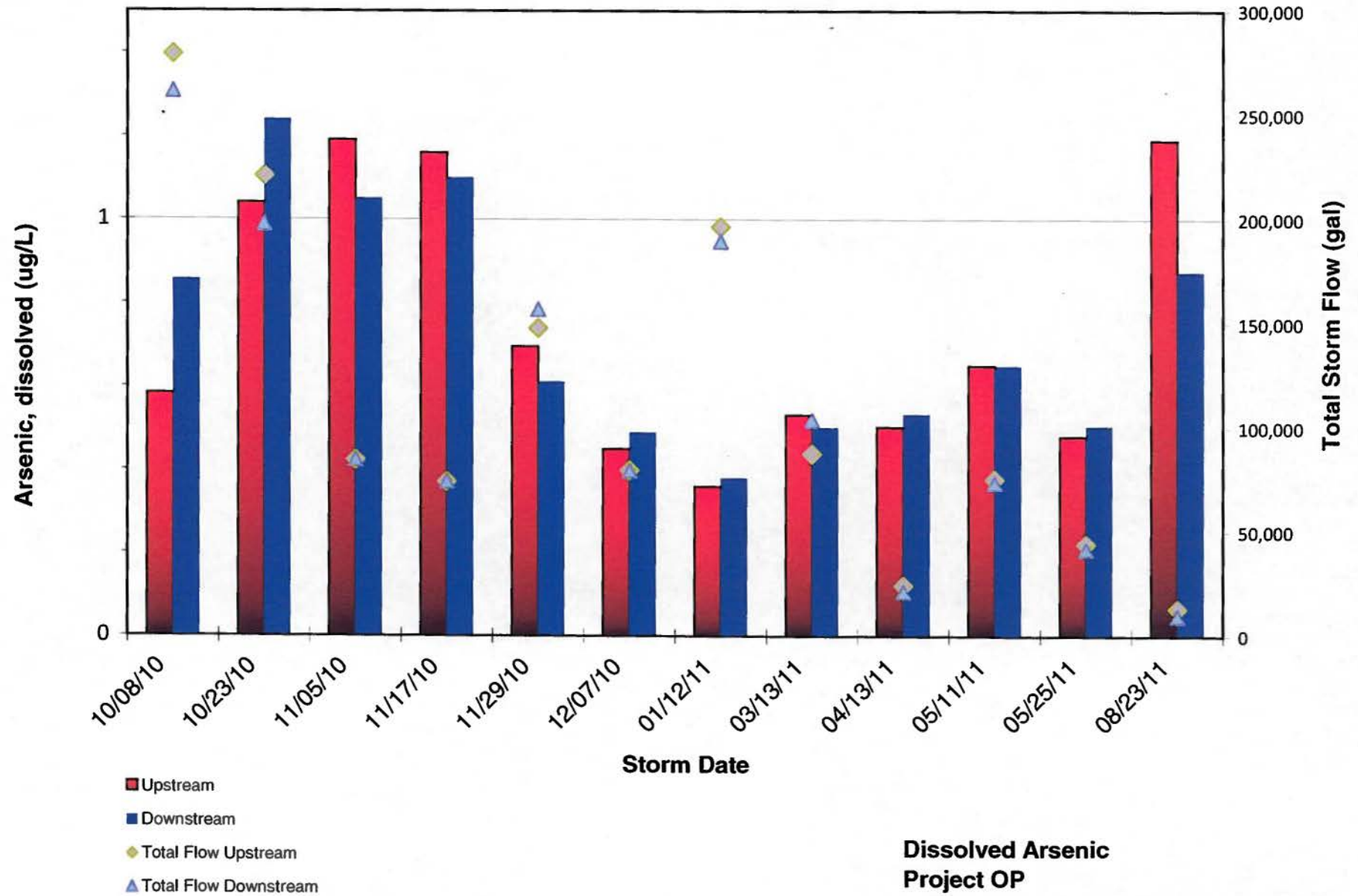


**Total Phosphorus  
Project OP  
2011 Water Year In-Line Ditch BMP Study**

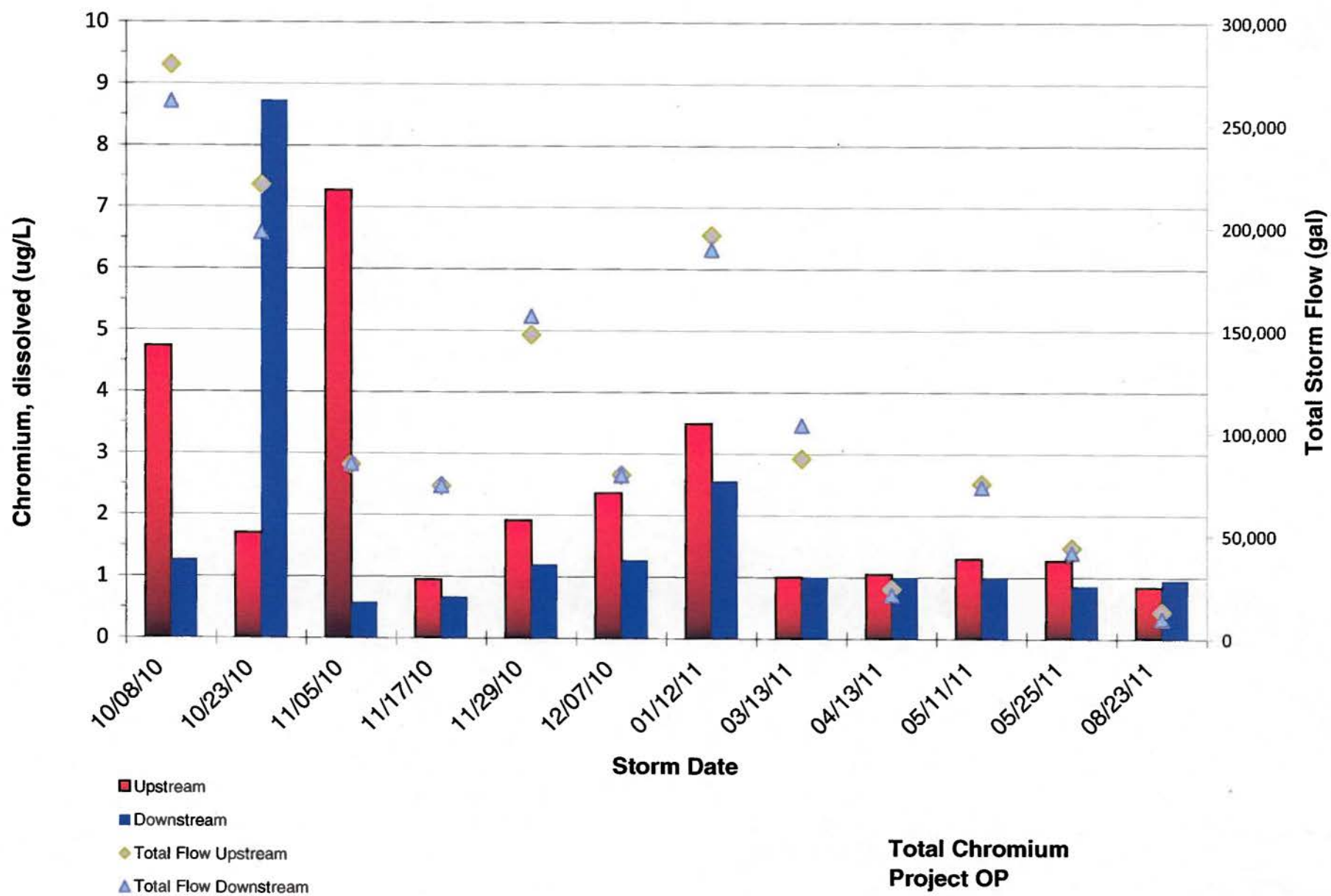




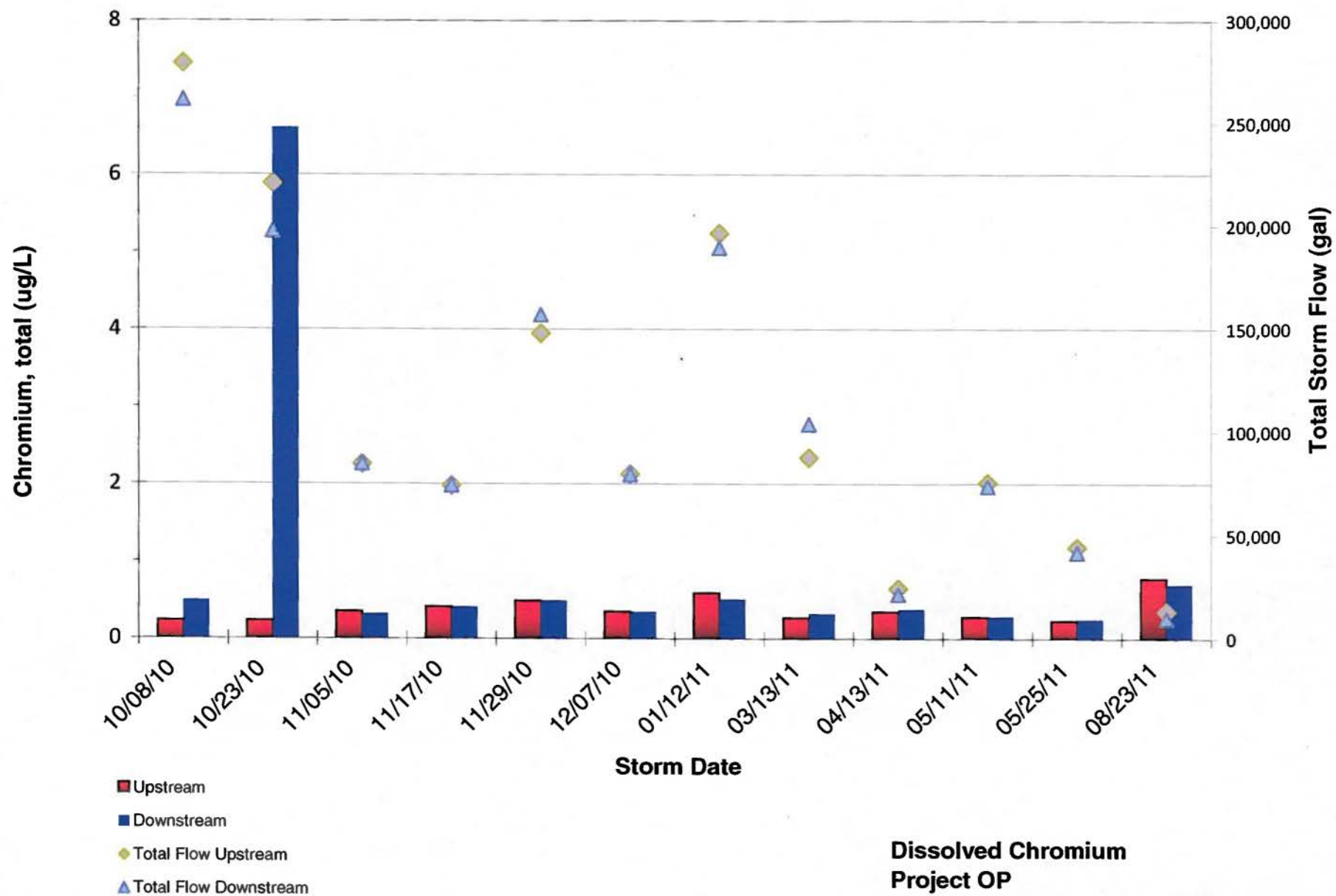
**Total Arsenic  
Project OP  
2011 Water Year In-Line Ditch BMP Study**



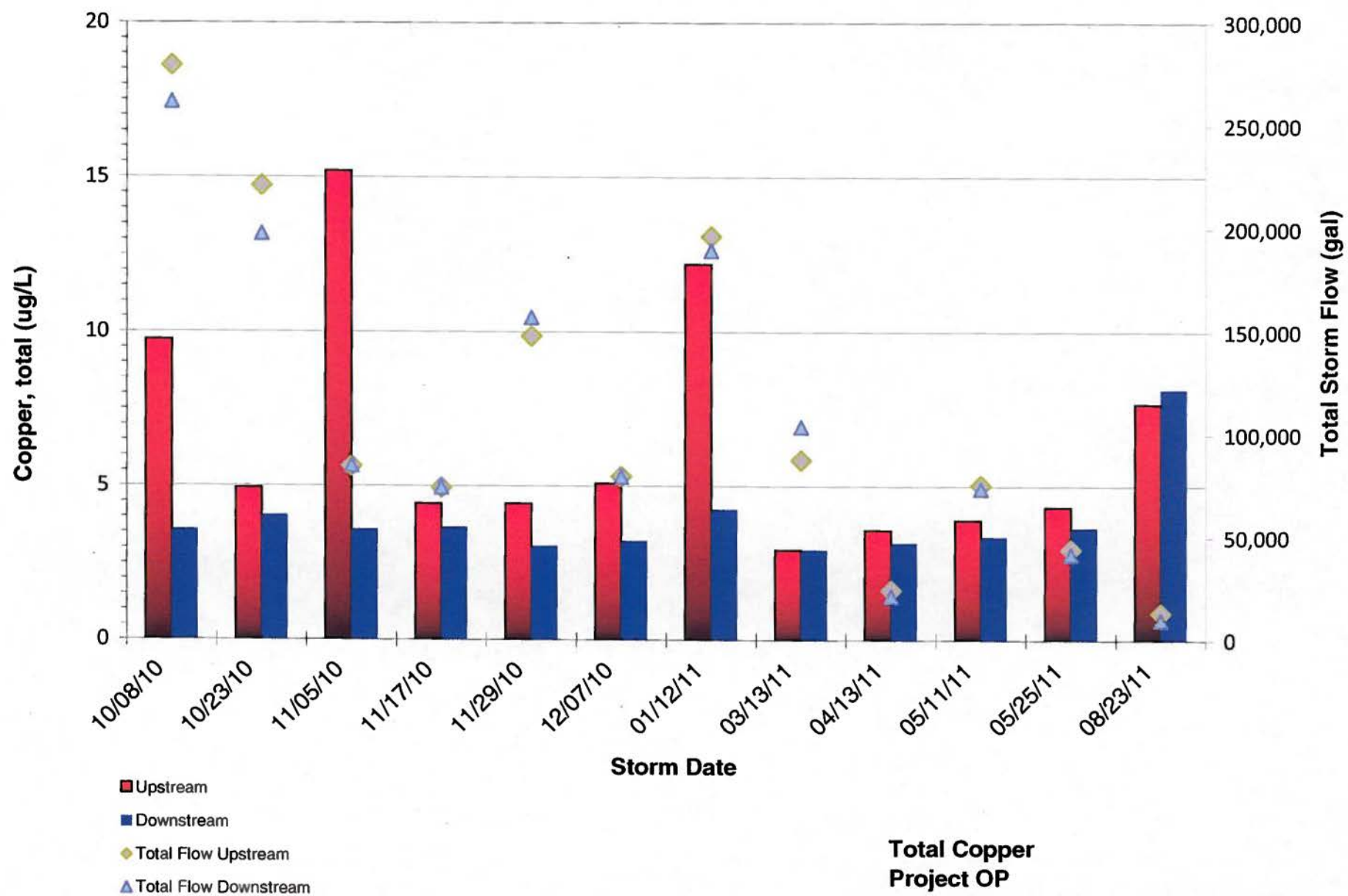
**Dissolved Arsenic  
Project OP  
2011 Water Year In-Line Ditch BMP Study**



**Total Chromium  
Project OP  
2011 Water Year In-Line Ditch BMP Study**

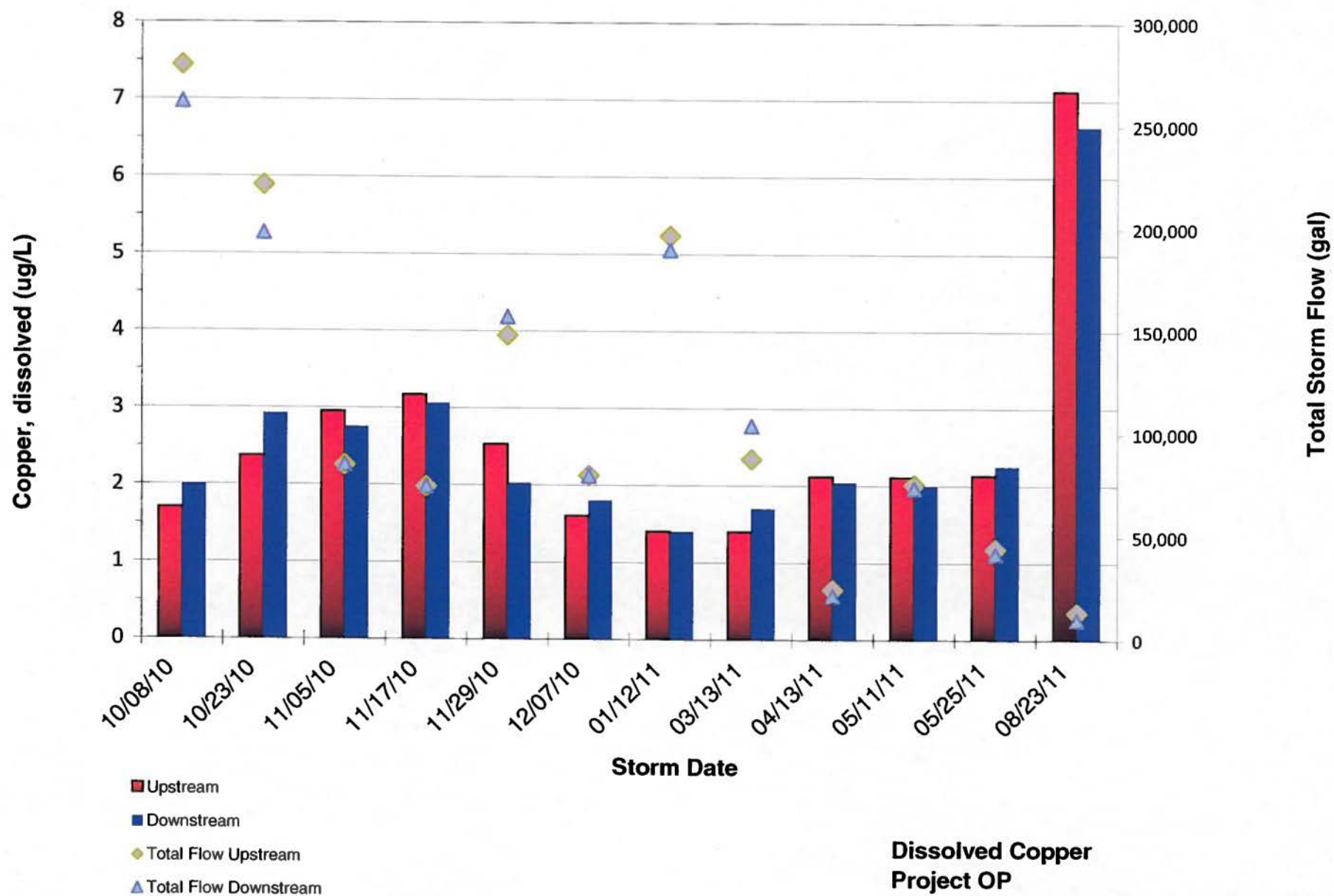


**Dissolved Chromium  
Project OP  
2011 Water Year In-Line Ditch BMP Study**

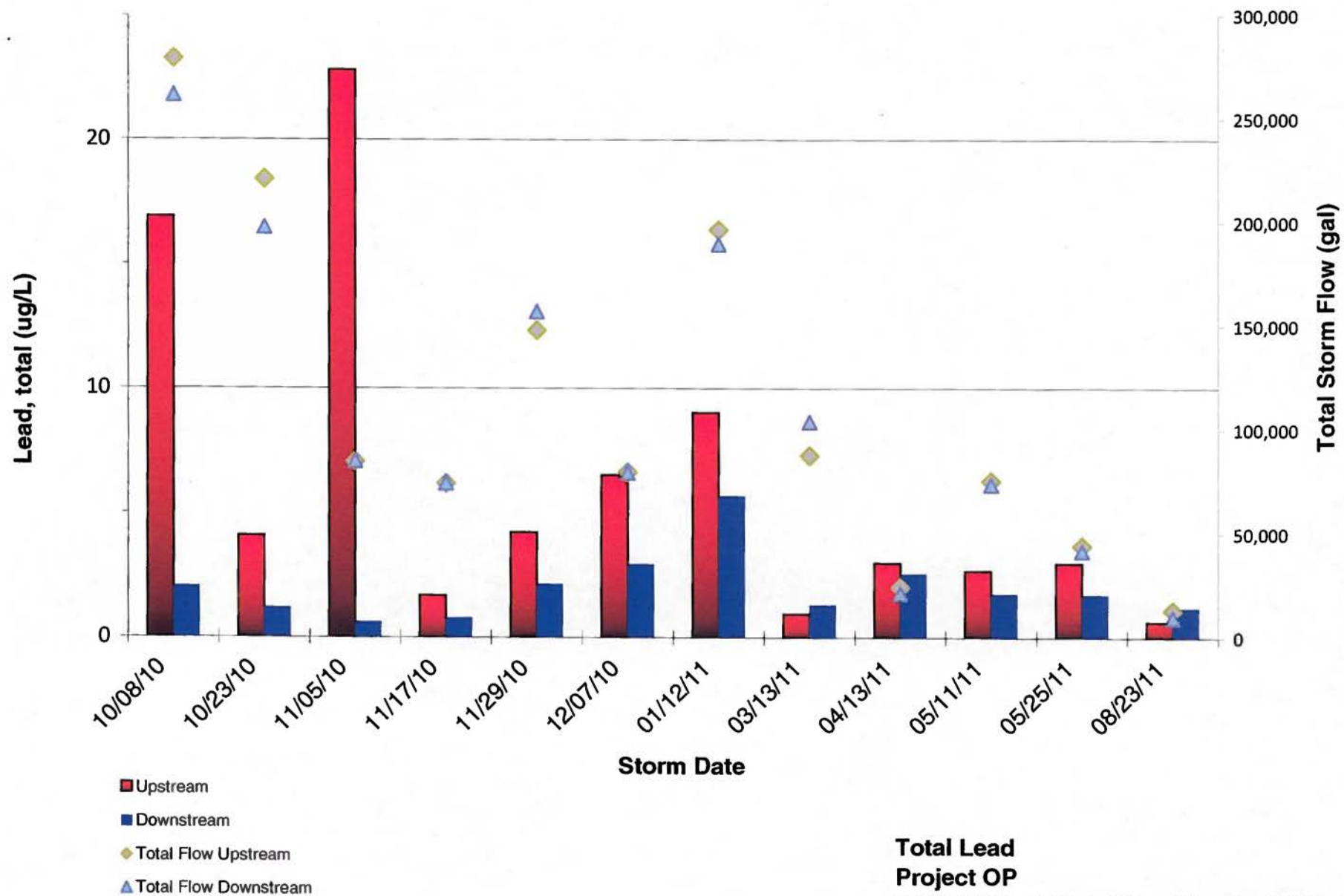


**Total Copper  
Project OP  
2011 Water Year In-Line Ditch BMP Study**

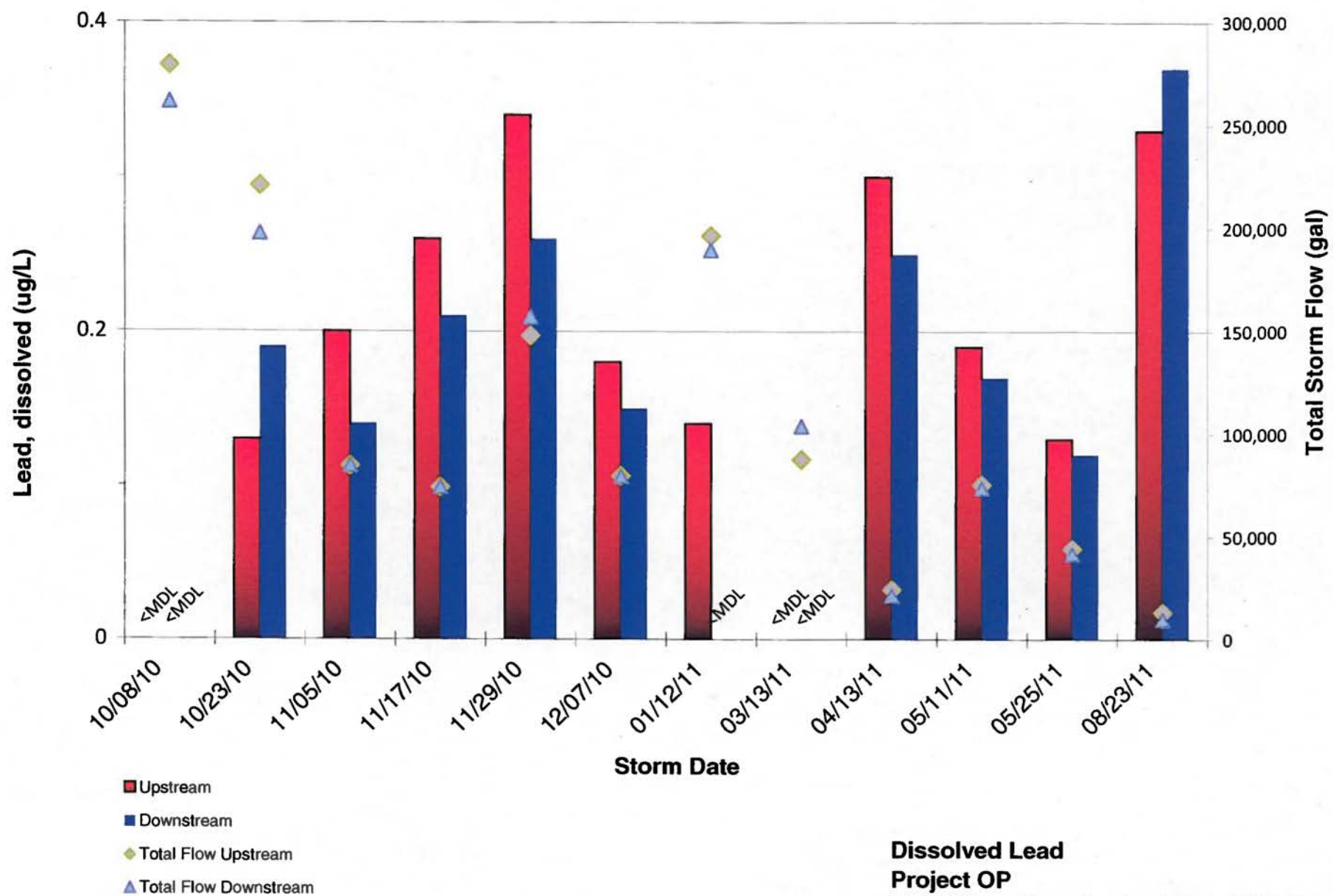




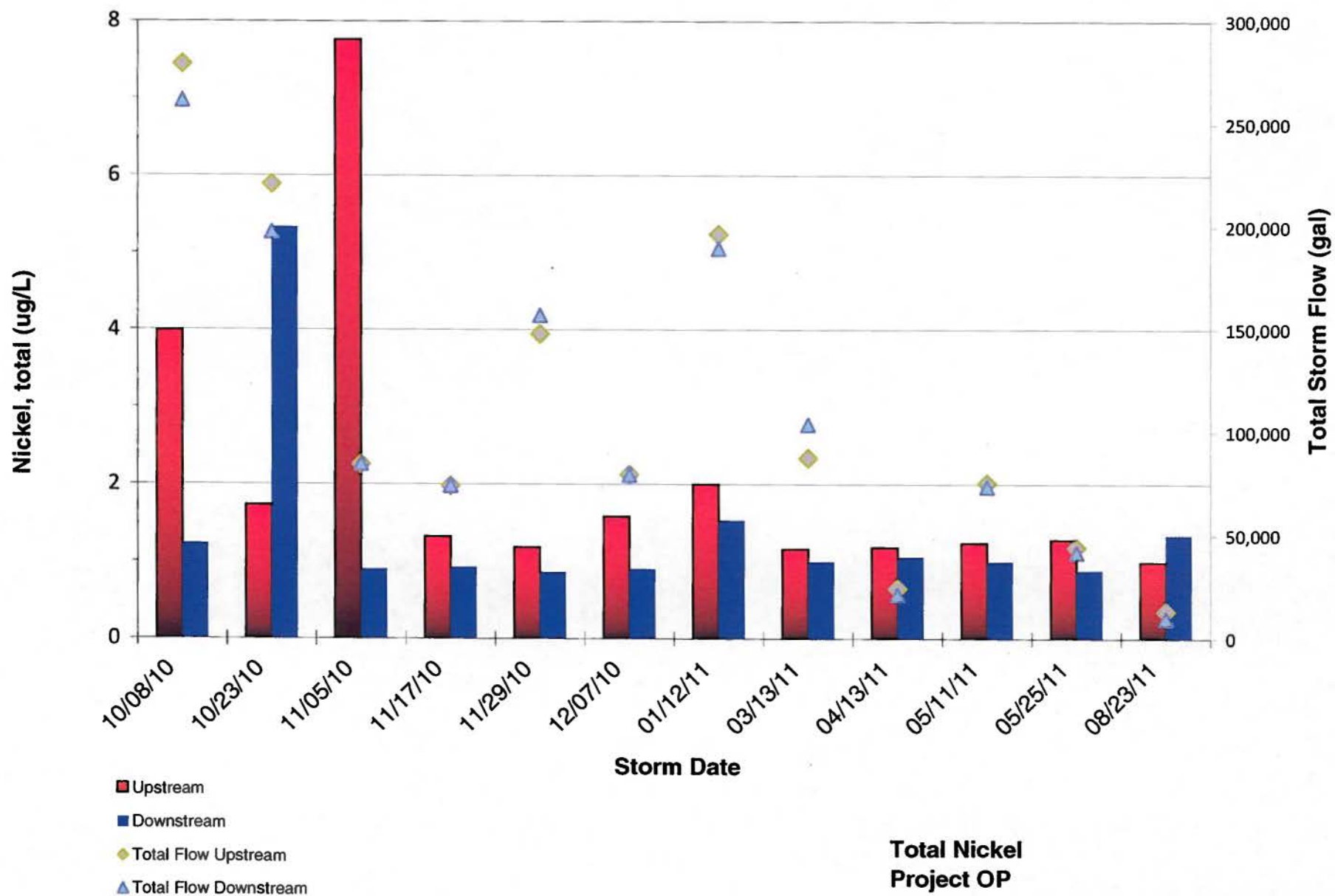
**Dissolved Copper  
Project OP  
2011 Water Year In-Line Ditch BMP Study**



