Delta
Environmental Consultants, Inc.

Solving environment-related business problems worldwide

www.deltaenv.com

27141 Aliso Creek Road • Suite 270
Aliso Viejo, California 92656 USA

949.362.3077 800.477.7411
Fax 949.362.0290

June 2, 2005

Mr. Jay Bento
City of Santa Ana Fire Department
1439 South Broadway
Santa Ana, California

Sent via UPS

Subject: Addendum to Work Plan for Confirmation Soil Borings
ARCO Facility No. 206
302 West First Street
Santa Ana, California

Dear Mr. Bento:

On behalf of Atlantic Richfield Company (ARCO), Delta Environmental Consultants, Inc. (Delta) has prepared this addendum to the February 4, 2005 *Work Plan for Confirmation Soil Borings* (the Work Plan) for ARCO Facility No. 206, located at 302 West First Street in the City of Santa Ana, California (Figure 1). In a letter to Atlantic Richfield Company from the City of Santa Ana Fire Department (SAFD) dated March 30, 2005, the SAFD stated that the Work Plan was not approved due to the locations of previous and proposed confirmation soil borings. A copy of the SAFD letter is provided in Attachment A. This work plan addendum has been prepared in response to your letter and our telephone conversation on May 25, 2005, and modifies the locations of the previous and proposed confirmation soil borings in the Work Plan.

As mentioned in the SAFD letter, the location of confirmation soil boring CSB-4 is under the south end of the west tank, not the east tank as shown in the Work Plan. A revised site map is included as Figure 2.

In order to confirm the removal and/or attenuation of petroleum hydrocarbons and fuel oxygenates detected in soil beneath the southeast dispenser (Table 1), the location of confirmation soil boring CSB-7 has been moved to the location depicted on Figure 2. Due to the revised location of boring CSB-7 and its close proximity to the dispenser, all three soil borings will be advanced with a Geoprobe™ direct-push rig rather than a cone penetration testing (CPT) direct-push rig.

Upon review and approval of this addendum to the Work Plan by the SAFD, Delta will schedule the field activities. Dependent upon equipment availability, the field activities may require up to one month to complete. Delta expects to receive the final laboratory reports of the soil sample analysis approximately two weeks after sample submittal. After receiving the final laboratory reports, approximately six weeks will be required to prepare and submit the final report.

If you have questions or comments regarding this addendum to the Work Plan, please contact Aaron Baird at (949) 360-5795.

Sincerely,
DELTA ENVIRONMENTAL CONSULTANTS, INC.

