## KLEINFELDER

July 21, 1997 File No. 23-482965-PH2

Mr. Michael Willcoxon, Esq. Attorney-at-Law 11555 Dublin Boulevard, Suite 201 Dublin, California 94568

Subject: Addendum

Soil and Groundwater Assessment Report Former Hummingbird Haven Glider Airport 8638 Patterson Pass Road (at Greenville Road)

Livermore, California

Dear Mr. Willcoxon:

Kleinfelder is pleased to provide you with this report addendum describing the results of the additional groundwater sampling conducted at the above referenced site. The groundwater sampling was conducted in response to a request made by Ms. Eva Chou of the Alameda County Department of Environmental Health, Environmental Protection Division (ACDEH) during a meeting held Wednesday July 16, 1997. Ms. Chou requested that groundwater samples be collected from the three monitoring wells adjacent to the USTs on site, and that the samples be analyzed for the presence of polynuclear aromatic compounds, specifically benzo (a) pyrene.

### FIELD ACTIVITIES

On July 18, 1997, Kleinfelder sampled the three monitoring wells previously installed in 1989 adjacent to the underground storage tanks. The samples were obtained using plastic disposable bailers. No equipment blanks or duplicate samples were collected.

The water samples were analyzed for polynuclear aromatic compounds (PNAs) by SW846 Method 8310. No detectable concentrations of PNAs were reported by the analytical laboratory. Copies of the sample logs, chain of custody documentation and analytical reports are attached.

Depth to groundwater (July 18, 1997) in the three wells was 31.76 (MWT-1), 31.16 (MWT-2) and 29.75 (MWT-3) feet below the top of the well casings. Depth to groundwater was measured from the red reference mark established by the well installer. The calculated groundwater gradient based on the available data is 0.028 ft/ft to the north-northwest. The flow direction has shifted slightly north of the previous flow direction obtained in March 1997.

#### **LIMITATIONS**

Kleinfelder has prepared this report addendum in accordance with the generally accepted standards of care which exist in Northern California at the time this work was completed. It should be recognized that definition and evaluation of geologic and chemical subsurface conditions are a difficult and inexact art. Judgments leading to conclusions and recommendations

23-482965-PH2/2317R321 Copyright 1997 Kleinfelder, Inc. Page 1 of 2

July 21, 1997

are generally made with incomplete knowledge of the subsurface conditions present. The conclusions in this letter report are based on field observations and analytical results obtained from the water samples collected on-site. More extensive studies, including subsurface investigations, may be performed to reduce uncertainties. No warranty, expressed or implied, is made.

We appreciate the opportunity to work with you. If you have any questions or require additional services, please do not hesitate to contact me.

