



ADVANCED SCIENCES, INC.

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FAX Cover Sheet

DATE 7-23-91 TIME 900 am/p.m. NO. OF PAGES (Incl. this cover sheet) 8

FROM Len Sinfield

SUBJECT Analytical Results for Oakland Airport ASR#9 & TRACON

If transmission is incomplete or illegible, please call at the phone number listed above.

PLEASE DELIVER THE FOLLOWING PAGES TO:

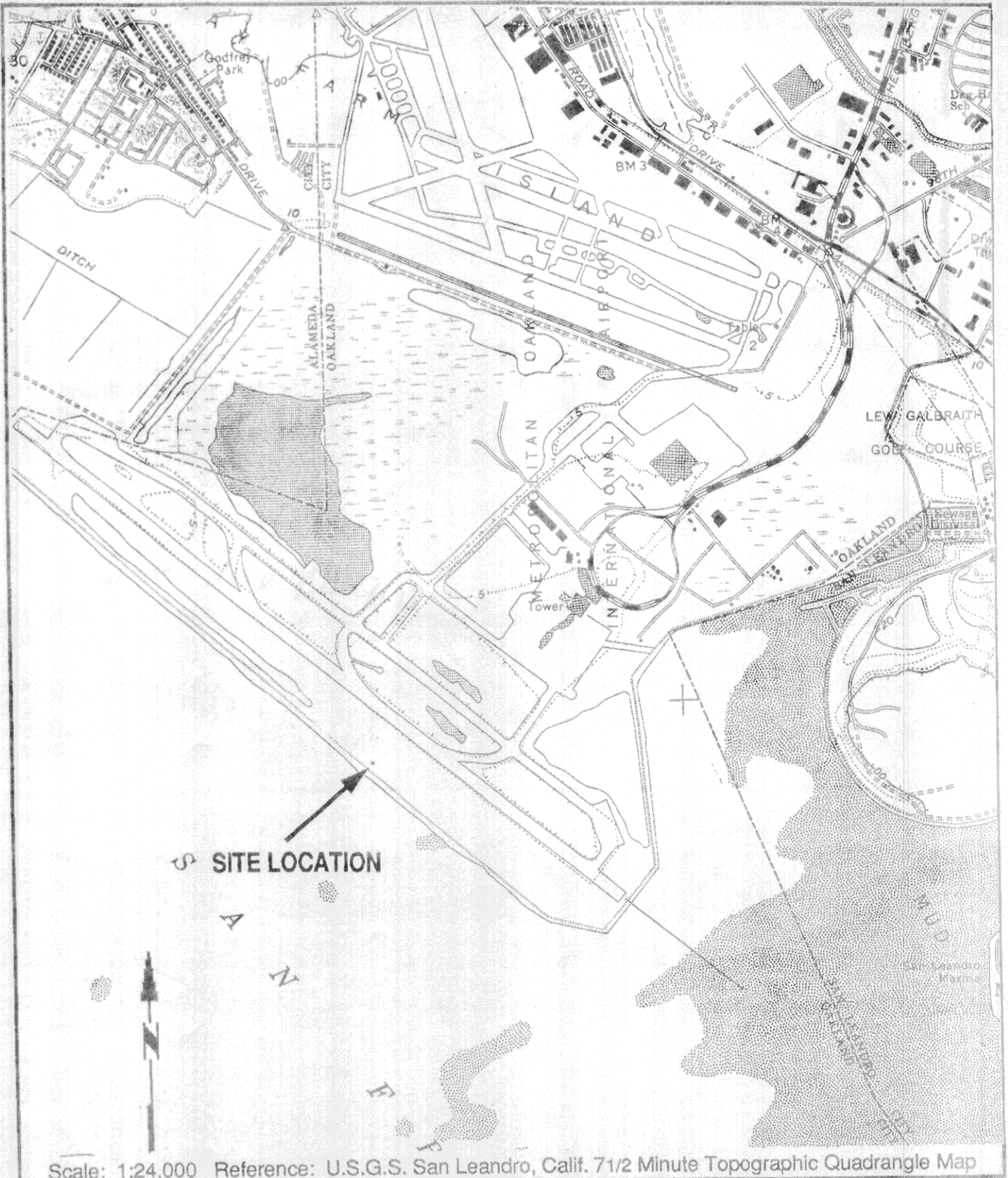
NAME Barney Chan FAX NUMBER (415) 568-3706

