March 5, 1999

Scott O. Seery, CHMM Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, Calif. 94502-6577

RE: <u>People v. National Airmotive Corporation</u>

Alameda County Superior Court, Case No. H-179506-2

Dear Mr. Seery:

When we spoke by telephone a few weeks back, you indicated some concern over the fact that you had not received copies of the test results from July, 1998, for the monitoring wells installed in connection with the test cell issues raised in the above-referenced matter. Accordingly, I spoke with National Airmotive Corporation regarding obtaining another copy of those results to forward to you.

Enclosed please find a copy of those results, as reported by Envirometrix Corporation. I believe the results and commentary are self-explanatory. Of course, if you have any questions, please feel free to contact me.

On behalf of NAC, I apologize for any inconvenience caused by the delay in getting these materials to you. Once again, thank you for your courtesy and cooperation in the NAC matter.

very truly yours,

WILLIAM D. CONNELL

Enclosure

cc: Robert Chambers, Esq. (w/out enclosure)

National Airmotive Corporation (w/out enclosure)





Environmental Consultants

July 27, 1998

National Airmotive Corporation 7200 Earhart Road Oakland, California 94521-4504

Attention: Mr. Lorne Dyke

ANNUAL GROUNDWATER MONITORING AND REQUEST FOR CLOSURE LETTER NAC TEST CELL FACILITY EARHART ROAD OAKLAND, CALIFORNIA EMC JOB No. 198499

This letter presents the results of the annual groundwater monitoring conducted in April and July 1998, by Environmetrix Corporation (EMC) for groundwater monitoring wells MW-1 through MW-3 at the National Airmotive Corporation (NAC) Test Cell Facility (Plates 1 and 2). This annual sampling event was conducted to fulfill the requirements of the Alameda County Department of Environmental Health (ACDEH).

LIMITATIONS

This investigation was performed in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. No warranty or guarantee, expressed or implied, is made as to the conclusions and opinions included in this report.

The findings of this report are current as of the date of this report. However, changes in the conditions of the property can occur with the passage of time, whether they are due to natural processes or the works of man on this or adjacent properties. Therefore, the actual conditions discovered may change over time.

This report was prepared for the sole use of NAC, the only intended beneficiary of our work. No other party should rely on the information contained herein without the prior written consent of EMC.

PROCEDURES

Groundwater elevations were measured in all wells on April 23 and July 23, 1998. After the column of water in each well was calculated, approximately three well volumes of water were purged from each well until temperature, pH, and conductivity readings stabilized. A new pre-cleaned, disposable, weighted bailer was used to purge the groundwater from wells MW-1 through MW-3. Once the groundwater parameter readings stabilized during purging, or three casing volumes of water were removed, water samples were collected with the new disposable bailer and decanted into laboratory supplied containers. The samples were immediately placed in an iced cooler and transported under



Mr. Lorne Dyke National Airmotive Corporation July 27, 1998 Page 2 of 3

chain-of-custody procedures to Excelchem Environmental Laboratory, Roseville, a California-certified laboratory for chemical analysis. The samples were analyzed for the following:

- ▲ Total petroleum hydrocarbons quantified as jet fuel (TPH-JF) using EPA Method 8015 modified
- Total petroleum hydrocarbons as diesel (TPH-D) using EPA Method 8015 modified
- A Benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8020

As required by the ACDEH, all the groundwater samples were to be analyzed for semi-volatile organic compounds (SVOCs) using EPA Method 8270 if TPH-JF was detected. However, TPH-JF was not detected above reported laboratory detection limits in the water samples, and therefore, SVOCs were not analyzed.

Due to a miscommunication between EMC and the laboratory, the water samples collected on April 23, 1998 were not analyzed for TPH-D. Therefore, EMC monitored and sampled the wells on July 23, 1998 and analyzed the samples for TPH-D.

RESULTS

Groundwater elevation data and historical results of laboratory analyses for the chemical analysis are summarized in Table 1. Groundwater elevation contour maps for the April 23 and July 23, 1998 groundwater monitoring events are presented on Plates 3 and 4. The general direction of groundwater flow is interpreted to be to the west-southwest at a magnitude of 0.012 foot per foot for the April 23, 1998 event and 0.017 foot per foot for the July 23, 1998 event. Copies of laboratory reports are attached.

The following are the results of the groundwater sampling and laboratory analyses:

▲ No TPH-JF, TPH-D, or BTEX constituents were detected above reported laboratory detection limits in the water samples collected from wells MW-1 through MW-3.

