

**Amendment #1
to the**

**Sabine River Authority
Clean Rivers Program
FY 2002/2003
Quality Assurance Project Plan**

Prepared in cooperation with the Sabine River Authority and the Texas Natural Resource Conservation Commission under the authorization of the Texas Clean Rivers Act.

**Sabine River Authority
1895 Owens-Illinois Rd.
Orange, Tx. 77632**

Clean Rivers Program
Technical Analysis Division
Texas Natural Resource Conservation Commission
P.O. Box 13087, MC - 147
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Questions concerning this amendment should be directed to:

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Amended December 4, 2001

Justification: Methods for determination of metals in sediment by ICP were incorrect.

Summary of Changes:

Table A7.1

Detail of Changes: In Table A7.1 the methods for the determination of metals in sediment by ICP were changed from EPA 200.7 ICP/200.8 ICP-MS to SW-846 6010 ICP/6020 ICP-MS. Please find the amended pages of Table A7.1 attached to this document.

These changes will be incorporated into the QAPP document. TNRCC and the Planning Agency will acknowledge and accept these changes by signing this amendment.

Gerard Sala, Sabine River Authority, Project Manager

Date

Leigh-ann arena, Sabine River Authority, QAO

Date

Eric Reese, CRP Project Manager

Date

Bernard Ray, CRP Lead QAS

Date

Laurie Curra, CRP Project QAS

Date

Table A7.1

PARAMETER	UNITS	MATRIX	METHOD	STORET	AWRL	PRECISION of laboratory duplicates (RPD)	ACCURACY of calibration control stds. AWRLS (%Rec.)	ACCURACY of lab matrix spikes (%Rec.)	LABORATORY PERFORMING ANALYSIS
Metals Continued									
Chromium, dissolved	ug/L	water	EPA 200.7 ICP/ EPA 200.8 ICP-MS	01030	10	10	75-125	75-125	SRA
Copper, dissolved	ug/L	water	EPA 200.7 ICP/ EPA 200.8 ICP-MS	01040	1 for waters <50 mg/L hardness 3 for waters ≥50 mg/L hardness	10	75-125	75-125	SRA
Lead, dissolved	ug/L	water	EPA 239.2 GFAA/ EPA 200.8 ICP-MS	01049	0.1 for waters < 85 mg/L hardness 1 for waters ≥85mg/L hardness	10	75-125	75-125	SRA
Nickel, dissolved	ug/L	water	EPA 200.7 ICP/ EPA 200.8 ICP-MS	01065	10	10	75-125	75-125	SRA
Selenium, total	ug/L	water	EPA 270.2 GFAA/ EPA 200.8 ICP-MS	01147	2	10	75-125	75-125	SRA
Silver, dissolved	ug/L	water	EPA 272.2 GFAA/ EPA 200.8 ICP-MS	01075	0.5	10	75-125	75-125	SRA
Zinc, dissolved	ug/L	water	EPA 200.7 ICP/ EPA 200.8 ICP-MS	01090	5	10	75-125	75-125	SRA
Metals in Sediment									
Arsenic in sediment	mg/kg	sediment	SW 846 7061/ 6020 ICP-MS	01003	7	10	75-125	75-125	SRA
Barium in sediment	mg/kg	sediment	SW 846 6010 ICP/ 6020 ICP-MS	01008	200	10	75-125	75-125	SRA
Cadmium in sediment	mg/kg	sediment	SW 846 7131/ 6020 ICP-MS	01028	0.6	10	75-125	75-125	SRA
Chromium in sediment	mg/kg	sediment	SW 846 6010 ICP/ 6020 ICP-MS	01029	21	10	75-125	75-125	SRA

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PARAMETER	UNITS	MATRIX	METHOD	STORET	AWRL	PRECISION of laboratory duplicates (RPD)	ACCURACY of calibration control stds. AWRLS (%Rec.)	ACCURACY of lab matrix spikes (%Rec.)	LABORATORY PERFORMING ANALYSIS
Metals in Sediment Continued									
Copper in sediment	mg/kg	sediment	SW 846 6010 ICP/ 6020 ICP-MS	01043	14	10	75-125	75-125	SRA
Lead in sediment	mg/kg	sediment	SW 846 7420/ 6020 ICP-MS	01052	20	10	75-125	75-125	SRA
Mercury in sediment	mg/kg	sediment	SW 846 7471/ 6020 ICP-MS	71921	0.1	10	75-125	75-125	SRA
Nickel in sediment	mg/kg	sediment	SW 846 6010 ICP/ 6020 ICP-MS	01068	15	10	75-125	75-125	SRA
Selenium in sediment	mg/kg	sediment	SW 846 7740/ 6020 ICP-MS	01148	1	10	75-125	75-125	SRA
Silver in sediment	mg/kg	sediment	SW 846 7760/ 6020 ICP-MS	01078	0.5	10	75-125	75-125	SRA
Zinc in sediment	mg/kg	sediment	SW 846 6010 ICP/ 6020 ICP-MS	01093	64	10	75-125	75-125	SRA
Ambient Toxicity			Toxnet						
Ceriodaphnia dubia-Acute	1-toxic 2-sublethal 3-No toxicity	Water	EPA/600/4-90/027F	89808	NA	NA	NA	NA	SRA
Daphnia pulex-Acute	1-toxic 2-sublethal 3-No toxicity	Water	EPA/600/4-90/027F	89807	NA	NA	NA	NA	SRA
Pimephales promelas-Acute	1-toxic 2-sublethal 3-No toxicity	Water	EPA/600/4-90/027F	89809	NA	NA	NA	NA	SRA
Menidia beryllina-Acute	1-toxic 2-sublethal 3-No toxicity	Water	EPA/600/4-90/027F	89812	NA	NA	NA	NA	SRA
Mysidopsis bahia-Acute	1-toxic 2-sublethal 3-No toxicity	Water	EPA/600/4-90/027F	89811	NA	NA	NA	NA	SRA
Ceriodaphnia dubia-Chronic	1-toxic 2-sublethal 3-No toxicity	Water	EPA/600/4-91/002	89802	NA	NA	NA	NA	SRA
Daphnia pulex-Chronic	1-toxic 2-sublethal 3-No toxicity	Water	EPA/600/4-91/002	89801	NA	NA	NA	NA	SRA
Pimephales promelas-Chronic	1-toxic 2-sublethal 3-No toxicity	Water	EPA/600/4-91/002	89803	NA	NA	NA	NA	SRA
Menidia beryllina-Chronic	1-toxic 2-sublethal 3-No toxicity	Water	EPA/600/4-91/003	89806	NA	NA	NA	NA	SRA
Mysidopsis bahia-Chronic	1-toxic 2-sublethal 3-No toxicity	Water	EPA/600/4-91/003	89805	NA	NA	NA	NA	SRA
Rapid Bioassessment	None	NA	EPA/444/4-89-001	NA	NA	NA	NA	NA	SRA