California Regional Water Quality Control Board
Central Valley Region

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13 October 1998

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UNDERGROUND STORAGE TANK CLOSURE LETTER, BEALE AFB, YUBA COUNTY

We have previously reviewed and commented on *Summary Closure Report Nos. 1 through 14, Underground Storage Tank Removal Program,* (UST Closure Reports) which were variously prepared on behalf of the Air Force by Metcalf & Eddy and Laguna Construction Company. These UST Closure Reports were submitted to our office at various times throughout the Air Force's intensive UST investigation, removal and remediation project which was conducted between 1994 and 1998 at Beale AFB. As noted in our previous comment letters on the UST Closure Reports, we intended to prepare a formal closure letter at the end of the UST removal program. This letter constitutes that formal closure letter for the sites listed on Attachment A.

We have reviewed the information provided to support closure of these 931 sites. Board staff has determined that appropriate response actions have been completed and that no further remedial or removal actions are necessary based on the confirmation sampling provided at these sites. All of these sites were investigated, and if USTs were located, the USTs were removed. Subsequent soil excavation was performed if indications of contamination were found during the investigation phase. Contaminated soil was treated in the soil bioremediation cell and re-used after concentrations of contaminants were below acceptable levels. Minor levels of contaminants (primarily diesel fuel) were initially detected in the shallow groundwater at several of these sites (10-432, 10-433, 10-477, 10-487, 10-488, 10-490, and 10-489). Subsequent groundwater monitoring at these sites indicated that contaminants were not detected in the groundwater during 4 or more calendar quarters of monitoring, and that no further action was thus appropriate for these sites.

Finally, we would like to take this opportunity to commend the Air Force for the successful implementation of this project, the scope of which is unparalleled in our region. Through the investigation and remediation of these 931 UST sites, many of which were contaminated and represented a continuing threat to water quality, approximately 30,000 cubic yards of contaminated soil was excavated and economically treated in the on-base bioremediation cell. After contaminant concentrations in the excavated soil were reduced to acceptable disposal levels, the treated soil was re-used as suitable foundation material for the capping of two of the on-base landfills, resulting in

additional cost savings to the Air Force. The success of this project was due in large part to the cooperative efforts we received from the Air Force's remedial project manager for this project, Ms. Carol Gaudette, and the staff of the Air Force's contractors, Metcalf & Eddy and Laguna Construction Company. The cooperation Board staff received from these individuals throughout the duration of the project was appreciated and greatly contributed to the Air Force's significant achievement on this project.

If you have any questions in this matter, please call John Russell at (916) 255-3066, or Cori Condon at (916) 255-3051.

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cc: Mr. Charlie Ridenour, DTSC
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Mr. Greg Haling, M&E, Chico, CA
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Attachment A: Closure List of USTs for Beale AFB, UST Summary Closure Reports 1-14