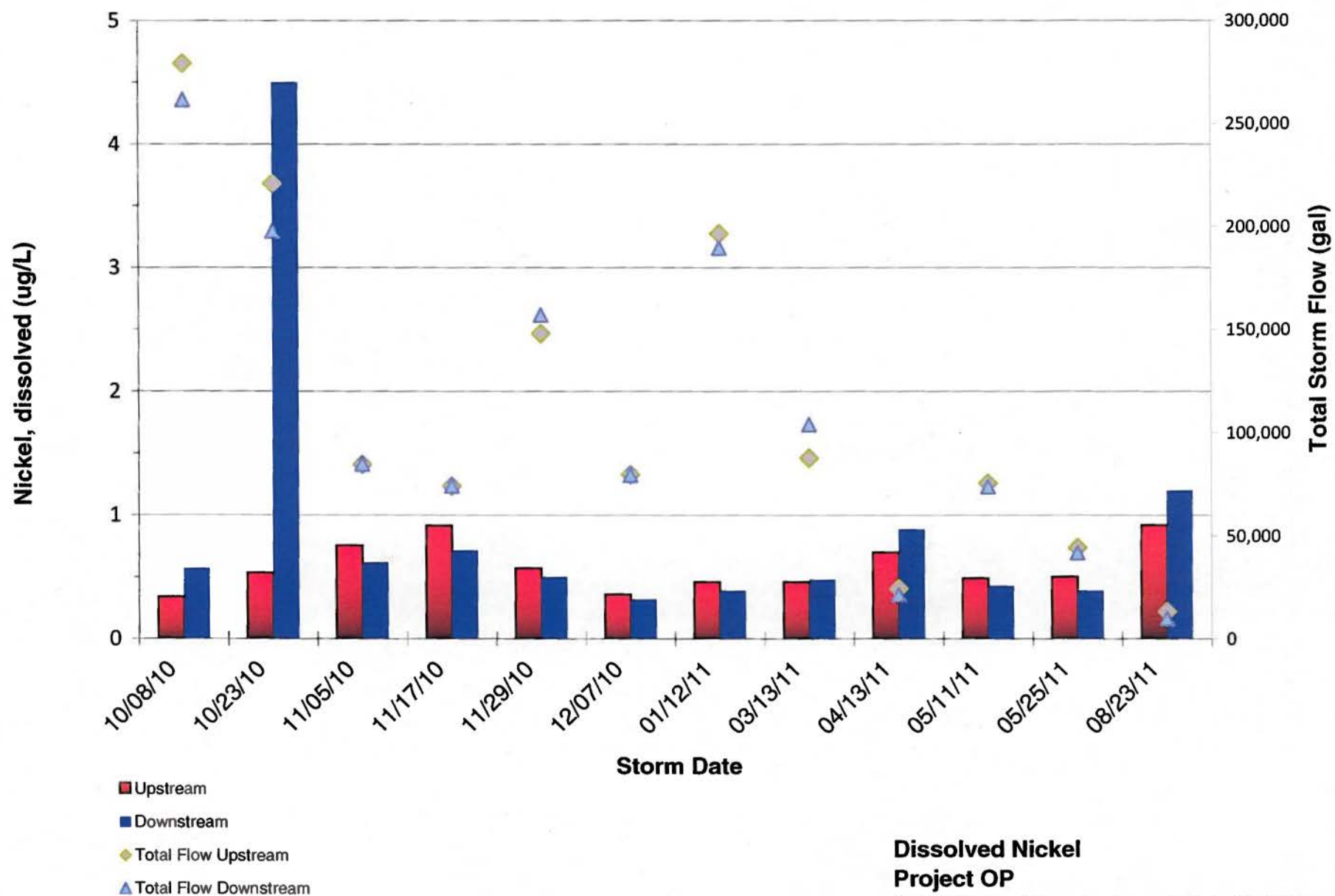
**Total Lead  
Project OP  
2011 Water Year In-Line Ditch BMP Study**



**Dissolved Lead  
Project OP  
2011 Water Year In-Line Ditch BMP Study**

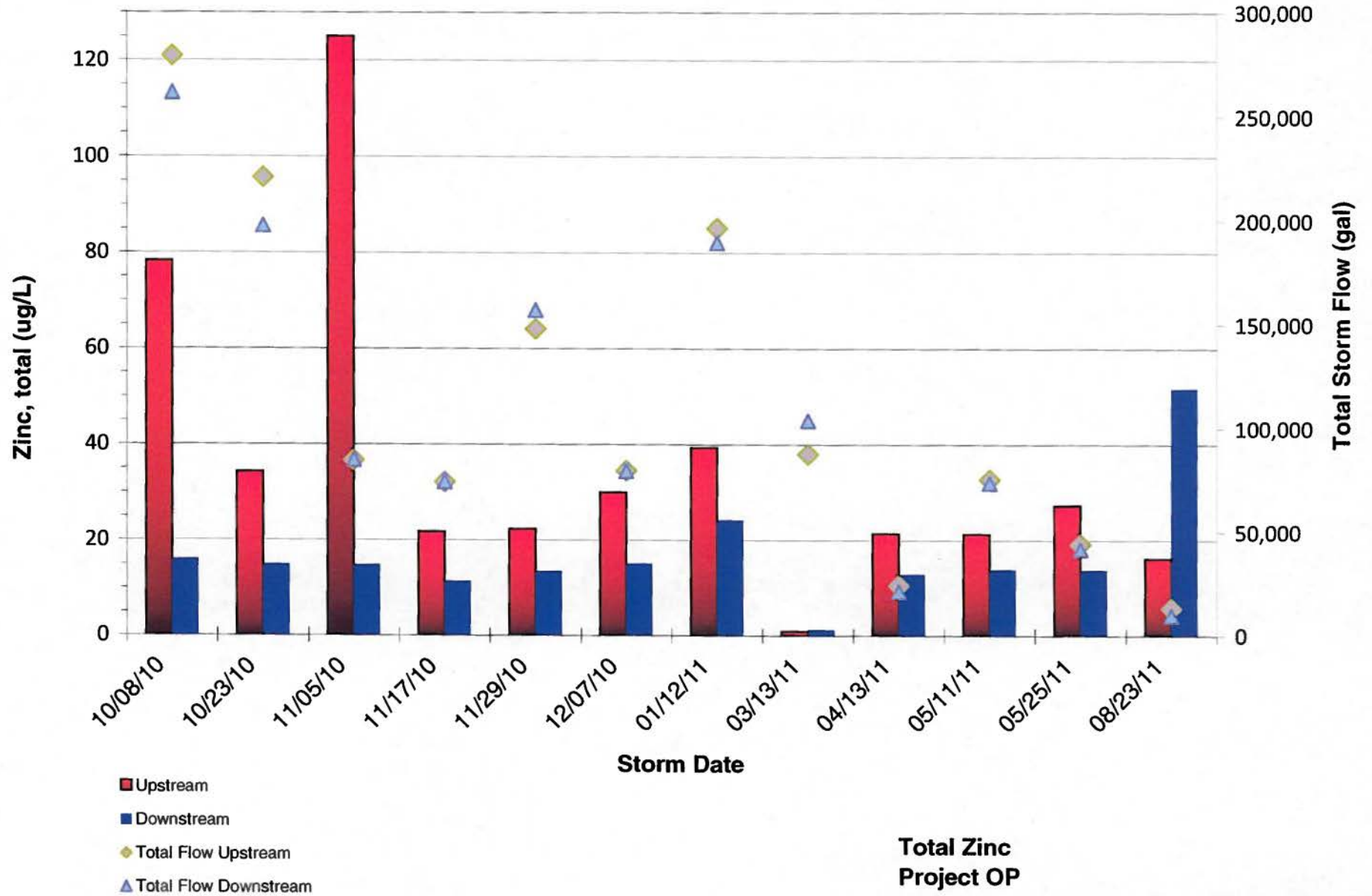


**Total Nickel  
Project OP  
2011 Water Year In-Line Ditch BMP Study**

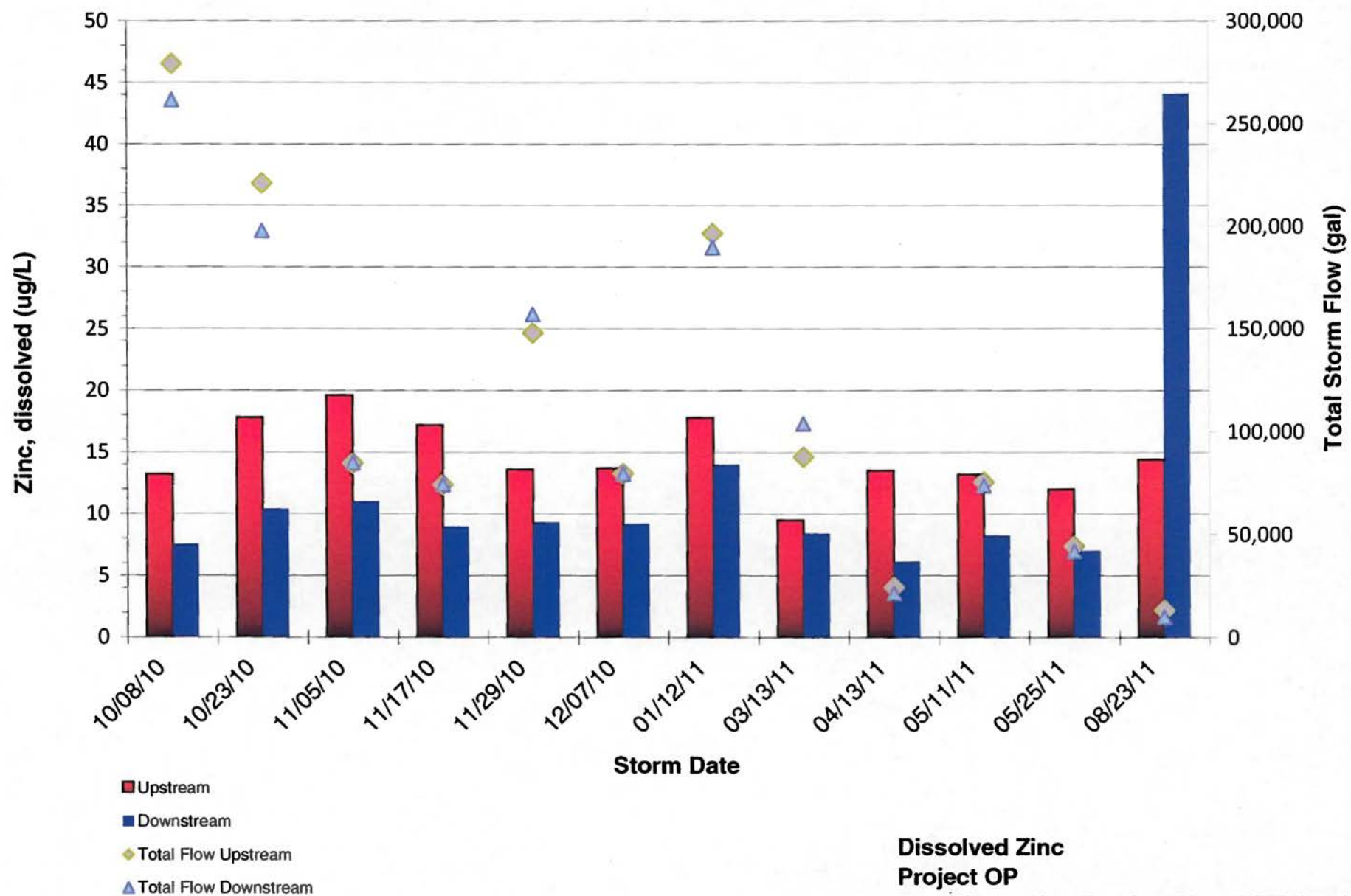


**Dissolved Nickel  
Project OP  
2011 Water Year In-Line Ditch BMP Study**

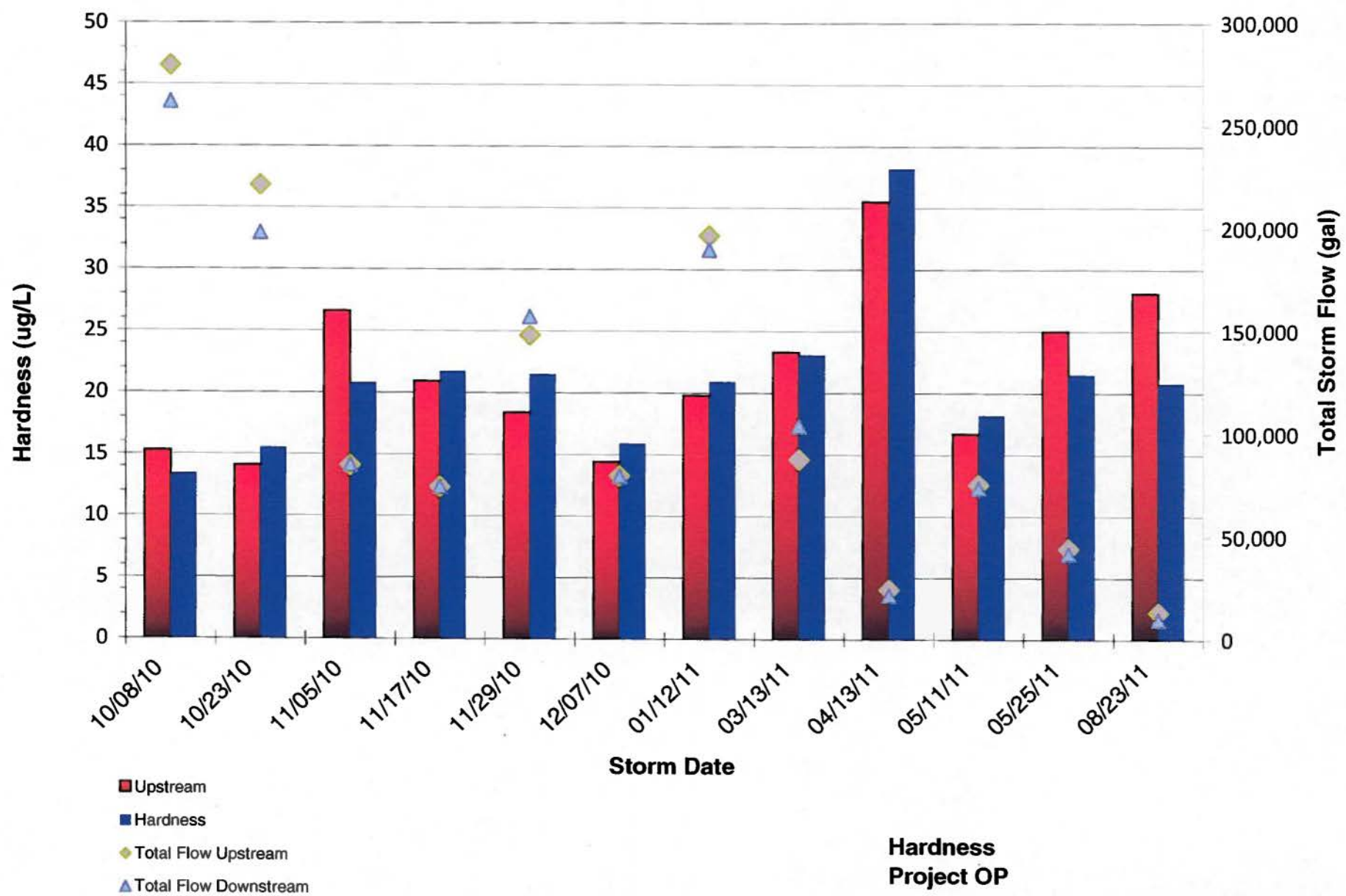




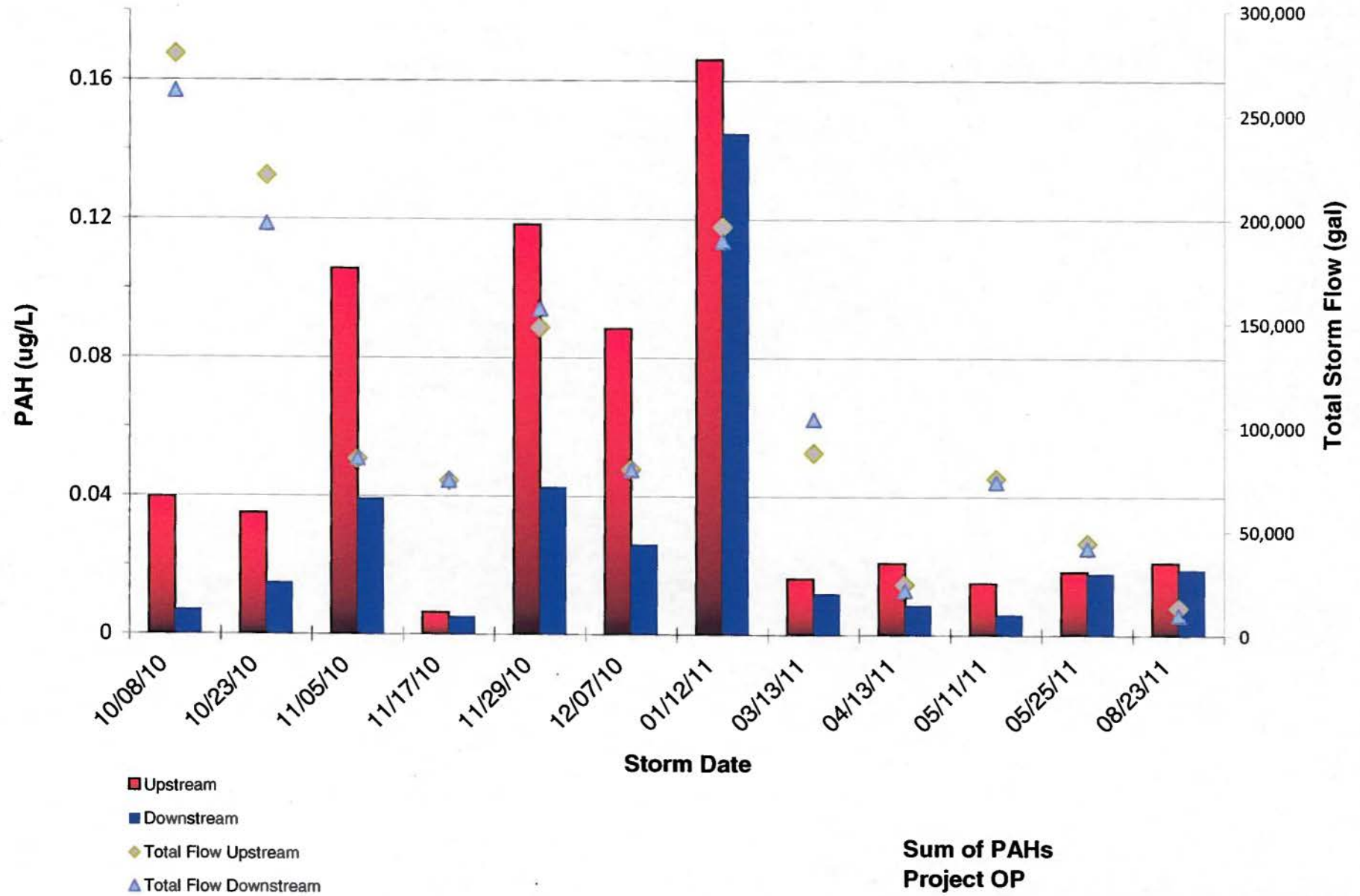
**Total Zinc  
Project OP  
2011 Water Year In-Line Ditch BMP Study**



**Dissolved Zinc  
Project OP  
2011 Water Year In-Line Ditch BMP Study**



**Hardness  
Project OP  
2011 Water Year In-Line Ditch BMP Study**



**Sum of PAHs  
Project OP  
2011 Water Year In-Line Ditch BMP Study**

# **Appendix D.**

## **BMP Plan Drawings**



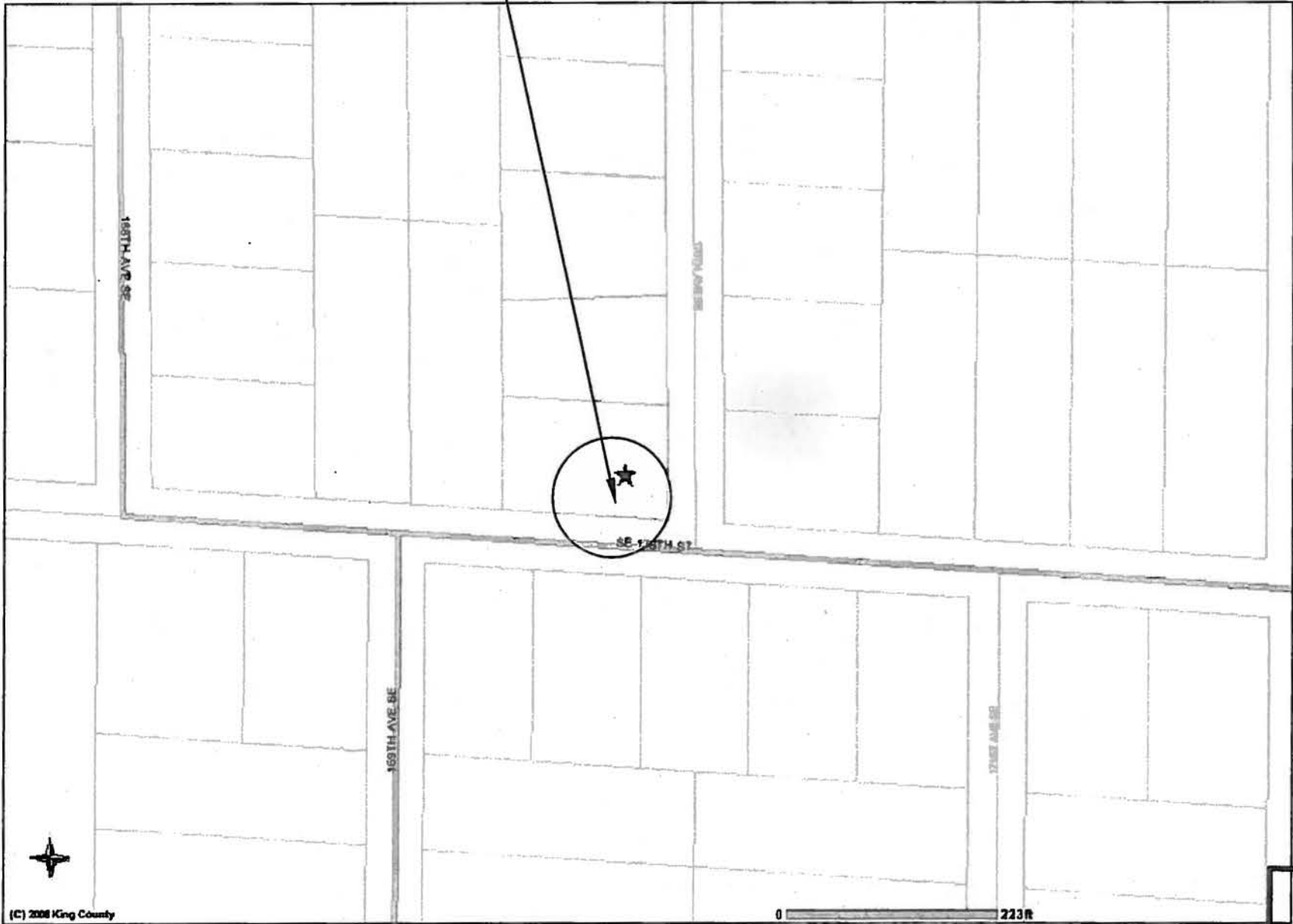
MANAGING ENGINEER:  
JON CASSIDY 206-296-8148  
PROJECT MANAGER:  
JOHN S. LYOU 206-205-7103  
PROJECT ENGINEER:  
DIEU QUACH 206-296-8235

S13 - T23N - R5E



- 1. COVER SHEET
- 2-3. EXISTING PROPOSED PLAN
- 4-5 EXISTING & PROPOSED PROFILE & DETAILS
- 6-7 EROSION CONTROL PLAN, NOTES & DETAILS

**SPECIAL NOTE:**  
\* THIS PROJECT WILL BE  
CONSTRUCTED BY  
KING COUNTY ROADS  
MAINTENANCE CREW



**VICINITY MAP**  
N.T.S.  
Thomas Guide: 657-C2

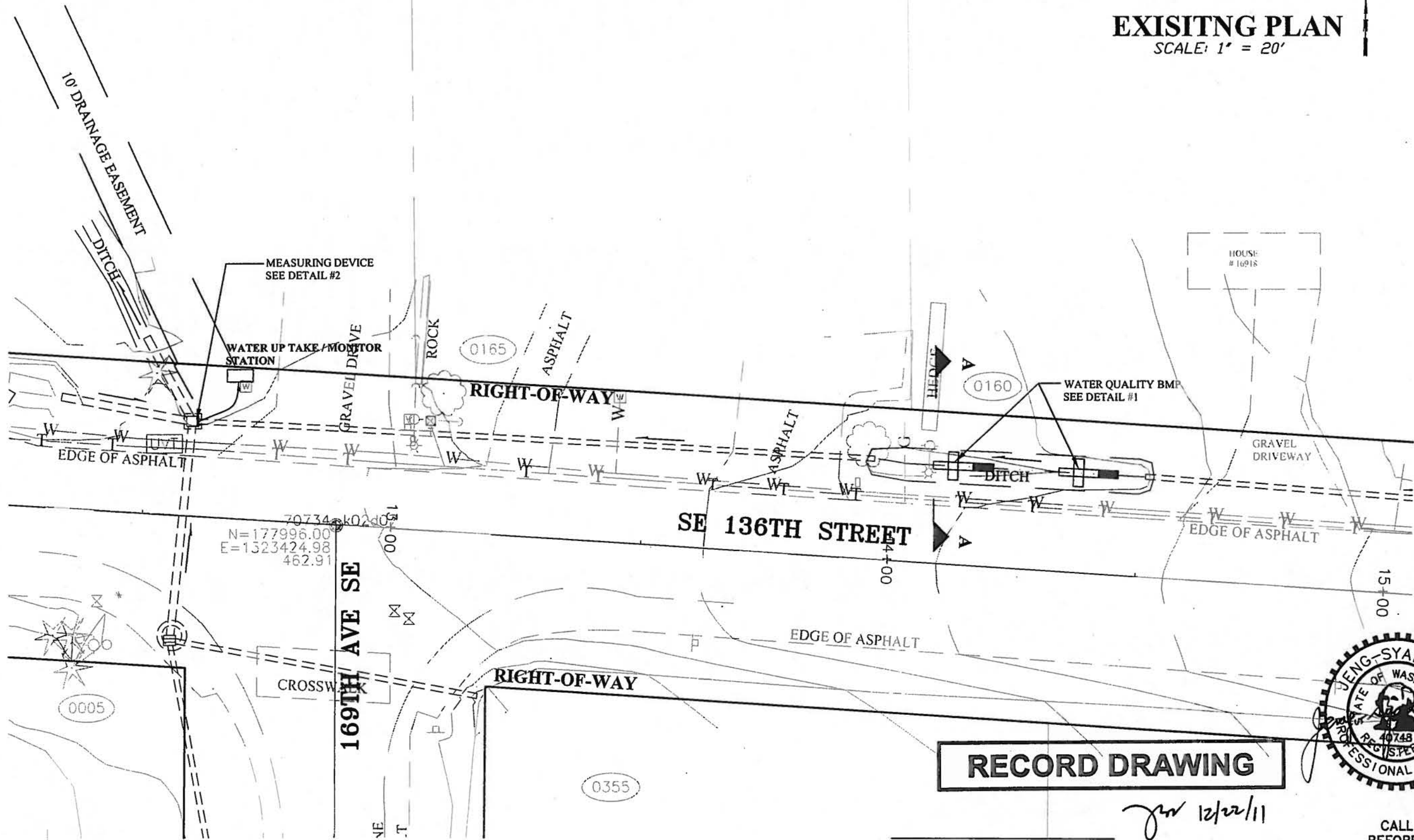
**RECORD DRAWING**



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EXISTING PLAN  
SCALE: 1" = 20'



RECORD DRAWING

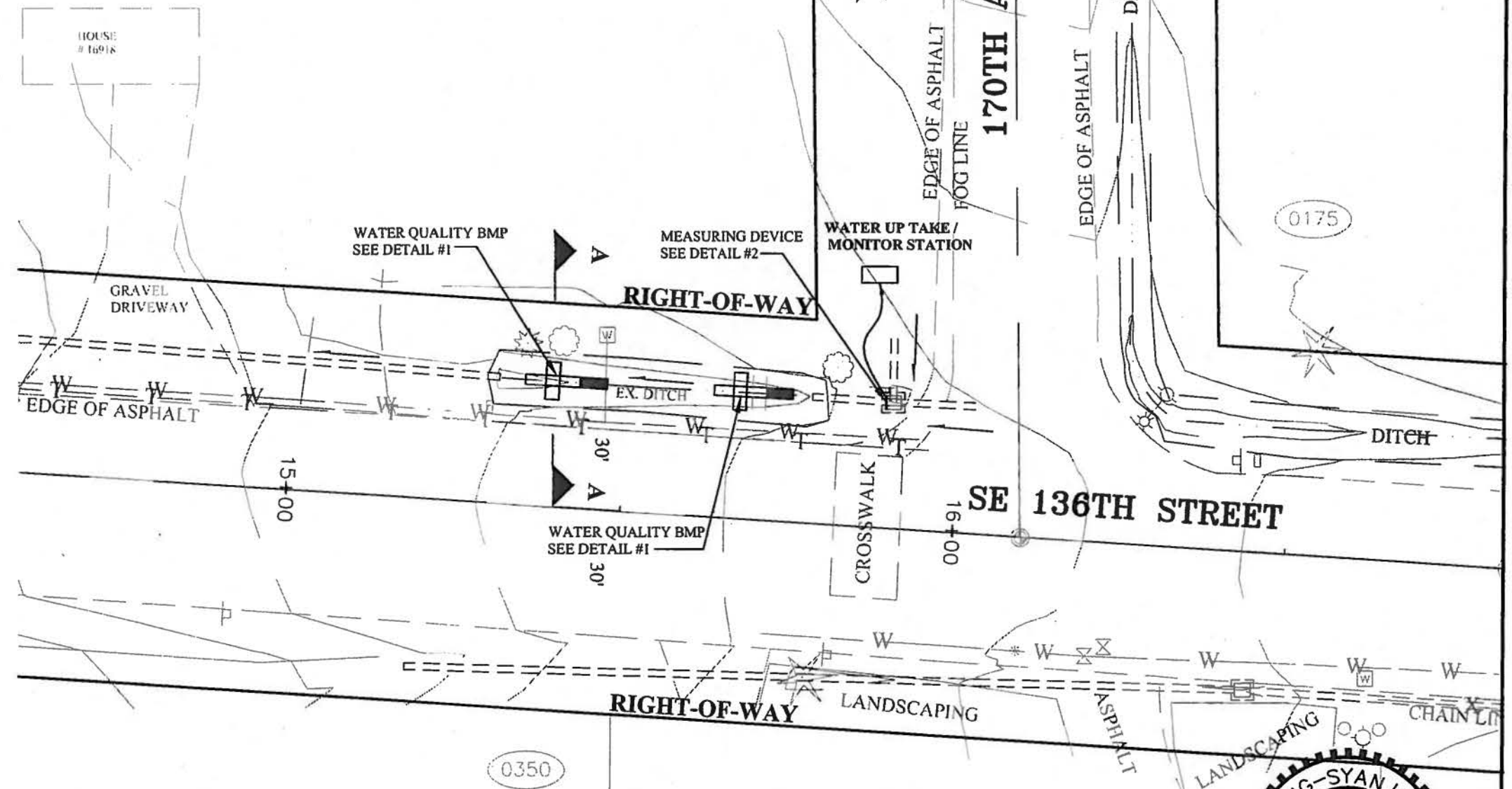


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SURVEYED: WONIG 10/27/08						FED. AID No.	TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION	 King County	SHEET 2 OF 7 SHEETS
BASE MAP PLOT: FG 11/17/08						PROJECT No. M20534	6-0569	HAROLD TANIGUCHI, DIRECTOR		
DESIGN PLOT: DD/JM 04/07/09						SURVEY No. 08042		SE 136 ST @ HOUSE # 16918		
CHECKED: JSL 5/11/09						MAINTENANCE DIVISION No. -		DRAINAGE DITCH WATER QUALITY BMP STUDY		
FIELD BOOK:								EXISTING & PROPOSED PLAN FROM STA. 12+40 TO STA. 15+00		
REVISION						BY	DATE	REVIEWED	DATE	