Sincerely,

KLEINFELDER, INC

Laurie Racca Project Geologist

John A. Baker, P.E. Regional Manager

Attachments: Purge Characterization and Sample Logs

Chain of Custody Form Analytical Report



### RECORD OF WATER LEVEL MEASUREMENTS

Job Number: 23-482966-PHZ Site: Livermie Property By: 1282

Well Number	Date	Time	Measuring Device/Setting	Measuring Point (M.P.)	Depth to Water from M.P.	M.P. Elevation	Water Level Elevation	Remarks
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Date: 1/1/4/ Weather: 2004 - 1/10/1 Sheet of Project: 1/10/2/2008 Page 1/2 Submitted By: 1262 Date: Project Number: 23-46264 PM Approved By: Date: Project Number: 23-46264 PM Approved By: Date: PURGE CHARACTERIZATION AND SAMPLE LOG Well No. MW Targing Balty Despays Blacker Dedicated Survino Other Galloment Balty Despays Blacker Dedicated Other Date Targing Balty Despays Blacker Dedicated Other Date Targing Balty Despays Blacker Dedicated Other Date Targing T		t. •	•							
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Water Source: Notes: Last Calibration Check (include supporting documentation) pH meter Date/Time: 7/17/7 Meter No. Of our 2164 7-10 Conductivity meter Date/Time: // Meter No. Of our 2164 7-10 Turbidity meter Date/Time: // Meter No. Other: (list in notes) Military Time // 1/20 // 1/30 // 1/36 // 1/468 // 1/468 // 1/468 Gallons Purged // 4 // 0 // 2 // 1/468 // 1/468 // 1/468 Purge Rate // Variable // 2 // 2 // 2 // 2 // 2 // 2 // 2 //		=	7///							
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Turbidity meter Date/Time:				<i>]       -</i>						
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Description   Property   Proper			4		12	46	20	Z4		
Temperature (C)		<i></i>			7	7	7	0		
Cond. (umhos/cm)  Salinity (o/oo)  Turbidity (NTU's)  Color  Depth to Water 3/.74  Depth to Water 73/.74  Sample Number  Time Quantity  Type Presery. Filtration  Analysis  Lab  16902  WING 7 GUAMB  B310  G  TD. Well: 2555  1 Casing Volume: 6-18  No 5186.		9Ap	1.18					<del>                                     </del>		
Salinity (0/00) Turbidity (NTU's)  Color Depth to Water Reference Point:  Sample Number Time Quantity Type Preserv. Filtration  Analysis Lab 19/5 16902  T.D. Well: 2024  1 Casing Volume: 6-18  Notes: 63-5		/						,		
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Turbidity (NTU's)	Salinity (o/oo)			مسير						
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16902 WWW 7 64AMB 8310 B  T.D. Well: 325 1 Casing Volume: 6.18 3 Casing Volumes: 16.57  Notes: 63-5	Sample Number	Time	Quantity	Type	Presery.	Filtration	An	alvsis	Lab	
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Project: LIVERMORE	PROPER		'Submitt		1282	Date:	
Project Number: 23	-4829 6	5-742	Approv	ed By:		Date:	
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PURGE CHARA						Well No	). /'  h
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Equipment	TOWNET C	Briter	Pump	Pump	Other.		
Cleaning	Wash	201101	Rinse I	* ****	Rinse II	Rinse 11	i
Methods	DI		DI		DI	DI	-
	Tap		Tap		Tap	Тар	
TSP	Other		Other		Other _	Other	
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Water Source:		Å.					
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Last Calibration Ch				documenta	tion)		_
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Turbidity meter			<del>)</del>		M	eter No.	
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Purge Rate	4-1	Varia	<u> </u>		-2		2
pН	(/An	6.94	693	6.95	6.97		2
Temperature (C)	15,	20	21	20	20		3
Cond. (umhos/cm)		3860	3870	3910	3920		3
Salinity (o/oo)							
Turbidity (NTU's)	\ \ ,		7200				<del></del>
Color	<del>- W</del> -	275		1	ala dil		+
	٧.	BLACK	Buk	cloudy	clardy		<del></del>
Depth to Water	3/16					<u> </u>	1
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16943	1600	Z	64/ANB			8310	F/R
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Project: Liverno	45 Pro	perty	Submire	ed By: 13	282		117/97
Project Number: 23						Date:	<del></del>
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PURGE CHARA	CTERI	ZATION	I AND	SAMPL	E LOG	Well No.	MUIT-
Purging	Bailer	Disposable		Dedicated	Suction	Other:	7
Equipment	- Deliver	Bailer	Pump	Pump	Pump		
Sampling	Bailer	Disposable	Bladder	Dedicated	Other:		
Equipment		Bathr	Pump	Pump			
Cleaning	Wash		Rinse I	•	Rinse II	Rinsc III	•
Methods	D) Tap	MA	⊸ DI Tap		Di Tep	DI Tap	
TSP	Other	IVIT	Other		Other	Other	
Alconox	Steam		Steam		Steam	Steam	
Other	Hot		Hot		Hot	Hor	•
17-1 (1)	Cold		Cold		Cold	Cold	
Vol. (gal):				•			
Water Source:	WA-						
Notes:	•- ,						
Last Calibration Ch		(include,si	upporting (	documental	tion)		a
pH meter	Date/Ti	ime: 🗐 📗	<u> 719+</u>		M	leter No. Piou	210A
Conductivity meter					. M	leter No. YWR 2	<u>2062</u>
Turbidity meter	Date/T	ime: 🗸	1		M	leter No	
	(list in n						
Military Time		1331	1338	1344	1350		Code
Gallons Purged	A	2	4	6	8		42
Purge Rate		varial			-2		21
pH	7/A	6.95	699	7.01	4.63		27
Temperature (C)	1/1/2	20	70	70	70		30
	<del>- K</del>	2820	3840	3810	3860		33
Cond. (umhos/cm)	1	7620	7690	2636	2000		33
Salinity (o/oo)	<del>                                     </del>						
Turbidity (NTU's)		7200,		7200	-2		
Color	W_	10004		cloudy	2		
Depth to Water	29.75			<u></u>		<u> </u>	0
Reference Point:							
							•
Sample Number	Time	Quantity	Type	Preserv.	Filtration	Analysis	Lab
							4.
16939	1355	2	GU/A	-6	-6-	8310 (7NA")	77
			77.	<del>   </del>	<del>                                     </del>	***************************************	
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T.D. Well: 41.9	1 Casing	z Volume	: 1.98	3	4 Casing	Volumes: 7.93	<u> </u>
Notes:						-	
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## CHROMALAB, INC.

