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1500 So. Union Avenue Bakersfield, California 93307 Phone: (805) 835-7700 FAX: (805) 835-7717

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December 1, 1992

Eva Chu Alameda County Department of Environmental Health 80 Swan Way, Rm. 200 Oakland, CA 94621

Re: Scotsman Corp., Dublin CA

Groundwater Remediation Third Quarter Report

Dear Ms. Chu:

This letter is an update on the groundwater remediation project underway at the Scotsman Corporation facility, 6055 Scarlett Ct., Dublin. On August 19, 1992, approximately 125 cubic yards of soil was removed along with the groundwater monitoring wells MW-1, MW-6, and RW-2. A tabulation of the concentrations reported for the samples collected from the remaining wells on October 21, 1992 is presented in Table 1. All samples were analyzed for BTX&E and TPH (gasoline). The analytical report is enclosed.

TABLE 1 (Analytical Results for October 21, 1992)

Sample ID.	Benzene (ppb)	TPH (ppb)
MW-2	ND	ND
MW-3	ND	ND
MW-4	ND	ND
MW-5	ND	ND
MW-7	ND	ND
MW-8	ND	ND
RW-1	ND	ND
RW-3	ND	ND
Influent (RW-1 & RW-3)	ND	ND
Effluent	ND	ND

ND = No Detection



Eva Chu Alameda County Department of Environmental Health December 1, 1992 Page Two

Depth to groundwater measurements were recorded on October 20, 1992 and calculated to Mean Sea Level. The results are presented in Table 2.

TABLE 2 (Groundwater Elevation for December 1, 1992)

WELL	WELL ELEVATION	WATER ELEVATION	DEPTH TO WATER
MW-2	329.49	322.49 ft msl	7.00 ft
MW-3	327.69	321.99 ft msl	5.70 ft
MW-4	329,19	321.49 ft msl	7.70 ft
MW-5	328,44	321.59 ft msl	6.85 ft
MW-7	328,78	321.78 ft msl	7.00 ft
MW-8	328.54	321.69 ft msl	6.85 ft
RW-1	328.94	**	**
RW-3	329.36	**	**

^{**} Pumping well, not measured

A groundwater elevation contour map is presented on Plate 1.

Upon review of the last four quarterly monitoring reports for the remaining wells, it can be shown that all of the wells have been reported to have hydrocarbon concentrations below detection since September, 1991 (see Table 3). The one exception is MW-5, sampled on April 23, 1992, which had been reported clean for the four months proceeding and all subsequent sampling events. The concentrations for BTX&E in the April, 1992 analysis for MW-5 was below the California Drinking Water Standard. There is presently no standard set for total petroleum hydrocarbons, however, the reported level of 110 ppb is well below the limits for the volatile constituents toluene, ethylbenzene, and xylene. Since all of the wells have been below detection in the last four quarterly sampling events, with the one exception, it can be shown that a historic trend of clean analysis has been established.



Eva Chu Alameda County Department of Environmental Health December 1, 1992 Page Three

TABLE 3
Quarterly Hydrocarbon Concentrations
(Sept. 1991 to Oct. 1992)

DATE	MW-2	MW-3	MW-4	MW-5	MW-7	MW-8	RW-1	<u>RW-3</u>
Benzene (ppb) TPH (ppb)								
9/17/91	ND	ND	NA	ND	ND	ND	ND	NA.
	ND	ND	NA	ND	ND	ND	ND	NA
4/23/92	ND							
	ND	ND	ND	110	ND	ND	ND	ND
7/10/92	ND							
	ND							
10/21/92	ND							
	ND							

NA = Not Analyzed ND = No Detection

Based on the data presented, it is recommended that closure of the site be initiated. In addition, it is recommended that all of the remaining wells be destroyed in a manner approved by the Zone 7 Flood Control District. Monthly monitoring of the groundwater will continue until closure of the site is approved.

If you have further questions or require additional information, please give me a call at (805) 835-7700.