COMPANY/LOCATION Alameda County Health

COMMENTS

TRACON 5 - Stackpile - Jar broken in route
TRACON 1 - Heavier than Diesel
Probably Fuel oil
See Chromatogram

TRANSMITTED FROM: Fax (619) 560-8538

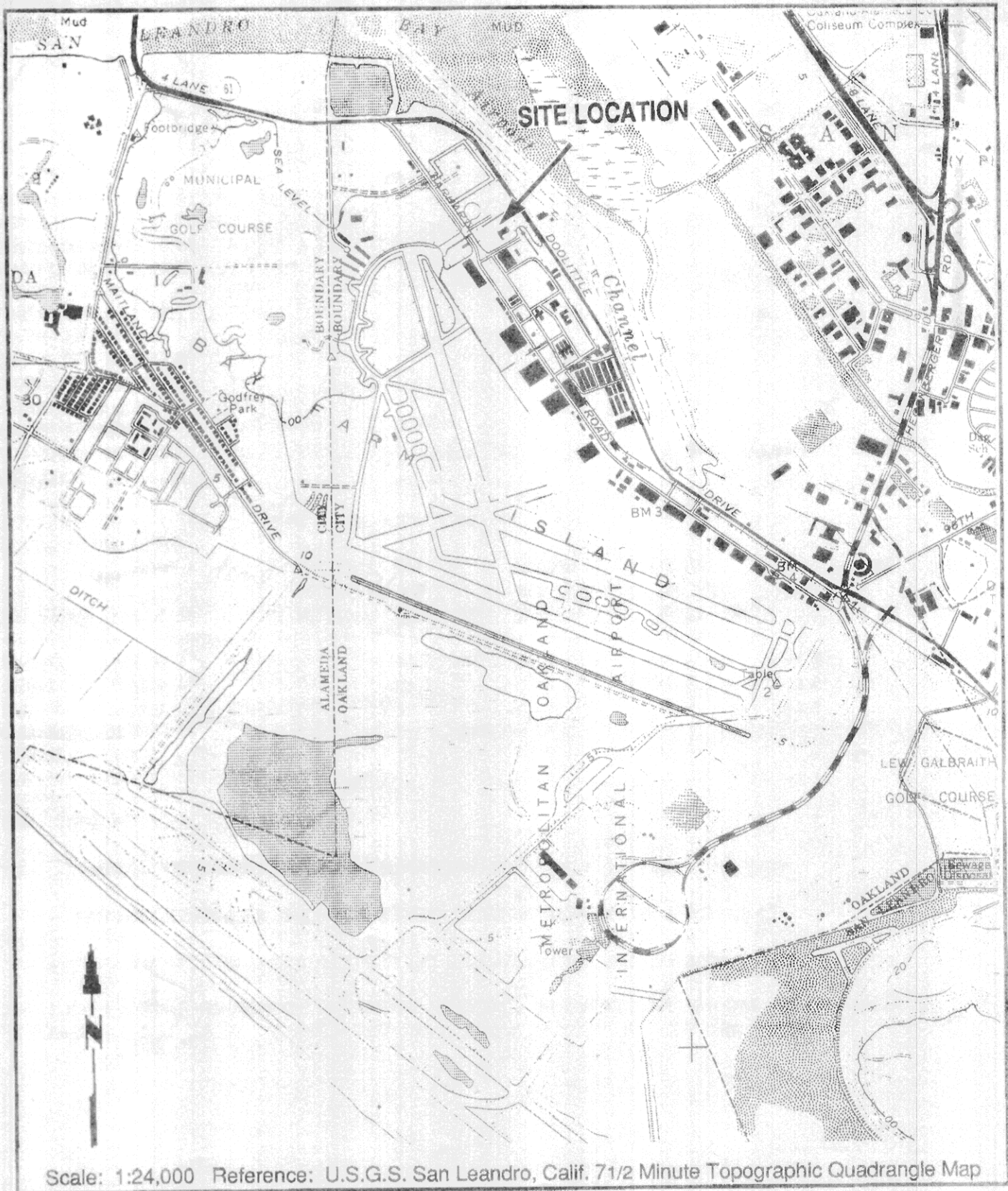


Scale: 1:24,000 Reference: U.S.G.S. San Leandro, Calif. 7 1/2 Minute Topographic Quadrangle Map

Site Location
Federal Aviation Administration
Oakland International Airport ASR #9 Facility
Tank Removal

PROJECT NO. 9788-2208
 FIGURE 1





Scale: 1:24,000 Reference: U.S.G.S. San Leandro, Calif. 7 1/2 Minute Topographic Quadrangle Map



Site Location
Federal Aviation Administration
Oakland International Airport TRACON Facility
Tank Removal

PROJECT NO. 9788-2212

FIGURE 1

QUALITY ASSURANCE LABORATORY
 6605 NANCY RIDGE DRIVE
 SAN DIEGO, CALIFORNIA 92121
 (619) 552-3636

ADVANCED SCIENCES, INC.
 ATTN: L. SINFIELD
 4909 MURPHY CYN. RD., #400
 SAN DIEGO, CA 92123

DATE OF REPORT	MAY 17, 1991
DATE RECEIVED	MAY 3, 1991
DATE OF SAMPLE	MAY 2, 1991
DATE COMPLETED	MAY 16, 1991
ANALYZED BY	VJ
SAMPLE TYPE	2 WATER
PROJECT NAME	FAA TANKS
PROJECT NUMBER	9788-22

ANALYSES RESULTS

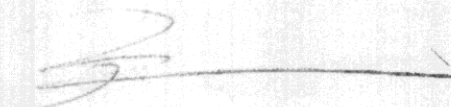
