

earth metrics incorporated

December 5, 1991

Mr. Robert Enea Enea Properties 6670 Amador Plaza Road Dublin, CA 94568

ENEO Playa

Subject: Soil Screening Analysis: 6700/6766/6780 Amador Plaza Road,

Dublin, California (Earth Metrics file reference 11583B)

Dear Mr. Enea:

This letter summarizes the program of exploratory soil boring, soil and groundwater sampling, and testing performed on October 14, 1991, according to the work plan approved by Mr. Lin. A Level One Environmental Site Assessment for the subject site was performed by Earth Metrics on August 8, 1991. A copy of this report is provided in Appendix B.

According to Drilling Permit condition A-2, a copy of this report should be submitted to Mr. Craig A. Mayfield, Water Resources Engineer, Alameda County Flood Control and Water Conservation District; 5997 Parkside Drive, Pleasanton, California 94588 (Telephone Number (510) 484-2600). A copy of the Alameda County Flood Control and Water Conservation District Drilling Permit 91558 is provided in Appendix A.

A mechanical auger with an eight-lnch-diameter drill bit was used to obtain relatively undisturbed soil samples from five (5) boring holes. Figure 1 illustrates the locations of the borings on the tax assessor's parcel map. Each boring hole was then converted to a temporary groundwater monitoring well by placing well PVC casings, screen, and sand pack into the borings. Appendix C contains the boring logs and groundwater monitoring well construction reports.

Six (6) soil samples and five groundwater samples were collected. With the exception of boring hole B-1 where two soil samples were collected, one soil sample was collected from each boring hole by using a California modified soil sampler driven by 140 lbs hammer with 30-inch drop. Each soil sample represented the subsurface conditions of the soil above the groundwater table at seven feet below grade. Each temporary groundwater monitoring well was purged by bailing approximately five casing well volumes of water and sampled with a disposable teflon bailer.

A composite soil sample was prepared by the laboratory by compositing one soil sample from each boring. A composite groundwater sample was prepared by the laboratory by compositing one ground ater sample from each boring. Soil cuttings from the borings and ground that from well purging that were

generated during the course of this assignment have been contained in three (3) 55-gallon drums. All temporary monitoring wells were destroyed immediately after sampling by pulling out all well casings and screen and drilling out all sand pack materials. Immediately after collection of all samples, the sample containers were put in a refrigerated ice chest and taken to a DHS-certified laboratory. Documented Chain of Custody procedures were followed to ensure sample integrity. Steam cleaning was performed between borings to ensure sample quality.

Soil and groundwater samples were then submitted to a DHS-certified environmental laboratory for the following analysis: Total Petroleum Fuel Hydrocarbons as gasoline (TPHg) in groundwater with BTEX Distinction (EPA Test # 5030/8015/8020); Industrial Solvent Scan in soil (EPA Test # 3810/8015 Modified); and Total Petroleum Fuel Hydrocarbons as diesel (TPHd) in soil (EPA Test # 8015). Certified laboratory test results and QA/QC reports are provided in Appendix A. Additional groundwater test results for all individual groundwater samples are provided in Appendix D.

RESULTS

Analysis of composite soil sample C3 indicated the absence of any industrial solvents in the soil. Analysis of composite groundwater sample C1 indicated the presence of 6,500 parts per billion (ppb) of High Boiling Point Hydrocarbons (diesel) in the groundwater. Analysis of composite groundwater sample C2 indicated the presence of 11,000 ppb of Low/Medium Boiling Point Hydrocarbons (gasoline) in the groundwater; also present in sample C2 were 260 ppb of benzene, 50 ppb of toluene, 400 ppb of ethyl benzene, and 1,300 ppb of xylenes. All individual groundwater samples were subsequently analyzed for TPHg/BTEX. Analyses of these samples indicated the presence of TPHg in variable amounts ranging from 99,000 ppb in B1 to ND in B5; also present in sample B1W2 were 1,400 ppb of benzene, 570 ppb of toluene, 2,300 ppb of ethyl benzene, and 9,700 ppb of xylenes. The Maximum Contaminant Level (MCL) for benzene is 1 ppb; MCL for toluene is 2,000 ppb; MCL for ethyl benzene is 700 ppb; and MCL for xylenes is 10,000 ppb. There is no MCL for gasoline or diesel in the groundwater, only for the individually listed toxic constituents. MCLs are benchmarks used by regulatory agencies for assessing groundwater contamination.

CONCLUSIONS

Based on the soil test results which confirm absence of contamination in the soil above groundwater and the fact that the subject site itself has never been involved in any reported spill of hazardous materials, Earth Metrics concludes that no on-site contamination source is present. Absence of industrial solvents and volatile constituents of gasoline in the soil indicated that groundwater contamination is not caused by the soil on the subject site.

Interpretation of groundwater results suggests the migration of an underground contamination plume from existing or historic leaking underground storage tanks at an off-site location. The Level One Environmental Site Assessment for the subject site that was performed by Earth Metrics on August 8, 1991, identified one upgradient fuel leak incident (located at Montgomery Ward, 6900 Amador Plaza, Dublin) as a potential off-site source that could possibly impact the quality of the groundwater beneath the subject site.