# EXISITNG PLAN


SCALE: 1" = 20'



**RECORD DRAWING**



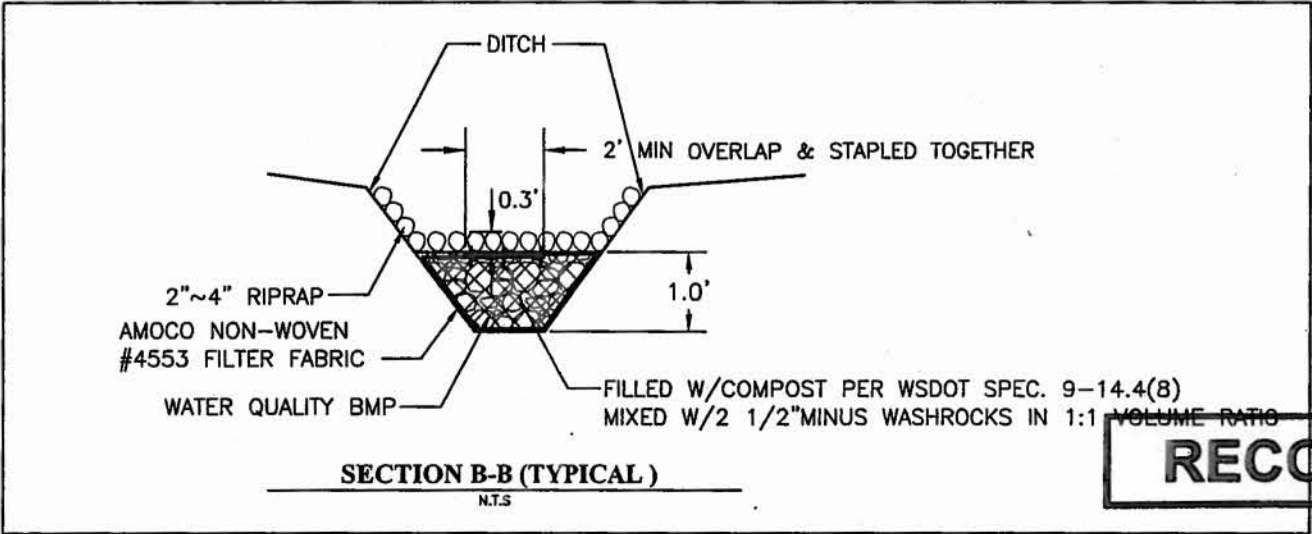
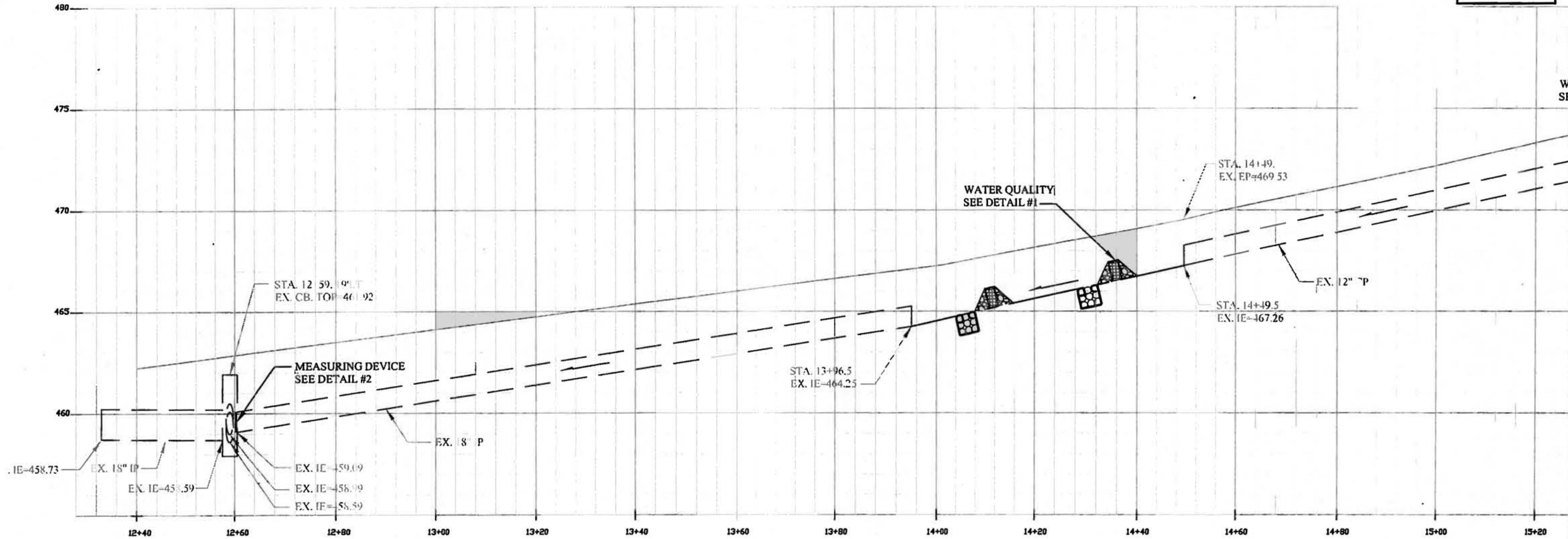
CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555

SURVEYED: <u>WONTO</u> 10/27/08						FED. AID No. _____	TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR	 <b>King County</b>	SHEET 3 OF 7 SHEETS
BASE MAP PLOT: <u>FG</u> 11/17/08						PROJECT No. <u>M20534</u>	<b>6-0569</b>	<b>SE 136 ST @ HOUSE # 16918</b> DRAINAGE DITCH WATER QUALITY BMP STUDY EXISTING & PROPOSED PLAN FROM STA. 15+00 TO STA. 16+00		
DESIGN PLOT: <u>DQ/JM</u> 04/07/09						SURVEY No. <u>08042</u>				
CHECKED: <u>JSL</u> 5/11/09						MAINTENANCE DIVISION No. _____				
FIELD BOOK: _____										
REVISION		BY	DATE	REVIEWED	DATE					




PROFILE

SCALE:  
HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'

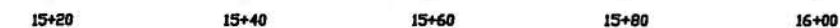


**RECORD DRAWING**

CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555

SURVEYED: WOND 10/27/08						FED. AID No. _____	TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR	 King County	SHEET 4 OF 7 SHEETS
BASE MAP PLOT: FG 11/17/08						PROJECT No. M20534	6-0569	SE 136 ST @ HOUSE # 16918 DRAINAGE DITCH WATER QUALITY BMP STUDY EXISTING & PROPOSED PROFILE FROM STA. 12+40 TO STA. 15+00		
DESIGN PLOT: DQ/JM 04/07/09						SURVEY No. 08042				
CHECKED: JWSL 5/11/09						MAINTENANCE DIVISION No. _____				
FIELD BOOK: _____										
REVISION	BY	DATE	REVIEWED	DATE						

**SCALE:**  
HORIZONTAL 1" = 2'  
VERTICAL 1" = 5'



NOT TO SCALE

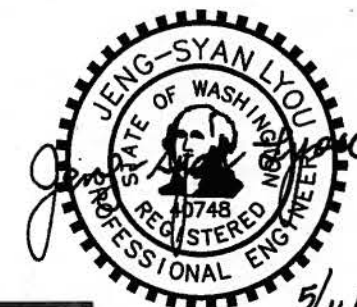
2"~4" & 4"-8"  
50/50/MIX RIF

EX. DITCH-

## WATER QUALITY BMP

NOT TO SCALE

## RECORD DRAWING



**CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555**



**King County**

SHEET  
5  
OF  
7  
SHEETS

[illegible]

MAINTENANCE DIVISION No. \_\_\_\_-\_\_\_\_

**6-0569**

EXISTING & PROPOSED PROFILE FROM STA. 15+00 TO STA. 16+00

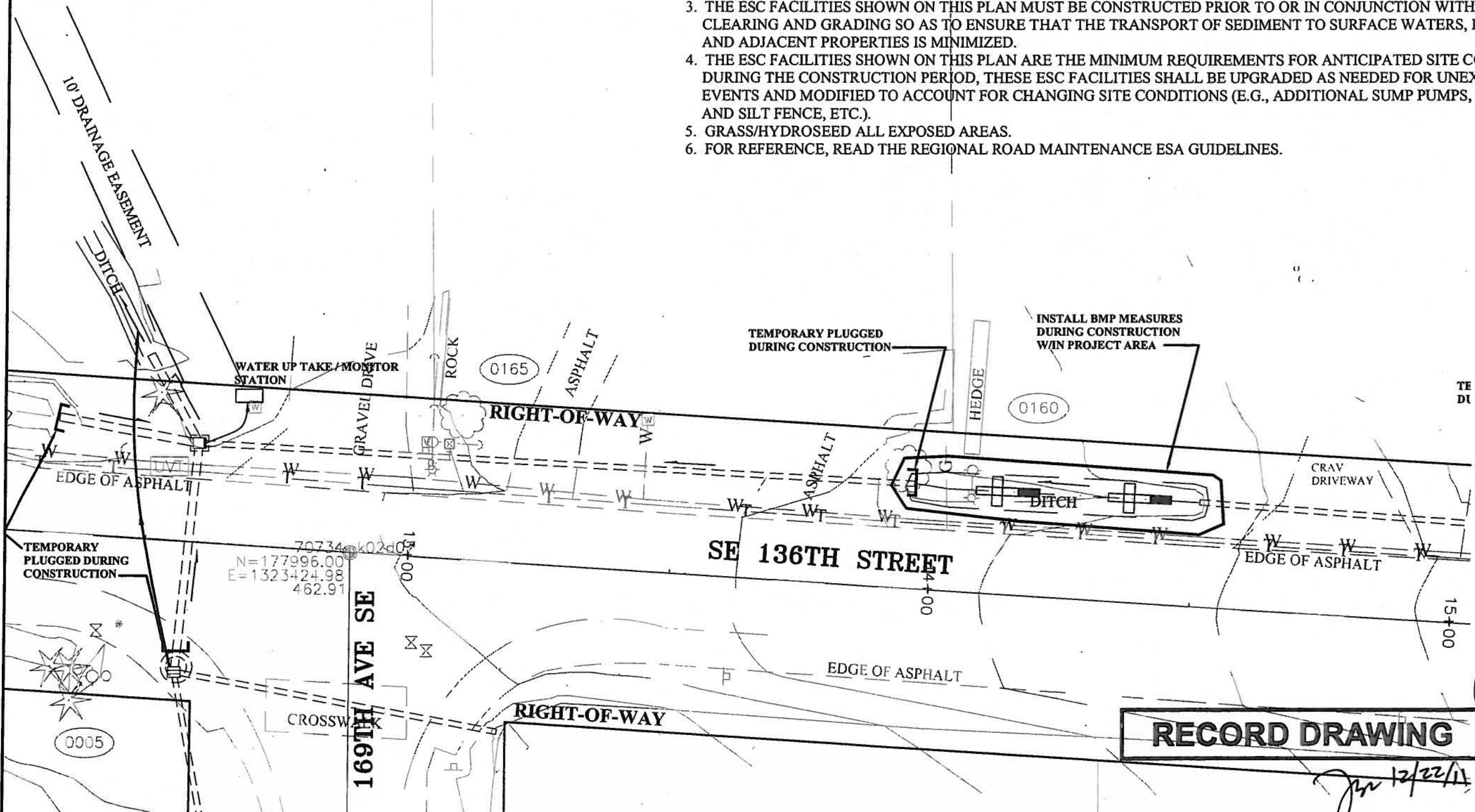



EROSION CONTROL PLAN,  
NOTES & DETAILS

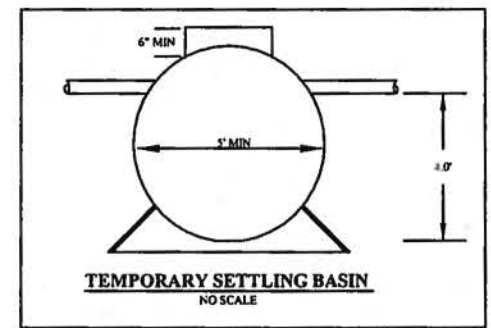
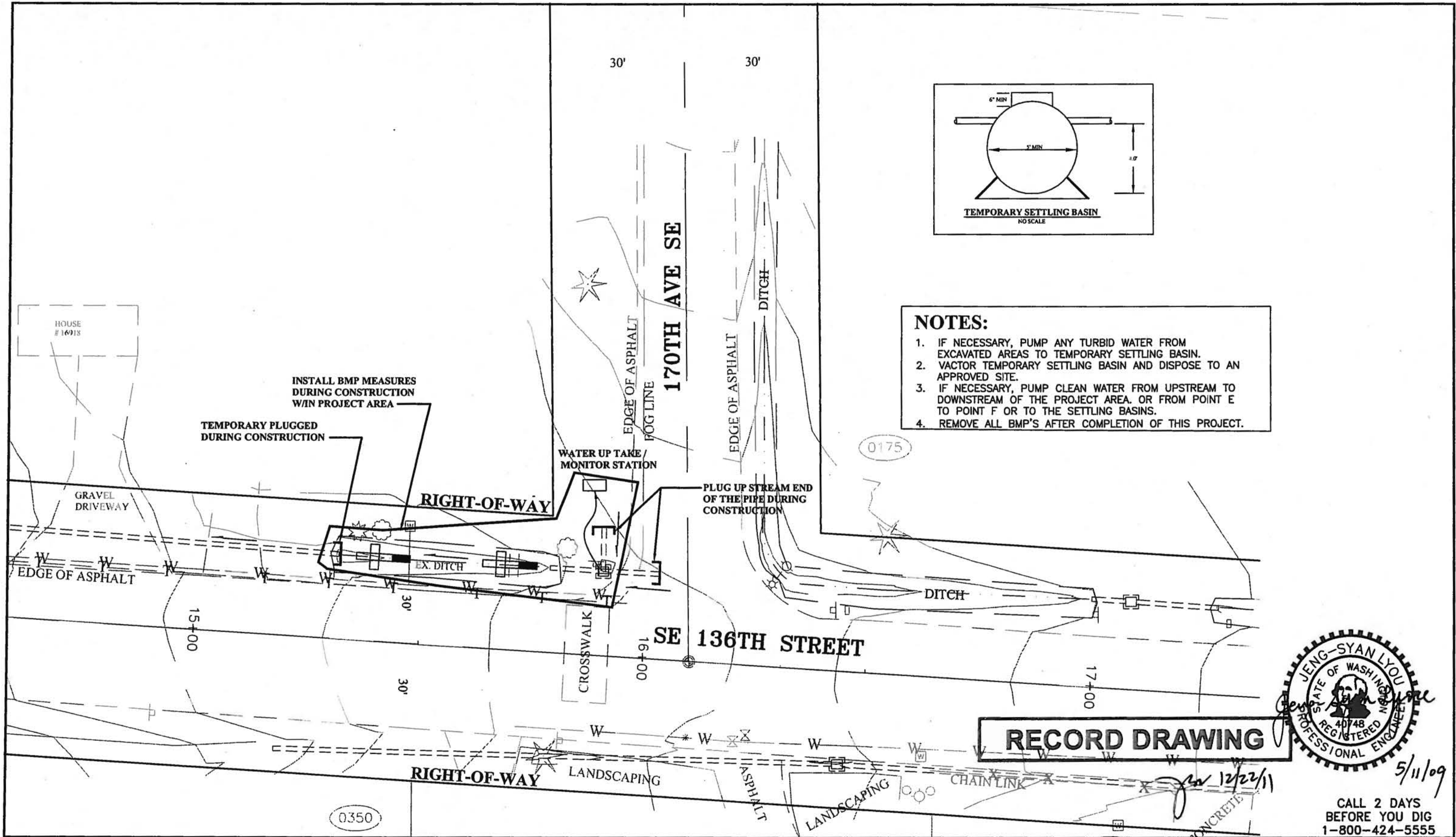
SCALE: 1" = 20'

STANDARD ESC PLAN NOTES:

1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED
3. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
4. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITION. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCE, ETC.).
5. GRASS/HYDROSEED ALL EXPOSED AREAS.
6. FOR REFERENCE, READ THE REGIONAL ROAD MAINTENANCE ESA GUIDELINES.




SURVEYED: WDN/D 10/27/08						FED. AID No. _____	TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR	 SHEET 6 OF 7 SHEETS
BASE MAP PLOT: FG 11/17/08						PROJECT No. M20534	6-0569	SE 136 ST @ HOUSE # 16918 DRAINAGE DITCH WATER QUALITY BMP STUDY EROSION CONTROL PLAN FROM STA. 12+40 TO STA. 15+00	
DESIGN PLOT: DQ/JM 04/07/09						SURVEY No. 08042			
CHECKED: JSL 5/11/09						MAINTENANCE DIVISION No. _____			
FIELD BOOK: _____									
REVISION						BY	DATE	REVIEWED	DATE



- NOTES:**
1. IF NECESSARY, PUMP ANY TURBID WATER FROM EXCAVATED AREAS TO TEMPORARY SETTLING BASIN.
  2. VACTOR TEMPORARY SETTLING BASIN AND DISPOSE TO AN APPROVED SITE.
  3. IF NECESSARY, PUMP CLEAN WATER FROM UPSTREAM TO DOWNSTREAM OF THE PROJECT AREA. OR FROM POINT E TO POINT F OR TO THE SETTLING BASINS.
  4. REMOVE ALL BMP'S AFTER COMPLETION OF THIS PROJECT.

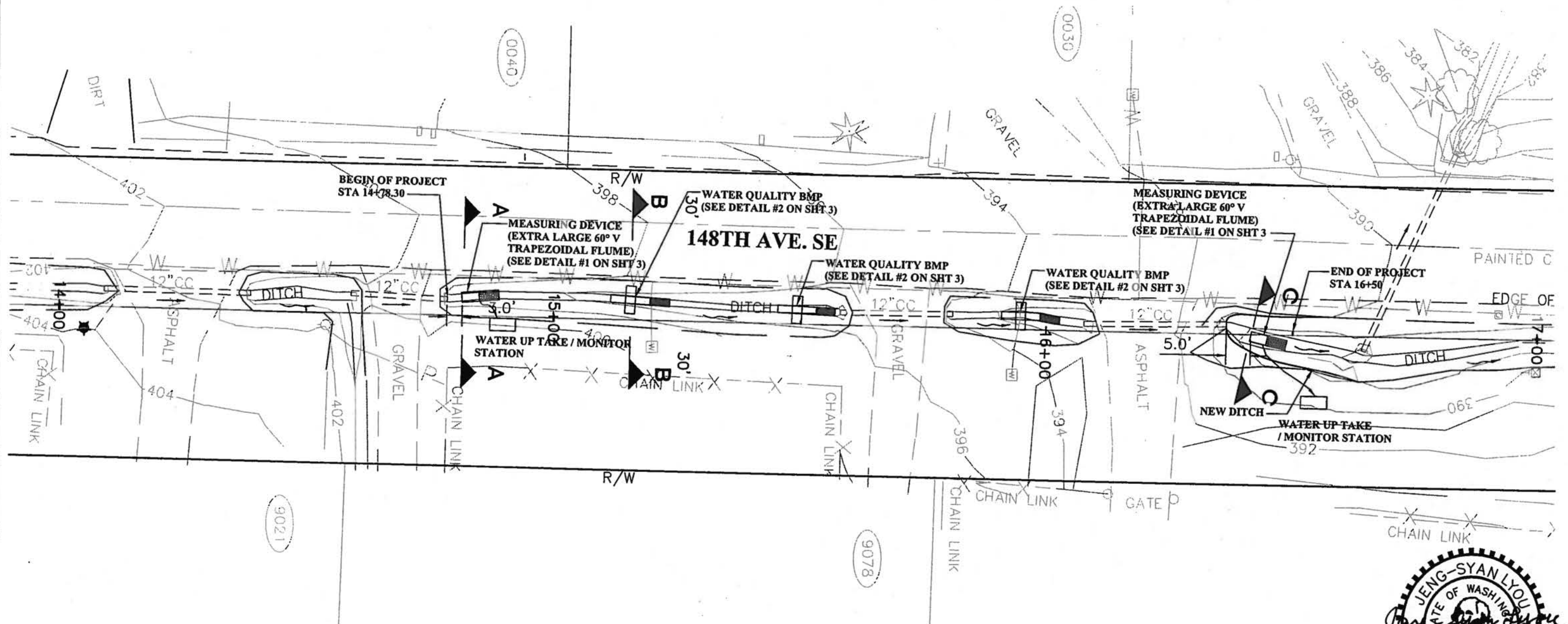
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SURVEYED: FENDERGAST 10/29/08 BASE MAP PLOT: FG 11/20/08 DESIGN PLOT: JM 04/07/09 CHECKED: JSL 5/11/09 FIELD BOOK:						FED. AID No. _____ PROJECT No. M20523 SURVEY No. 08040 MAINTENANCE DIVISION No. _____						TRACKING # <b>6-0570</b>		KING COUNTY DEPT. OF TRANSPORTATION <b>148TH AVE SE @ # 10218</b> DRAINAGE DITCH WATER QUALITY BMP STUDY COVER SHEET		 <b>King County</b>		SHEET 1 OF 6 SHEETS	
REVISION BY DATE REVIEWED DATE																			

# EXISTING & PROPOSED PLAN


SCALE: 1"=20'



5/11/09

**RECORD DRAWING**

CALL 2 DAYS  
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SURVEYED: PENDERGAST 10/29/08										FED. AID No.		TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION	 <b>King County</b>	SHEET 2 OF 6 SHEETS
BASE MAP PLOT: FG 11/20/08										PROJECT No. M20523		6-0570	148TH AVE SE @ # 10218 DRAINAGE DITCH WATER QUALITY BMP STUDY EXISTING & PROPOSED PLAN		
DESIGN PLOT: JM 04/07/09										SURVEY No. 08040					
CHECKED: JSL 5/11/09										MAINTENANCE DIVISION No.					
FIELD BOOK:															
REVISION BY DATE REVIEWED DATE															

**SCALE:**  
HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'

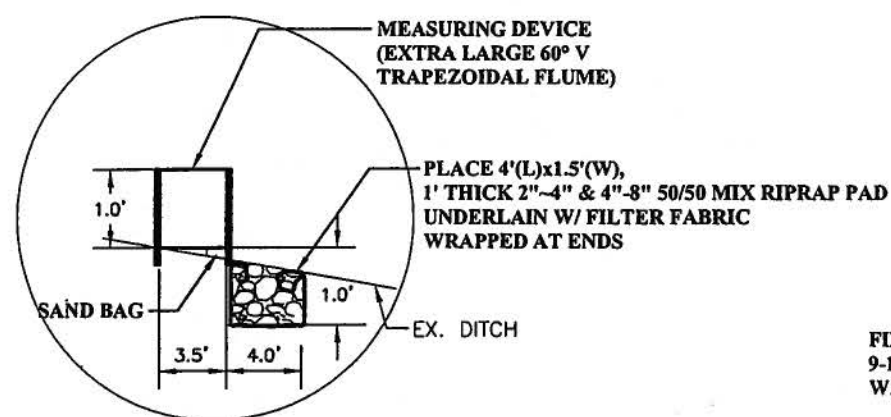


Diagram illustrating a ditch cross-section with a 3:1 slope. The ditch is defined by a 4.0' wide riprap pad. The slope is labeled 3:1. The ditch bottom is 1.0' wide. The ditch is lined with 2"~4" & 4"-8" 50/50 MIX. The ditch is also lined with ENCLOSE W/AMOCO NON-WOVEN GEOTEXTILE # 4553 OR EQ W/MIN 2' OVERLAP & STAPLED. The ditch is also lined with PLACE 4'(L)x1.5'(W), 1' THICK 2" ~ 4" & 4"-8" RIPRAP PAD UNDERLAIN W/ FILTER FABRIC WRAPPED AT ENDS. The ditch is also lined with 2"~4" & 4"-8" 50/50 MIX. The ditch is also lined with 1.0'.

Labels and dimensions in the diagram include:

- 2.0'
- 1.0'
- 3:1
- 2"~4" & 4"-8" 50/50 MIX
- ENCLOSE W/AMOCO NON-WOVEN GEOTEXTILE # 4553 OR EQ W/MIN 2' OVERLAP & STAPLED
- 2"~4" & 4"-8" 50/50 MIX
- PLACE 4'(L)x1.5'(W), 1' THICK 2" ~ 4" & 4"-8" RIPRAP PAD UNDERLAIN W/ FILTER FABRIC WRAPPED AT ENDS
- EX. DITCH
- 1.0'
- 4.0'
- 3:1
- WSDOT SPES. INUS ME RATIO

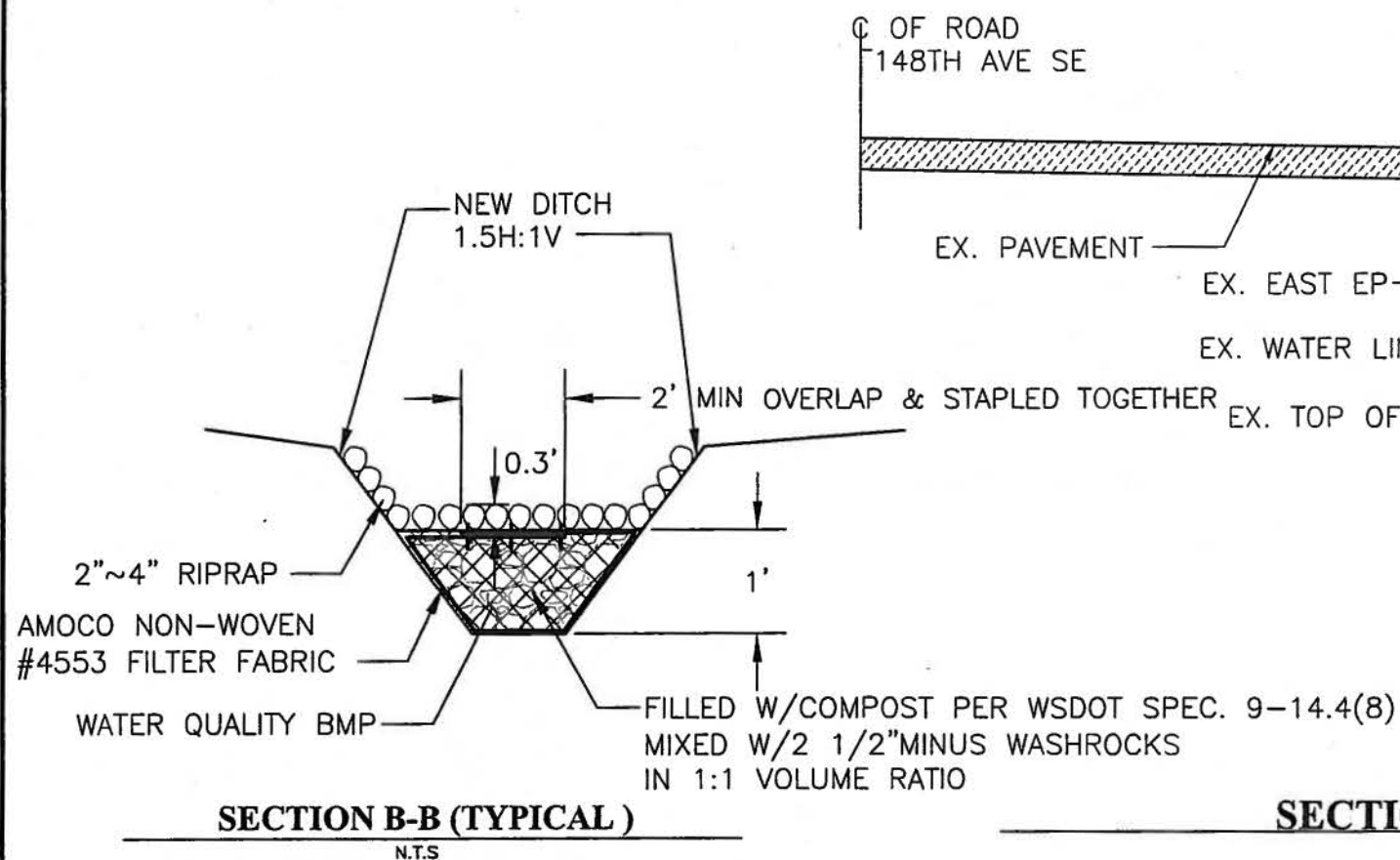
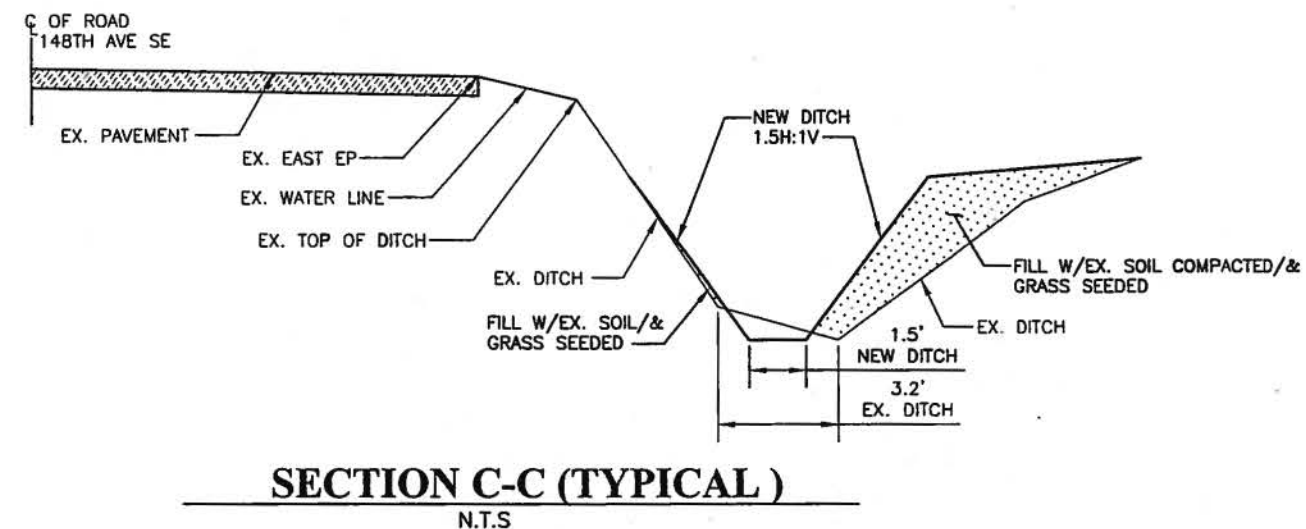
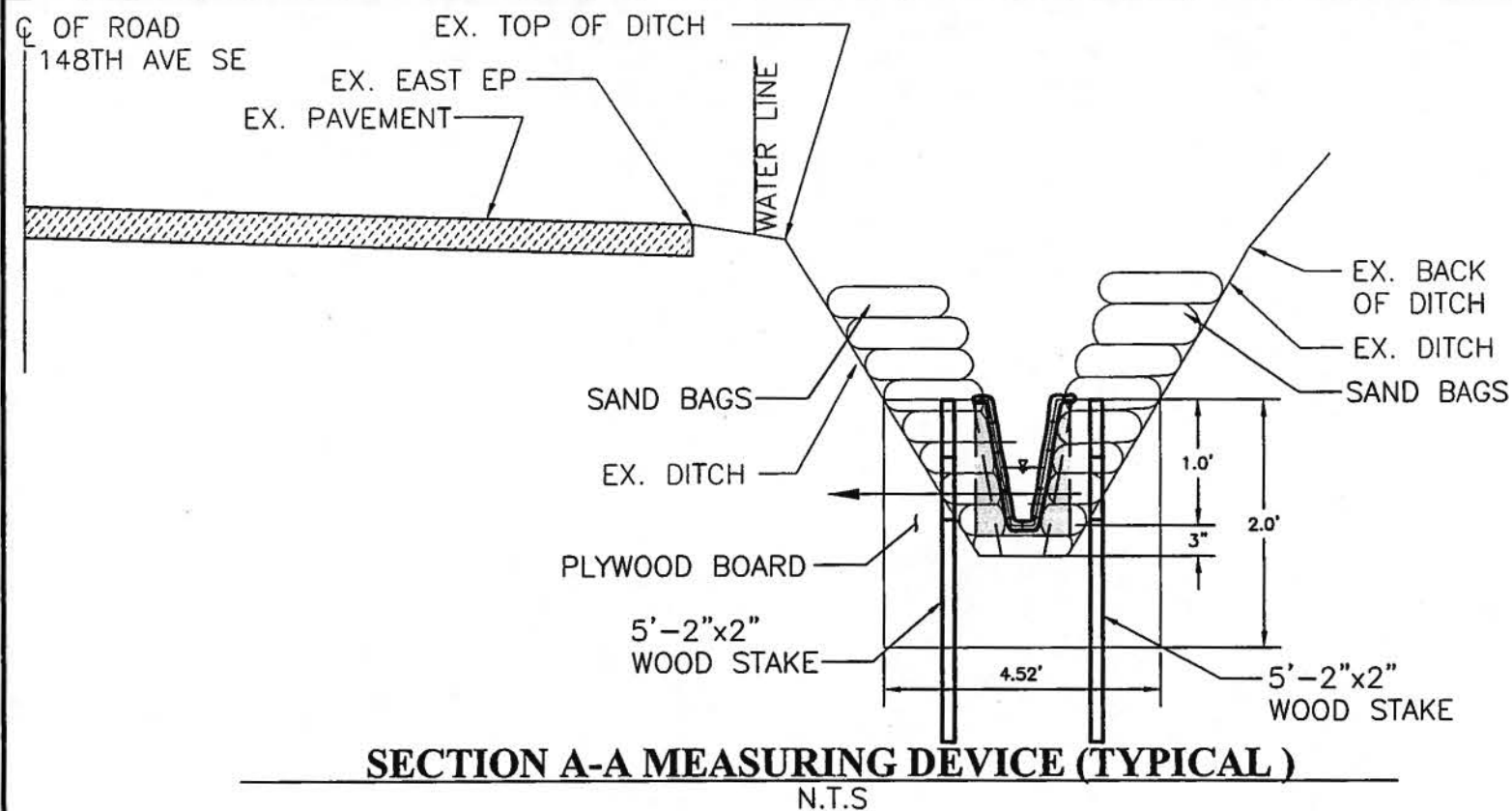
**CALL 2 DAYS  
BEFORE YOU DIG  
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**King County**