Aaron Baird
Project Manager

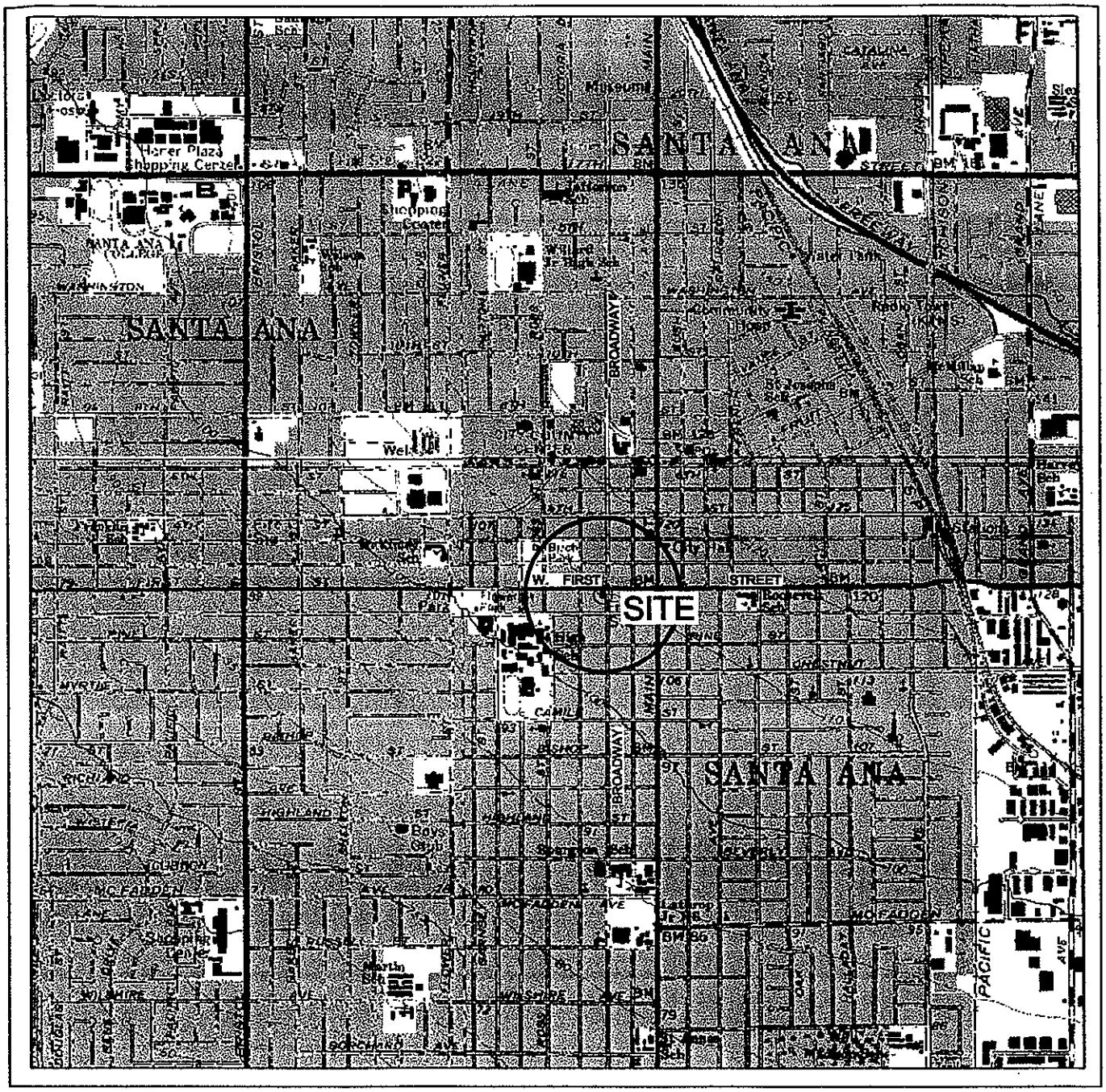
6/2/05
Date

Attachments:	Figure 1	Site Location Map
	Figure 2	Site Map
	Table 1	Historical Soil Analytical Results

cc: Mr. Darrell Fah, Atlantic Richfield Company, La Palma, California
Ms. Valerie Jahn-Bull, CRWQCB-Santa Ana Region, Riverside, California
Mr. Fabio Minervini, England Geosystem, Inc., Irvine, California

ATTACHMENT A

SAFD Letter Dated March 30, 2005



GENERAL NOTES:
BASE MAP FROM 3-D TOPO QUADS
TUSTIN AND NEWPORT BEACH, CA. QUADRANGLE
7.5 MINUTE TOPOGRAPHIC MAP
1965
PHOTOREVISED 1981