CASE CLOSURE REQUEST

Mr. Scott Seery of the ACDEH prepared a letter to NAC dated February 21, 1996 that stated: "Should concentrations of targeted jet fuel constituents in sampled water suggest that the plume is stable and not discharging into the tidal marsh, or plume constituents are below levels of concern based on toxicity values for estuarine organisms, no further action will be required." The letter also required that the monitoring be performed annually for 2 years after the well installation. A copy of the ACDEH letter is attached.

Two annual monitoring and samplings events have occurred since the installation of the groundwater monitoring wells at the site. Review of Table 1 indicates that the concentrations of TPH-JF and TPH-D have decreased over time and were not detected above reported laboratory detection limits in the samples collected during the April and July 1998 sampling events. All other targeted jet fuel constituents (BTEX and SVOCs) have not been detected above reported laboratory detection limits in



Mr. Lorne Dyke National Airmotive Corporation July 27, 1998 Page 3 of 3

any of the groundwater samples collected from the wells. Therefore, it is EMC's opinion that the targeted jet fuel concentrations are below levels of concern.

Based on the above, EMC requests no further investigative or remedial action at the site regarding the unauthorized release of jet fuel from the underground storage tanks. In addition, EMC requests case closure of the site on completion of the monitoring well destruction.

EMC hopes this letter provides the information you require at this time. If you have any questions or require additional information, please call.

Yours very truly,

ENVIROMETRIX CORPORATION

Norman Shopay

Principal

William G. Shipp

Associate Geologist, R.G. No. 6115

Enclosures:

Table 1

Results of Laboratory Analyses Groundwater Monitoring

Plate 1

Site Location Map Plate 2

Site Vicinity Map

Plate 3

Site Plan and Groundwater Elevations 4/23/98

Plate 4

Site Plan and Groundwater Elevations 7/23/98

Laboratory Reports and Chain-of-Custody Forms

ACDEH Letter Dated February 21, 1996

cc:

Alameda County Health Care Services

Department of Environmental Health 1131 Harbor Bay Parkway

Alameda, California 94502-6577

Attention:

Mr. Scott O. Seery

WGS/198499a/12



Table 1 Results of Laboratory Analyses and Groundwater Monitoring National Airmotive Corporation, Test Cell Facility Oakland, California

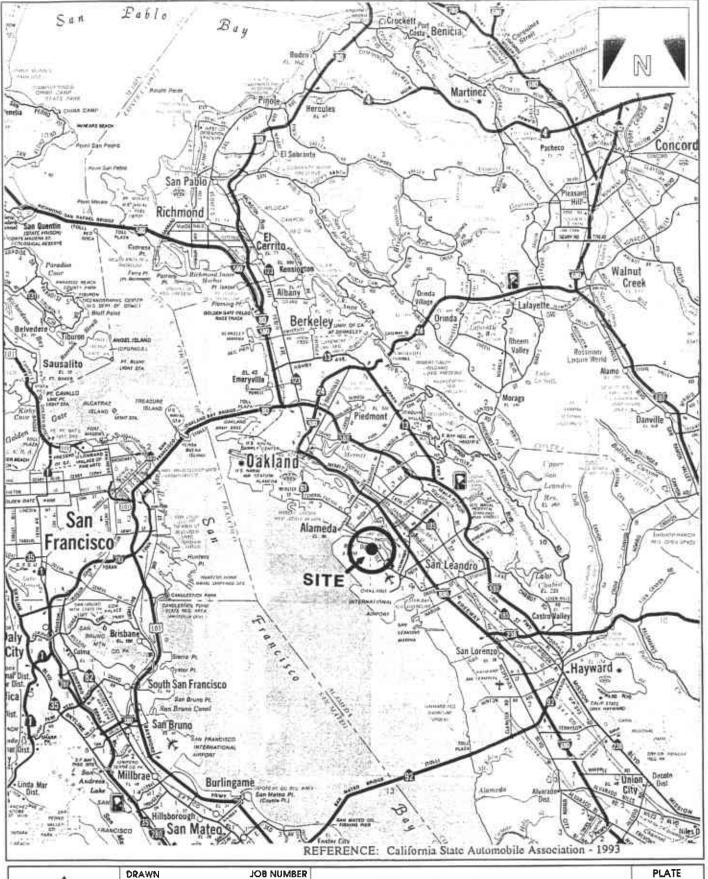
Values in shaded areas represent concentrations above laboratory detection limits in micrograms/liter (ug/L)
Values in un-shaded areas are the reported laboratory detection limits in ug/L.
Cells that are blank were not measured or sampled
TPH-JF = Total Petroleum Hydrocarbons as Jet Fuel
TPH-D = Total Petroleum Hydrocarbons as Diesel
SVOCs - Semi-Volatile Organic Compounds