SHEET  
3  
OF  
6  
SHEETS






**RECORD DRAWING**

SURVEYED: PENDERGAST 10/29/08						FED. AID No. _____	TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION	SHEET 4 OF 6 SHEETS
BASE MAP PLOT: FG 11/20/08						PROJECT No. M20523	6-0570	HAROLD TANIGUCHI, DIRECTOR	
DESIGN PLOT: JM 04/07/09						SURVEY No. 08040		148TH AVE SE @ # 10218	
CHECKED: JSL 5/11/09						MAINTENANCE DIVISION No. _____		DRAINAGE DITCH WATER QUALITY BMP STUDY	
FIELD BOOK: _____								CROSS SECTIONS	
REVISION	BY	DATE	REVIEWED	DATE					

**SCALE: 1"=1'**

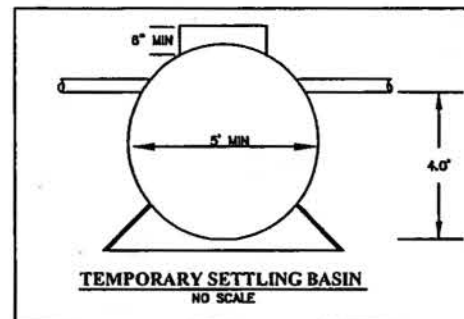
SURVEYED: <u>PENDERGAST</u> <u>10/29/08</u> BASE MAP PLOT: <u>FG</u> <u>11/20/08</u> DESIGN PLOT: <u>JM</u> <u>04/07/09</u> CHECKED: <u>JSL</u> <u>5/11/09</u> FIELD BOOK: _____		REVISION BY DATE REVIEWED DATE		FED. AID No. _____ PROJECT No. <u>M20523</u> SURVEY No. <u>08040</u> MAINTENANCE DIVISION No. _____		TRACKING # <b>6-0570</b>		KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR <b>148TH AVE SE @ # 10218</b> DRAINAGE DITCH WATER QUALITY BMP STUDY FLUME DETAILS		 SHEET <b>5</b> OF <b>6</b> SHEETS	
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# STANDARD ESC PLAN NOTES

1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
4. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITION. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
5. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
6. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN THE ESC FACILITY. ALL CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
7. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
8. REFER TO ROAD MAINTENANCE BMP GUIDANCE MANUAL FOR INSTRUCTION ON INFORMATION AND CONSTRUCTION OF BMP'S.

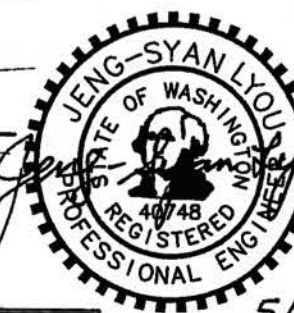
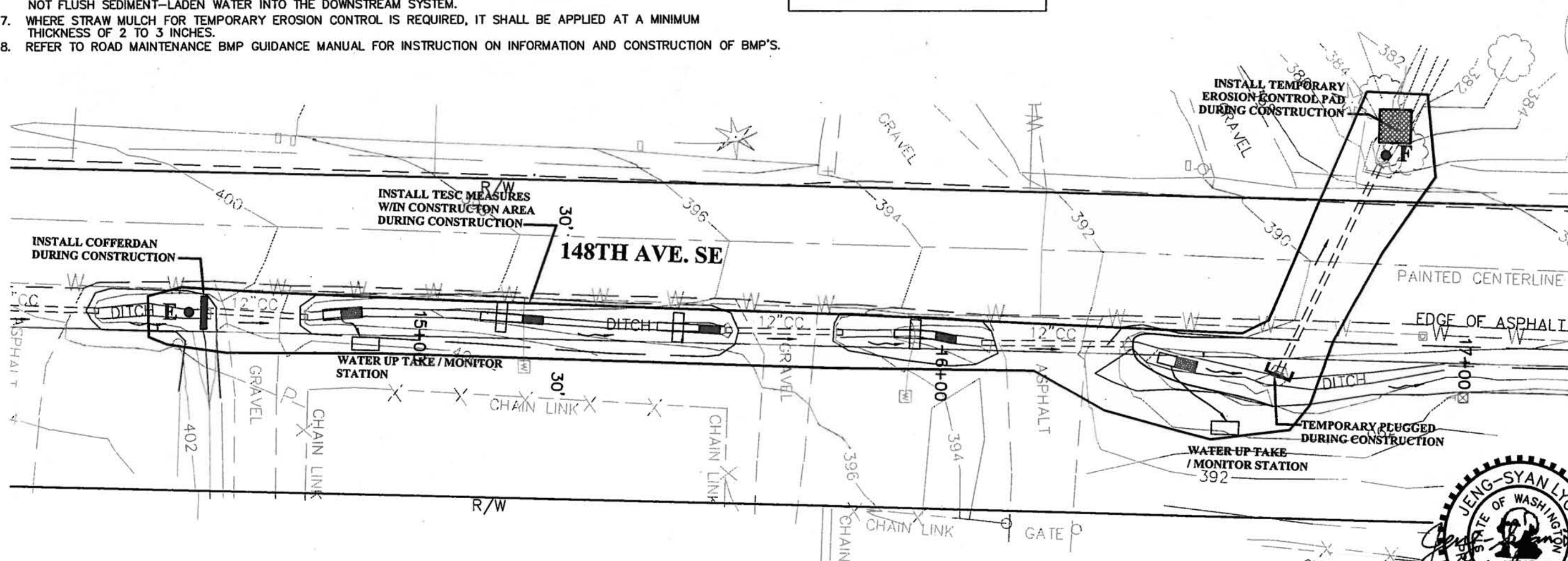
# EROSION CONTROL PLAN

SCALE: 1"=20'



## NOTES:

1. IF NECESSARY, PUMP ANY TURBID WATER FROM EXCAVATED AREAS TO TEMPORARY SETTLING BASIN.
2. VACUUM TEMPORARY SETTLING BASIN AND DISPOSE TO AN APPROVED SITE.
3. IF NECESSARY, PUMP CLEAN WATER FROM UPSTREAM TO DOWNSTREAM OF THE PROJECT AREA. OR FROM POINT E TO POINT F OR TO THE SETTLING BASINS.
4. REMOVE ALL BMP'S AFTER COMPLETION OF THIS PROJECT.



**RECORD DRAWING**

CALL 2 DAYS  
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SURVEYED: PENDERGAST 10/29/08						FED. AID No.	TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION	SHEET 6 OF 6 SHEETS
BASE MAP PLOT: FG 11/20/08						PROJECT No. M20523	6-0570	HAROLD TANIGUCHI, DIRECTOR	
DESIGN PLOT: JM 04/07/09						SURVEY No. 08040		148TH AVE SE @ # 10218	
CHECKED: JSL 5/11/09						MAINTENANCE DIVISION No.		DRAINAGE DITCH WATER QUALITY BMP STUDY	
FIELD BOOK:								EROSION CONTROL PLAN AND DETAIL	
REVISION	BY	DATE	REVIEWED	DATE					



**MANAGING ENGINEER:**  
JON CASSIDY 206-296-8148  
**PROJECT MANAGER:**  
JOHN LYOU 206-510-5565  
**PROJECT ENGINEER:**  
XINH HUYNH 206-295-9909  
**PROJECT ECOLOGIST:**  
STEVE CONROY 206-205-7105

**S-T-R: 1-22N-5E**

**PRE-CONSTRUCTION MEETING REQUIRED**

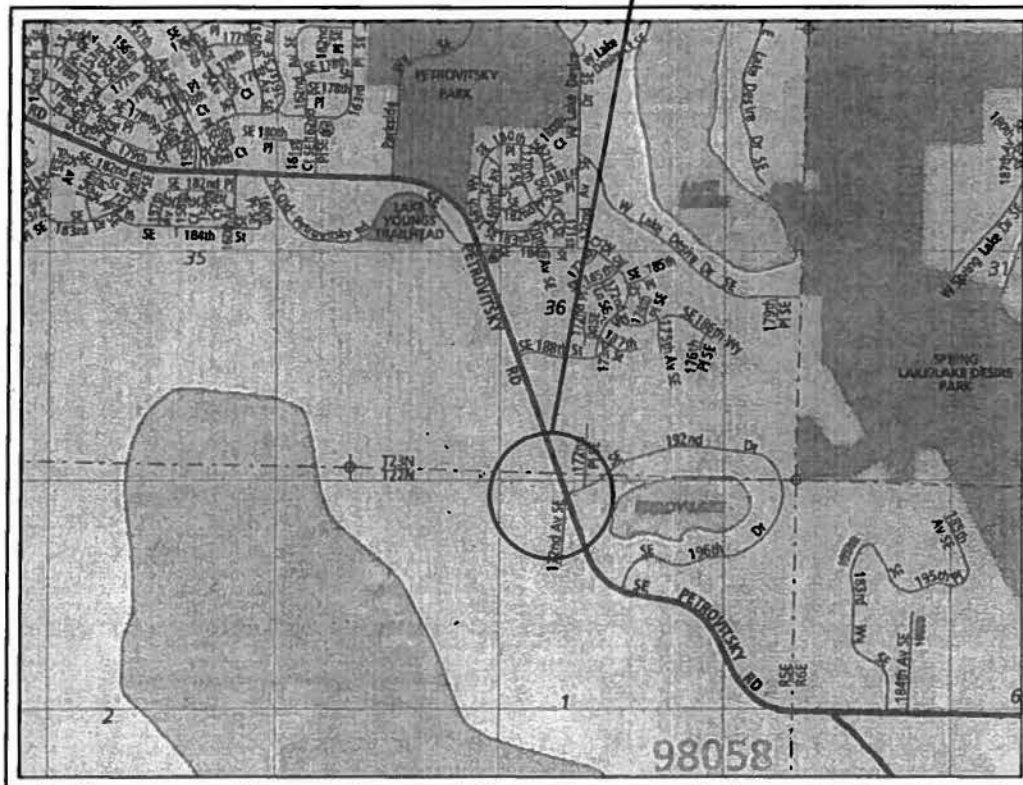


### VICINITY MAP

**N.T.S.**

**Thomas Guide: 687-C3**

## **- PROJECT LOCATION**



**SPECIAL NOTE:**

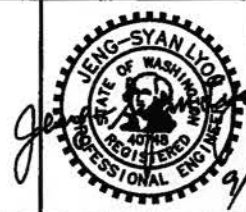
**THIS PROJECT WILL BE CONSTRUCTED BY  
KING COUNTY ROADS MAINTENANCE CREW**

## INDEX:

1. COVER SHEET
- 2,3. PLAN
- 4,5. PROFILE, DETAILS
6. MEASURING DEVICE DETAILS
- 7,8. TESC PLAN

## RECORD DRAWING

**CALL 2 DAYS  
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[illegible]

FED. AID No. \_\_\_\_\_  
PROJECT No. \_\_\_\_\_  
SURVEY No. \_\_\_\_\_  
MAINTENANCE DIVISION No. \_\_\_\_\_

TRACKING #

---

**6-0702**

**KING COUNTY DEPT. OF TRANSPORTATION**  
**HAROLD TANIGUCHI, DIRECTOR**

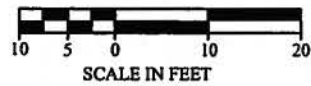
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**SE PETROVITSKY RD**  
**AT SE 192 ND DR**  
**DRAINAGE DITCH WATER QUALITY BMP STUDY**  
**COVER SHEET**

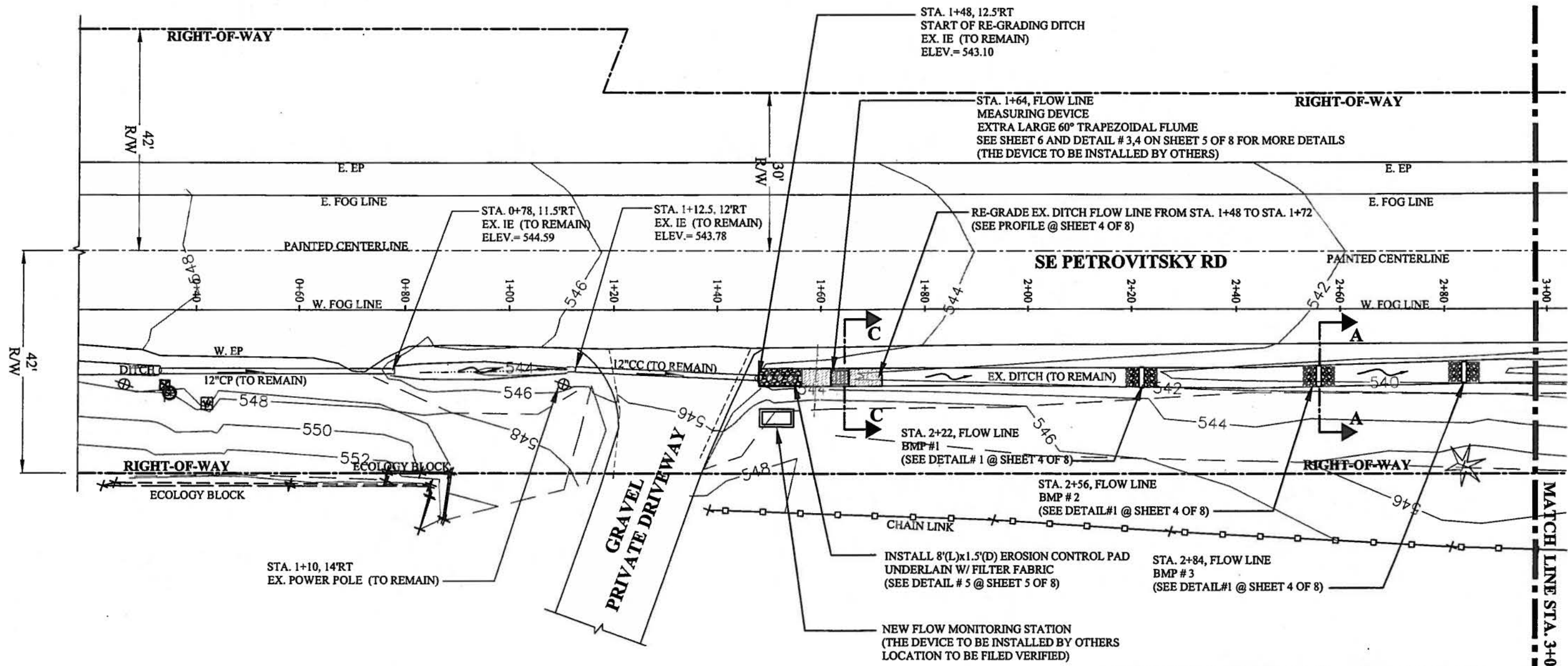


**SHEET  
1  
OF  
8  
SHEETS**

# PLAN



SURVEY BASELINE = W. FOG LINE



## RECORD DRAWING

11/22/11

CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555

SURVEYED: PENDERGAST	11/18/08				
BASE MAP PLOT: XH	07/26/10				
DESIGN PLOT: XH	09/14/10				
CHECKED: JSL	9/16/10				
FIELD BOOK:					
REVISION	BY	DATE	REVIEWED	DATE	



FED. AID No. \_\_\_\_\_

PROJECT No. \_\_\_\_\_

SURVEY No. \_\_\_\_\_

MAINTENANCE DIVISION No. \_\_\_\_\_

TRACKING #

6-0702

KING COUNTY DEPT. OF TRANSPORTATION  
HAROLD TANIGUCHI, DIRECTOR

SE PETROVITSKY RD  
AT SE 192 ND DR

DRAINAGE DITCH WATER QUALITY BMP STUDY  
PLAN (FROM STA. 0+40 TO STA. 3+00)

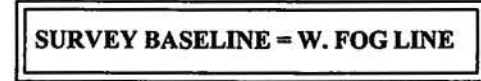
King County

SHEET  
2  
OF  
8  
SHEETS



10 5 0 10 20

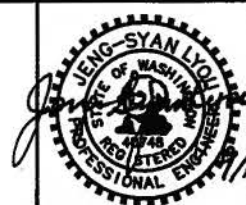
SCALE IN FEET



## RECORD DRAWING

11/22/11

**CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555**

[illegible]

FED. AID No. \_\_\_\_\_

PROJECT No. \_\_\_\_\_

SURVEY No. \_\_\_\_\_

66/10  
MAINTENANCE DIVISION No. \_\_\_\_\_

TRACKING #  
**6-0702**

KING COUNTY DEPT. OF TRANSPORTATION  
HAROLD TANIGUCHI, DIRECTOR

---

**SE PETROVITSKY RD**  
**AT SE 192 ND DR**  
DRAINAGE DITCH WATER QUALITY BMP STUDY  
PLAN (FROM STA. 3+00 TO STA. 5+20)



**SHEET  
3  
OF  
8  
SHEETS**

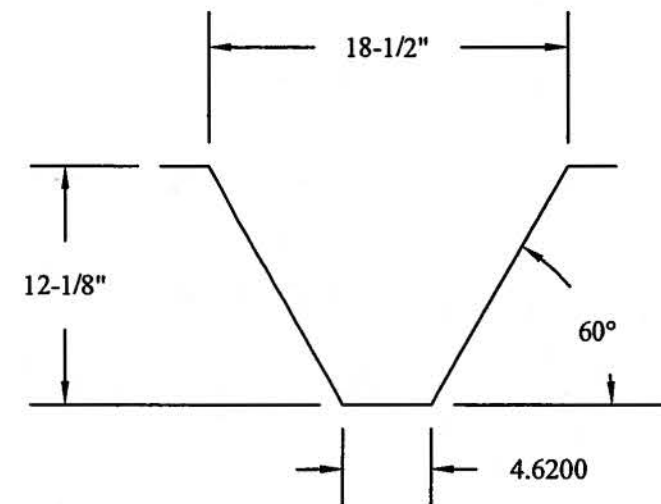
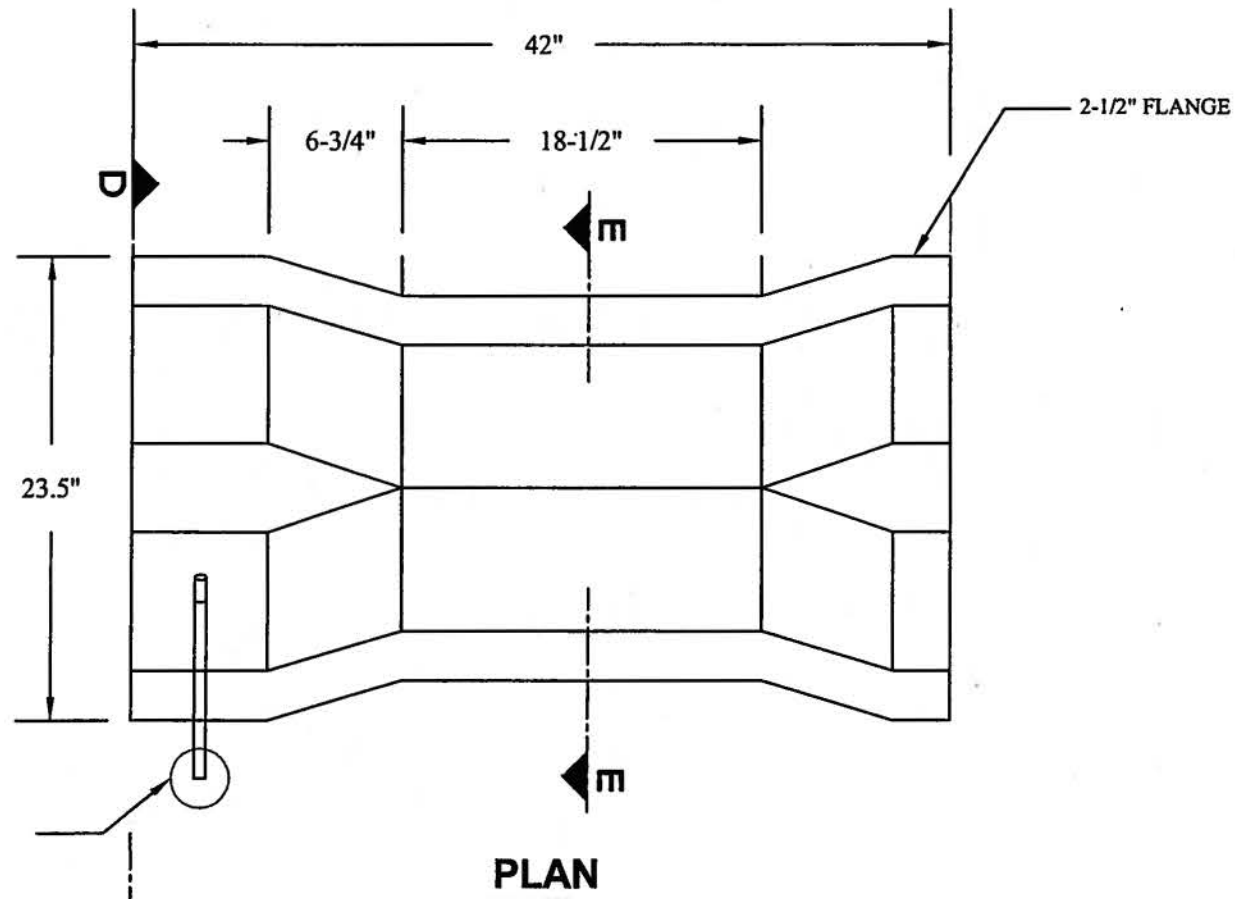






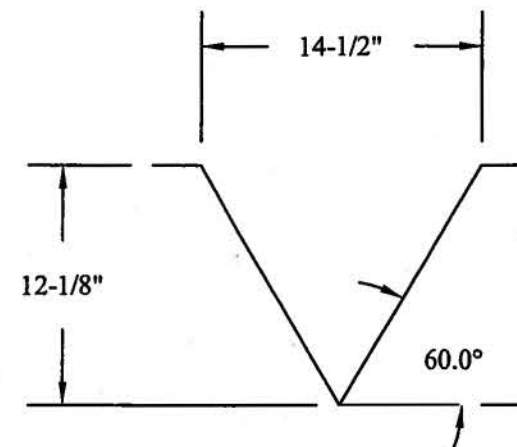
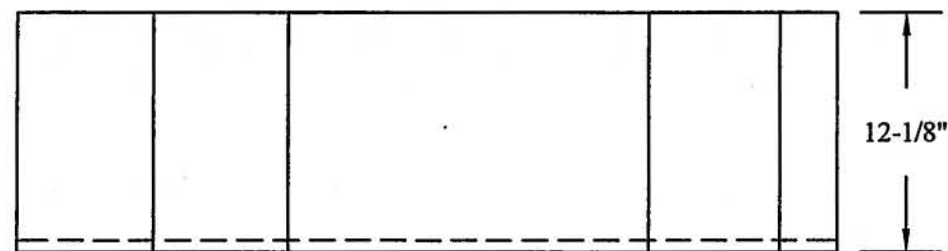
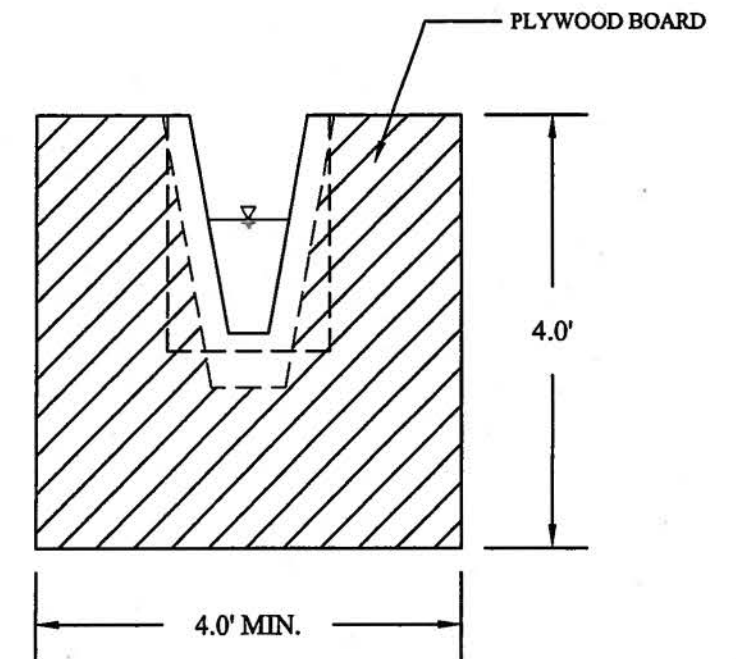
# MEASURING DEVICE EXTRA LARGE 60° V TRAPEZOIDAL FLUME

SCALE: N.T.S.



## NOTES:

1. MATERIAL IS  $\frac{1}{4}$ " THICK FIBERGLASS.
2. ALL INTERNAL SURFACES ARE FINISHED IN SMOOTH CHEMICAL RESISTANT ISOPHTHALIC WHITE GEL COAT.



**RECORD DRAWING**

*Jr 12/22/11*

CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555

SURVEYED: PENDERGAST	11/18/08				
BASE MAP PLOT: XH	07/26/10				
DESIGN PLOT: XH	09/14/10				
CHECKED: JSL	9/16/10				
FIELD BOOK:					
REVISION		BY	DATE	REVIEWED	DATE



FED. AID No. \_\_\_\_\_  
PROJECT No. \_\_\_\_\_  
SURVEY No. \_\_\_\_\_  
MAINTENANCE DIVISION No. \_\_\_\_\_

TRACKING #

**6-0702**

KING COUNTY DEPT. OF TRANSPORTATION  
HAROLD TANIGUCHI, DIRECTOR

**SE PETROVITSKY RD  
AT SE 192 ND DR**  
DRAINAGE DITCH WATER QUALITY BMP STUDY  
MEASURING DEVICE DETAILS



SHEET  
6  
OF  
8  
SHEETS

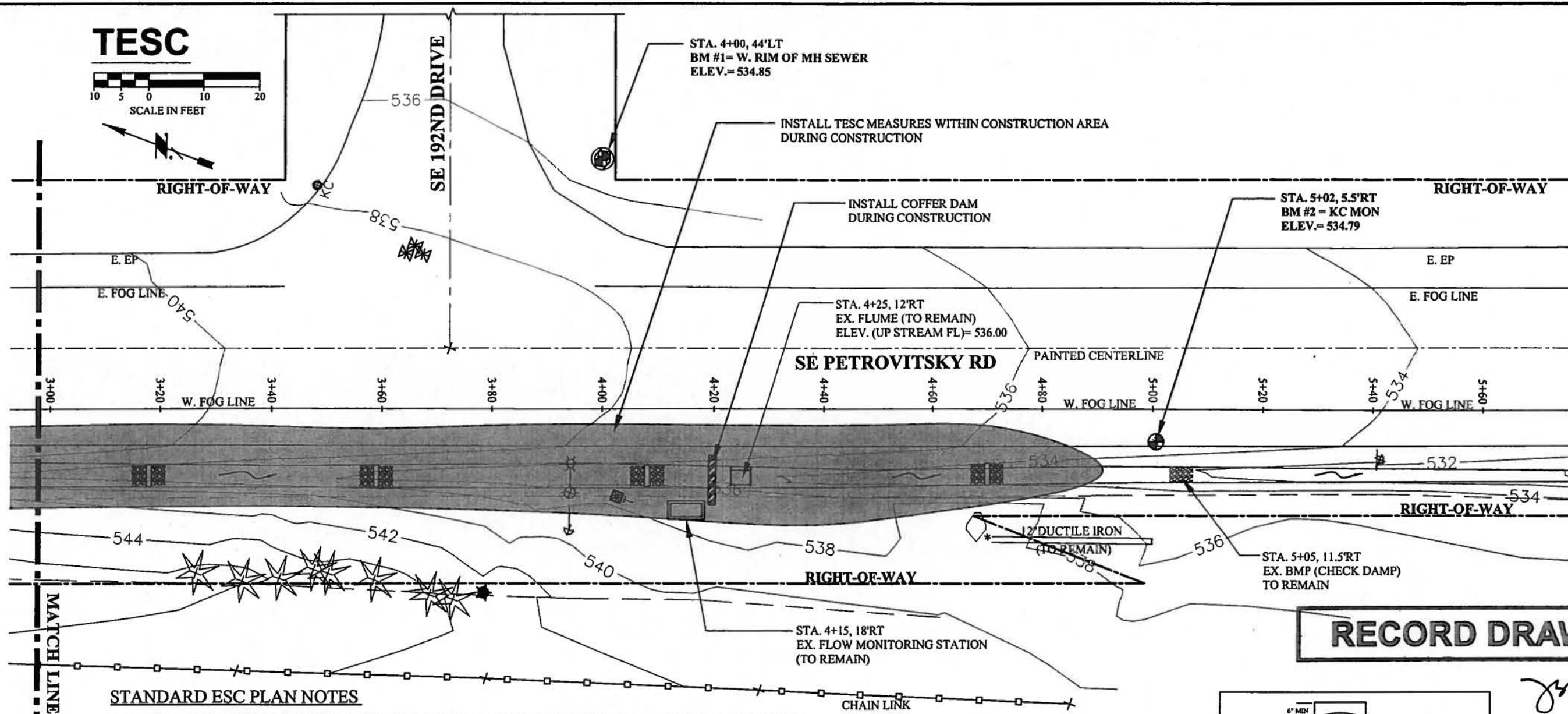
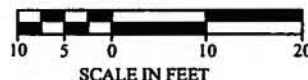


**CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555**

[illegible]



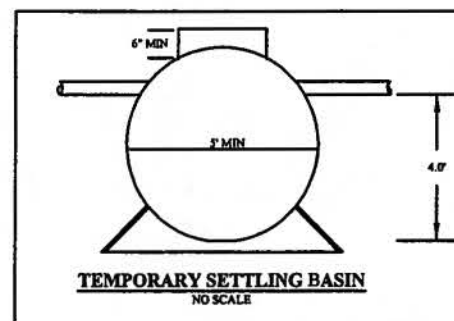
# TESC



## RECORD DRAWING

### STANDARD ESC PLAN NOTES

1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
4. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITION. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
5. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
6. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN THE ESC FACILITY. ALL CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
7. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
8. REFER TO ROAD MAINTENANCE BMP GUIDANCE MANUAL FOR INSTRUCTION ON INFORMATION AND CONSTRUCTION OF BMP'S.