QUADRANGLE LOCATION

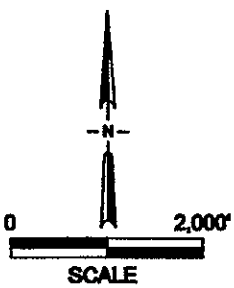
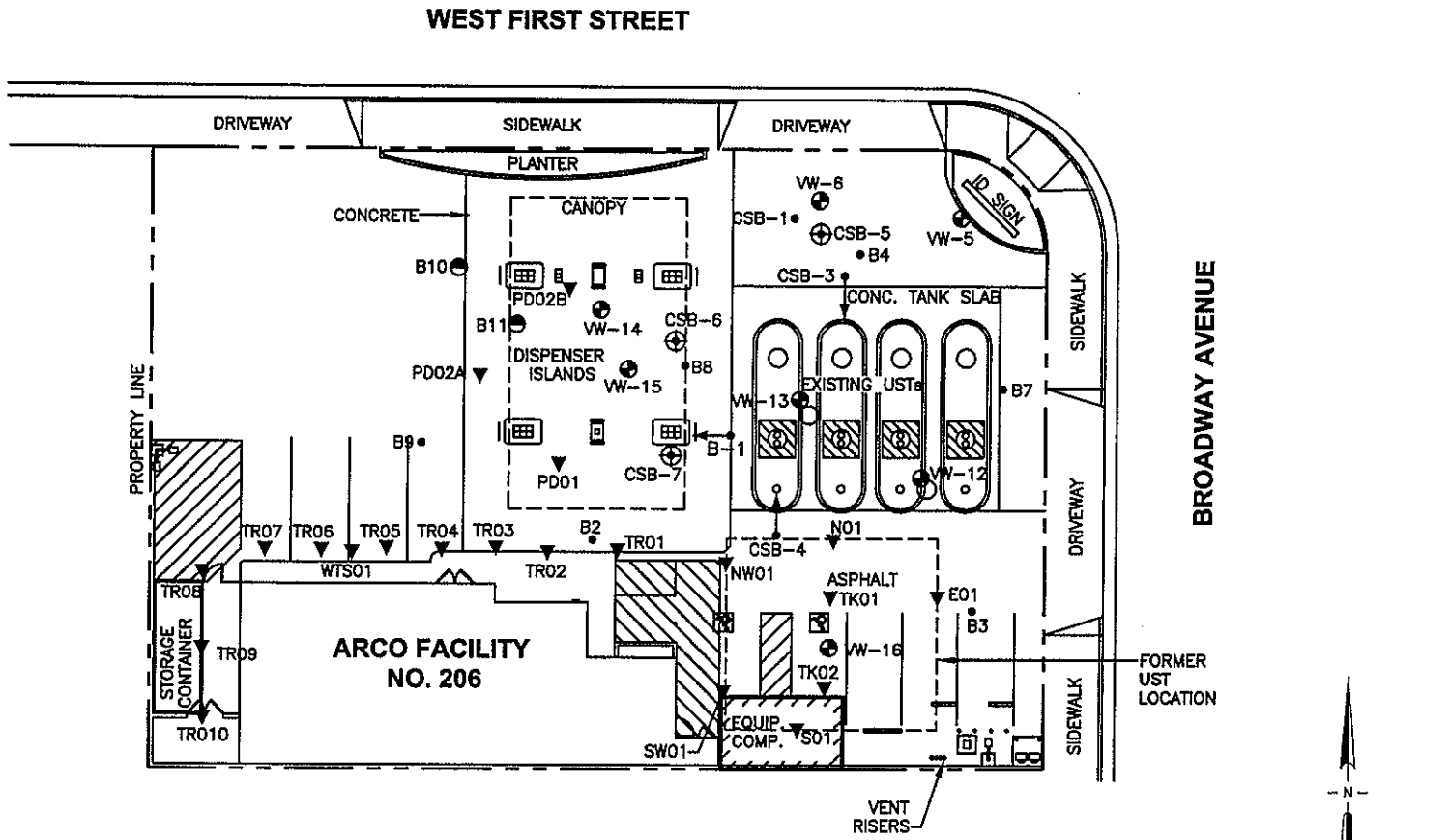


FIGURE 1

SITE LOCATION MAP
ARCO FACILITY NO. 206
302 W. FIRST STREET
SANTA ANA, CA.

PROJECT NO. 00725		DRAWN BY K. MARTIN
FILE NO. A0-725-03		PREPARED BY A. BAIRD
DATE 04 JAN 05	REV. 0	REVIEWED BY

Delta Environmental Consultants, Inc.



LEGEND

CSB-7	⊕	PROPOSED SOIL BORING LOCATION
VW-5	◐	VAPOR EXTRACTION WELL LOCATION
CSB-1	•	SOIL BORING LOCATION
B10	◓	HAND AUGER LOCATION
CSB-4	←•	ANGLED SOIL BORING LOCATION
PD01	▼	PRODUCT LINE SOIL SAMPLE LOCATION
TR09	▼	VENT LINE SOIL SAMPLE LOCATION
TK02	▼	UST SOIL SAMPLE LOCATION
SW01	▼	UST EXCAVATION SIDEWALL SOIL SAMPLE LOCATION
WTS01	▼	WASTE OIL UST SOIL SAMPLE LOCATION

FIGURE 2

SITE MAP
ARCO FACILITY NO. 206
302 W. FIRST STREET
SANTA ANA, CA.