ND - Not detected, see laboratory reports for detection limits

N/A - Not applicable, not sampled

TOC = Top of Casing Elevation

Well Number	Date	TPH-JF	TPH-D	SVOCs	Benzene	Toluene	Ethyl- benzene	Xylenes	Groundwater Elevation	Depth to Water	TOC Elevation
MW-1	4/3/96	ND	81	ND	ND	ND	ND	ND	6.97	3.06	10.03
	5/15/97	ND	67	ND	ND	ND	ND	ND	6.85	3.18	10.03
	4/23/98	ND	N/A	N/A	ND	ND	ND	ND	7.27	2.76	10.03
	7/23/98	N/A	ND	N/A	N/A	N/A	N/A	N/A	7.28	2.75	10.03
MW-2	4/3/96	ND	ND	ND	ND	ND	ND	ND	7.20	2.80	10.00
	5/15/97	ND	ND	ND	ND	ND	ND	ND	7.12	2.88	10,00
	4/23/98	ND	N/A	N/A	ND	ND	ND	ND	7.46	2.54	10.00
	7/23/98	N/A	ND	N/A	N/A	N/A	N/A	N/A	7 69	2.31	10.00
MW-3	4/3/96	1300	2200	ND	ND	ND	ND	ND	6.22	3.51	9.73
	5/15/97	660	1100	ND	ND	ND	ND	ND	5.91	3.82	9.73
	4/23/98	ND	N/A	N/A	ND	ND	ND	ND	6.14	3,59	9.73
	7/23/98	N/A	ND	N/A	N/A	N/A	N/A	N/A	6.05	3.68	9.73

