SUPPLEMENTAL

STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

MEETING DATE: May 12, 2010

ITEM: **5A**

SUBJECT: **Town of Yountville and California Department of Veterans Affairs, Town of Yountville/California Veterans Home Joint Wastewater Reclamation Facility and Collection System, Yountville, Napa County** – Reissuance of NPDES Permit

DISCUSSION: This supplemental report describes changes to the Revised Tentative Order and Fact Sheet (Appendix A). First, it contains recalculated copper effluent limits based on a corrected ambient background concentration. We identified this correction in our Response to Comments, but neglected to include the recalculations based on the correction in the Revised Tentative Order. Second, it corrects some minor typographical errors in the Revised Tentative Order. Additions are shown in underline; deletions are shown in ~~strikethough~~.

This supplemental report also includes the cover letter (Appendix B) that the Town of Yountville sent with its comments. While we included the Town's comments, we inadvertently omitted the cover letter from the package that was sent to you.

CIWQS Place ID: 274410 (vc)

APPENDICES: A. Changes to Revised Tentative Order and Fact Sheet
B. Town of Yountville Cover Letter, April 7, 2010

APPENDIX A

CHANGES TO
REVISED TENTATIVE ORDER AND FACT SHEET

I. Revise Tentative Order section IV.B, Table 7, as follows:

Table 7. Effluent Limitations for Toxic Pollutants

Parameter	Units	Final Effluent Limitations [1][2]	
		Average Monthly	Maximum Daily
Copper	µg/L	~~30~~ 34	~~61~~ 69
Zinc	µg/L	230	460
Cyanide	µg/L	12	24
Dioxin-TEQ[3]	µg/L	1.3×10^{-8}	2.6×10^{-8}
Dichlorobromomethane	µg/L	3.0	5.9
Ammonia, Total	mg/L N	10	21

II. Revise Fact Sheet section II.E as follows:

E. Planned Changes

The Discharger is currently upgrading its treatment and distribution system in an effort to completely eliminate discharges to the Napa River, except for exceptionally wet years. Phase I of the upgrades is ~~complete~~ underway. This phase included modifying Plant filters and the disinfection system to produce Title 22 tertiary recycled water, and changing the piping layout to allow better control of wastewater flows....

III. Revise Fact Sheet section IV.C.4.c(1)(c) and (d) as follows:

(c) WQBELs. Effluent limitations for copper, calculated according to SIP procedures with a default CV of 0.6 and D=5, are an AMEL of ~~30~~ 34 µg/L and an MDEL of ~~61~~ 69 µg/L.

(d) Feasibility of Compliance. It is feasible for the Discharger to comply with the copper effluent limits because the 95th percentile (28 µg/L) is less than the AMEL (~~30~~ 34 µg/L); the 99th percentile (32 µg/L) is less than the MDEL (~~61~~ 69 µg/L); and the mean (19 µg/L) is less than the long term average of the projected distribution of the effluent data set after accounting for effluent variability (~~20~~ 22 µg/L).

IV. Revise Fact Sheet section IV.C.4.c(5)(c) and (d) as follows:

(c) WQBELs. Final WQBELs for dichlorobromomethane, calculated according to SIP procedures with a default CV of 0.6 and D=5, are an AMEL of 3.0 µg/L and an MDEL of ~~6.0~~ 5.9 µg/L.

(d) Feasibility of Compliance. It is feasible for the Discharger to comply with the effluent limits because the 95th percentile (2.2 µg/L) is less than the AMEL (3.0 µg/L); the 99th percentile (3.4 µg/L) is less than the MDEL (~~6.0~~ 5.9 µg/L);

and the mean (0.9 µg/L) is less than the long term average of the projected lognormal distribution of the effluent data set after accounting for effluent variability (0.95 µg/L).

V. Revise Fact Sheet section IV.C.4.e, Table F-8, as follows:

Table F-1. Effluent Limit Calculations

Pollutant	**Copper**	**Zinc**	**Cyanide**	**Dioxin-TEQ**	**Dichloro-bromo-methane**	**Total Ammonia**
Units	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L N
Basis	BP & CTR FW aq life	BP & CTR FW aq life	BP &CTR FW aq life	BP narrative	CTR HH	BP aq life
Criteria-Acute	14.4	123	22			1.93
Criteria-Chronic	9.6	123	5.2			1.17
Dilution factor	5	3	2	0	5	10
No. of samples per month	4	4	4	4	4	4
Aquatic life criteria analysis required (Y/N)	Y	Y	Y	N	N	Y
HH criteria analysis required (Y/N)	N	N	Y	Y	Y	N
Applicable WQO	9.6	123	5.2	1.3E-08	0.56	1.17
Background	~~4.1~~ 3.1	12	0.6	1.1E-09	0.08	0.04
ECA acute	~~66~~ 71	456	65			20.83
ECA chronic	~~37~~ 42	456	14			12
ECA HH			700	1.3E-08	2.0	
Average effluent	18.9	133	3.9	1.6E-10	0.93	3.6
Standard deviation	5.8	51.9	2.4		0.54	
CV	0.6	0.6	0.6	0.6	0.6	0.6
ECA acute mult99	0.32	0.32	0.32		0.32	0.32
ECA chronic mult99	0.53	0.53	0.53		0.53	0.53
LTA acute	~~21.2~~ 22.8	146	20		0.95	6.7
LTA chronic	~~20~~ 22	241	7.4		2.8	11.6
Minimum LTA	~~20~~ 22	146	5.0			6.7
AMEL mult95	1.6	1.6	1.6			1.6
MDEL mult99	3.1	3.1	3.1			3.1
AMEL (aq life)	~~30~~ 34	228	11.7			10.38
MDEL (aq life)	~~61~~ 69	456	24.0			20.83
MDEL/AMEL multiplier			2.01	2.01	2.01	
AMEL (human health)			700	1.3E-08	2.96	
MDEL (human health)			1437	2.6E-08	5.94	
Final limit – AMEL	**~~30~~ 34**	**230**	**12**	**1.3E-08**	**3.0**	**10**
Final limit – MDEL	**~~61~~ 69**	**460**	**24**	**2.6E-08**	**5.9**	**21**

APPENDIX B