PROJECT NO. G0B5M	DRAWN BY K. MARTIN	Delta Environmental Consultants, Inc.
FILE NO. A0-725-04	PREPARED BY A. BAIRD	
DATE 01 JUN 05 / REV. 0	REVIEWED BY	

TABLE 1

HISTORICAL SOIL ANALYTICAL RESULTS

ARCO FACILITY NO. 206
302 WEST FIRST STREET
SANTA ANA, CALIFORNIA

Sample I.D.	Sample Depth (feet)	Date Sampled	EPA 8015B	EPA Method 8020/8021				EPA Method 8260B					EPA 7240
			TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Lead (mg/kg)
B-1	12	09/10/92	3100	10	210	80	500	NA	NA	NA	NA	NA	NA
B-1	27	09/10/92	6100	100	500	140	690	NA	NA	NA	NA	NA	NA
B-1	37	09/10/92	4.9	1.2	0.046	0.12	0.19	NA	NA	NA	NA	NA	NA
B-1	42	09/10/92	ND<0.50	0.029	0.038	ND<0.0050	0.020	NA	NA	NA	NA	NA	NA
B-2	25	02/18/93	1.1	0.22	0.19	0.030	0.14	NA	NA	NA	NA	NA	NA
B-2	40	02/18/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
B-3	10	02/18/93	540	0.051	0.21	2.5	13	NA	NA	NA	NA	NA	NA
B-3	20	02/18/93	5.8	0.39	0.75	0.16	0.84	NA	NA	NA	NA	NA	NA
B-3	30	02/18/93	2.6	0.91	0.087	0.11	0.19	NA	NA	NA	NA	NA	NA
B-3	40	02/18/93	ND<0.50	0.011	0.0081	ND<0.0050	0.009	NA	NA	NA	NA	NA	NA
B-4	10	02/18/93	230	0.16	0.90	2.2	10.0	NA	NA	NA	NA	NA	NA
B-4	30	02/18/93	17	1.0	0.48	0.14	0.71	NA	NA	NA	NA	NA	NA
B-4	40	02/18/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
B-5 (VW-5)	10	02/19/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
B-5 (VW-5)	20	02/19/93	17	0.21	1.8	0.41	2.70	NA	NA	NA	NA	NA	NA
B-5 (VW-5)	30	02/19/93	7.6	1.0	2.9	0.22	1.5	NA	NA	NA	NA	NA	NA
B-5 (VW-5)	40	02/19/93	ND<0.50	ND<0.0050	0.018	ND<0.0050	0.007	NA	NA	NA	NA	NA	NA
B-5 (VW-5)	50	02/19/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
B-6 (VW-6)	10	02/19/93	14	ND<0.0050	ND<0.0050	0.015	0.31	NA	NA	NA	NA	NA	NA
B-6 (VW-6)	15	02/19/93	6500	ND<14	120	160	1100	NA	NA	NA	NA	NA	NA
B-6 (VW-6)	30	02/19/93	6300	84	610	150	860	NA	NA	NA	NA	NA	NA
B-6 (VW-6)	40	02/19/93	ND<0.50	ND<0.0050	0.0059	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
B-6 (VW-6)	50	02/19/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	0.005	NA	NA	NA	NA	NA	NA
B-7	10	02/19/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	0.024	NA	NA	NA	NA	NA	NA
B-7	30	02/19/93	8.6	0.41	2.0	0.19	1.3	NA	NA	NA	NA	NA	NA
B-7	40	02/19/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA