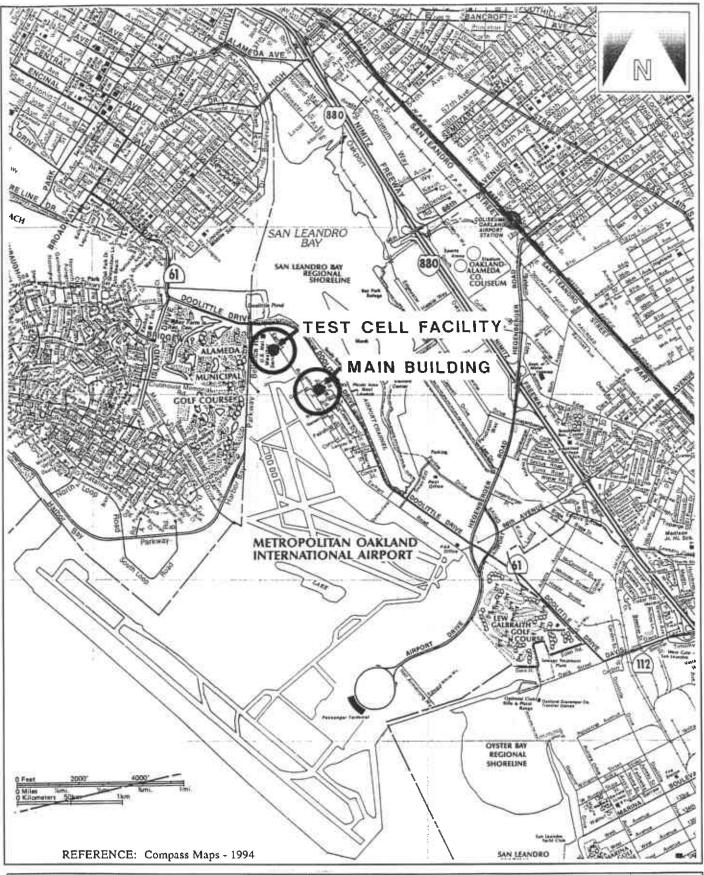




DRAWN	JOB NUMBER
WGS	198499
APPROVED	DATE
	09/98
REVISED	DATE

SITE LOCATION MAP

National Airmotive Corporation Test Cell Facility Oakland, California



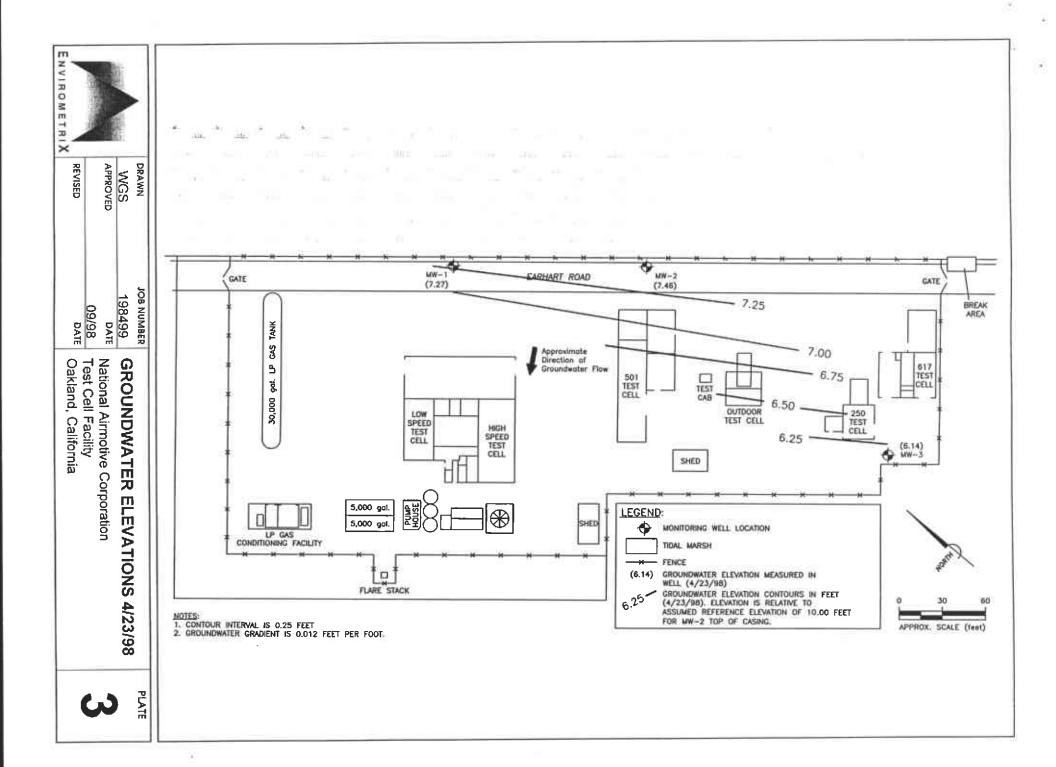


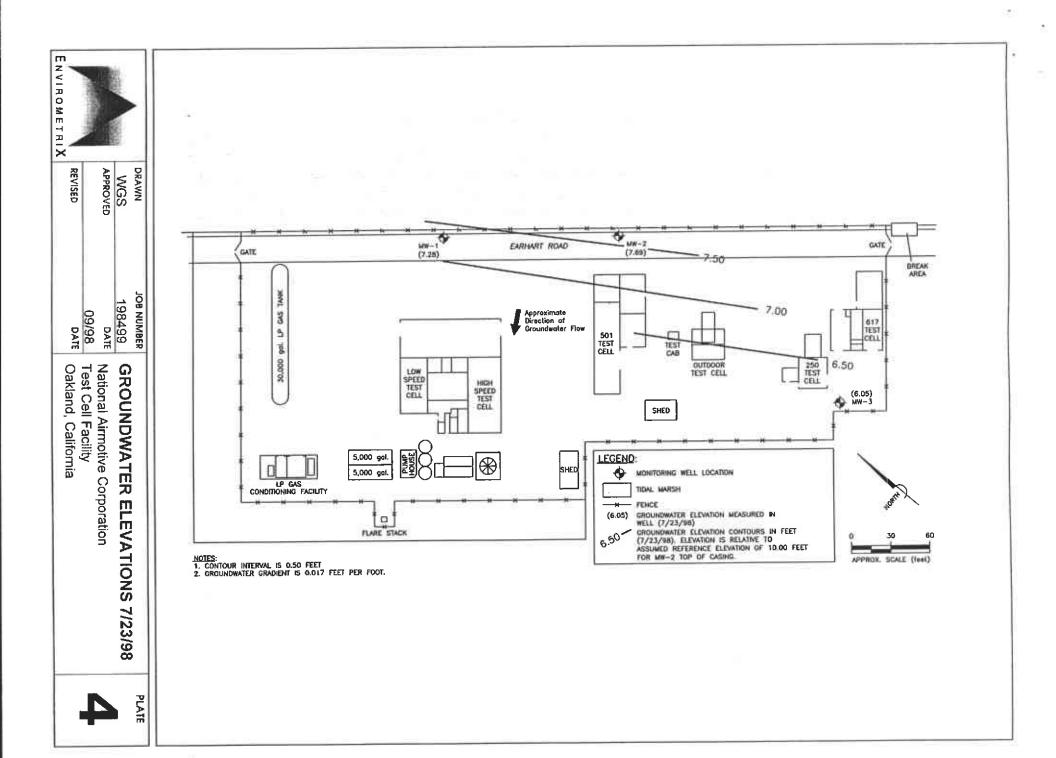
DRAWN WGS	JOB NUMBER 198499
APPROVED	DATE 09/98
REVISED	DATE