Environmental Services (SDB)

July 18, 1997

Submission #: 9707238

KLEINFELDER (SACRAMENTO)

Atten: Laurie Racca

Project: Not provided

Received: July 17, 1997

Project#: 23-482965-PH2

re: One sample for Polynuclear Aromatics (PNAs) analysis.

Method: SW846 Method 8310 Sept 1986

Client Sample ID: 16943

Spl#: 140298

Sampled: July 17, 1997

Matrix: WATER Run#: 7822

Extracted: July 18, 1997

Analyzed: July 18, 1997

•		REPORTING	BLANK	BTWNK'	DTTOTION
	RESULT	LIMIT	result	SPIKE	FACTOR
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(ቄ)	<u> </u>
NAPHTHALENE	N.D.	2.0	N.D.	60.0	1
ACENAPHTHENE	N.D.	3.5	N.D.		1
ACENAPHTHYLENE	N.D.	1.7	N.D.		1
FLUORENE	N.D.	0.30	N.D.		1
PHENANTHRENE	N.D.	0.15	N.D.	67.8	1
ANTHRACENE	N.D.	0.070	N.D.		1
FLUORANTHENE	N.D.	0.15	N.D.		1
PYRENE	N.D.	0.32	N.D.	70.0	1
BENZO (A) ANTHRACENE	N.D.	0.15	N.D.		1
CHRYSENE	N.D.	0.35	N.D.	68.2	1
Benzo (B) fluoranthene	N.D.	0.050	N.D.		1
BENZO (K) FLUORANTHENE	N.D.	0.050	N.D.		1
BENZO (A) PYRENE	N.D.	0.15	N.D.	61.6	1
INDENO(1,2,3-CD)PYRENE	N.D.	0.16	N.D.		1
DIBENZO (A, H) ANTHRACENE	N.D.	4.6	N.D.		1
BENZO (2, H, I) PERYLENE	N.D.	0.67	N.D.		1,
Circlelle				<del></del>	

DEPONDED TATE

Michael Lee

Chemist

Chip Poalinelli #2 Operations Manager

7-18-1997 4:09PM

FROM

Environmental Services (SDB)

July 18, 1997

Submission #: 9707238

KLEINFELDER (SACRAMENTO)

Atten: Laurie Racca

Project: Not provided

Received: July 17, 1997

Project#: 23-482965-PH2

re: One sample for Polynuclear Aromatics (PNAs) analysis. Method: SW846 Method 8310 Sept 1986