TABLE 1

HISTORICAL SOIL ANALYTICAL RESULTS

ARCO FACILITY NO. 206
302 WEST FIRST STREET
SANTA ANA, CALIFORNIA

Sample I.D.	Sample Depth (feet)	Date Sampled	EPA 8015B	EPA Method 8020/8021				EPA Method 8260B					EPA 7240
			TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Lead (mg/kg)
B-7	50	02/19/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
B-8	10	02/23/93	2.4	0.052	0.0073	0.011	0.33	NA	NA	NA	NA	NA	NA
B-8	20	02/23/93	53	3.7	2.4	0.70	9.3	NA	NA	NA	NA	NA	NA
B-8	30	02/23/93	5.2	0.95	0.49	0.19	0.38	NA	NA	NA	NA	NA	NA
B-8	35	02/23/93	21	2.0	4.6	0.56	3.4	NA	NA	NA	NA	NA	NA
B-8	40	02/23/93	3.4	0.29	0.34	0.14	0.64	NA	NA	NA	NA	NA	NA
B-8	50	02/23/93	0.98	ND<0.0050	0.012	0.0053	0.029	NA	NA	NA	NA	NA	NA
B-9	10	02/23/93	ND<0.52	ND<0.0052	ND<0.0052	ND<0.0052	0.023	NA	NA	NA	NA	NA	NA
B-9	30	02/23/93	1.8	0.44	0.088	0.071	0.22	NA	NA	NA	NA	NA	NA
B-9	40	02/23/93	ND<0.51	0.0068	ND<0.0051	ND<0.0051	0.0096	NA	NA	NA	NA	NA	NA
TK01	NA	09/15/93	510	2.4	12	7.4	46	NA	NA	NA	NA	NA	6.8
TK02	NA	09/15/93	38	0.26	1.3	0.67	4.3	NA	NA	NA	NA	NA	6.6
S01	NA	09/15/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	5.2
SW01	NA	09/15/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	0.037	NA	NA	NA	NA	NA	5.8
E01	NA	09/15/93	4.6	ND<0.012	ND<0.012	0.021	0.18	NA	NA	NA	NA	NA	6.8
NW01	NA	09/15/93	2.4	ND<0.012	ND<0.012	0.013	ND<0.012	NA	NA	NA	NA	NA	5.9
N01	NA	09/15/93	38	ND<0.24	ND<0.24	ND<0.24	1.3	NA	NA	NA	NA	NA	6.3
PD01	NA	09/17/93	0.97	ND<0.0050	ND<0.0050	ND<0.0050	0.028	NA	NA	NA	NA	NA	4.4
PD02A	NA	09/17/93	1.5	ND<0.012	ND<0.012	ND<0.012	0.11	NA	NA	NA	NA	NA	3.8
PD02B	NA	09/17/93	1.9	ND<0.0050	ND<0.0050	0.0074	0.036	NA	NA	NA	NA	NA	2.9
WTS01	NA	09/17/93	1300*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR01	NA	09/24/93	76	0.46	1.8	1.0	5.8	NA	NA	NA	NA	NA	3.4
TR02	NA	09/24/93	1.3	ND<0.0050	0.019	0.0082	0.098	NA	NA	NA	NA	NA	4.8
TR03	NA	09/24/93	0.60	ND<0.0050	ND<0.0050	ND<0.0050	0.018	NA	NA	NA	NA	NA	3.1
TR04	NA	09/24/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	2.9
TR05	NA	09/24/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	3.6
TR06	NA	09/24/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	3.9
TR07	NA	09/24/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	3.5