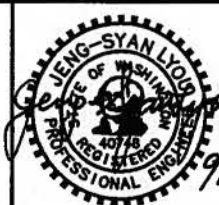


### NOTES:

1. INSTALL TESC WITHIN CONSTRUCTION AREA.
2. PUMP ANY TURBID WATER INTO THE TEMPORARY SETTING BASIN AND DISPOSE AT AN APPROVED SITE.
3. PUMP ANY CLEAR STORM WATER RUN OFF FROM UPSTREAM TO DOWN STREAM OF THE CONSTRUCTION AREA.
4. REMOVE ALL TESC UPON COMPLETION OF THE CONSTRUCTION.

CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555

SURVEYED: PENDERGAST	11/18/08				
BASE MAP PLOT: XH	07/26/10				
DESIGN PLOT: XH	09/14/10				
CHECKED: JSL	9/16/10				
FIELD BOOK:					
REVISION		BY	DATE	REVIEWED	DATE



FED. AID No. \_\_\_\_\_  
PROJECT No. \_\_\_\_\_  
SURVEY No. \_\_\_\_\_  
MAINTENANCE DIVISION No. \_\_\_\_\_

TRACKING #

6-0702

KING COUNTY DEPT. OF TRANSPORTATION  
HAROLD TANIGUCHI, DIRECTOR

**SE PETROVITSKY RD  
AT SE 192 ND DR**  
DRAINAGE DITCH WATER QUALITY BMP STUDY  
TESC PLAN (FROM STA. 3+00 TO STA. 5+20)

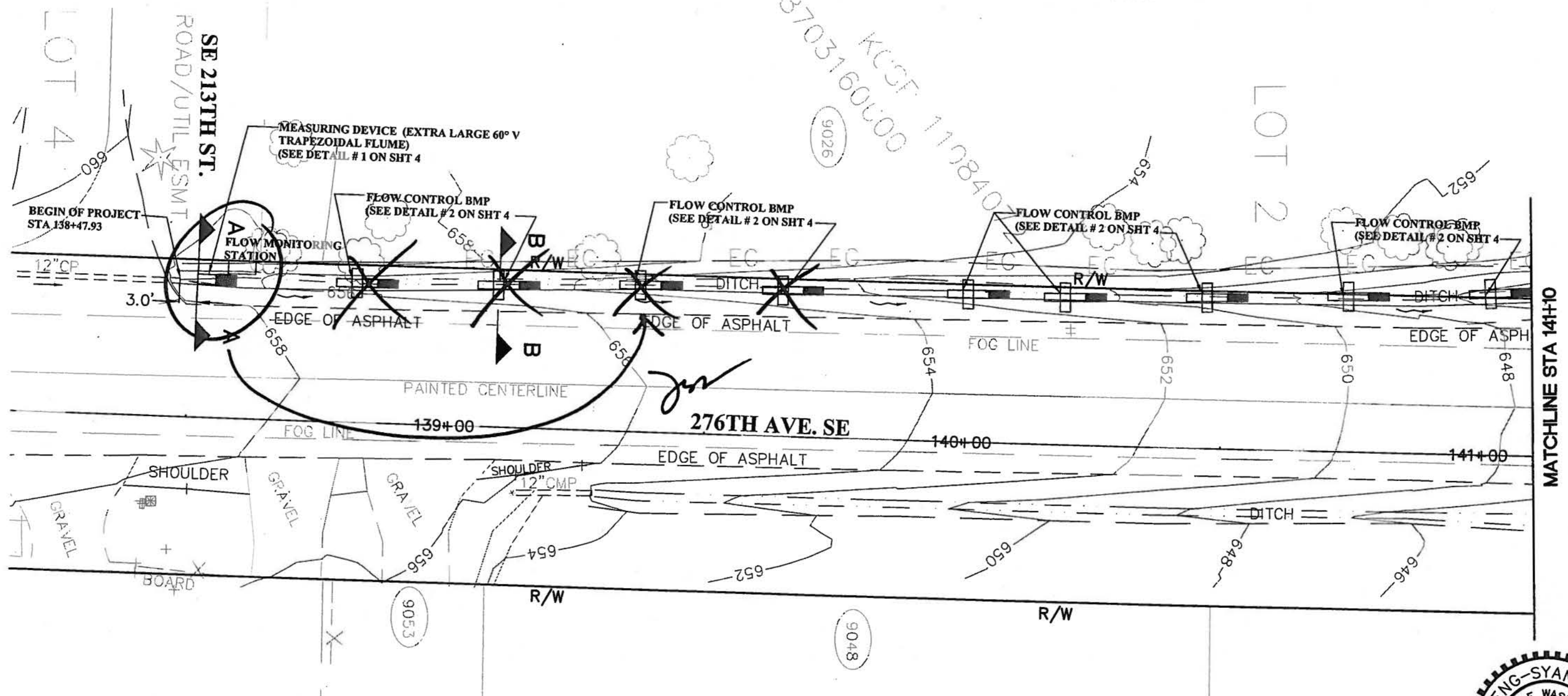


SHEET  
8  
OF  
8  
SHEETS

SHEET  
1  
OF  
9  
SHEETS

# EXISTING & PROPOSED PLAN

SCALE: 1"=20'



**RECORD DRAWING**



CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555

SURVEYED:	DIXON	11/5/08							
BASE MAP PLOT:	FG/MG	12/30/08							
DESIGN PLOT:	JM	04/07/09							
CHECKED:	JSL	5/1/09							
FIELD BOOK:									
REVISION			BY	DATE	REVIEWED	DATE			

FED. AID No. \_\_\_\_\_  
  
PROJECT No. M20505  
SURVEY No. 08043  
  
MAINTENANCE DIVISION No. \_\_\_\_\_

TRACKING #  
  
**6-0567**

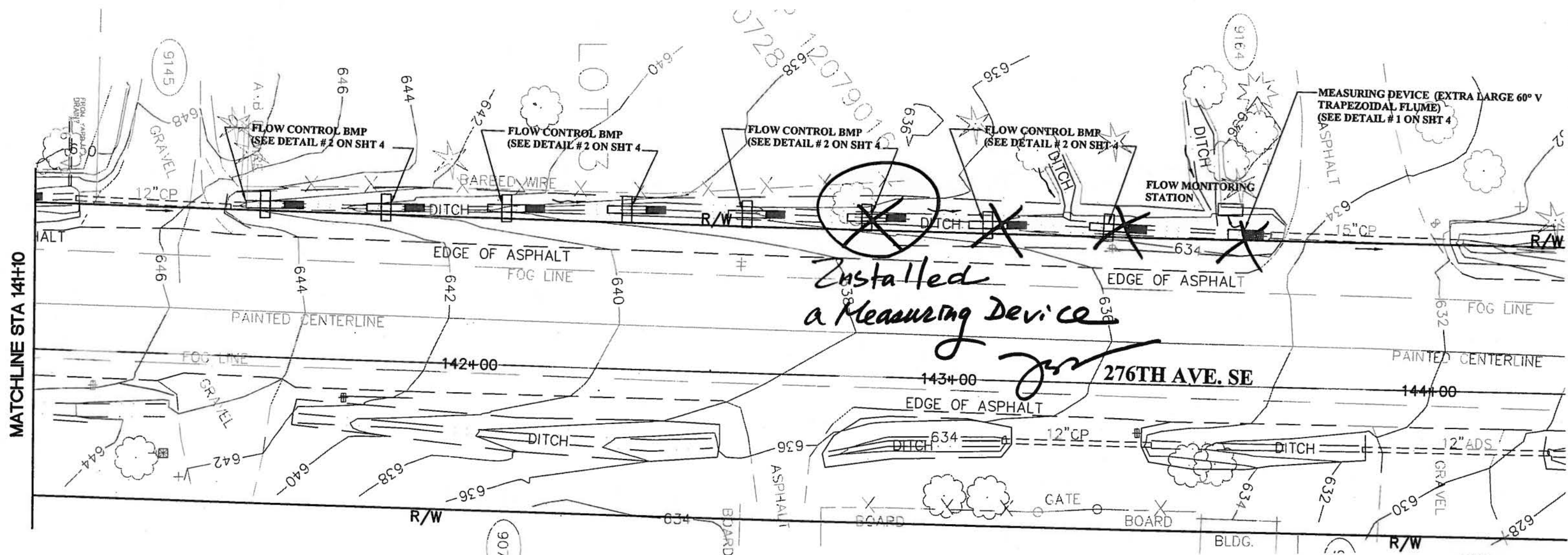
KING COUNTY DEPT. OF TRANSPORTATION  
HAROLD TANIGUCHI, DIRECTOR  
  
**276TH AVE SE @ # 21117**  
DRAINAGE DITCH FLOW CONTROL BMP STUDY  
EXISTING & PROPOSED PLAN

**King County**  
SHEET  
2  
OF  
9  
SHEETS



EXISTING & PROPOSED PLAN


SCALE: 1"=20'



RECORD DRAWING

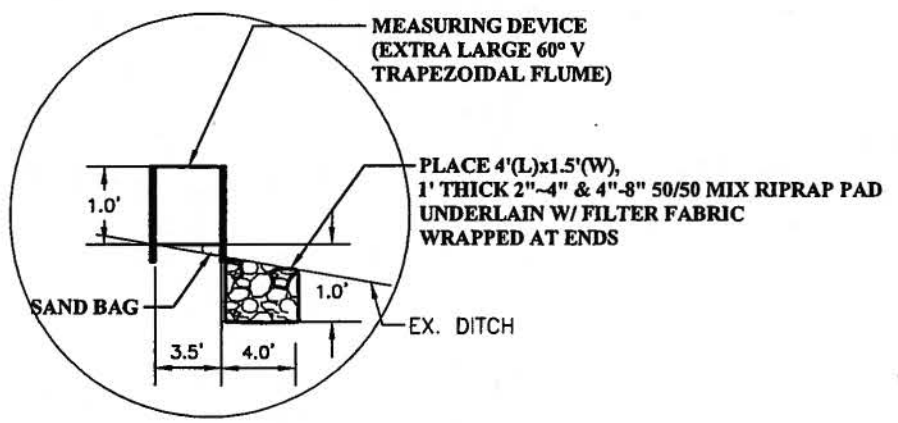
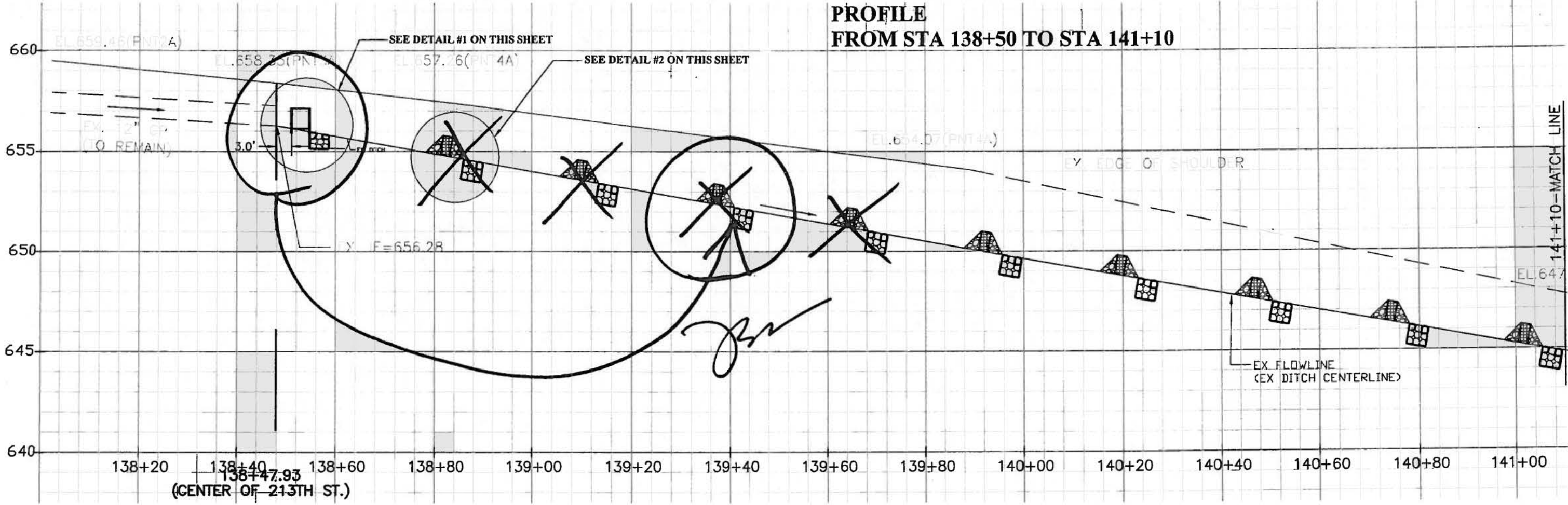


CALL 2 DAYS BEFORE YOU DIG  
1-800-424-5555

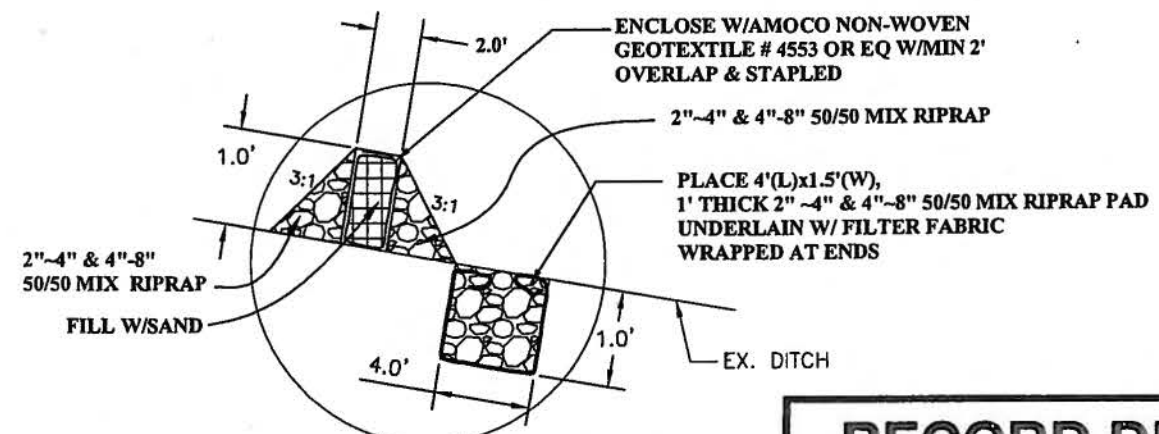
SURVEYED: DIXON 11/5/08						FED. AID No. _____	TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR	 SHEET 3 OF 9 SHEETS
BASE MAP PLOT: FG/MG 12/30/08						PROJECT No. M20505	6-0567	276TH AVE SE @ # 21117 DRAINAGE DITCH FLOW CONTROL BMP STUDY EXISTING & PROPOSED PLAN	
DESIGN PLOT: JM 04/07/09						SURVEY No. 08043			
CHECKED: JSL 5/11/09						MAINTENANCE DIVISION No. _____			
FIELD BOOK: _____									
REVISION						BY	DATE	REVIEWED	DATE

# EXISTING & PROPOSED PROFILE

SCALE:  
HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'



**DETAIL #1- MEASURING DEVICE**  
N.T.S.



**DETAIL #2 - FLOW CONTROL BMP**  
N.T.S.

**RECORD DRAWING**



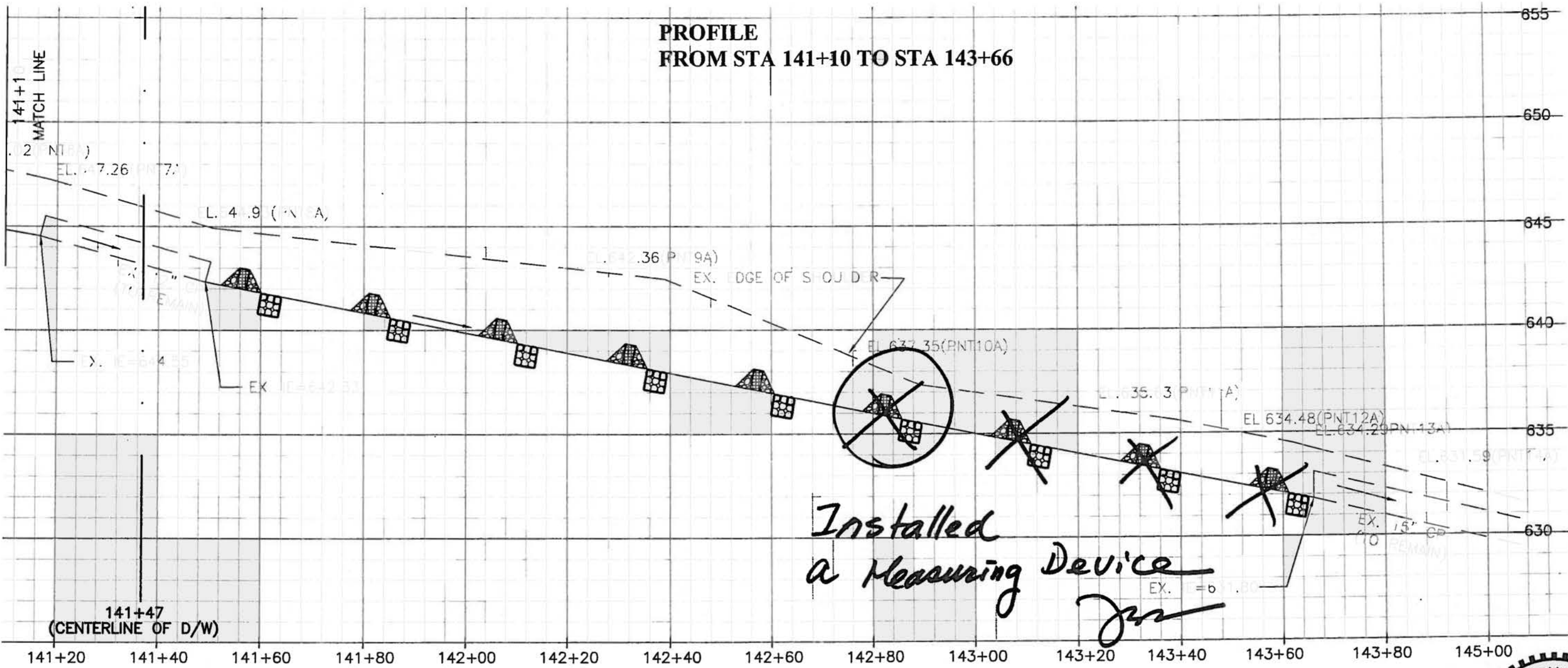
CALL 2 DAYS BEFORE YOU DIG  
1-800-424-5555

SURVEYED: DIXON 11/5/08						FED. AID No. _____	TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR	<p><b>King County</b></p>	SHEET 4 OF 9 SHEETS
BASE MAP PLOT: FG/MG 12/30/08						PROJECT No. M20505	6-0567	276TH AVE SE @ # 21117 DRAINAGE DITCH FLOW CONTROL BMP STUDY EXISTING & PROPOSED PROFILE		
DESIGN PLOT: JM 04/07/09						SURVEY No. 08043				
CHECKED: JSL 5/11/09						MAINTENANCE DIVISION No. _____				
FIELD BOOK: _____										
	REVISION	BY	DATE	REVIEWED	DATE					

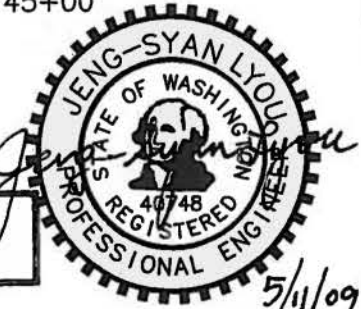


# EXISTING & PROPOSED PROFILE

SCALE:  
HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'



**RECORD DRAWING**

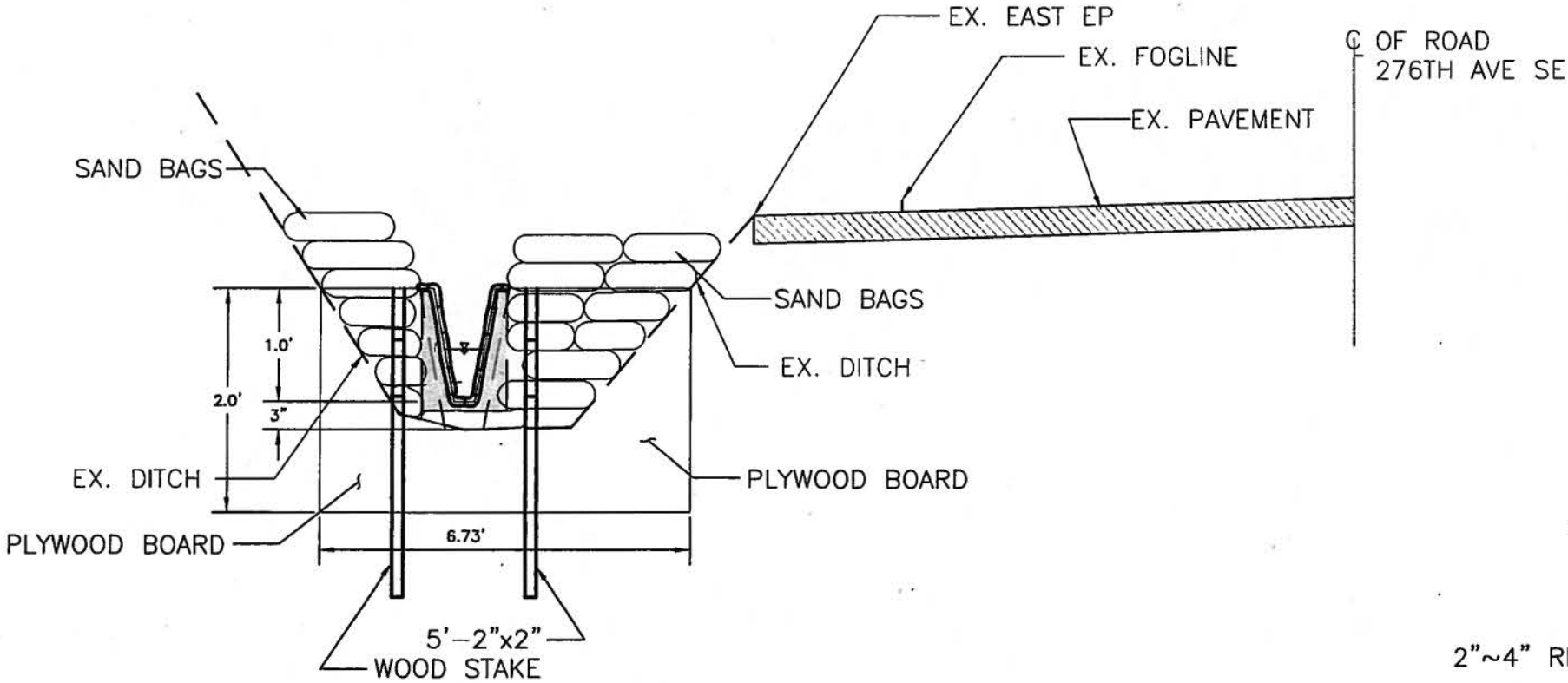


*Jm 12/22/11*

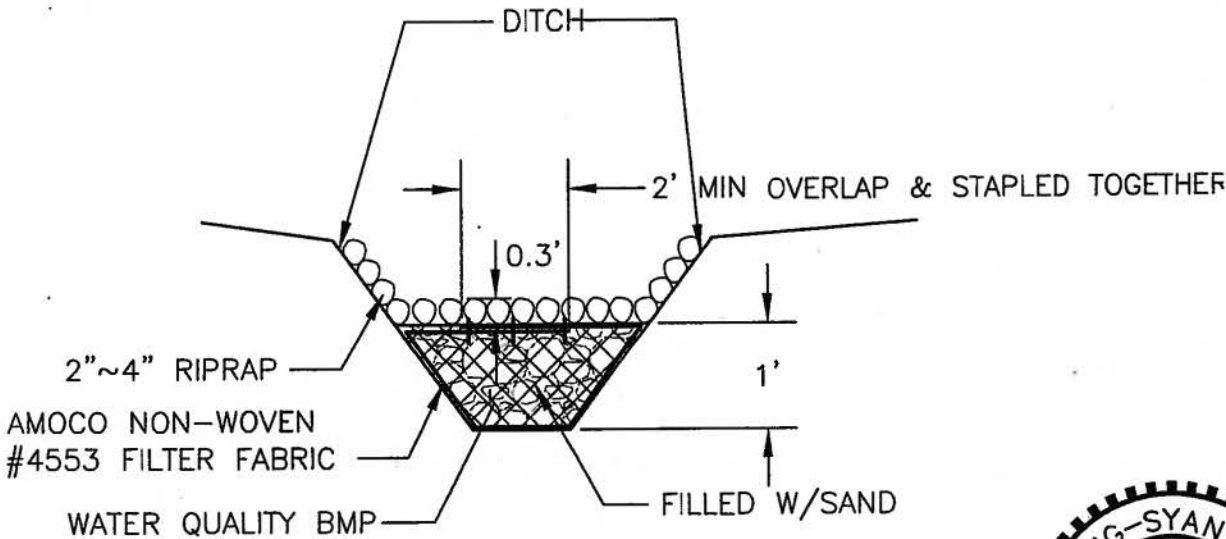
CALL 2 DAYS BEFORE YOU DIG  
1-800-424-5555

SURVEYED: DIXON 11/5/08 BASE MAP PLOT: FG/MG 12/30/08 DESIGN PLOT: JM 04/07/09 CHECKED: <i>Jm</i> JSL 5/11/09 FIELD BOOK:		REVISION BY DATE REVIEWED DATE		FED. AID No. _____ PROJECT No. M20505 SURVEY No. 08043 MAINTENANCE DIVISION No. _____		TRACKING # <b>6-0567</b>		KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR <b>276TH AVE SE @ # 21117</b> DRAINAGE DITCH FLOW CONTROL BMP STUDY EXISTING & PROPOSED PROFILE		 SHEET 5 OF 9 SHEETS	
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CROSS SECTION & DETAILS



SECTION A-A MEASURING DEVICE (TYPICAL)  
N.T.S




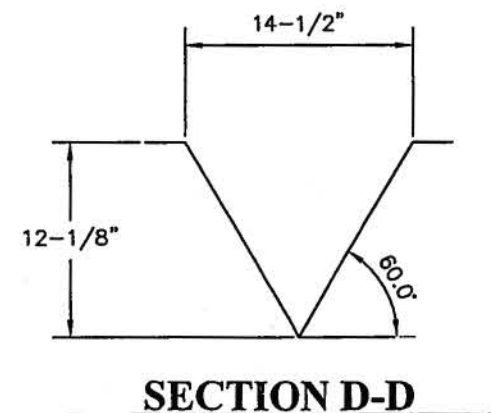
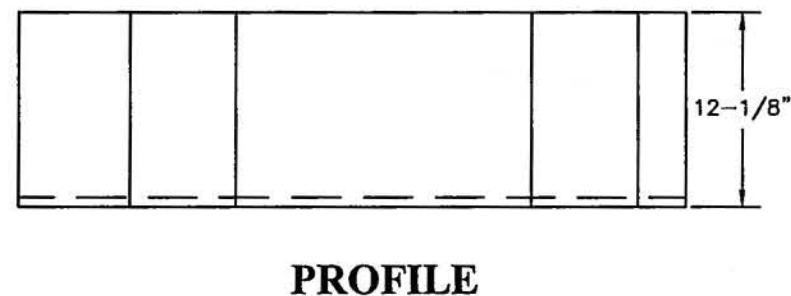
SECTION B-B (TYPICAL)  
N.T.S

RECORD DRAWING




CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555

SURVEYED: DIXON 11/5/08											FED. AID No. _____	TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR	 SHEET 6 OF 9 SHEETS
BASE MAP PLOT: FG/MG 12/30/08											PROJECT No. M20505	6-0567	276TH AVE SE @ # 21117 DRAINAGE DITCH FLOW CONTROL BMP STUDY CROSS SECTION	
DESIGN PLOT: JM 04/07/09											SURVEY No. 08043			
CHECKED: JSL 5/11/09											MAINTENANCE DIVISION No. _____			
FIELD BOOK: _____														



1. MATERIAL IS  $\frac{1}{4}$ " THICK FIBERGLASS.
2. ALL INTERNAL SURFACES ARE FINISHED IN SMOOTH CHEMICAL RESISTANT ISOPHTHALIC WHITE GEL COAT.

**CALL 2 DAYS /  
BEFORE YOU DIG  
1-800-424-5555**

SURVEYED:	DIXON	11/5/08					FED. AID No.	-	TRACKING #  6-0567	KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR	 SHEET 7 OF 9 SHEETS
BASE MAP PLOT:	FG/MG	12/30/08					PROJECT No.	M20505		276TH AVE SE @ # 21117 DRAINAGE DITCH FLOW CONTROL BMP STUDY EXTRA LARGE 60° V TRAPEZOIDAL FLUME	
DESIGN PLOT:	JM	04/07/09					SURVEY No.	08043			
CHECKED:	JSL	5/11/09					MAINTENANCE DIVISION No.				
FIELD BOOK:											
			REVISION	BY	DATE	REVIEWED	DATE				

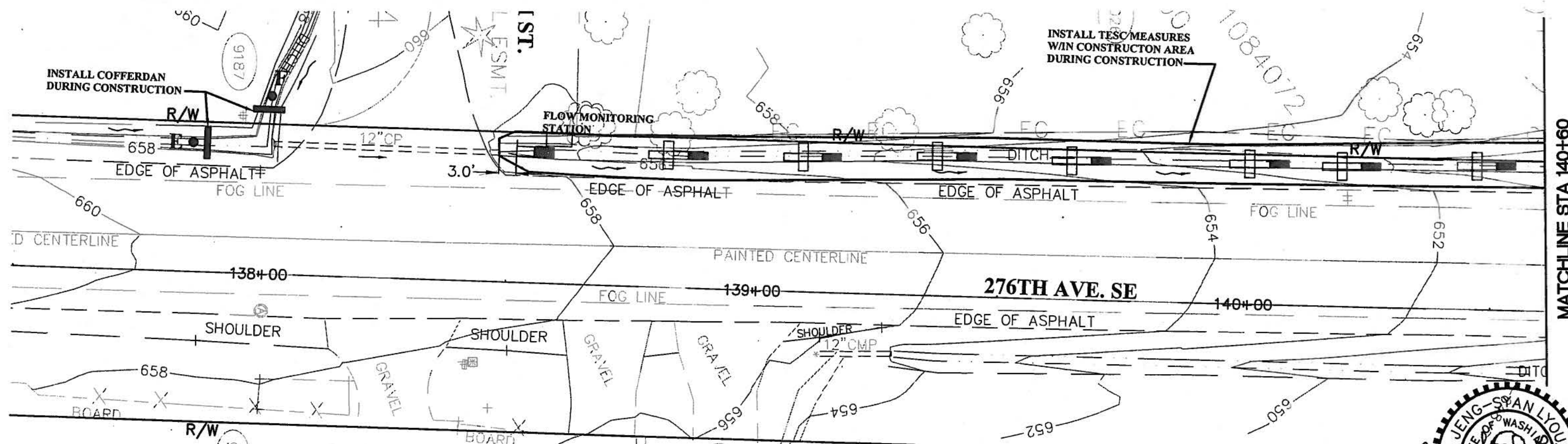


# STANDARD ESC PLAN NOTES

1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
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4. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITION. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
5. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
6. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN THE ESC FACILITY. ALL CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
7. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
8. REFER TO ROAD MAINTENANCE BMP GUIDANCE MANUAL FOR INSTRUCTION ON INFORMATION AND CONSTRUCTION OF BMP'S.