Soil cuttings and groundwater that were generated during the course of this assignment have been contained in three (3) 55-gallon drums. Based on the existing results, these drums cannot be disposed as non-hazardous waste in California (i.e. Class III Landfill). Earth Metrics recommends consultation with Alameda County Hazardous Materials Unit regarding proper management of these drums.

Please feel free to call either of us with any other comments or questions you may have.

Sincerely,

Chris Zouboulakis

Environmental Scientist

Marc Papingau

Manager, Physical Sciences Department

California REA 00791

Enclosures: Certified Laboratory Test Results and Chain of Custody Records

Level One Environmental Site Assessment

Boring Logs

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Additional Groundwater Test Results

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BORING LOGS

APPENDIX C

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First Sample #:

Earth Metrics §7000 Marina Blvd. Brisbane, CA 94005 §Attention: Chrls Zouboulakis

Client Project ID: Matrix Descript:

ENEA Flaza

Water Analysis Method: EPA 5030/8015/8020 Received: Analyzed:

Sampled:

Oct 14, 1991 Oct 25, 1991 Oct 28, 1991

Reported: The Fill of the System and the property and the second sec

Nov 4, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

110-5013

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons µg/L (ppb)	Benzene µg/L (dqq)	Toluene µg/L (ppb)	Ethyl Benzene µg/L (ppb)	Xylenes μg/L (ppb)
•	83W2	210	1,5	N.D.	N.D.	N.D.
110-5014	B2W2	8,100	820	8.3	730	38
110-5013	§1W2	99,000	1,400	570	2,300	9,700
110-5016	84W2	250	2.4	1.4	6.4	28
3 5017	B5W2	N.D.	N.D.	N.D.	N.D.	1.3

Detection Limits:	30	0.30	0.30	0.30	0.30	

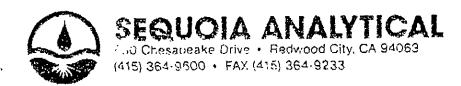
Low to Medium Boiling Point Hydrocarbons are quar "lated against a a ina standard Analytes reported as N.D. were not present above the stated limit of do notion.

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SEQUOIA ANALYTICAL

Mallé A. Springel Project Manager

1105013.EAR <1>



Earth Metrics 7000 Marina Blvd. 8Brisbane, CA 94005

Attention: Chris Zouboulakis

Client Project ID: ENEA Plaza

QC Sample Group: 1105013 - 14

Reported:

1001

QUALITY CONTROL DATA REPORT

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	Benzene	Toluene	Benzene	Xylenes
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Analyst:	J Jenks	J Jenks	J,Janks	រូ Jenks
Reporting Units:	μg/L	μg/L	μ g /L	μ g/L
Date Analyzed:	Oct 28, 1991	Oct 29, 1991	Oct 29, 1991	Oct 29, 1991
QC Sample #:	GBLK102891	GBLK102891	GBUK102891	GBLK102891
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SEQUOIA ANALYTICAL

Malle A. Springer
Project Manager

Recovery: Conc. of M.S. - Conc. of Samele 10

Spike Conc. Added

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(Conc. of M.S. + Conc. of M.S. (100)

1105013.EAR <3>



₿7000 Marina Bl∨d.