TABLE 1

HISTORICAL SOIL ANALYTICAL RESULTS

ARCO FACILITY NO. 206
302 WEST FIRST STREET
SANTA ANA, CALIFORNIA

Sample I.D.	Sample Depth (feet)	Date Sampled	EPA 8015B	EPA Method 8020/8021				EPA Method 8260B					EPA 7240
			TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Lead (mg/kg)
TR08	NA	09/24/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	3.7
TR09	NA	09/24/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	21
TR10	NA	09/24/93	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	38
B-10	5	10/15/93	6.5	ND<0.011	ND<0.011	ND<0.011	0.210	NA	NA	NA	NA	NA	NA
B-10	10	10/15/93	2.1	0.018	ND<0.005	ND<0.005	0.06	NA	NA	NA	NA	NA	NA
B-11	5	10/15/93	3.8	ND<0.012	ND<0.012	ND<0.012	0.054	NA	NA	NA	NA	NA	NA
B-11	10	10/15/93	2.4	ND<0.012	ND<0.012	ND<0.012	0.070	NA	NA	NA	NA	NA	NA
VW-12	20	05/03/94	21	0.263	0.841	0.172	1.326	NA	NA	NA	NA	NA	ND<0.50
VW-12	25	05/03/94	15	0.170	0.663	0.092	0.777	NA	NA	NA	NA	NA	NA
VW-12	30	05/03/94	11	0.495	1.569	0.221	1.436	NA	NA	NA	NA	NA	NA
VW-12	35	05/03/94	ND<10	0.363	0.049	0.209	0.889	NA	NA	NA	NA	NA	NA
VW-12	40	05/03/94	ND<10	ND<0.005	0.008	ND<0.005	0.04	NA	NA	NA	NA	NA	NA
VW-12	45	05/03/94	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-12	50	05/03/94	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-12	55	05/03/94	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-13	20	05/03/94	17	0.2	0.259	0.102	0.617	NA	NA	NA	NA	NA	NA
VW-13	25	05/03/94	ND<10	0.519	0.572	0.13	0.60	NA	NA	NA	NA	NA	NA
VW-13	30	05/03/94	62	0.739	1.855	0.534	3.006	NA	NA	NA	NA	NA	NA
VW-13	35	05/03/94	4413	22.033	129.851	33.917	222.098	NA	NA	NA	NA	NA	ND<0.50
VW-13	40	05/03/94	ND<10	ND<0.005	0.008	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-13	45	05/03/94	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-13	50	05/03/94	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-14	5	05/02/94	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-14	10	05/02/94	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-14	15	05/02/94	ND<10	ND<0.005	ND<0.005	0.059	0.046	NA	NA	NA	NA	NA	NA
VW-14	20	05/02/94	17	0.936	0.336	0.453	0.625	NA	NA	NA	NA	NA	ND<0.50
VW-14	25	05/02/94	ND<10	0.102	0.009	0.054	0.102	NA	NA	NA	NA	NA	NA

TABLE 1

HISTORICAL SOIL ANALYTICAL RESULTS

ARCO FACILITY NO. 206
302 WEST FIRST STREET
SANTA ANA, CALIFORNIA

Sample I.D.	Sample Depth (feet)	Date Sampled	EPA 8015B	EPA Method 8020/8021				EPA Method 8260B					EPA 7240
			TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Lead (mg/kg)
VW-14	30	05/02/94	ND<10	ND<0.005	0.026	ND<0.005	0.017	NA	NA	NA	NA	NA	NA
VW-14	35	05/02/94	ND<10	ND<0.005	0.006	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-14	40	05/02/94	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-14	45	05/02/94	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-14	50	05/02/94	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-15	5	05/02/94	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-15	10	05/02/94	49	0.107	0.471	0.372	2.649	NA	NA	NA	NA	NA	ND<0.50
VW-15	15	05/02/94	29	0.542	2.017	0.462	2.654	NA	NA	NA	NA	NA	NA
VW-15	20	05/02/94	48	0.390	1.054	0.353	2.117	NA	NA	NA	NA	NA	NA
VW-15	25	05/02/94	18	0.449	0.360	0.139	0.609	NA	NA	NA	NA	NA	NA
VW-15	30	05/02/94	ND<10	0.156	0.275	ND<0.005	0.386	NA	NA	NA	NA	NA	NA
VW-15	35	05/02/94	ND<10	ND<0.005	0.007	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-15	40	05/02/94	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-15	45	05/02/94	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-15	50	05/02/94	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-16	10	05/03/94	64	0.089	0.412	0.678	2.196	NA	NA	NA	NA	NA	ND<0.50
VW-16	15	05/03/94	54	1.412	4.392	0.913	5.858	NA	NA	NA	NA	NA	NA
VW-16	20	05/03/94	25	0.283	0.793	0.142	0.970	NA	NA	NA	NA	NA	NA
VW-16	25	05/03/94	ND<10	0.188	0.143	0.052	0.187	NA	NA	NA	NA	NA	NA
VW-16	30	05/03/94	ND<10	0.232	ND<0.005	0.080	ND<0.015	NA	NA	NA	NA	NA	NA
VW-16	35	05/03/94	ND<10	ND<0.005	ND<0.005	0.022	ND<0.015	NA	NA	NA	NA	NA	NA
VW-16	40	05/03/94	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
VW-16	45	05/03/94	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
CSB1-5	5	06/10/99	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	NA	NA	NA	NA	NA
CSB1-10	10	06/10/99	2600	ND<5	ND<5	ND<5	16	ND<10	NA	NA	NA	NA	NA
CSB1-15	15	06/10/99	600	ND<0.5	35	7.3	53	ND<1	NA	NA	NA	NA	NA
CSB1-20	20	06/10/99	1100	ND<5	23	18	140	ND<10	NA	NA	NA	NA	NA
CSB1-25	25	06/10/99	23	0.56	3.0	0.44	3.0	ND<0.5	NA	NA	NA	NA	NA
CSB1-30	30	06/10/99	11000	69	680	170	980	ND<50	NA	NA	NA	NA	NA