Client Sample ID: 16902

Spl#: 140296

Sampled: July 17, 1997

Matrix: WATER

Run#: 7822

Extracted: July 18, 1997

Analyzed: July 18, 1997

•		REPORTING	BLANK		ILUTION
	result	LIMIT	RESULT		FACTOR
ANALYTE	(uq/L)	(ug/L)	(ug/L)	(%)	
NAPHTHALENE	N.D.	2.0	N.D.	60.0	1.
ACENAPHTHENE	N.D.	3.5	Ŋ.D.		Ţ
ACENAPHT <b>HYLENE</b>	N.D.	1.7	N.D.		1
FLUORENE	N.D.	0.30	й.D.		7
PHENANTHRENE	N.D.	0.15	N.D.	67.8	<u> </u>
ANTHRACENE	N.D.	0.070	N.D.	<b>-</b> -	Ť
FLUORANTHENE	N.D.	0.15	N.D.		<u>+</u>
PYRENE	N.D.	0.32	N.D.	70.0	1
BENZO (A) ANTHRACENE	N.D.	0. <b>1</b> 5	N.D.		1
CHRYSÈNÉ	N.D.	0.35	N.D.	68.2	1
BENZO (B) FLUORANTHENE	N.D.	0.050	Ŋ,D.		1
BENZO (K) FLUORANTHENE	N.D.	0.050	N.D.		1
BENZO (A) PYRENE	N.D.	0.15	N.D.	61.6	1,
INDENO(1,2,3-CD) PYRENE	N.D.	0.16	N.D.		1
DIBENZO (A, H) ANTHRACENE	N.D.	4.6	N.D.		1
BENZO (G.H, I) PERYLENE	N.D.	0.67	N.D.		1
7,					

Michael Lee

Chemist

Chip Poalinelliff. Operations Manager

# CHROMALAB, INC.

Environmental Services (SDB)

July 18, 1997

Submission #: 9707238

KLEINFELDER (SACRAMENTO)

Atten: Laurie Racca

Project: Not provided

Received: July 17, 1997

Project#: 23-482965-PH2

re: One sample for Polynuclear Aromatics (PNAs) analysis.

Method: SW846 Method 8310 Sept 1986

Client Sample ID: 16939

Spl#: 140300 Sampled: July 17, 1997 Matrix: WATER Run#: 7822

Extracted: July 18, 1997

Analyzed: July 18, 1997

ANALYTE	RESULT	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK I SPIKE (%)	FACTOR
NAPHTHALENE	N.D.	2,0	N.D.	60.0	1
ACENAPHTHENE	N.D.	3.5	N.D.		1
ACENAPHTHEME	N.D.	1.7	N.D.		$\bar{1}$
**************************************	N.D.	0.30	N.D.		1
FLUORENE		0.15	N.D.	67.8	ĩ
PHENANTHRENE	И.D.	0.15	N.D.		ำ
ANTHRACENE	й.Б.		N.D.		1
FLUORANTHENE	N.D.	0.15		70.0	1
PYRENE	N.D.	0.32	N.D.	70.0	Ť
BENZO (A) ANTHRACENE	N.D.	0.15	$\mathbf{N} \cdot \mathbf{D}$ .		1
CHRYSENE	N.D.	0.35	N.D.	68.2	1
BENZO (B) FLUORANTHENE	N.D.	0.050	N.D.		1
BENZO (K) FLUORANTHENE	N.D.	0.050	N.D.		1
BENZO (A) PYRENE	N:D.	0.15	Ν <sub>-</sub> D.	61.6	1
INDENO(1,2,3-CD) PYRENE	N.D.	0.16	N.D.	<b>-</b> -	1
DIBENZO (A, H) ANTHRACENE	N.D.	4.6	N.D.	<b>-</b> -	1
BENZO(C, H, I) PERYLENE	N.D.	0.67	N.D.		ī
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