SITE VICINITY MAP

National Airmotive Corporation Test Cell Facility Oakland, California PLATE

2





ENVIROMETRIX CORPORATION 3950 Industrial Blvd Suite 200C West Sacramento CA 95691 Phone: (916) 375-1000 FAX: (916) 375-1024 ENVIROMETRIX Poject Name: NAC Test Cell Facility Job #: 198999						of TOR	Coll	i_b	held or p	L Vie	N	OF ✓	CI	JS	2	ď.					13-9	3	• .
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EXCELCHEM ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9

Roseville, CA 95678 Phone#: (916) 773-3664 Fax#: (916) 773-4784



ANALYSIS REPORT

Attention:

William Shipp

Envirometrix Corp.

3950 Industrial Blvd., Ste. 200C West Sacramento, CA 9569

Project:

NAC Test Cell Facility - 198499

Method:

EPA 8015m

Date Sampled: 07-23-98
Date Received: 07-23-98
TPHd Analyzed: 07-28-98
Matrix: Soil
Units: mg/kg

Client Sample I.D.	MW-I		MW-	2	MW-3					
LAB. NO.	S0798	289	S0798	290	S0798291					
ANALYTE	R/L	Results	R/L	Results	R/L	Results				
TPH as Diesel	50	ND	50	ND	50	ND				

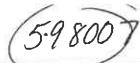
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	LCS % Recovery	LCSD % Recovery	Date Analyzed
TPH as Diesel	84	83	07-28-98

ND = Not detected. Compound(s) may be present at concentrations below the reporting limit. R/L = Reporting Limit

A

boratory Representative

07-30-98 Date Reported



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EXCELCHEM ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9 Roseville, CA 95678

Phone#: (916) 773-3664 Fax#: (916) 773-4784



ANALYSIS REPORT

Attention:

William Shipp

Envirometrix Corp.

3950 Industrial Blvd., Ste. 200C West Sacramento, CA 95691

Project:

NAC, Test Cell Facility

Date Received: Matrix: 04-24-98 Water

Matrix: Units:

ug/L

Client Sample LD.	MW-1		MW-2		MW-3							
LAB. NO.	W0498	214	W0498		W04982	16						
Date Sampled:	04-23-9	8	04-23-9	98	04-23-98	3						
BTEX Analyzed:	04-30-9	04-30-98 04-30-98 04-30-98		3						1855		
ANALYTE	R/L Res		R/L	Results	R/L	Results	R/L	Results	R/L	Results	R/L	Results
Benzene	0.5	ND	-0.5	ND	0.5	ND						
Toluene	0.5	ND	0.5	ND	0.5	ND						
Ethylbenzene	0.5	ND	0.5	ND	0.5	ND						
Total Xylenes	0.5	ND	0.5	ND	0.5	ND						196
TPH as Jet A	500	ND	500	ND	500	ND						

			QA/QC RECOVERY	The County		
	LCS	LCSD	Date Analyzed	194	7.5	
Benzene	102%	101%	04-30-98			
Toluene	101%	101%	04-30-98			
Ethylbenzene	101%	101%	04-30-98		2 1	
Total Xylenes	101%	101%	04-30-98			

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

R/L = Reporting Limit

aboratory Representative

05-05-98 Date Reported



ENVIROMETRIX CORPORATION

MEMORANDUM

DATE:

October 13, 1998

TO:

Lorne Dyke

National Airmotive Corporation

FROM:

Norman T. Shopay

RE:

Annual Groundwater Monitoring and Request for Closure Letter

EMC Job No.

198499

Enclosed are two (2) copies of Envirometrix Corporation's (EMC's), Annual Groundwater Monitoring and Request for Closure Letter, dated July 27, 1998.

Please forward one copy to Mr. Scott Seery at the Alameda County Department of Environmental Health.

If you have any questions, please call me.

Thank you.

Attachment:

Report (2 copies)

ns/jc/198499c/12