TABLE 1

HISTORICAL SOIL ANALYTICAL RESULTS

ARCO FACILITY NO. 206
302 WEST FIRST STREET
SANTA ANA, CALIFORNIA

Sample I.D.	Sample Depth (feet)	Date Sampled	EPA 8015B	EPA Method 8020/8021				EPA Method 8260B					EPA 7240
			TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Lead (mg/kg)
CSB1-35	35	06/10/99	0.4	0.037	0.057	0.006	0.044	ND<0.010	NA	NA	NA	NA	NA
CSB1-40	40	06/10/99	0.2	ND<0.005	0.022	ND<0.005	0.022	ND<0.010	NA	NA	NA	NA	NA
CSB1-45	45	06/10/99	0.2	0.011	0.026	ND<0.005	0.009	ND<0.010	NA	NA	NA	NA	NA
CSB1-50	50	06/10/99	0.1	ND<0.005	ND<0.005	ND<0.005	0.006	ND<0.010	NA	NA	NA	NA	NA
CSB1-55	55	06/10/99	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	NA	NA	NA	NA	NA
CSB1-60	60	06/10/99	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	NA	NA	NA	NA	NA
CSB3-5	5	06/10/99	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	NA	NA	NA	NA	NA
CSB3-10	10	06/10/99	2300	ND<2.5	20	30	310	ND<5	NA	NA	NA	NA	NA
CSB3-15	15	06/10/99	1700	ND<2.5	39	37	230	ND<5	NA	NA	NA	NA	NA
CSB3-20	20	06/10/99	8000	26	520	150	870	ND<50	NA	NA	NA	NA	NA
CSB3-25	25	06/10/99	9200	50	600	150	870	ND<50	NA	NA	NA	NA	NA
CSB3-30	30	06/10/99	4500	33	300	74	420	22	ND<2	ND<2	ND<2	ND<40	NA
CSB3-35	35	06/10/99	72	3.1	8.7	1.2	7.4	ND<0.5	NA	NA	NA	NA	NA
CSB3-40	40	06/10/99	3100	20	200	54	310	ND<10	NA	NA	NA	NA	NA
CSB3-45	45	06/10/99	0.6	0.010	0.051	0.006	0.058	ND<0.010	NA	NA	NA	NA	NA
CSB3-50	50	06/10/99	0.6	0.008	0.053	0.010	0.059	ND<0.010	NA	NA	NA	NA	NA
CSB3-55	55	06/10/99	0.4	ND<0.005	0.034	0.008	0.052	ND<0.010	NA	NA	NA	NA	NA
CSB3-60	60	06/10/99	0.2	ND<0.005	0.014	ND<0.005	0.016	ND<0.010	NA	NA	NA	NA	NA
CSB4-5	5	06/10/99	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	NA	NA	NA	NA	NA
CSB4-10	10	06/10/99	11	ND<0.005	ND<0.005	0.062	0.44	0.021	NA	NA	NA	NA	NA
CSB4-15	15	06/10/99	56	ND<0.25	ND<0.25	ND<0.25	0.42	ND<0.5	NA	NA	NA	NA	NA
CSB4-20	20	06/10/99	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	NA	NA	NA	NA	NA
CSB4-25	25	06/10/99	0.2	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	NA	NA	NA	NA	NA
CSB4-30	30	06/10/99	1.2	0.30	ND<0.005	0.087	ND<0.005	0.17	ND<0.005	ND<0.005	ND<0.005	ND<0.100	NA
CSB4-35	35	06/10/99	0.2	ND<0.005	ND<0.005	0.011	ND<0.005	0.025	NA	NA	NA	NA	NA
CSB4-40	40	06/10/99	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	NA	NA	NA	NA	NA
CSB4-45	45	06/10/99	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	NA	NA	NA	NA	NA
CSB4-50	50	06/10/99	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	NA	NA	NA	NA	NA