Beale AFB
Closed Underground Tanks

04-001	05-084	09-042	09-090	09-138	09-181	09-225	10-043	10-087	10-134
04-002	07-008	09-043	09-093	09-139	09-182	10-001	10-044	10-088	10-135
05-001	08-001	09-045	09-096	09-140	09-183	10-002	10-045	10-089	10-136
05-022	08-002	09-046	09-097	09-141	09-184	10-003	10-046	10-090	10-137
05-023	09-001	09-047	09-098	09-142	09-185	10-004	10-047	10-091	10-138
05-034	09-002	09-049	09-099	09-143	09-186	10-005	10-048	10-092	10-139
05-035	09-003	09-050	09-100	09-144	09-187	10-006	10-049	10-093	10-141
05-036	09-004	09-051	09-101	09-145	09-188	10-007	10-050	10-094	10-142
05-037	09-005	09-052	09-103	09-146	09-189	10-008	10-051	10-095	10-143
05-038	09-006	09-053	09-104	09-147	09-190	10-009	10-052	10-096	10-144
05-042	09-007	09-054	09-105	09-148	09-191	10-010	10-053	10-097	10-145
05-043	09-008	09-055	09-106	09-149	09-192	10-011	10-054	10-098	10-146
05-044	09-009	09-056	09-107	09-150	09-193	10-012	10-055	10-099	10-147
05-045	09-010	09-057	09-108	09-151	09-194	10-013	10-056	10-100	10-148
05-046	09-011	09-058	09-109	09-152	09-195	10-014	10-057	10-101	10-149
05-048	09-012	09-059	09-110	09-153	09-196	10-015	10-058	10-102	10-150
05-049	09-013	09-060	09-111	09-154	09-197	10-016	10-059	10-103	10-151
05-051	09-014	09-061	09-112	09-155	09-198	10-017	10-060	10-104	10-152
05-052	09-015	09-062	09-113	09-156	09-199	10-018	10-061	10-105	10-153
05-053	09-016	09-063	09-114	09-157	09-200	10-019	10-062	10-106	10-154
05-054	09-017	09-064	09-115	09-158	09-201	10-020	10-063	10-107	10-155
05-055	09-018	09-065	09-116	09-159	09-202	10-021	10-064	10-108	10-156
05-056	09-020	09-066	09-117	09-160	09-203	10-022	10-065	10-110	10-158
05-058	09-021	09-067	09-118	09-161	09-204	10-023	10-066	10-111	10-159
05-059	09-022	09-068	09-119	09-162	09-205	10-024	10-067	10-112	10-162
05-060	09-023	09-069	09-120	09-163	09-206	10-025	10-068	10-113	10-163
05-061	09-024	09-070	09-121	09-164	09-207	10-026	10-069	10-114	10-164
05-062	09-025	09-071	09-122	09-165	09-208	10-027	10-070	10-115	10-165
05-063	09-026	09-072	09-123	09-166	09-209	10-028	10-071	10-116	10-166
05-067	09-027	09-073	09-124	09-167	09-210	10-029	10-072	10-117	10-167
05-068	09-028	09-074	09-125	09-168	09-211	10-030	10-073	10-118	10-168
05-069	09-029	09-075	09-126	09-169	09-212	10-031	10-074	10-119	10-169
05-070	09-030	09-076	09-127	09-170	09-213	10-032	10-075	10-120	10-170
05-072	09-031	09-077	09-128	09-171	09-214	10-033	10-076	10-121	10-171
05-073	09-032	09-078	09-129	09-172	09-215	10-034	10-077	10-123	10-172
05-074	09-033	09-079	09-130	09-173	09-216	10-035	10-078	10-124	10-173
05-075	09-035	09-083	09-131	09-174	09-217	10-036	10-079	10-125	10-174
05-078	09-036	09-084	09-132	09-175	09-218	10-037	10-080	10-126	10-175
05-079	09-037	09-085	09-133	09-176	09-219	10-038	10-081	10-127	10-176
05-080	09-038	09-086	09-134	09-177	09-220	10-039	10-082	10-128	10-177
05-081	09-039	09-087	09-135	09-178	09-221	10-040	10-083	10-129	10-178
05-082	09-040	09-088	09-136	09-179	09-222	10-041	10-084	10-132	10-179
05-083	09-041	09-089	09-137	09-180	09-223	10-042	10-085	10-133	10-180