ANALYSIS	METHOD	UNITS	LOG NUMBER:	6123-91	6124-91
			SAMPLE ID:	TRACON 1	TRACON 2
TPH	DHS	MG/L		36.6 *	
BENZENE	EPA 602	UG/L			<0.5
TOLUENE	EPA 602	UG/L			<0.5
ETHYLBENZENE	EPA 602	UG/L			<0.5
XYLENE	EPA 602	UG/L			<1.5

TPH - TOTAL PETROLEUM HYDROCARBONS

DHS - RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

TOTAL PETROLEUM HYDROCARBON ANALYSES RESULTING IN HYDROCARBONS OF THE RANGE C10-C23

* CONTAINS OTHER HEAVY MOLECULAR WEIGHT COMPOUNDS


 PETER SHEN
 LABORATORY DIRECTOR

PS/ft

C10-C23

+ heavier mol. wt compd.

36.6 ppm

6123-91 (1 Processed: 05-11-1991 06:52:52, segment 27, cycle 86
 RAW DATA SAVED IN FILE K:G050886.PTS

***** AREA PERCENT REPORT *****

***** 05-11-1991 06:52:57 Version 5.0 *****
 * Sample Name: 6123-91 (10ML5) Data File: K:G050886 *
 * Date: 05-11-1991 06:18:01 Method: N:9015 *
 * Interface: 5 Cycle#: 86 Operator GMB Channel#: 1 Vial#: N.A. *
 * Starting Peak Width: 5 Threshold: .1 Area Threshold: 5 *

 * Instrument Type: Hewlett-Packard 5890 Column Type: Megabore; OV-5 *
 * Solvent Description: N/A(Purge & Trap)/ CS2 *
 * Conditions: 40 C for 3 min; 8 C/ min to 250 C; 40 C min->280/4 *
 * Detector 0: FID Detector 1: FID *
 * Misc.-Information: *

