Changes mode 2/25/05

Changes from Region 4 August 2004 submittal package for LA/LB Harbor based on revised sediment quality guidelines in the final Listing Policy. S. Birosik

1115

• Los Angeles Harbor – Cabrillo Marina Mercury (sediment)

Do not list for mercury in sediment. Only three of 24 sediment core samples exceeded the sediment quality guideline.

Los Angeles Harbor – Cabrillo Marina Chrysene (sediment)

List for chrysene in sediment. Four out of 23 (17%) sediment core samples exceeded sediment quality guidelines.

Los Angeles Harbor – Cabrillo Marina Phenanthrene (sediment)

List for phenanthrene in sediment. Two of 12 (17%) sediment core samples exceeded sediment quality guidelines.

• Los Angeles Harbor – Cabrillo Marina Pyrene (sediment)

List for pyrene in sediment. Four of 16 (25%) sediment core samples exceeded sediment quality guidelines.

• Los Angeles Harbor – Cabrillo Marina
Low molecular weight polycyclic aromatic hydrocarbons (sediment)

List for LPAH in sediment. Two of 13 (15%) sediment core samples exceeded sediment quality guidelines

Dominguez Channel Estuary (unlined portion below Vermont)
 Benzo(a)anthracene (sediment)

List for benzo(a)anthracene in sediment. Eight out of 41 (20%) sediment core samples exceeded sediment quality guidelines.

• Dominguez Channel Estuary (unlined portion below Vermont)
Benzo(a)pyrene (sediment)

List for benzo(a)pyrene in sediment. Seven out of 41 (17%) sediment core samples exceeded sediment quality guidelines.

Dominguez Channel Estuary (unlined portion below Vermont)
 Chrysens (sediment)

List for chrysene in sediment. Eight out of 41 (20%) sediment core samples exceeded sediment quality guidelines.

Dominguez Channel Estuary (unlined portion below Vermont)
 Phenanthrene (sediment)

List for phenanthrene in sediment. Nine out of 41 (22%) sediment core samples exceeded sediment quality guidelines.

Dominguez Channel Estuary (unlined portion below Vermont)
 Pyrene (sediment)

List for pyrene in sediment. Thirteen out of 41 (32%) sediment core samples exceeded sediment quality guidelines.

## Corrections/clarifications:

- Fact sheets previously submitted under "San Pedro Bay (outside breakwater)" should be entitled "San Pedro Bay Near/Off Shore Zones". The parenthetical "outside breakwater" term had been added originally to make it clear the listing was not referring to the Outer Harbor which is inside the breakwater. Listings associated with San Pedro Bay were not reevaluated since the focus of the August 2004 evaluation was on harbor areas with new data.
- There is no separate "Los Angeles Harbor Inner Breakwater" waterbody listing. The fish advisories for PCBs and DDT that were part of that listing apply to all of the Inner Harbor area, the Outer Harbor, and to the San Pedro Bay Near/Off Shore Zones (the latter two cover all the breakwater areas) so there is no reason to list just the LA Harbor breakwater separately. Data which led to the old PAH listing (based on background levels) for inner breakwater are now part of the larger dataset for LA/LB Outer Harbor which does not have enough data points above sediment quality guidelines to warrant any PAH listings.
- As mentioned in an E-mail on February 3, 2005, the waterbody "Dominguez Channel (lined portion from Vermont to Estuary)" as shown on previously submitted fact sheets should be referred to as "Dominguez Channel (lined portion above Vermont)" to make it clear it's not part of the estuary.

This is background and summary information I used in-house. S. Birosik

Based on re-evaluation of Hg, PCBs, and PAHs data at State Board's request due to new sediment quality guidelines in 2004 listing policy including guidelines for individual PAHs where previously none existed (rows highlighted in blue show where the re-evaluation led to a different recommendation based on the new guidelines)

Hg guideline = 2.1 ug/g (up from 0.7 ug/g)

On 2002 Proposed 2004 Current proposal list? listing from last summer based on data re-evaluation Comments	
summer evaluation /	
LA Harbor - Yes Continue Continue listing Went from about 20% Now at cutoff point for listing	(15%) but
Consolidated Slip   listing   exceeding guidelines to   multiple other pollutants found	
15% exceeding as well as toxicity and impaired	-
guide ines with 155 toxicity was generally not found	
samples \ 13% exceedances while occurr	ing above
17% exceedances	
LA Harbor - Not New histing Do not hist Went from 25% of Samples from 1998 and 2001 h	
Cabrillo Marina explicitly simples exceeding lower concentrations than thos	e 110000
gmielias to 13%; out 1995	12. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
of 24 minutes, only	e in the state of
thre altron the	ia vis
© filiest y& 7, 1995))	
exceeded the guideline	
LA Harbor Fish No New listing List Of ten samples in 1992 All exceedances were from 199	99
Harboy and 1999/seven/	
exceeded guidelines	
Dominguez No New listing List Of 44 sediment cores Went from about 50% to 30%	
Channel Estuary   collected in 2002, 13   exceedances with new guidelin	•
(30%) exceeded virtually all the exceedances w	ere in the
guyae ines top half foot	· .