Beale AFB
Closed Underground Tanks

10-181	10-231	10-282	10-347	10-396	10-454	10-512	13-031	13-077	14-031
10-183	10-232	10-283	10-348	10-397	10-455	10-514	13-032	13-078	14-032
10-184	10-233	10-284	10-350	10-398	10-457	10-515	13-033	13-079	14-033
10-185	10-234	10-285	10-351	10-399	10-458	10-520	13-034	13-080	14-034
10-186	10-235	10-286	10-352	10-400	10-459	10-528	13-035	13-081	14-035
10-187	10-236	10-287	10-353	10-401	10-460	10-529	13-036	13-082	14-036
10-188	10-238	10-288	10-355	10-402	10-461	10-530	13-037	13-083	14-037
10-189	10-239	10-291	10-356	10-403	10-462	10-531	13-038	13-084	14-038
10-190	10-240	10-294	10-357	10-404	10-463	10-532	13-039	13-085	14-039
10-192	10-241	10-295	10-358	10-405	10-464	10-533	13-040	13-086	14-040
10-193	10-242	10-296	10-359	10-407	10-465	12-001	13-043	13-087	14-041
10-195	10-243	10-297	10-360	10-408	10-466	12-002	13-044	13-088	14-042
10-196	10-244	10-298	10-362	10-411	10-467	12-003	13-045	13-089	14-043
10-197	10-245	10-299	10-363	10-412	10-468	13-001	13-047	14-001	14-044
10-198	10-246	10-300	10-365	10-413	10-469	13-002	13-048	14-002	14-045
10-199	10-247	10-301	10-366	10-416	10-471	13-003	13-049	14-003	14-046
10-200	10-248	10-302	10-367	10-419	10-472	13-004	13-050	14-004	14-047
10-201	10-249	10-303	10-368	10-423	10-477	13-005	13-051	14-005	14-048
10-202	10-250	10-304	10-369	10-424	10-478	13-006	13-052	14-006	14-049
10-203	10-251	10-306	10-370	10-425	10-480	13-007	13-053	14-007	14-050
10-204	10-252	10-307	10-371	10-426	10-481	13-008	13-054	14-008	14-051
10-205	10-254	10-308	10-372	10-427	10-482	13-009	13-055	14-009	14-052
10-206	10-255	10-311	10-373	10-428	10-483	13-010	13-056	14-010	14-053
10-207	10-256	10-312	10-376	10-429	10-485	13-011	13-057	14-011	14-054
10-208	10-257	10-316	10-377	10-430	10-486	13-012	13-058	14-012	14-055
10-209	10-258	10-318	10-378	10-432	10-487	13-013	13-059	14-013	14-056
10-210	10-259	10-320	10-379	10-433	10-488	13-014	13-060	14-014	14-057
10-211	10-260	10-323	10-380	10-434	10-489	13-015	13-061	14-015	14-058
10-212	10-261	10-326	10-381	10-435	10-490	13-016	13-062	14-016	14-059
10-213	10-262	10-327	10-382	10-436	10-491	13-017	13-063	14-017	14-060
10-214	10-263	10-328	10-383	10-437	10-492	13-018	13-064	14-018	14-061
10-215	10-264	10-329	10-384	10-438	10-493	13-019	13-065	14-019	14-062
10-217	10-265	10-332	10-385	10-440	10-497	13-020	13-066	14-020	14-063
10-218	10-265	10-333	10-386	10-441	10-498	13-021	13-067	14-021	14-064
10-219	10-273	10-334	10-387	10-442	10-499	13-022	13-068	14-022	14-065
10-220	10-274	10-335	10-388	10-443	10-500	13-023	13-069	14-023	14-066
10-222	10-275	10-339	10-389	10-445	10-501	13-024	13-070	14-024	14-067
10-224	10-276	10-340	10-390	10-446	10-503	13-025	13-071	14-025	14-068
10-225	10-277	10-341	10-391	10-447	10-505	13-026	13-072	14-026	14-069
10-227	10-278	10-342	10-392	10-448	10-506	13-027	13-073	14-027	14-070
10-228	10-279	10-343	10-393	10-449	10-507	13-028	13-074	14-028	14-071
10-229	10-280	10-344	10-394	10-451	10-508	13-029	13-075	14-029	14-072
10-230	10-281	10-345	10-395	10-452	10-509	13-030	13-076	14-030	14-073

Beale AFB
Closed Underground Tanks

14-074	14-117
14-075	14-118
14-076	14-119
14-077	14-120
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