Starting Delay: 0.00 Run Time: 35.00

PK No.	Ret Time	Peak Area	Area %	B L	Peak Ht.	Normalized %	Area/ Height
1	1.900	370	0.0708	1	132	0.490	2.8
3	3.160	483	0.0926	1	100	0.641	4.8
9	6.980	420	0.0804	2	100	0.557	4.2
10	7.060	673	0.1289	2	120	0.893	5.6
11	7.280	327	0.0626	2	54	0.433	6.1
12	7.440	124	0.0238	2	23	0.165	5.4
17	8.400	505	0.0968	2	127	0.670	4.0
18	8.480	599	0.1147	2	118	0.794	5.1
19	8.830	193	0.0370	1	27	0.256	7.1
20	9.170	117	0.0224	2	23	0.155	5.0
21	9.280	154	0.0295	2	26	0.204	6.0
23	9.920	265	0.0507	2	31	0.351	8.7
24	10.030	795	0.1523	2	55	1.055	14.5
25	10.900	762	0.1459	2	83	1.010	9.2
26	11.440	876	0.1678	2	67	1.162	13.0
27	11.930	517	0.0990	2	62	0.685	8.3
28	12.610	2580	0.4943	2	196	3.423	13.1
29	12.970	791	0.1515	2	63	1.049	12.5
30	13.440	1230	0.2357	2	168	1.632	7.3
31	13.980	388	0.0743	2	69	0.514	5.6
32	14.220	671	0.1285	2	58	0.890	11.5
33	14.930	3552	0.6804	2	170	4.712	20.8
34	16.230	6581	1.2606	2	143	8.729	45.9
35	16.860	13353	2.5577	3	1018	17.712	13.1
36	17.590	2132	0.4084	4	181	2.828	11.8
37	17.980	1853	0.3549	4	164	2.457	11.3
38	18.340	7087	1.3575	2	448	9.401	15.8
39	19.130	4345	0.8322	2	174	5.763	24.9
40	19.670	2998	0.5744	2	244	3.977	12.3
41	20.060	3117	0.5971	2	268	4.135	11.6
42	20.800	2453	0.4698	2	169	3.253	14.5
43	21.530	1067	0.2044	2	105	1.416	10.1
44	21.920	4246	0.8134	2	352	5.633	12.1
45	22.820	514	0.0984	2	53	0.682	9.7
46	23.10	863	0.1654	1	115	1.145	7.5
47	23.620	2961	0.5673	2	316	3.928	9.4

50	24.560	286	0.5494	2	246	3.804	416 P07
51	24.930	3262	0.6248	2	230	4.327	11.7
52	25.200	7722	1.4792	2	419	10.243	14.2
53	25.600	6319	1.2103	2	472	8.382	18.4
54	26.000	7001	1.3411	2	490	9.287	13.4
55	26.400	15611	2.9903	2	695	20.708	14.3
56	26.610	16229	3.1087	2	976	21.528	22.4
57	26.990	11910	2.2814	2	888	15.799	16.6
58	27.180	20882	3.9999	2	1034	27.699	13.4
59	27.710	29703	5.6895	2	1298	39.400	20.2
60	28.150	37120	7.1104	2	1533	49.239	22.9
61	28.440	58265	11.1607	2	1867	77.288	24.2
62	28.990	20159	3.8615	2	1432	26.741	31.2
63	29.190	18258	3.4974	2	1435	24.219	14.1
64	29.520	41717	7.9909	2	1891	55.337	12.7
65	30.450	33712	6.4574	2	1186	44.718	22.1
66	30.910	75387	14.4404	2	1455	100.000	28.4
67	32.620	32607	6.2459	2	800	43.253	51.8
68	33.510	7286	1.3956	2	293	9.665	40.8
69	34.910	1066	0.2042	1	85	1.414	24.8

233601

c10-c23

heavier mol wt compd

288457

Total Area: 322058 Area Reject: 100 One sample per 0.600 sec.

Areas, times, and heights stored in: K:G050886.ATB

Data File = K:G050886.PTS Printed on 05-11-1991 at 06:53:03

Start time: 0.00 min. Stop time: 35.00 min. Offset: 0 mv.

Full Range: 25 millivolts