TABLE 1

HISTORICAL SOIL ANALYTICAL RESULTS

ARCO FACILITY NO. 206
302 WEST FIRST STREET
SANTA ANA, CALIFORNIA

Sample I.D.	Sample Depth (feet)	Date Sampled	EPA 8015B	EPA Method 8020/8021				EPA Method 8260B					EPA 7240
			TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Lead (mg/kg)
D1-2	2	10/28/99	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.0050	NA	NA	NA	NA	NA
D2-2	2	10/28/99	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.0050	NA	NA	NA	NA	NA
D3-2	2	10/28/99	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.0050	NA	NA	NA	NA	NA
D4-2	2	10/28/99	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.0050	NA	NA	NA	NA	NA
P1-2	2	10/28/99	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.0050	NA	NA	NA	NA	NA
P2-2	2	10/28/99	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.0050	NA	NA	NA	NA	NA
P3-2	2	10/28/99	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.0050	NA	NA	NA	NA	NA
P4-2	2	10/28/99	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.0050	NA	NA	NA	NA	NA

NOTES:

EPA = Environmental Protection Agency
mg/kg = Milligrams per kilogram
TPHg = Total petroleum hydrocarbons as gasoline
MTBE = Methyl *tert*-butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl *tert*-butyl ether
TAME = *Tert*-amyl methyl ether
TBA = T*ert*-butanol
NA = Not analyzed
ND< = Not detected at or above stated reporting limit

Sample WTS01 was analyzed for Total Recoverable Petroleum Hydrocarbans acccording to EPA Method 418.1

ATTACHMENT A

SAFD Letter Dated March 30, 2005

MAYOR
Miguel A. Pulido
MAYOR PRO TEM
Lisa Bist
COUNCIL MEMBERS
Claudia C. Alvarez
Carlos Bustamante
Alberta D. Christy
Mike Garcia
Jose Solorio

CITY OF SANTA ANA

FIRE DEPARTMENT
1439 SO. BROADWAY
SANTA ANA, CALIFORNIA 92707

CITY MANAGER
David N. Ream
CITY ATTORNEY
Joseph W. Fletcher
CLERK OF THE COUNCIL
Patricia E. Healy

APR 11 2005

March 30, 2005

Mr. Darrell Fah
BP West Coast Products LLC
4 Centrepointe Drive
La Palma, CA 90623

Re: Response to February 4, 2005 letter from Delta Environmental Consultants, Inc.
ARCO Facility # 206 302 W. First Street Santa Ana, CA

Dear Mr. Fah,

I have read the "Work Plan for Confirmation Soil Borings" prepared by your consultant, Delta Environmental Consultants, Inc., dated February 4, 2005. The Santa Ana Fire Department does not approve the work plan for the following reasons. Upon review of all the reports listed in the references section, the following conditions at this site are present. The location of confirmation soil boring CSB-4 is under the south end of the west tank, not the east tank as shown in the work plan. The main body of the petroleum hydrocarbon contamination is found in line with the northwest corner of dispenser #5 and boring VW-6 (formerly B-6) at depths between 10 and 40 feet below grade. Only one of the three proposed confirmation borings is located in the main body of the petroleum hydrocarbon contamination. The location of proposed boring CSB-7 is in a location that has already been confirmed clean (ND). The proposed location of boring CSB-6 is in an area already documented having less than 50 ppm TPH. Neither boring CSB-6 nor CSB-7 will identify a reduction of the petroleum hydrocarbon contamination in the main plume at the site.

If you have any questions, please feel free to call me at (714) 647-5761.

Sincerely,

Jay Bento

JAY BENTO, UST INSPECTOR
FIRE PREVENTION BUREAU

for PHILLIP GARCIA, FIRE CHIEF

JB/mc

Cc: Valerie Jahn-Bull, RWQCB 3737 Main Street, Ste. 500 Riverside, CA 92501-3339
Aaron Baird, Delta 27141 Aliso Creek Road, Suite 270 Aliso Viejo, CA 92656