Éarth Metrics Client Project ID: ÉNEA Plaza

🖁 Brisbane, CA 94005

Attention: Chrls Zouboulakis QC Sample Group: 1105015 - 17 Reported: Nov 3, 1991

Nov 3, 1991

-105013.EAR <2>

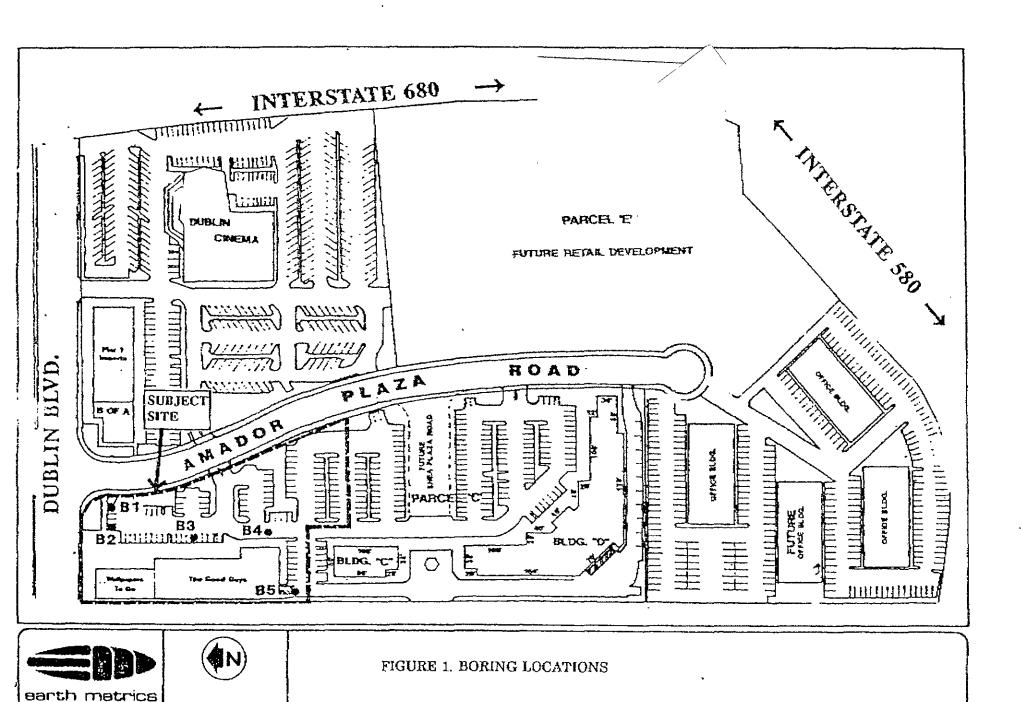
QUALITY CONTROL DATA REPORT

ANALYTE			Ethyl-	
MMALTIE	Benzene	Toluene	Emyi- Benzene	Xylenes
				
Method:	EPA 8020	EPA 8 020	EPA 8020	EPA 8020
Analyst.	J.Jenks	J Jenks	1.Jeckz	J.Jenka
Reporting Units:	μg/L	μ <mark>φ/</mark> L	na\r	μg/L
Date Analyzed:	Oct 29, 1991	Oct 29, 1991	Oct 29, 1991	Oct 29, 1991
QC Sample #:	GBLK102891	GBLK102891	GBLK102891	GBLK102891
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Conc.				
Adried:	10	10	10	30
Dana Matety				
Conc. Matrix Spike:	10	11	10	32
opike.	10	1 4	10	QZ.
Matrix Splke				
% Recovery:	100	110	190	107
•				
•				
Conc. Matrix	4.4		4.4	20
Spike Dup.:	11	11	11	33
Matrix Spike				
Duplicate				440
% Recovery:	110	110	110	110
	*.)			
Relative				
% Difference:	9.5	0.0	9.5	3.1

SEQUOIA ANALYTICAL

Project Manager

% Recovery:		Cons. of M.S Conc. of Sample	x 100	
		Spike Cono, Added		
Relative % Di	iff≉renca:	Conc. of M.S Conc. of M.S.D.	x 100	
		(Conc. of M.S. + Conp. of M.S.D.) / 2	-	



CLIENT: Earl	th Metrics				REP	ORT TO:	CHRIS			THE HAROUSE TIME: (5	Days	7
address: 7000	D MILLIND BID	ारी धर्म	flu		-		NUBOULA	ikis		The state of the s		
Bro	sbane CA	9400) 5				LETICA				5 H	
PKONE: (416	_				-		ONTGOME			24 HR. 48 HR.	72 1	dR.
	TE: ENEA PI		<u></u>	***************************************	-				- 4	S DAY 1 10 DAY	15 0	YAC
	6/6180 Am		nan R	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(3		REFERENCE:	PO # O	4035		·	
				U, Daring	8 _	をな	ARALYSIS	REGUESTED	1 7	The second		
Chi	is Zouboule	aki,	I'io	-14-91	200	198-20 AHAL	10.1f. 1			Composite & Rem		
WHPLE TOB/	SAMPLE	NUMBER	TYPE	SAMPLING	0	2 4		La Caracteria			THAZ	
STATION '		DE COURT.		TIRE (DATE	E	A H	65			REMARKS	HUME	aer
83WI	Groundwave	1	IL: +A.	6		2	1			manufactura	1	
83W2	11	4	VOA	4:50 pm	=	E2	11/			= Bankernigue		1 7
82 W	ŧſ	4	I Cir Am	1	le:	1	1-1-		1 1.	5 2 8 Smylation on Min		BY
82 WZ	~ 1/	4	NOA			C2				· Archine ZUDA's	ent_	
Biwi	. 1/	1 7		500 pm	1	A	++++	++++			1	
BIWZ		4	UOA	500 pm	+-	C2	++++				 	
BYWI	17			500 pm	+	A	++++				 	
BUWZ	ef	4		En Goope		C 1	++-				<u> </u>	
85W!		-	NOA	600p	-	A						
B5W2	ut.	4		1-16 GOD PM	CI	Ą						
KELT NOTINED BI	<u> </u>	1 7	VOA	600 pm		IAI	<u> v </u>		+	7		
	o Laws		DAYE In -174	Fine: `	RECE	ETYED BY:	:		IRAVEL			
RELINOUISHED BI			DATE		MFC	EIVED BY	*		ON SITE	TIME:		
			•			initely pr	•		MERE SA	FIRS Pin .	T	
RELIMODECHED BI		Λ	DATE	M KI 1505	REC	EIVER IR	Lat B RE-	* ,		HED? Yes far CW	YES	160
(Vezie	No (Vertalan	da clay	(°)	MHI 1000		100	the the	pe~	Į.	CONDITION? YES	100-	-