PCBs guideline = 400 ng/g (up from 180/188.8 ng/g)

T CADS Guidennie	881		0 0/		
	On 2002	Proposed 2004	Current proposal	Data summary	Comments
	list?	listing from last	based on data re-		
		summer	evaluation	1 1	
LA Harboy -	Yes	Continue	List	Of 161 samples, 88	Very high concentrations for PCBs -
Consolicated Slip		listing		(55%) exceeded	many two to three times the guideline
/W/ .				guidelines	
LA Harbor –	Not	Do not list	Do not list	Of 1 samples collected,	
Cabrill Marina	explicitly		·	none exceeded the	
				guidelines	
LA, Harbor - Fish	Yes	Continue	List	Out of 13 samples, six	Exceedances occurred in 1999 but not in
Harbor		listing		exceeded guidelines	earlier years (1992 and 1995)
Dominguez	No `	New listing	List	15 out of 42 core	
Channel Estuary		•		sample taken in 2002	
		·		exceeded the guidelines	
	·			(36%)	
LA/KB Ipner	Yes,	Do not list	Do not list	Went from 13%	
Harbox	some			exceeding guadelines to	
	separate			about 5% (out of 626	
X	parts	·		samples)	)
				7 1	

PAHs guidelines:

- (1) Total PAHs -1,800,000 ng/g (up from 16,771/44,792 ng/g)
- (2) 2-methylnaphthalene 201.28 ng/g
- (3) phenenathrene 543.53 ng/g
- (4) low molecular weight PAHs 1,442 ng/g
- (5) benz(a)anthracene 692.53 ng/g
- (6) benzo(a)pyrene 763.22 ng/g(7) chrysene 845.98 ng/g

- (8) dibenzo(a,h)anthracene 260 ng/g (9) pyrene 1397.4 ng/g (10) high molecular weight PAHs 9,600 ng/g

- 1 1	On-2002	Proposed 2004	Current proposal	Data summary	Comments
,	list?	listing from last	based on data re-		
		summer	evaluation	-	
LA Harboy –	Yes	Continue	List	Exceedances of	The only area where one sample
Consolidated Slip	•	listing		individual PAHs ranged	exceeded the new total PAHs guideline
$\bigwedge$	٠.			from 17 – 54% of about	1 7
			-	150 samples	
ILA Berbor-7	Not	Do not hist	List	4 of the 10 PAH	No excel fines for total PAHs or
Cabally Verana	explicitly			मान्यमानामाध्य छरवन्त्रीन्त्री	BIPATE
		and the country of 1786.		gridelines by 15% or	
			CPERSON AND	greater out of about 24)	
	nedeliti	St. Park State		<u>श्वा</u> नीन्ड	
LA Harbor – Fish	Yes	Continue	List	Except for 2-	Medium not defined in 2002 list but
Harbor	· ÷	listing		methylnaphthalene and	assume it was sediment; no total PAHs
	• .	-		total PAHs, all other	exceedances and only one 2-
		,	· X	PAHs out of about 12	methylnaphthalene exceedances (out of
			, , , / \	samples) exceeded	9 samples)
-				guidelines in 50% or	
•	-	-	10	more of samples	

•	PAHs (continued)					
	Domingnez	Yes .	Do not hist	List	Several individual PATES	Last summer's data review revealed only
	Charled Barrary		<u> </u>	·	had exceedances out of	4% of samples exceeded the old total
			*		41 samples - up to 31%	PAIS guideline
					of pyrene samples	* * * * * * * * * * * * * * * * * * * *
		*			exceeded guidelines;	
					several other PAISs were	
				, ,	at 17% of samples	
		•			exceeding guidelines	e e e e e e e e e e e e e e e e e e e
	LA/LB Inner	Yes,	Do not list	Do not list	One PAH (2-	HPAH and LPAH had 5% and 7% of
	Harbor	some			methylnaphthalene) had	~680 samples exceeded, respectively;
/	1.	parts	·		17% of 349 samples	last year's proposal to "do not list" was
			_		exceeding the guideline;	based on less than 5% of samples
					other PAHs ranged from	exceeding the old total PAHs guidelines.
		\		,	5-12% of samples	Most of the exceedances noted
		\		,	exceeding the	(particularly 2-methlynaphthalene)
		\	•		guidelines. These other	occurred at sites at refinery berths tested
					PAHs also had a larger	for dredging. Random EMAP style sites
<b>\</b>		N			sample size (~680)	had much lower concentrations.
	LA/BB Quter	No.	Do not list	Do not list	Exceedances ranged	Highest percentage of exceedances for
	Harbor	/	,	_	from 0 – 7% of about 75	2-methylnaphthalene
1		<b>/</b>			samples for all PAHs	•