Sincerely,

Timothy C. Reed Project Geologist

Encl. Plot Plan Plot Detail

Groundwater Contour Map

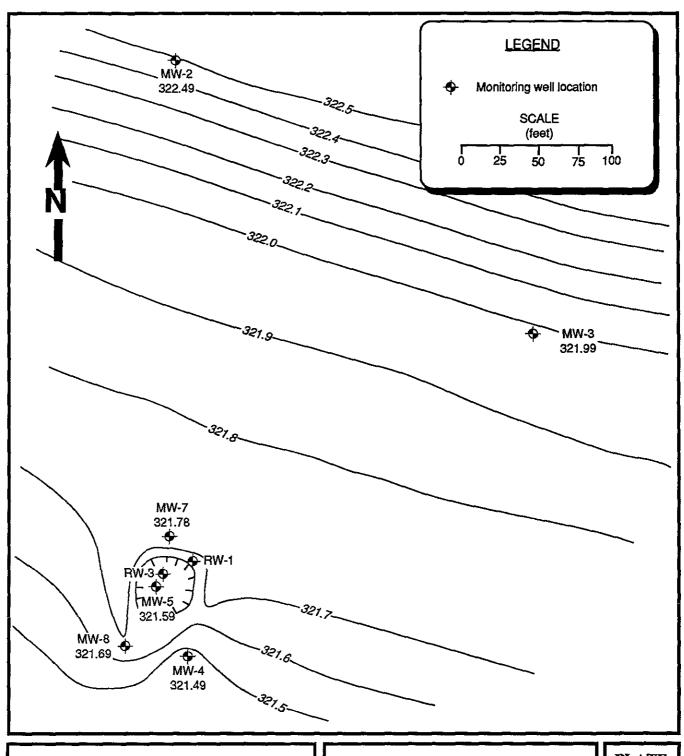
Laboratory Analysis

cc: Ms. Amanda Howard, First Interstate Bank Mr. Bud Gennoy, John P. Gennoy Realty Robert J. Becker

State Registered Geologist

No. 5076

Hoht J. Dece





Project Number: B7172.42

12-1-92

SCOTSMAN CORP. DUBLIN, CA.

SHALLOW GROUNDWATER CONTOUR MAP (DECEMBER 1, 1992) **PLATE**

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ANALYSIS REPORT

Attention: Project:	RESI 1500 Baker	South Unior rsfield, CA 9 I-L, Project	3307	Dat BTI TPF	e Sampled: e Received: EX Analyzed: Ig Analyzed: Id Analyzed:	10-21-92 10-21-92 10-21-92 10-21-92 NR Water	!
Detection L	imit:	Benzene ppb 0.5	Toluene ppb 0.5	Ethyl- benzene ppb 0.5	Total Xylenes ppb 0.5	TPHg <u>ppb</u> 50	TPHd <u>ppb</u> 50
SAMPLE Laboratory Ide	entificati	on					
RW-1 W1210357		ND	ND	ND	ND	ND	NR
RW-3 W1210358		ND	ND	ND	ND	ND	NR
RW-5 W1210359		ND	ND	ND	ND	ND	NR
MW-2 W1210360		ND	ND	ND	ND	ND	NR
MW-3 W1210361		ND	ND	ND	ND ND ND		

ppb = parts per billion = $\mu g/L$ = micrograms per liter.

ANALYTICAL PROCEDURES

BIEX—Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPHg-Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPHd-Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

Laboratory Representative

November 3, 1992
Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1211)

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested.



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ANALYSIS REPORT

Attention: Project:	RESN 1500 Baker	South Union rsfield, CA 9 I-L, Project	3307	Dat BTI TPI	e Sampled: e Received: EX Analyzed: Ig Analyzed: Id Analyzed:	10-21-92 10-21-92 10-21-92 10-21-92 NR Water	<u>2</u> 2
Detection L	imit:	Benzene ppb 0.5	Toluene ppb 0.5	Ethyl- benzene ppb 0.5	Total Xylenes ppb 0.5	TPHg <u>ppb</u> 50	ТРНа <u>ppb</u> 50
SAMPLE Laboratory Ide	entificati	on					
MW-4 W1210362		ND	ND	ND	ND	ND	NR
MW-8 W1210363		ND	ND	ND	ND	ND	NR
MW-7 W1210364		ND	ND	ND	ND	ND	NR
INF W1210365		ND	ND	ND	ND	ND	NR
EFF W1210366		ND	ND	ND	ND	ND	NR

ppb = parts per billion = $\mu g/L$ = micrograms per liter.

ANALYTICAL PROCEDURES

BTEX—Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

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Laboratory Representative

November 3, 1992

Date Reported

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