# EROSION CONTROL PLAN

SCALE: 1" = 30'



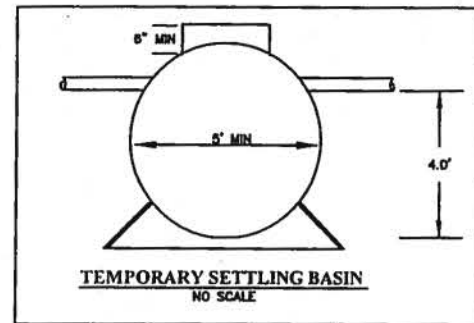
**RECORD DRAWING**



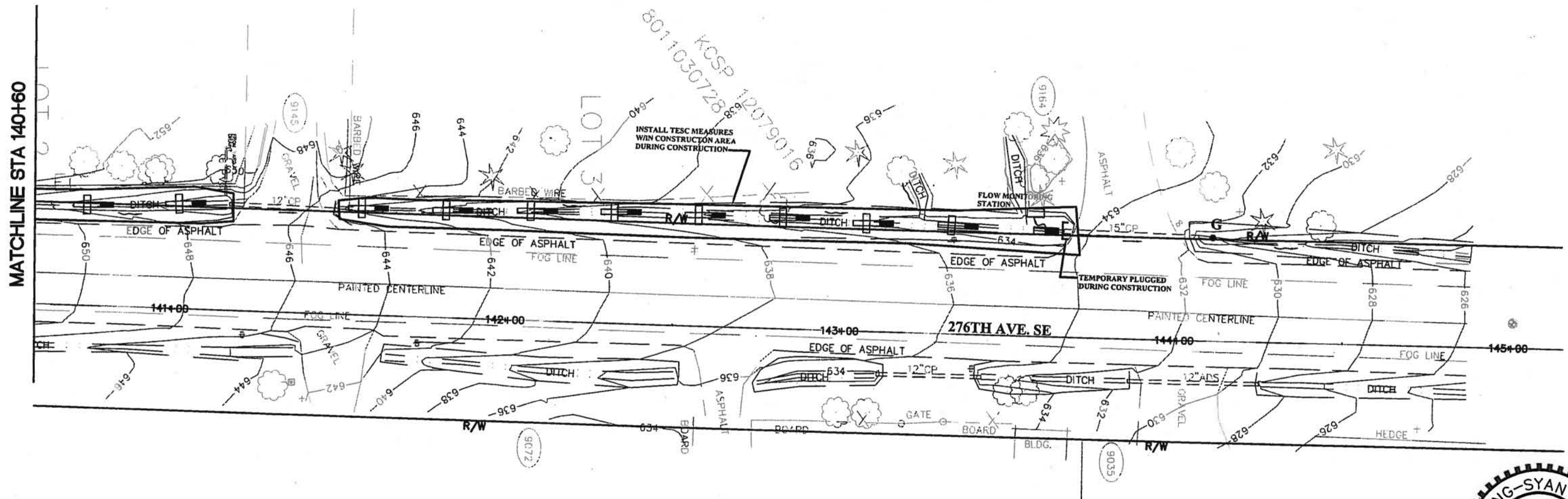
CALL 2 DAYS BEFORE YOU DIG  
1-800-424-5555

SURVEYED: DIXON 11/5/08						FED. AID No. _____	TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR	SHEET 8 OF 9 SHEETS
BASE MAP PLOT: FG/MG 12/30/08						PROJECT No. M20505		276TH AVE SE @ # 21117	
DESIGN PLOT: JM 04/07/09						SURVEY No. 08043		DRAINAGE DITCH FLOW CONTROL BMP STUDY	
CHECKED: JSL 5/11/09						MAINTENANCE DIVISION No. _____	6-0567	EROSION CONTROL PLAN AND DETAIL	
FIELD BOOK: _____									
REVISION						BY	DATE	REVIEWED	DATE

SCALE: 1" = 30'



1. IF NECESSARY, PUMP ANY TURBID WATER FROM EXCAVATED AREAS TO TEMPORARY SETTLING BASIN.
2. VACTOR TEMPORARY SETTLING BASIN AND DISPOSE TO AN APPROVED SITE.
3. IF NECESSARY, PUMP CLEAN WATER FROM UPSTREAM TO DOWNSTREAM OF THE PROJECT AREA. OR FROM POINT E AND F TO POINT G OR TO THE SETTLING BASINS.
4. REMOVE ALL BMP'S AFTER COMPLETION OF THIS PROJECT.



## RECORD DRAWING



**CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555**

SURVEYED: DIXON	11/5/08																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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MANAGING ENGINEER:  
JON CASSIDY 206-296-8148  
PROJECT MANAGER:  
JOHN LYOU 206-510-5565  
PROJECT ENGINEER:  
XINH HUYNH 206-295-9909  
PROJECT ECOLOGIST:  
STEVE CONROY 206-205-7105

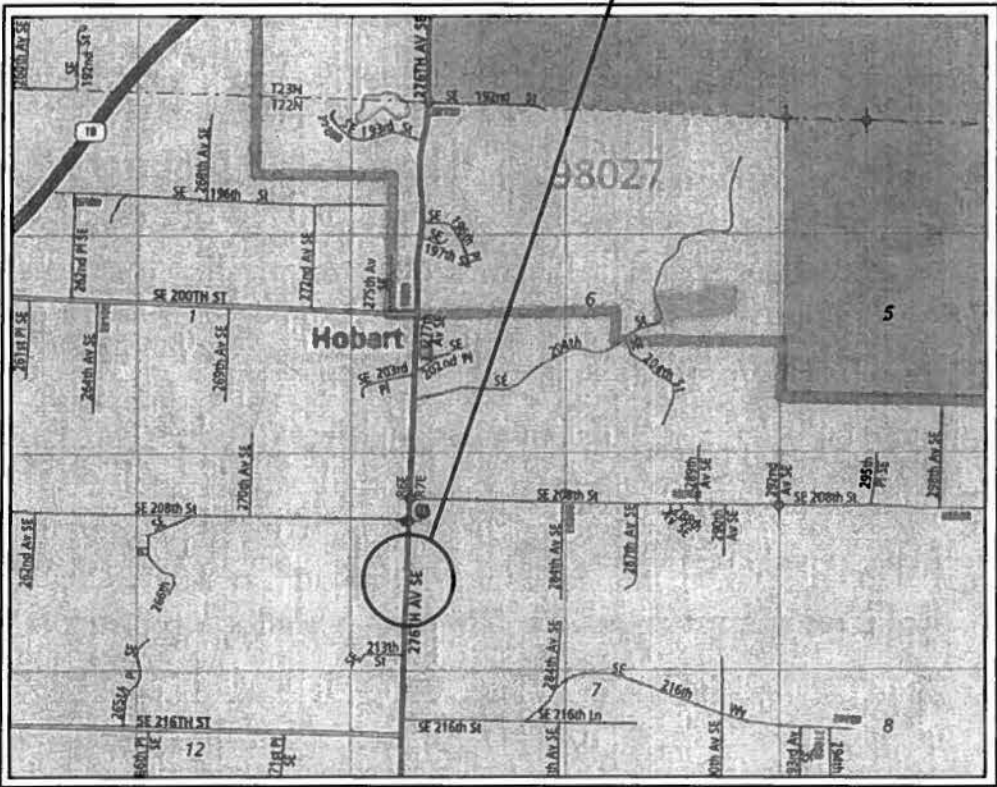
S06 - T22N - R6E

PRE-CONSTRUCTION MEETING REQUIRED



VICINITY MAP  
N.T.S.  
Thomas Guide: 688-G5

PROJECT LOCATION



SPECIAL NOTE:  
THIS PROJECT WILL BE CONSTRUCTED BY  
KING COUNTY ROADS MAINTENANCE CREW

- INDEX:
- 1. COVER SHEET
  - 2,3. PLAN
  - 4,5. PROFILE, DETAILS
  - 6. MEASURING DEVICE DETAILS
  - 7,8. TESC PLAN

RECORD DRAWING

CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555

SURVEYED:	XH, PG, MG	09/07/10							
BASE MAP PLOT:	XH	09/09/10							
DESIGN PLOT:	XH	09/14/10							
CHECKED:	JSL	9/16/10							
FIELD BOOK:									
REVISION			BY	DATE	REVIEWED	DATE			



FED. AID No. \_\_\_\_\_  
PROJECT No. \_\_\_\_\_  
SURVEY No. \_\_\_\_\_  
MAINTENANCE DIVISION No. \_\_\_\_\_

TRACKING #  
**6-0707**

KING COUNTY DEPT. OF TRANSPORTATION  
HAROLD TANIGUCHI, DIRECTOR  
**276 TH AVE. SE.**  
**@ S. OF SE 208 ST (WEST SIDE)**  
DRAINAGE DITCH WATER QUALITY IMPROVEMENT  
COVER SHEET

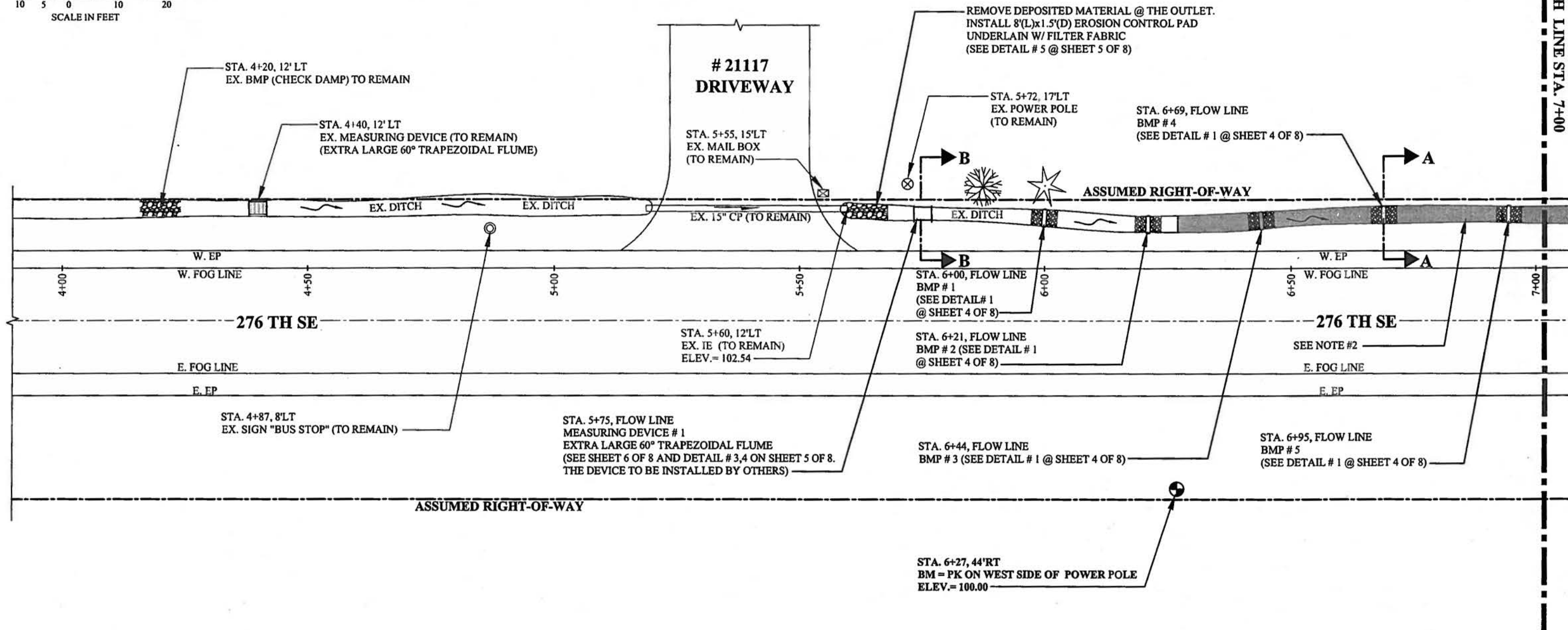


SHEET  
1  
OF  
8  
SHEETS

# PLAN



SURVEY BASELINE = W. FOG LINE



## NOTES:

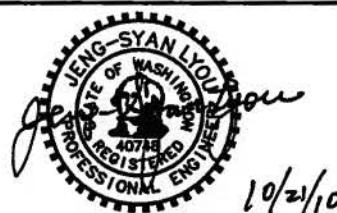
- MOW THE VEGETATION IN THE DITCH FROM STA. 5+60 TO STA. 9+40 TO PREPARE FOR BMP INSTALLATION.
- REMOVE ALL DEPOSITED MATERIALS IN THE EXISTING DITCH FROM STA. 6+27 TO STA. 7+10 AS NEEDED.

## RECORD DRAWING

12/22/11

CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555

SURVEYED:	XH, PG, MG	09/07/10							
BASE MAP PLOT:	XH	09/09/10							
DESIGN PLOT:	XH	09/14/10							
CHECKED:	JSL	10/21/10							
FIELD BOOK:									
REVISION	BY	DATE	REVIEWED	DATE					

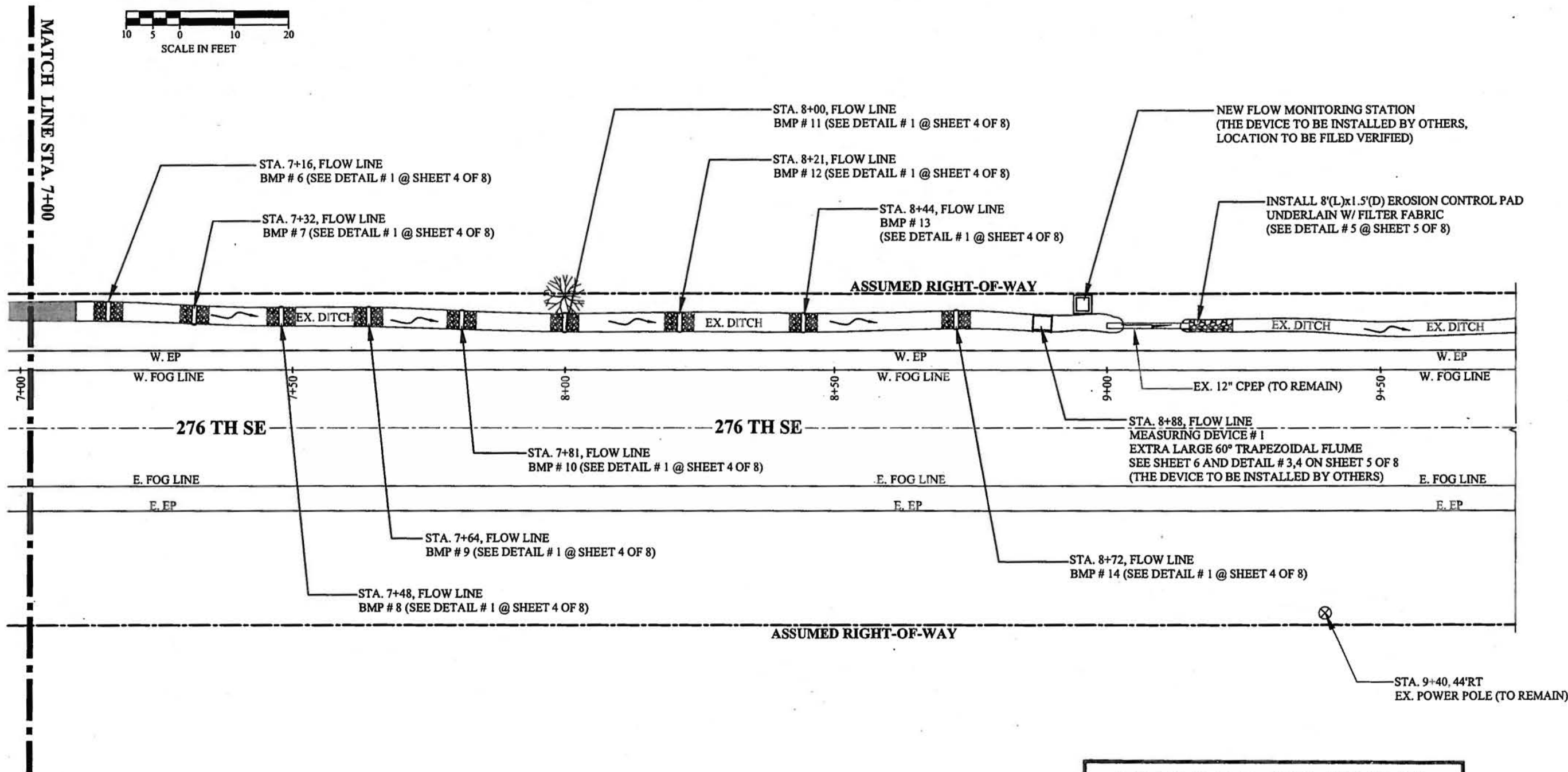


FED. AID No. \_\_\_\_\_  
PROJECT No. \_\_\_\_\_  
SURVEY No. \_\_\_\_\_  
MAINTENANCE DIVISION No. \_\_\_\_\_

TRACKING # 6-0707  
KING COUNTY DEPT. OF TRANSPORTATION  
HAROLD TANIGUCHI, DIRECTOR  
276 TH AVE. SE.  
@ S. OF SE 208 ST (WEST SIDE)  
DRAINAGE DITCH WATER QUALITY IMPROVEMENT  
PLAN (FROM STA. 0+40 TO STA. 3+00)

King County  
SHEET 2 OF 8 SHEETS

# PLAN

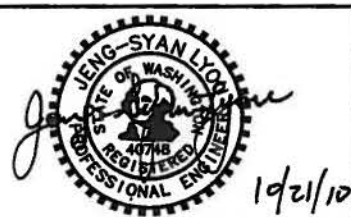


**RECORD DRAWING**

*Jan 12/22/11*

CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555

SURVEYED:	XH, PG, MG	09/07/10							
BASE MAP PLOT:	XH	09/09/10							
DESIGN PLOT:	XH	09/14/10							
CHECKED:	JSL	12/21/10							
FIELD BOOK:									
REVISION		BY	DATE	REVIEWED	DATE				



FED. AID No. \_\_\_\_\_  
PROJECT No. \_\_\_\_\_  
SURVEY No. \_\_\_\_\_  
MAINTENANCE DIVISION No. \_\_\_\_\_

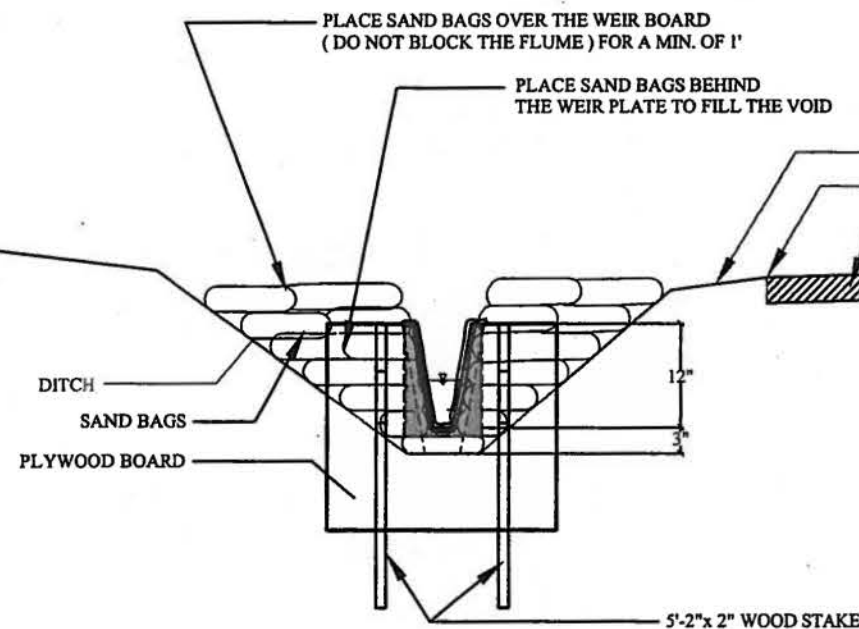
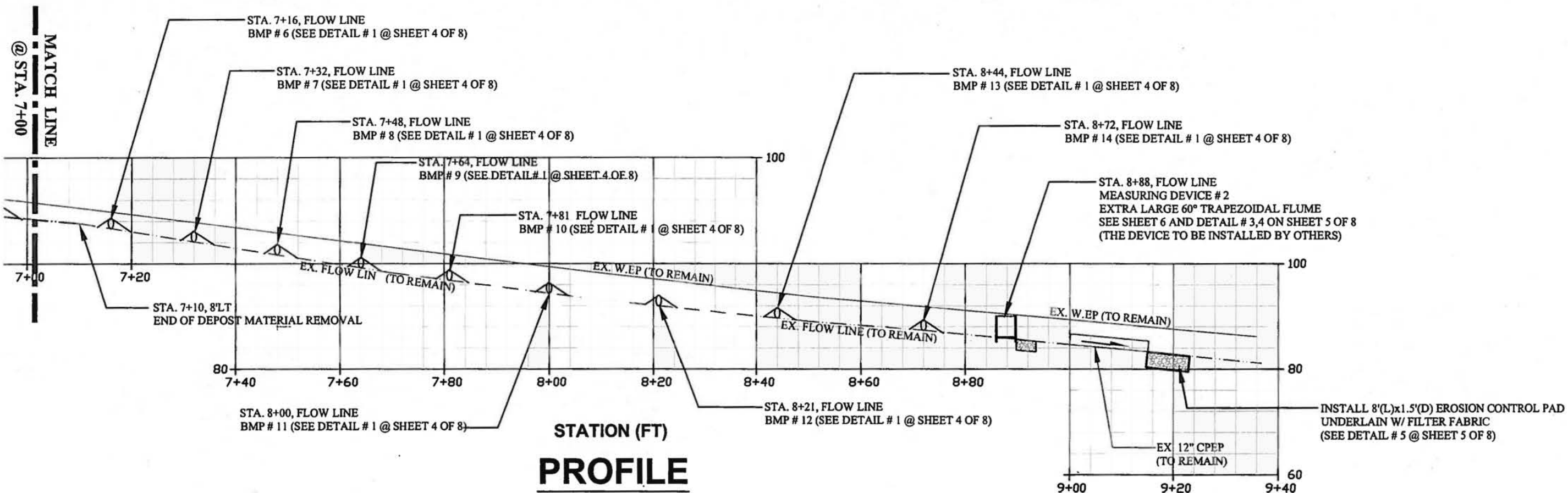
TRACKING # **6-0707**  
KING COUNTY DEPT. OF TRANSPORTATION  
HAROLD TANIGUCHI, DIRECTOR  
**276 TH AVE. SE.**  
**@ S. OF SE 208 ST (WEST SIDE)**  
DRAINAGE DITCH WATER QUALITY IMPROVEMENT  
PLAN (FROM STA. 3+00 TO STA. 5+20)

**King County**  
SHEET  
3  
OF  
8  
SHEETS

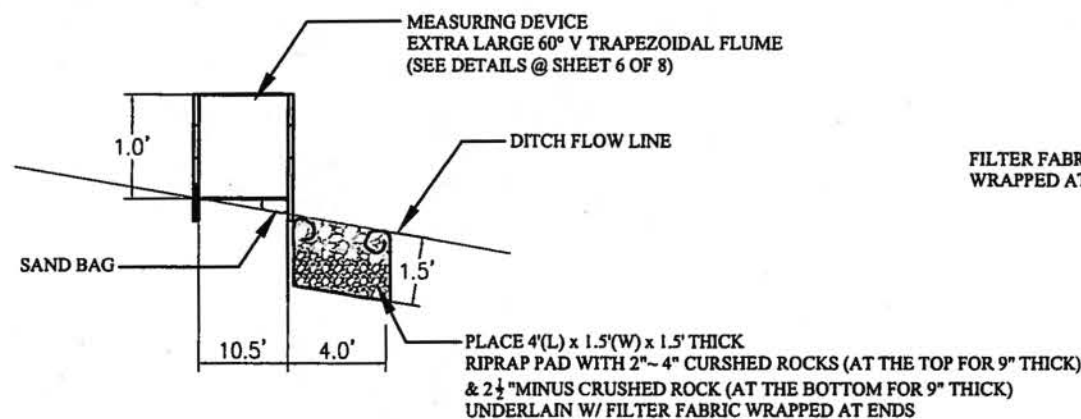




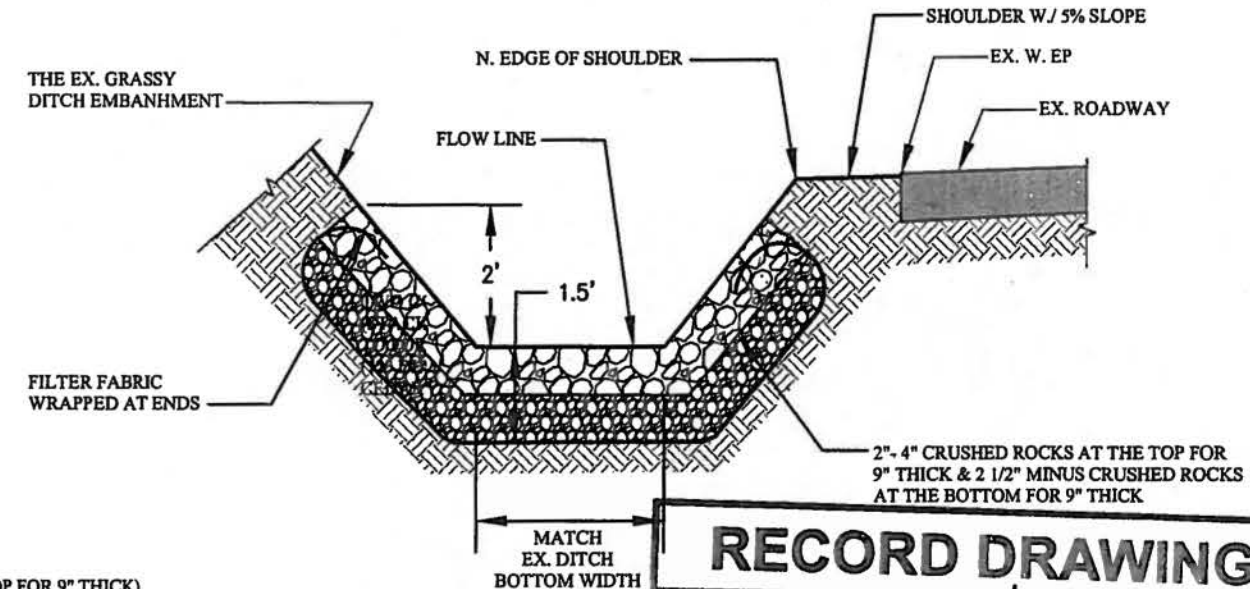




**DETAIL # 3 - MEASURING DEVICE**  
**CROSS SECTION B-B**  
SCALE: N.T.S.



**DETAIL # 4 - MEASURING DEVICE**  
SCALE: N.T.S.



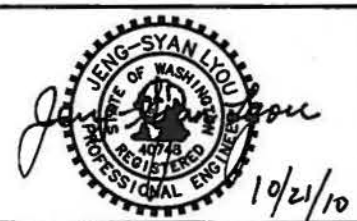
**DETAIL # 5 - TYP. CROSS SECTION**  
**@ EROSION CONTROL PAD**  
SCALE: N.T.S.

**RECORD DRAWING**

CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555



SURVEYED:	XH, PG, MG	09/07/10							
BASE MAP PLOT:	XH	09/09/10							
DESIGN PLOT:	XH	09/14/10							
CHECKED:	JSL	10/21/10							
FIELD BOOK:									
REVISION			BY	DATE	REVIEWED	DATE			



FED. AID No. \_\_\_\_\_

PROJECT No. \_\_\_\_\_

SURVEY No. \_\_\_\_\_

MAINTENANCE DIVISION No. \_\_\_\_\_

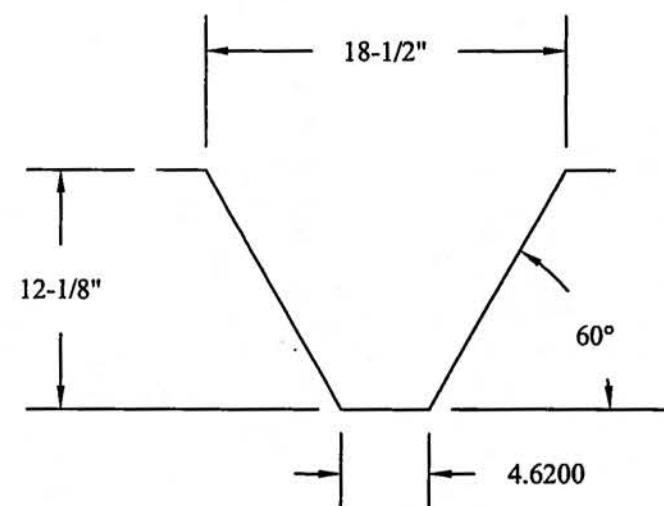
TRACKING # **6-0707**

KING COUNTY DEPT. OF TRANSPORTATION  
HAROLD TANIGUCHI, DIRECTOR

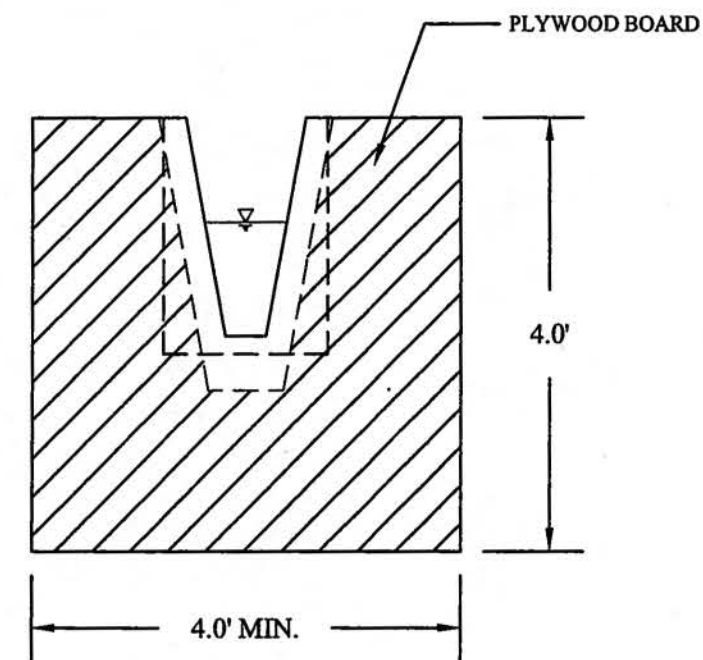
**276 TH AVE. SE.**  
**@ S. OF SE 208 ST (WEST SIDE)**  
DRAINAGE DITCH WATER QUALITY IMPROVEMENT  
PROFILE (FROM STA. 3+00 TO STA. 5+20), DETAILS

**SCALE: N.T.S.**

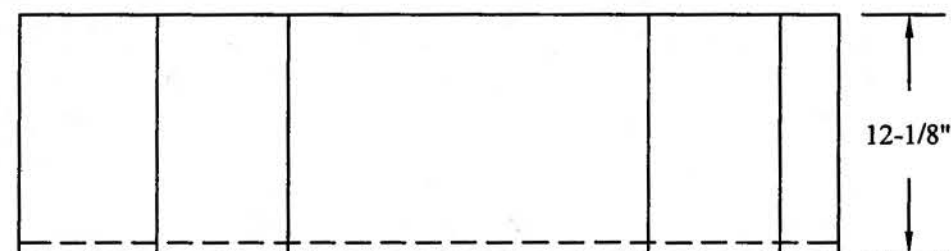
1. MATERIAL IS  $\frac{1}{4}$ " THICK FIBERGLASS.
2. ALL INTERNAL SURFACES ARE FINISHED IN SMOOTH CHEMICAL RESISTANT ISOPHTHALIC WHITE GEL COAT.



