



1365 VANDER WAY SAN JOSE, CALIFORNIA 95112

(408) 297-6969 FAX (408) 297-7716



March 23, 1990 Project 4454/2

Mrs. Naoko Ward The Plymouth Group 2047 Old Middlefield Road Mountain View, California 94043

Subject:

Stockpile Soil Sampling

Sunnyside Nursery Hayward, California

Dear Mrs. Ward:

This letter summarizes the field work and laboratory results of Terratech's sampling of stockpiled soil from the diesel fuel tank removal at the Sunnyside Nursery site in Hayward, California.

On January 26, 1990 two underground fuel tanks (a 5000-gallon gasoline tank and a 4000-gallon diesel tank) were uncovered and removed from the subject property. Laboratory results for samples collected from the two stockpiles indicated that the soils (tank backfill materials) could be handled as "non-hazardous" since the concentrations of total petroleum hydrocarbons (TPH) were below 1000 parts per million (ppm). However, to qualify for Class III landfill disposal it was required that the diesel stockpile be aerated until the levels of total petroleum hydrocarbons (TPH) were below 100 ppm (see Terratech's letter of February 26, 1990). This soil was accoringly moved to an enclosed portion of the property to undergo the landfarming aeration.

As requested, on March 8, 1990 a member of our environmental staff collected four samples from the aerating soil. Unfortunately, since the interim weather had been generally cloudy and cool, it was apparent that little aeration had occurred.

All samples were collected a minimum of six inches below the exterior surface of the spread soil in clean, two-inch diameter brass liners. The samples were immediately sealed with foil and taped end caps, labeled and iced. The samples were kept refrigerated from the time of collection to the time of testing. Standard chain-of-custody procedures were followed to document sample collection, handling and analysis requests (see attached record).

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These samples were submitted to Anametrix, Inc., a State certified laboratory, for compositing and analysis of TPH as diesel and individual fuel constituents - benzene, toluene, ethylbenzene and xylenes (BTEX).

Laboratory results indicate that further aeration is required before TPH levels in the diesel soil stockpile will be below 100 ppm. The present concentration of TPH as diesel is 160 ppm with a trace amount of total xylenes (see attached lab report). This is a 20% decline from the initial 200 ppm. Additional discing and warmer weather will facilitate the aeration process.

We suggest contacting a licensed contrator to discuss and arrange special soil disposal if development constraints require action before TPH levels have dropped below 100 ppm. Per the request of the Hayward Fire Department, we understand that all tank backfill soils will be disposed of offsite.

Sincerely,

TERRATECH, INC.

M Thomas C. Morin

Reviewed by;

Eric R. Lautenbach

CE 42437

Attachments (Chain of Custody Record and Laboratory Report)



CHAIN OF CUSTODY RECORD

P.O. NO. 2961 TURNAROUND: NORMAL

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Relinquished by(signature): Date / Time Received for Labor Company or Agency: TERRATECH, INC. Date / Time Received for Labor (signature) (Signature) (Signature) (Signature)					ratory by:	: Date / Time Remarks/Shi 3/9/90 600				ipping Information Send reports to: Eric Lautenbach 1365 VANDER WAY, SAN JOSE 95112								

ANAMETRIX INC

Environmental & Analytical Chemistry 1961 Concourse Drive, Suite E, San Jose, CA 95131 (408) 432-8192 • Fax (408) 432-8198



Eric Lautenbach Terratech, Inc. 1365 Vander Way San Jose, CA 95112

March 21, 1990 Anametrix W.O.#: 9003114 Date Received : 03/09/90

Purchase Order#: 2961

Dear Mr. Lautenbach:

Your samples have been received for analysis. The REPORT SUMMARY lists your sample identifications and the analytical methods you requested. The following sections are included in this report: RESULTS.

NOTE:

Amounts reported are net values, i.e. corrected for method blank contamination.

If there is any more that we can do, please give us a call. for using ANAMETRIX, INC.

Sincerely,

Terry Cóoke TPH Supervisor

TC/dm

REPORT SUMMARY ANAMETRIX, INC. (408) 432-8192

Client Address	: Terratech, Inc. : 1365 Vander Way		Anametrix W.O.#: 9003114 Date Received : 03/09/90
City Attn.	: San Jose, CA 95: : Eric Lautenbach	112	Purchase Order#: 2961 Project No. : 4454/2 Date Released : 03/21/90
Anametri	X Sample I.D.	Date Matrix Sampled	Date Date Inst Method Extract Analyzed I.D.
RESULTS			
9003114-0	01 S-7a,b,c,d	SOIL 03/08/90	O TPH 03/13/90 03/15/90 N/A

ANAMETRIX, INC. (408) 432-8192

Sample I.D. : Anametrix I.D.: 9003114-01 4454/2 S-7a,b,c,d : 27 Matrix Analyst SOIL Date sampled: 03/08/90 Supervisor Date released : 03/21/90
Date ext. TOG : N/A
Date anl. TOG : N/A Date anl.BTEX: 03/16/90 Date ext.TPHd: 03/13/90 Date anl. TPHd: 03/15/90

	Compound Name	Reporting	Amount
		Limit	Found
CAS #		(ug/kg)	(ug/kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Diesel	5 5 5 5 10000	ND ND ND 7 160000

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following either EPA Method 3510 or 3550.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.