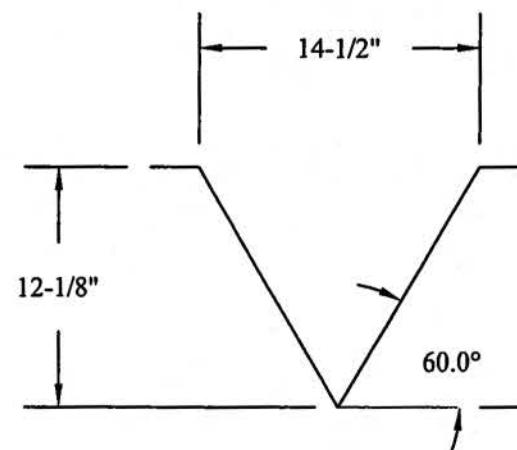
## SECTION D-D



### ELEVATION



## PROFILE



## SECTION E-E

# RECORD DRAWING

Jan 12/22/1

**CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555**

[illegible]

FED. AID No. \_\_\_\_\_

PROJECT No. \_\_\_\_\_

SURVEY No. \_\_\_\_\_

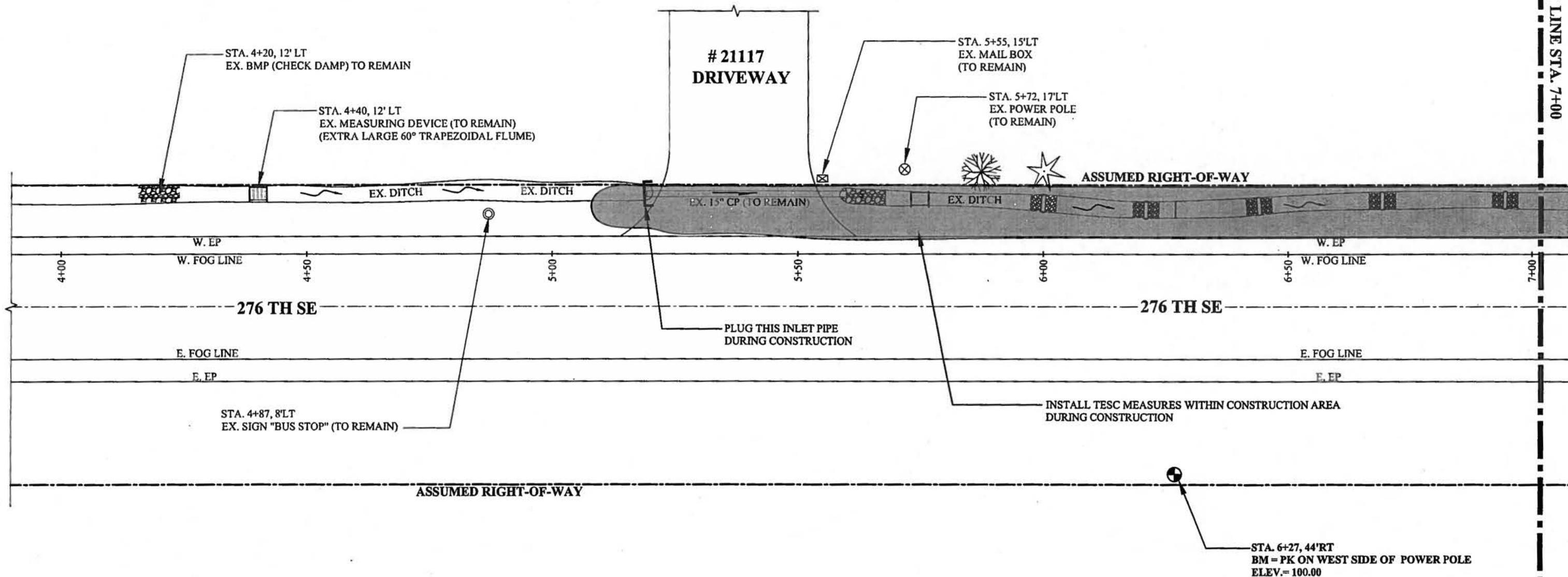
MAINTENANCE DIVISION No. \_\_\_\_\_

TRACKING #  
**6-0707**

KING COUNTY DEPT. OF TRANSPORTATION  
HAROLD TANIGUCHI, DIRECTOR

**276 TH AVE. SE.**  
**@ S. OF SE 208 ST (WEST SIDE)**  
DRAINAGE DITCH WATER QUALITY IMPROVEMENT  
MEASURING DEVIDE DETAILS





## RECORD DRAWING

JK 12/22/11

**CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555**

[illegible]



**MATCH LINE STA. 7+00**

**- INSTALL TESC MEASURES WITHIN CONSTRUCTION AREA DURING CONSTRUCTION**

## INSTALL COFFER DAM DURING CONSTRUCTION

### ASSUMED RIGHT-OF-WAY

W. EP  
W. FOG LINE

**-276 TH SE**

**-276 TH SE**

E. FOG LINE

E. EP

W. EP  
W. FOG LINE

E. FOG LINE

---

E. EP

W. EP

W. FOG LINE

E. FOG LINE

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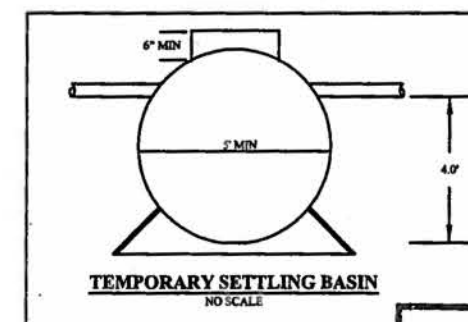
E. FP

STA. 9+40, 44'RT  
EX. POWER POLE (TO REMAIN)

**ASSUMED RIGHT-OF-WAY**

### STANDARD ESC PLAN NOTES

1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
4. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITION. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
5. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
6. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN THE ESC FACILITY . ALL CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
7. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
8. REFER TO ROAD MAINTENANCE BMP GUIDANCE MANUAL FOR INSTRUCTION ON INFORMATION AND CONSTRUCTION OF BMP'S.

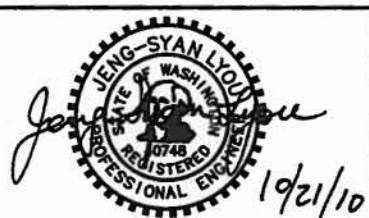


**NOTES:**

1. INSTALL TESC WITHIN CONSTRUCTION AREA.
2. PUMP ANY TURBID WATER INTO THE TEMPORARY SETTING BASIN AND DISPOSE AT AN APPROVED SITE.
3. PUMP ANY CLEAR STORM WATER RUN OFF FROM UPSTREAM TO DOWN STREAM OF THE CONSTRUCTION AREA.
4. REMOVE ALL TESC UPON COMPLETION OF THE CONSTRUCTION.

# RECORD DRAWING

**CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555**

[illegible]

FED. AID No. \_\_\_\_\_

PROJECT No. \_\_\_\_\_

SURVEY No. \_\_\_\_\_

MAINTENANCE DIVISION No. \_\_\_\_\_

TRACKING #  
**6-0707**

KING COUNTY DEPT. OF TRANSPORTATION  
HAROLD TANIGUCHI, DIRECTOR

276 TH AVE. SE.  
@ S. OF SE 208 ST (WEST SIDE)  
DRAINAGE DITCH WATER QUALITY IMPROVEMENT  
TESC PLAN (FROM STA 3+00 TO STA. 5+20)



SHEET  
8  
OF  
8  
SHEETS



**MANAGING ENGINEER:**  
JON CASSIDY 206-296-8148  
**PROJECT MANAGER:**  
JOHN LYOU 206-510-5565  
**PROJECT ENGINEER:**  
XINH HUYNH 206-295-9909

**S-T-R: 35-23N-5E**

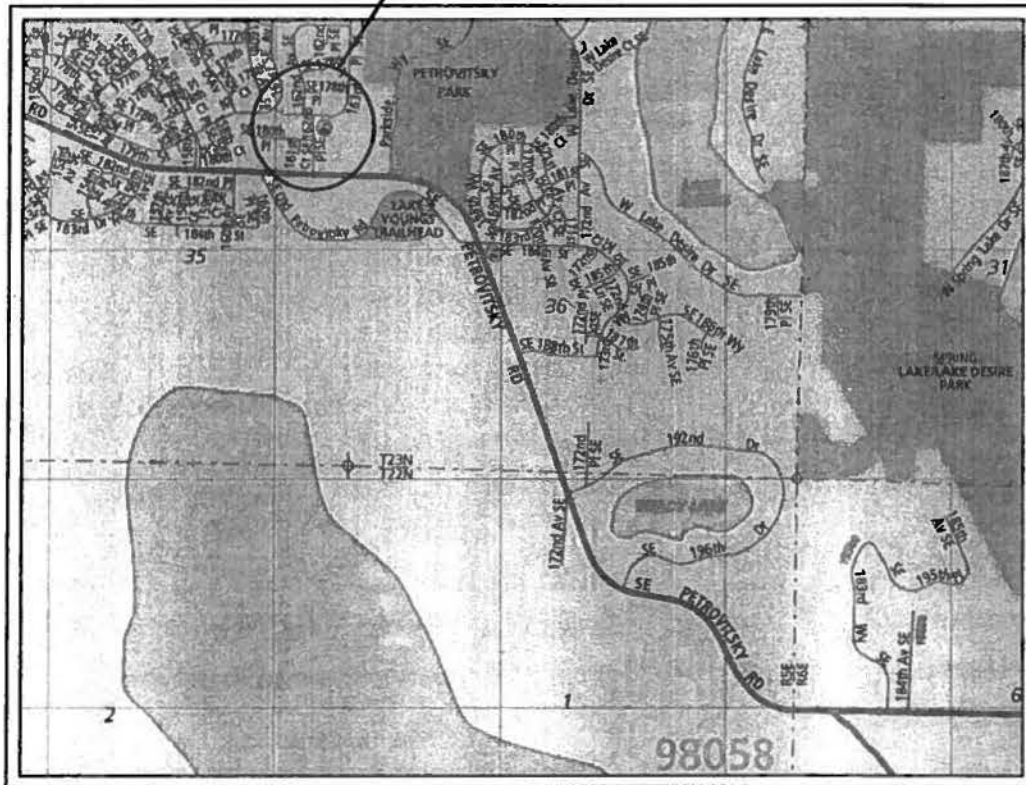
***PRE-CONSTRUCTION MEETING REQUIRED***



**SPECIAL NOTE:**  
**THIS PROJECT WILL BE CONSTRUCTED BY**  
**KING COUNTY ROADS MAINTENANCE CREW**

**VICINITY MAP**  
N.T.S.  
**Thomas Guide: 687-B1**

## - PROJECT LOCATION



## INDEX:


1. COVER SHEET
- 2,3. PLANS
- 4,5. PROFILES, DETAILS
6. MEASURING DEVICE EXTRA LARGE 60° V TRAPEZOIDAL FLUME
- 7,8. TESC PLANS



7/15/10

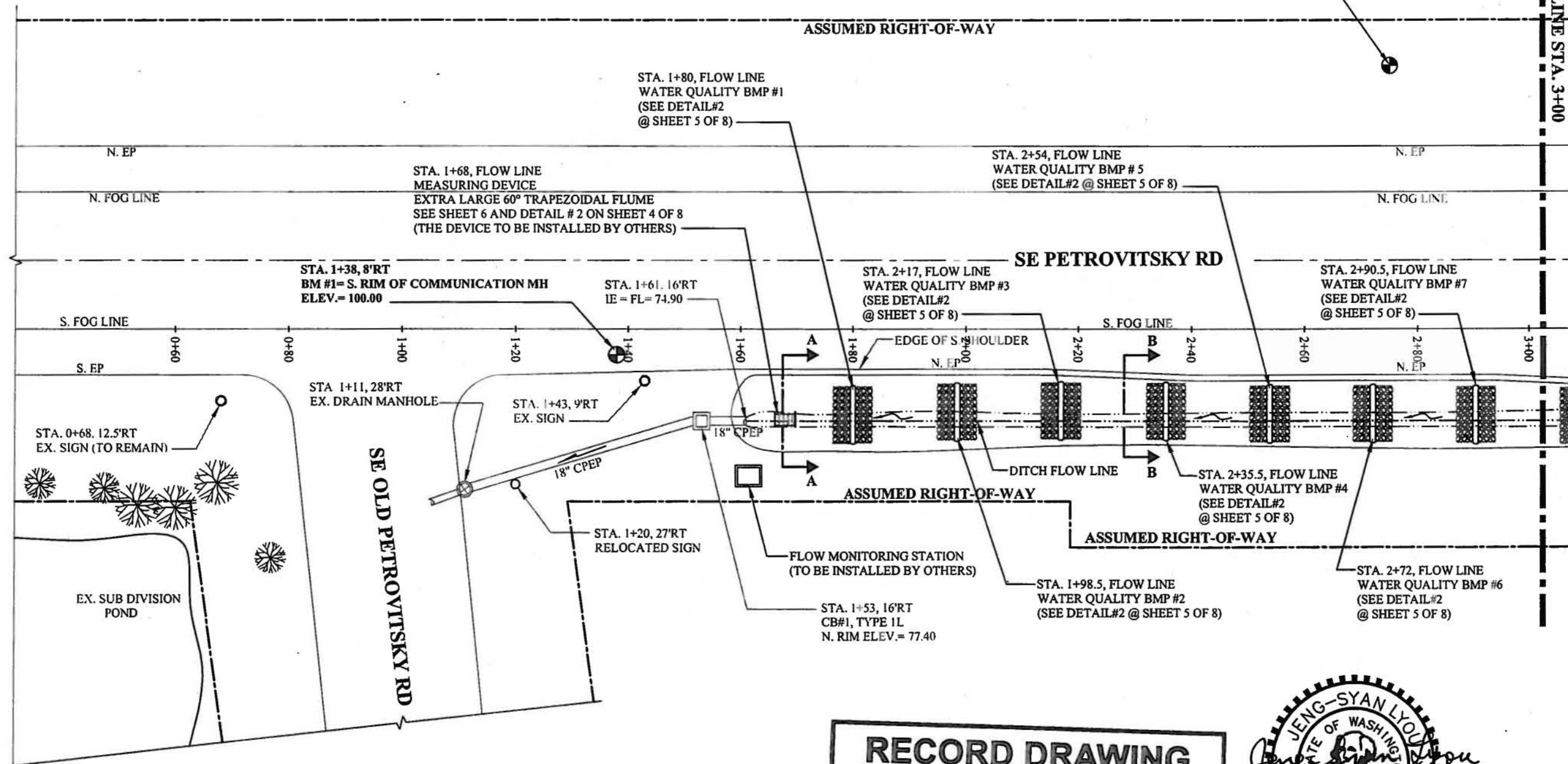
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**CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555**

SURVEYED: JSL & XH	5/12/10					FED. AID No.	TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR	 <b>King County</b>	SHEET 1 OF 8 SHEETS
BASE MAP PLOT: XH	06/24/10					PROJECT No. M44496	6-0641	SE PETROVITSKY RD @ EAST OF SE OLD PETROVITSKY RD DRAINAGE DITCH WATER QUALITY BMP STUDY COVER SHEET		
DESIGN PLOT: XH	07/15/10					SURVEY No.				
CHECKED: JSL	7/15/10					MAINTENANCE DIVISION No.				
FIELD BOOK:										
		REVISION	BY	DATE	REVIEWED	DATE				

# PLAN

SCALE: 1" = 20'



**RECORD DRAWING**

*JSL 12/22/11*



*7/15/10*

CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555

SURVEYED:	JSL & XH	5/12/10							
BASE MAP PLOT:	XH	06/24/10							
DESIGN PLOT:	XH	07/15/10							
CHECKED:	JSL	7/15/10							
FIELD BOOK:									
REVISION			BY	DATE	REVIEWED	DATE			

FED. AID No. \_\_\_\_\_  
PROJECT No. M44496  
SURVEY No. \_\_\_\_\_  
MAINTENANCE DIVISION No. \_\_\_\_\_

TRACKING #  
**6-0641**

KING COUNTY DEPT. OF TRANSPORTATION  
HAROLD TANIGUCHI, DIRECTOR  
**SE PETROVITSKY RD @ EAST OF  
SE OLD PETROVITSKY RD**  
DRAINAGE DITCH WATER QUALITY BMP STUDY  
PLAN (FROM STA. 0+00 TO STA. 3+00)




SHEET  
2  
OF  
8  
SHEETS

**SCALE: 1" = 20'**



7/15/10

**CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555**

SURVEYED: JSL & XH	5/12/10					FED. AID No.	TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR	 <b>King County</b>	SHEET 3 OF 8 SHEETS
BASE MAP PLOT: XH	06/24/10					PROJECT No. M44496	<b>6-0641</b>	<b>SE PETROVITSKY RD @ EAST OF SE OLD PETROVITSKY RD</b> DRAINAGE DITCH WATER QUALITY BMP STUDY PLAN (FROM STA. 3+00 TO STA. 5+20)		
DESIGN PLOT: XH	07/15/10					SURVEY No.				
CHECKED: JSL	7/15/10									
FIELD BOOK:										
REVISION		BY	DATE	REVIEWED	DATE					









**SCALE: N.T.S.**

1. MATERIAL IS  $\frac{1}{4}$ " THICK FIBERGLASS.
2. ALL INTERNAL SURFACES ARE FINISHED IN SMOOTH CHEMICAL RESISTANT ISOPHTHALIC WHITE GEL COAT.



## RECORD DRAWING

**CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555**

SURVEYED: JSL & XH		5/12/10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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**SCALE: 1" = 20'**



5/10

**CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555**

SURVEYED: JSL & XH	5/12/10					
BASE MAP PLOT: XH	06/24/10					
DESIGN PLOT: XH	07/15/10					
CHECKED: JSL	7/15/10					
FIELD BOOK:						
		REVISION	BY	DATE	REVIEWED	DATE

FED. AID No. \_\_\_\_\_

PROJECT No. M44496

SURVEY No. \_\_\_\_\_

MAINTENANCE DIVISION No. \_\_\_\_\_

TRACKING #

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**6-0641**

**KING COUNTY DEPT. OF TRANSPORTATION**  
**HAROLD TANIGUCHI, DIRECTOR**

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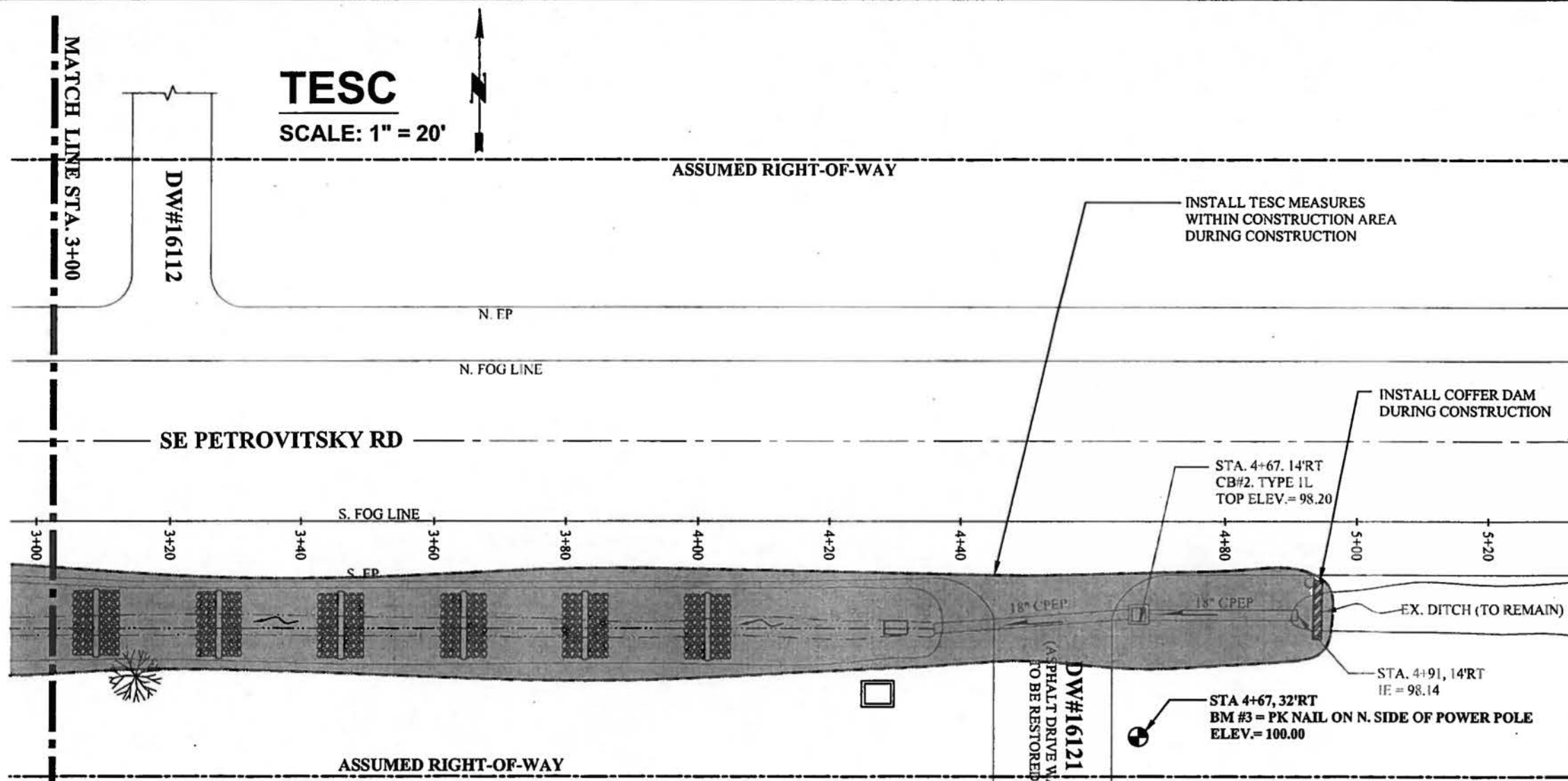
**SE PETROVITSKY RD @ EAST OF  
SE OLD PETROVITSKY RD**  
DRAINAGE DITCH WATER QUALITY BMP STUDY  
TESC PLAN (FROM STA. 0+60 TO STA. 3+00)



**SHEET  
7  
OF  
8  
SHEETS**

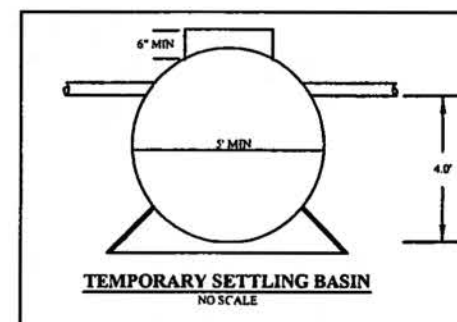


**SCALE: 1" = 20'**



1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
4. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITION. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
5. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
6. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN THE ESC FACILITY. ALL CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
7. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
8. REFER TO ROAD MAINTENANCE BMP GUIDANCE MANUAL FOR INSTRUCTION ON INFORMATION AND CONSTRUCTION OF BMP'S.

1. INSTALL TESC WITHIN CONSTRUCTION AREA.
2. PUMP ANY TURBID WATER INTO THE TEMPORARY SETTING BASIN AND DISPOSE AT AN APPROVED SITE.
3. PUMP ANY CLEAR STORM WATER RUN OFF FROM UPSTREAM TO DOWN STREAM OF THE CONSTRUCTION AREA.
4. REMOVE ALL TESC UPON COMPLETION OF THE CONSTRUCTION.



## RECORD DRAWING

12/22/11



7/15/10

**CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555**

[illegible]

FED. AID No. \_\_\_\_\_

PROJECT No. M44496 .

SURVEY No. \_\_\_\_\_

MAINTENANCE DIVISION No. \_\_\_\_\_

TRACKING #

**6-0641**

KING COUNTY DEPT. OF TRANSPORTATION  
HAROLD TANIGUCHI, DIRECTOR

**SE PETROVITSKY RD @ EAST OF  
SE OLD PETROVITSKY RD**

**DRAINAGE DITCH WATER QUALITY BMP STUDY**  
**TESC PLAN (FROM STA. 3+00 TO STA. 5+20)**



**SHEET  
8  
OF  
8  
SHEETS**



MANAGING ENGINEER:  
JON CASSIDY 206-296-8148  
PROJECT MANAGER:  
JOHN LYOU 206-205-7103  
PROJECT ENGINEER:  
JENNY MA 206-296-8831

S-1 T-22N R-5E

PRE-CONSTRUCTION MEETING REQUIRED



INDEX:

- 1. COVER SHEET
- 2.-3. EXISTING & PROPOSED PLAN
- 4.-5. EXISTING & PROPOSED PROFILE
- 6. CROSS SECTION
- 7. EXTRA LARGE 60° V TRAPEZOIDAL FLUME
- 8.-9. EROSION CONTROL PLAN

SPECIAL NOTE:  
\* THIS PROJECT WILL BE  
CONSTRUCTED BY  
KING COUNTY ROADS  
MAINTENANCE CREW

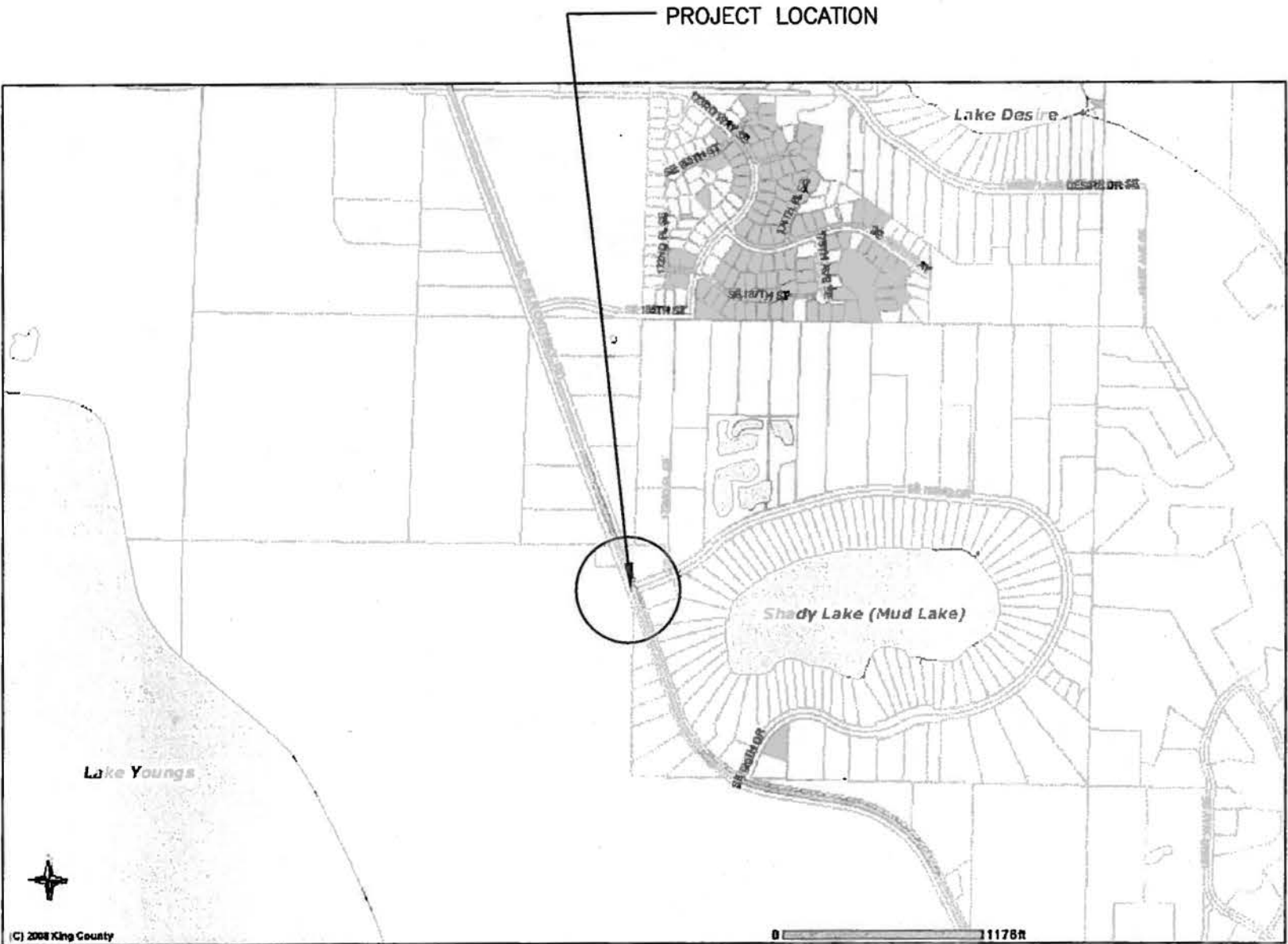


5/11/09


RECORD DRAWING

12/22/11

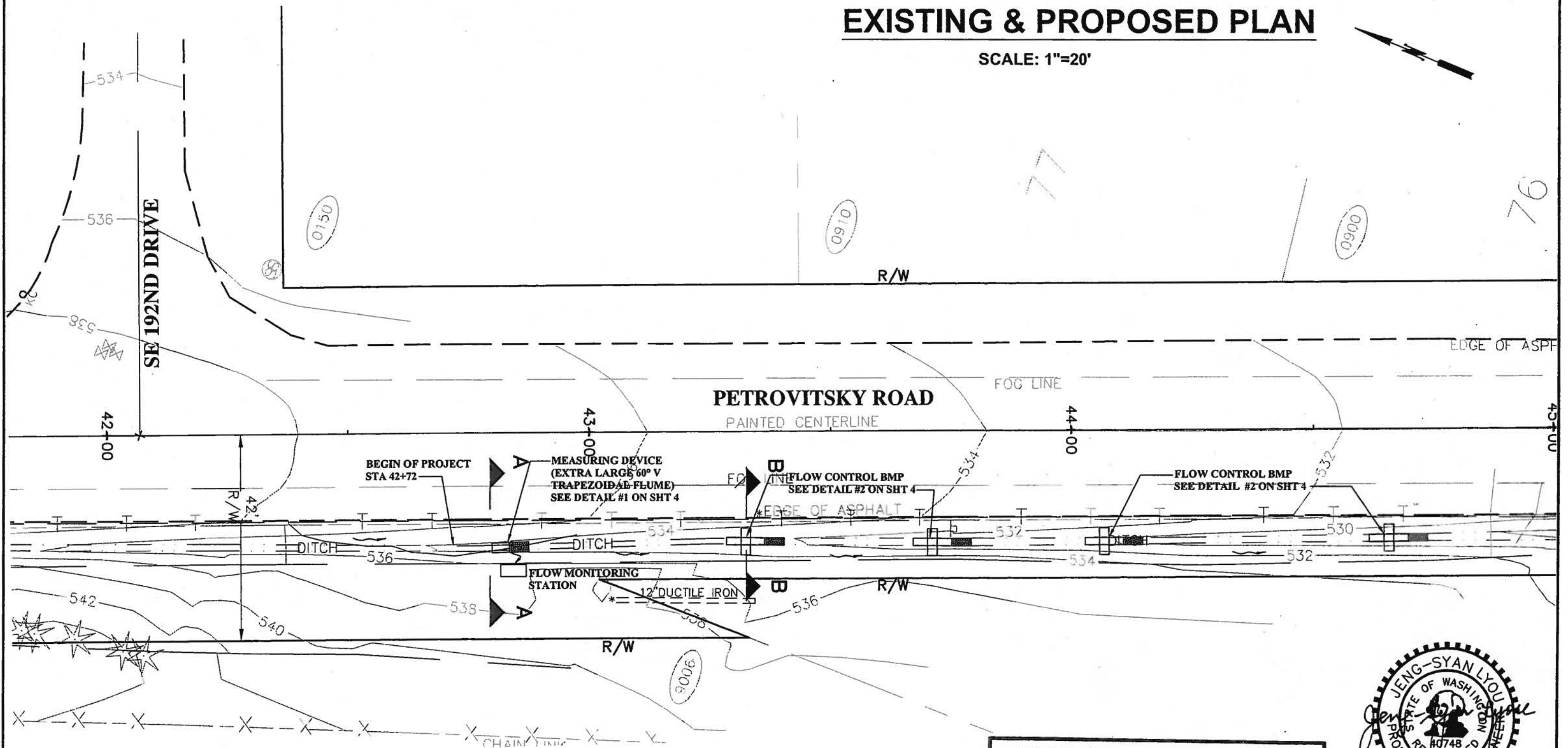
CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555



VICINITY MAP  
N.T.S.  
Thomas Guide: 687-C3

SURVEYED: PENDERGAST 11/18/08								FED. AID No. _____	TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION	 King County	SHEET 1 OF 9 SHEETS
BASE MAP PLOT: RM 12/29/08								PROJECT No. M20511	6-0568	Petrovitsky Road @ 17201		
DESIGN PLOT: JM 04/07/09								SURVEY No. _____		DRAINAGE DITCH FLOW CONTROL BMP STUDY		
CHECKED: JSL 5/11/09								MAINTENANCE DIVISION No. _____		COVER SHEET		
FIELD BOOK: _____												
	REVISION	BY	DATE	REVIEWED	DATE							


**SCALE: 1"=20'**



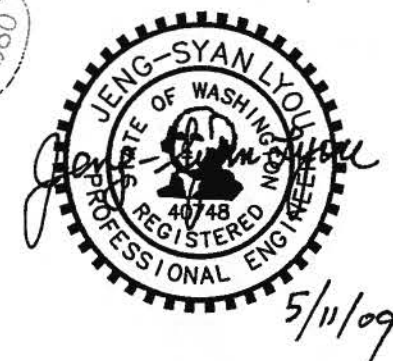
Jan 12/22/11




**CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555**

SURVEYED: <u>PENDERGAST</u> <u>11/18/08</u> BASE MAP PLOT: <u>RH</u> <u>12/29/08</u> DESIGN PLOT: <u>JH</u> <u>04/07/09</u> CHECKED: <u>JSL</u> <u>5/11/09</u> FIELD BOOK: _____		REVISION BY DATE REVIEWED DATE				FED. AID No. _____ PROJECT No. <u>M20511</u> SURVEY No. _____ MAINTENANCE DIVISION No. _____		TRACKING # <b>6-0568</b>		KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR <b>Petrovitsky Road @ 17201</b> DRAINAGE DITCH FLOW CONTROL BMP STUDAY EXISTING & PROPOSED PLAN		 SHEET 2 OF 9 SHEETS	
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**SCALE: 1"=20'**



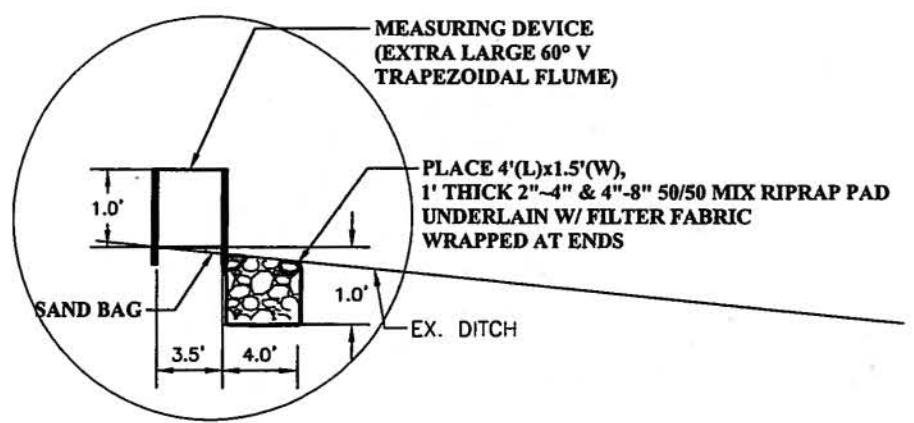
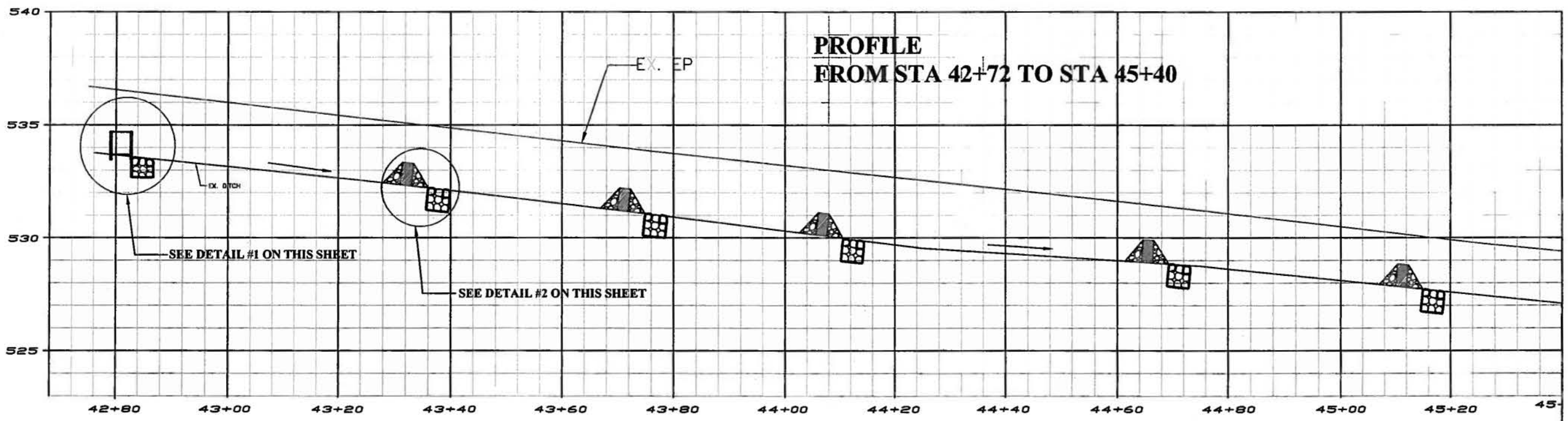
**CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555**

SURVEYED: <u>PENDERGAST</u> <u>11/18/08</u> BASE MAP PLOT: <u>RM</u> <u>12/29/08</u> DESIGN PLOT: <u>JM</u> <u>04/07/09</u> CHECKED: <u>msl</u> <u>5/11/09</u> FIELD BOOK: _____		REVISION BY DATE REVIEWED DATE				FED. AID No. _____ PROJECT No. <u>M20511</u> SURVEY No. _____ MAINTENANCE DIVISION No. _____		TRACKING # <div style="font-size: 2em; font-weight: bold;">6-0568</div>		KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR <div style="text-align: center; font-weight: bold;">Petrovitsky Road @ 17201</div> DRAINAGE DITCH FLOW CONTROL BMP STUDAY EXISTING & PROPOSED PLAN		 <div style="text-align: center; font-weight: bold;">King County</div>		SHEET <div style="font-size: 2em; font-weight: bold;">3</div> OF <div style="font-size: 2em; font-weight: bold;">9</div> SHEETS	
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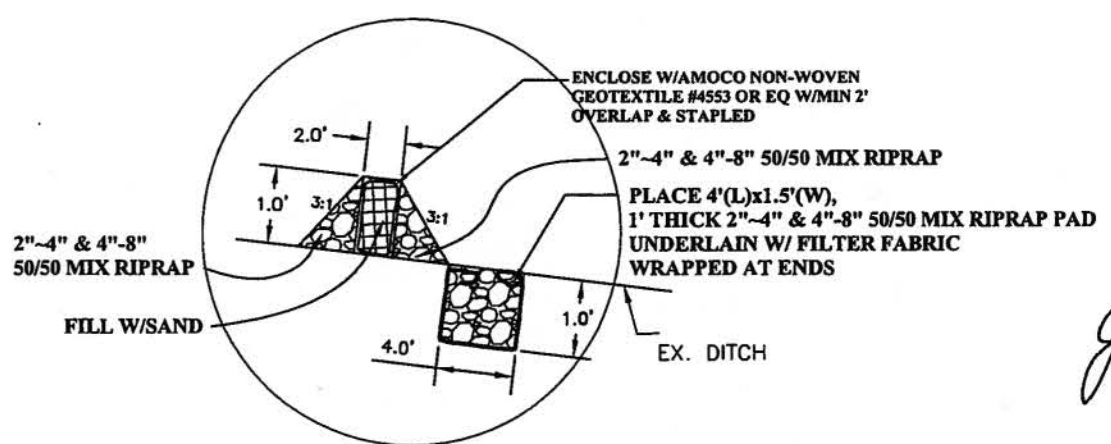


# EXISTING & PROPOSED PROFILE

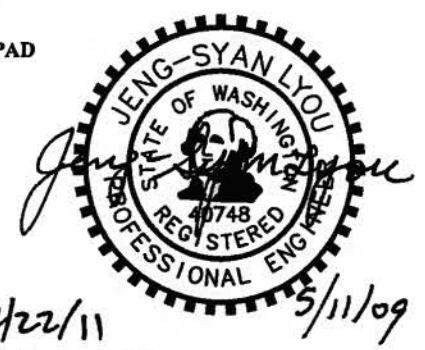
SCALE:  
HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'



**DETAIL #1- MEASURING DEVICE**



**DETAIL #2 - FLOW CONTROL**  
N.T.S.



**RECORD DRAWING**

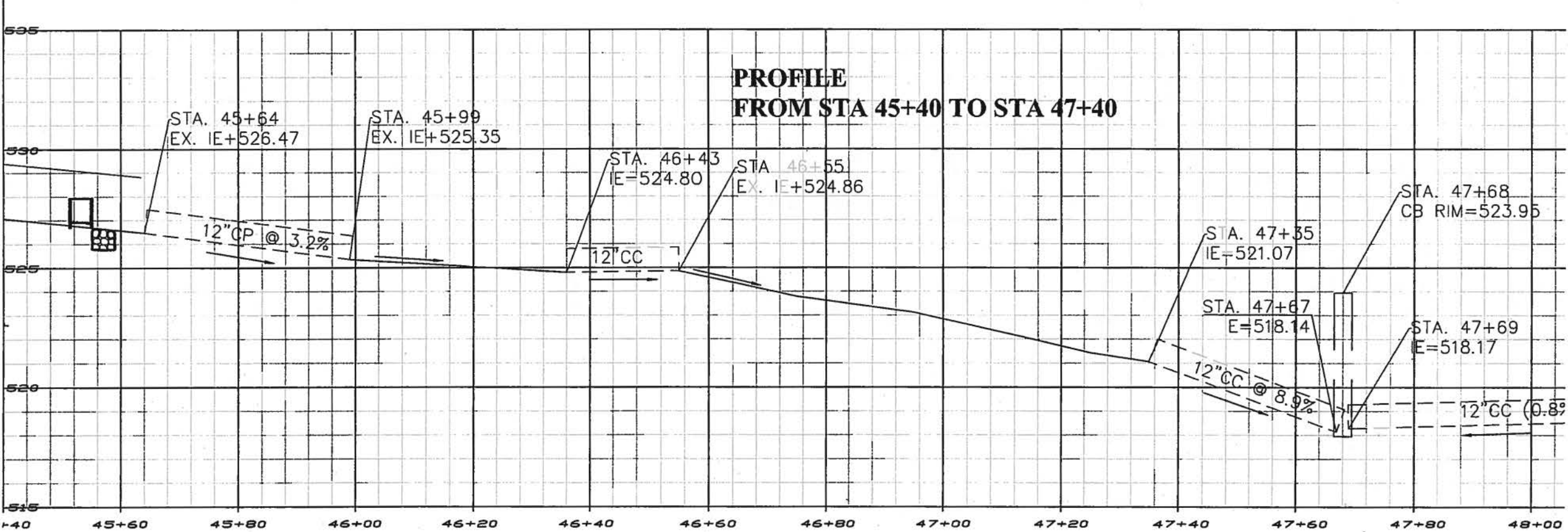
CALL 2 DAYS BEFORE YOU DIG  
1-800-424-5555

SURVEYED: PENDERGAST 11/18/08 BASE MAP PLOT: RM 12/29/08 DESIGN PLOT: JM 04/07/09 CHECKED: JSL 5/11/09 FIELD BOOK:		REVISION BY DATE REVIEWED DATE		FED. AID No. PROJECT No. M20511 SURVEY No. MAINTENANCE DIVISION No.		TRACKING # <b>6-0568</b>		KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR <b>Petrovitsky Road @ 17201</b> DRAINAGE DITCH FLOW CONTROL BMP STUDAY EXISTING & PROPOSED PROFILE		SHEET 4 OF 9 SHEETS <b>King County</b>	
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# EXISTING & PROPOSED PROFILE


SCALE:  
HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'



**RECORD DRAWING**



CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555

SURVEYED: PENDERGAST 11/18/08						FED. AID No.	TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION	 King County	SHEET 5 OF 9 SHEETS
BASE MAP PLOT: RM 12/29/08						PROJECT No. M20511	6-0568	HAROLD TANIGUCHI, DIRECTOR		
DESIGN PLOT: JH 04/07/09						SURVEY No.		Petrovitsky Road @ 17201		
CHECKED: JSL 5/11/09						MAINTENANCE DIVISION No.		DRAINAGE DITCH FLOW CONTROL BMP STUDY		
FIELD BOOK:								EXISTING & PROPOSED PROFILE		
REVISION	BY	DATE	REVIEWED	DATE						

# CROSS SECTION

C. OF ROAD  
148TH AVE SE

EX. TOP OF DITCH  
EX. EAST EP  
EX. PAVEMENT

SAND BAGS  
EX. DITCH  
PLYWOOD BOARD  
STEEL BAR  
EX. DITCH SAND BAGS  
1.0'  
3"  
2.0'  
4-1/5"  
1.1'  
4.8'

## SECTION A-A MEASURING DEVICE (TYPICAL)

N.T.S

## RECORD DRAWING



5/11/09

CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555

11/22/11



King County

SHEET  
6  
OF  
9  
SHEETS

TRACKING # KING COUNTY DEPT. OF TRANSPORTATION  
HAROLD TANIGUCHI, DIRECTOR  
**6-0568**  
Petrovitsky Road @ 17201  
DRAINAGE DITCH FLOW CONTROL BMP STUDAY  
CROSS SECTION

FED. AID No. \_\_\_\_\_  
PROJECT No. M20511  
SURVEY No. \_\_\_\_\_  
MAINTENANCE DIVISION No. \_\_\_\_\_

## SECTION B-B (TYPICAL)

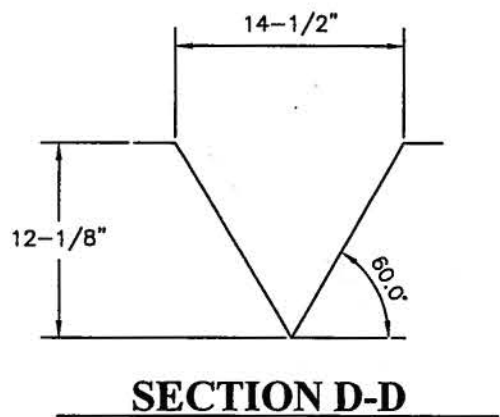
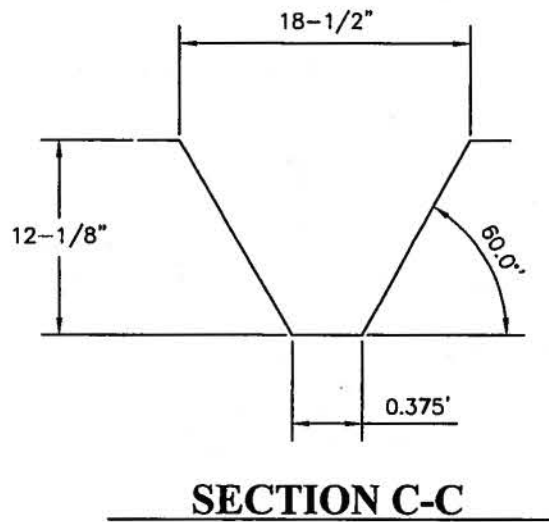
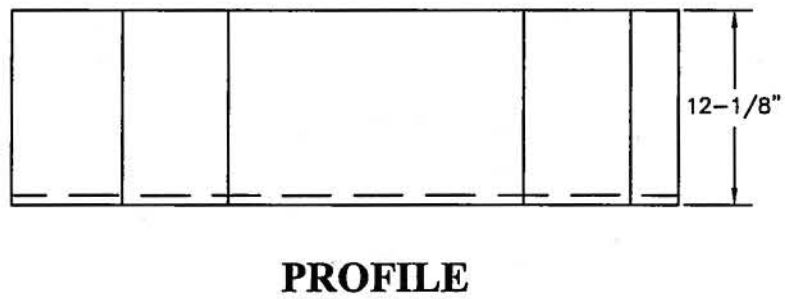
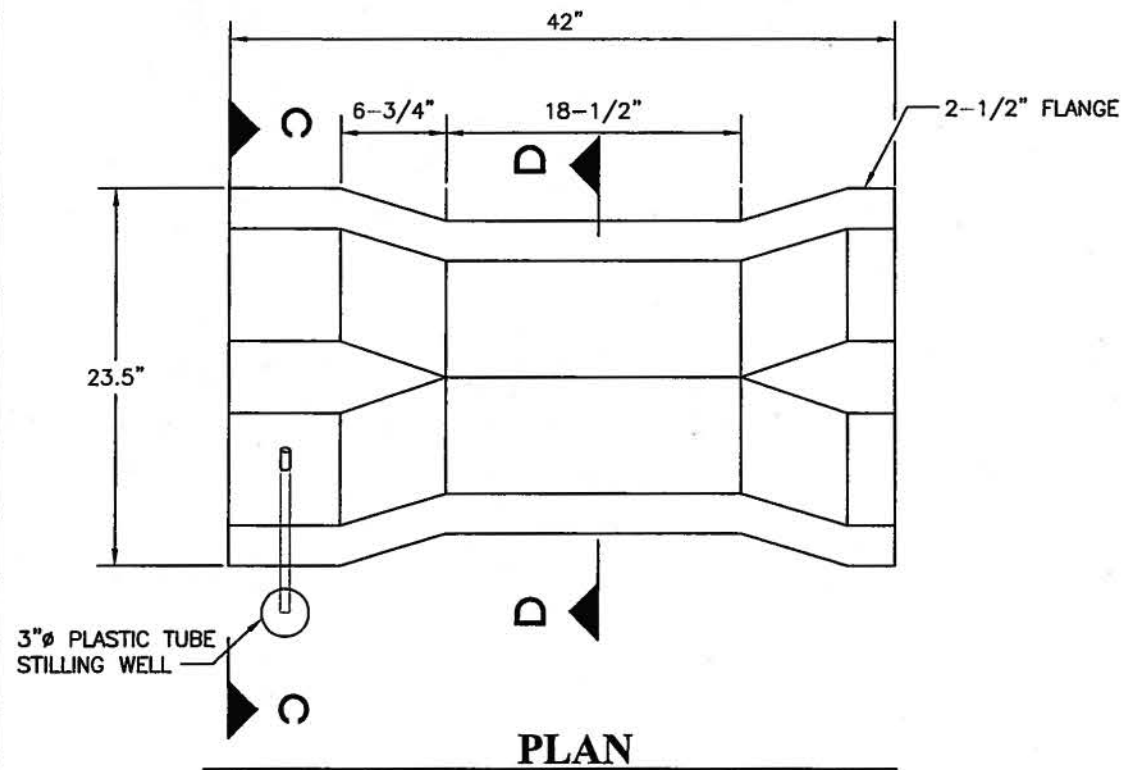
N.T.S

DITCH  
2' MIN OVERLAP & STAPLED TOGETHER  
0.3'  
2"~4" RIPRAP  
AMOCO NON-WOVEN #4553 FILTER FABRIC  
WATER QUALITY BMP  
FILLED W/SAND  
1'

SURVEYED: PENDERGAST 11/18/08					
BASE MAP PLOT: RM 12/29/08					
DESIGN PLOT: JM 04/07/09					
CHECKED: JSL 5/11/09					
FIELD BOOK:					
REVISION	BY	DATE	REVIEWED	DATE	

EXTRA LARGE 60° V TRAPEZOIDAL FLUME

SCALE: 1"=1'



NOTES:


- 1. MATERIAL IS 1/4" THICK FIBERGLASS.
- 2. ALL INTERNAL SURFACES ARE FINISHED IN SMOOTH CHEMICAL RESISTANT ISOPHTHALIC WHITE GEL COAT.

RECORD DRAWING



12/22/11

CALL 2 DAYS BEFORE YOU DIG  
1-800-424-5555

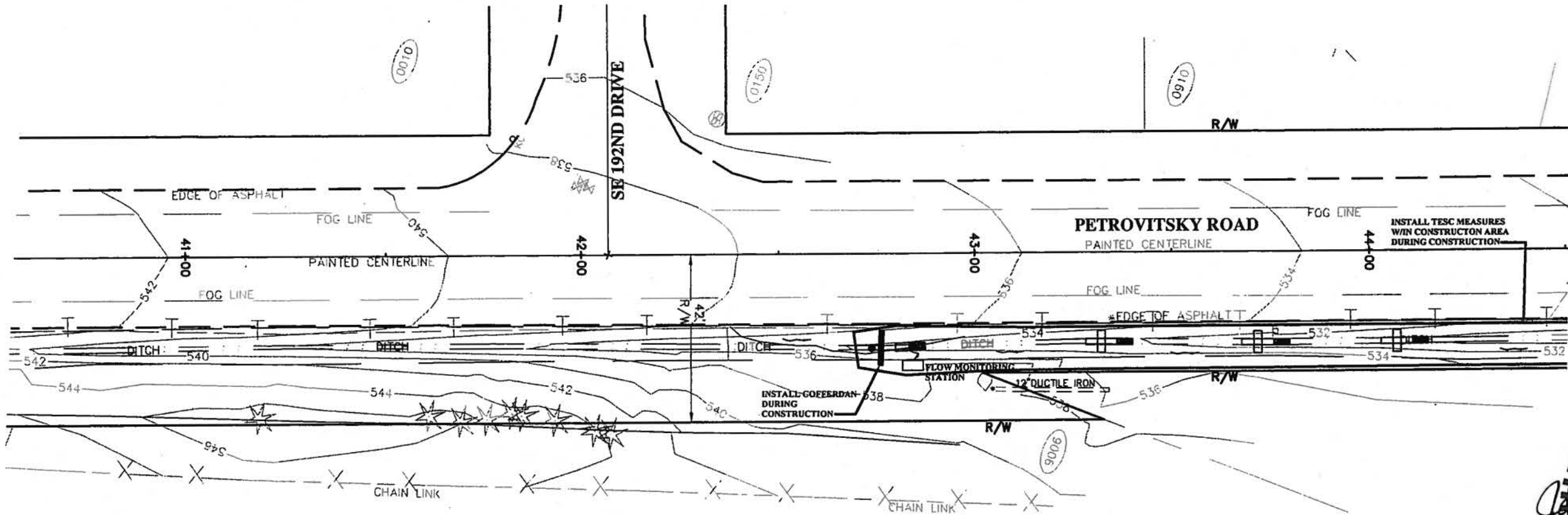
SURVEYED: PENDERGAST 11/18/08										FED. AID No. _____	TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR	 King County	SHEET 7 OF 9 SHEETS
BASE MAP PLOT: RM 12/29/08										PROJECT No. M20511	6-0568	Petrovitsky Road @ 17201 DRAINAGE DITCH FLOW CONTROL BMP STUDAY EXTRA LARGE 60° V TRAPEZOIDAL FLUME		
DESIGN PLOT: JM 04/07/09										SURVEY No. _____				
CHECKED: JSL 5/11/09										MAINTENANCE DIVISION No. _____				
FIELD BOOK: _____														
REVISION										BY				
										DATE				
										REVIEWED				
										DATE				

STANDARD ESC PLAN NOTES

- 1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- 2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- 3. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- 4. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITION. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
- 5. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- 6. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN THE ESC FACILITY. ALL CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- 7. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
- 8. REFER TO ROAD MAINTENANCE BMP GUIDANCE MANUAL FOR INSTRUCTION ON INFORMATION AND CONSTRUCTION OF BMP'S.

EROSION CONTROL PLAN

SCALE: 1"=30'




RECORD DRAWING



5/11/09

Jan 12/22/11

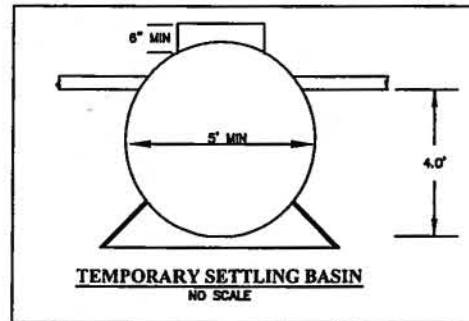
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SURVEYED: PENDERGAST 11/18/08						FED. AID No. _____	TRACKING #	KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR	 King County	SHEET 8 OF 9 SHEETS
BASE MAP PLOT: RM 12/29/08						PROJECT No. M20511	6-0568	Petrovitsky Road @ 17201 DRAINAGE DITCH FLOW CONTROL BMP STUDAY EROSION CONTROL PLAN AND DETAIL		
DESIGN PLOT: JM 04/07/09						SURVEY No. _____				
CHECKED: JSL 5/11/09						MAINTENANCE DIVISION No. _____				
FIELD BOOK: _____										
REVISION						BY	DATE	REVIEWED	DATE	



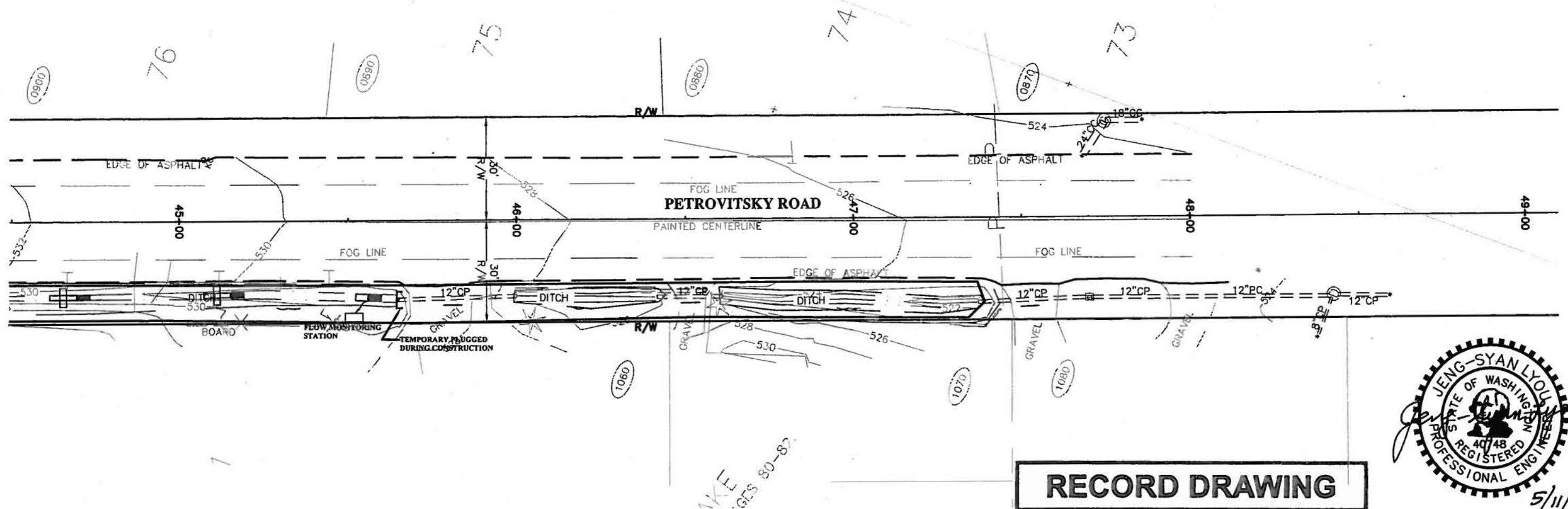
# EROSION CONTROL PLAN

SCALE: 1"=30'



## NOTES:

1. IF NECESSARY, PUMP ANY TURBID WATER FROM EXCAVATED AREAS TO TEMPORARY SETTLING BASIN.
2. VACUUM TEMPORARY SETTLING BASIN AND DISPOSE TO AN APPROVED SITE.
3. IF NECESSARY, PUMP CLEAN WATER FROM UPSTREAM TO DOWNSTREAM OF THE PROJECT AREA.
4. REMOVE ALL BMP'S AFTER COMPLETION OF THIS PROJECT.



5/11/09

12/22/11

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BEFORE YOU DIG  
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SURVEYED: PENDERGAST 11/18/08				FED. AID No. _____		TRACKING #		KING COUNTY DEPT. OF TRANSPORTATION		SHEET 9 OF 9 SHEETS	
BASE MAP PLOT: RM 12/29/08				PROJECT No. M20511		6-0568		HAROLD TANIGUCHI, DIRECTOR		King County	
DESIGN PLOT: JM 04/07/09				SURVEY No. _____				Petrovitsky Road @ 17201			
CHECKED: JSL 5/11/09				MAINTENANCE DIVISION No. _____				DRAINAGE DITCH FLOW CONTROL BMP STUDY			
FIELD BOOK: _____								EROSION CONTROL PLAN AND DETAIL			
REVISION		BY		DATE		REVIEWED		DATE			