MEMORANDUM

FROM: JOEL I. CEHN

SUBJECT: TESTING

DATE: 5/15/2006

April Sampling Campaign

I have the lab results for the April sampling. I collected mostly soil and water samples (including surface water and rainwater—it rained that week). I also sampled weeds from various gardens (no produce yet), avocados and citrus; and also milk from the herd. As per design, the sampling was mostly in occupied areas of BBI, with only a few samples close to the Boeing property line (locations RT, OS2, OS3 & OS4). Several samples were taken from the Old Well campsite area (OWC & CV). Testing focused on known Boeing contaminants, namely metals (lead, mercury, cadmium, chromium, beryllium), TCE, PCBs, perchlorate and tritium.¹

In summary, test results showed no further migration of pollution from Boeing. All BBI soil samples were normal for metals and negative for PCB & perchlorate. While metals in soils varied over a range (see chart), a check of values reported elsewhere showed that range to be within normal limits. Water and citrus (juice) samples were tested for tritium and only background levels were detected (10-30 pCi/L—groundwater background is lower.) Levels near the old property line are thousands of pCi/L; the drinking water limit is 20,000. Two southwestern property springs were negative for TCE (OS-2 & OS-3). (See attached charts.)

The only significant finding this year is the perchlorate detected in milk and vegetation. The milk sample I took from a local market had the highest level. Soil from Balboa Park's contained measurable perchlorate. Although no background vegetation samples were collected, the background milk result indicates that area cows are grazing on grass containing perchlorate. In general, cows bio-concentrate contaminants in their milk. Perchlorate appears to be pervasive in Southern California and Arizona. Levels in the Colorado River (the source of most of it) are twice as high as I've detected here. There is no drinking water standard vet, but the State's "Response Level" where cleanup is required is 60 parts per billion—over ten times what I detected (See attached chart.) Finally, the milk samples were negative for PCBs, which tend to concentrate in milk fat.

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I am also enclosing a summary table, sampling location sketch and the lab reports.

¹ This is most, but not all of known contaminants. With a larger budget, I would add dioxins to the testing, but this test runs about \$1,000 per sample.

² Soil contains a large number of natural minerals and chemicals. On the chart I've shown normal backgrounds for several (lead, up to about 50ppm; and mercury, up to about 90ppb).

³ This park, about 14 miles southeast of BBI, is used as a background location.

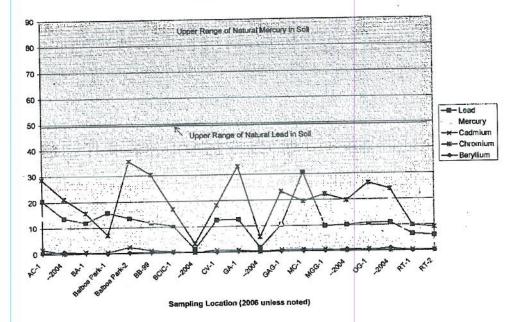
Recommendations

My recommendations for further testing are: testing of crops (when grown) for perchlorate, including a background (off-site) sample; sampling of locations missed or not accessible (Hidden Valley and spring OS-9); and perchlorate tests closer to the Boeing property line. Call or email if you have any questions.

Program Results to Date

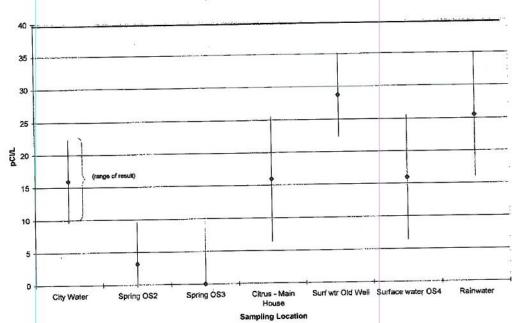
As you know, testing of environmental media was begun along the property line with Boeing in 1991. Since then, the monitoring has been expanded to all areas of BBI. In 1997, Boeing purchased 150 acres of land from BBI. This land contains nearly all the contaminated property. Program results indicate that any residual pollution is confined to the area around new property line, at levels considered safe. Since 1997, testing has occurred intermittenty to ensure that contamination has no migrated closer to the occupied areas of BBI, about 2 miles away. So far, no migration has been detected. All results indicate that present use of the property is safe; exposure to unsafe levels of pollution is not occurring and is not expected to occur.



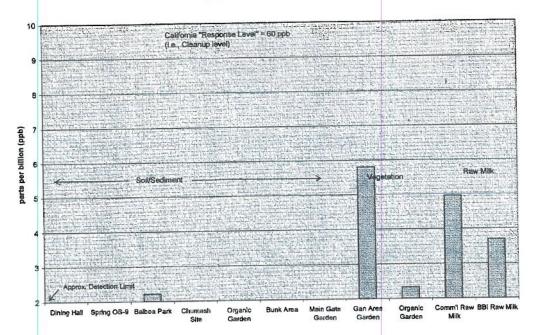


ppm (ppb for Hg)





Perchlorate Results - 2006



BBI Selected Results - 2004 2006

	40		Results - parts per billion							
	Location (see map)	Medium	Metals		PCB		perchlorate		tritium pCi/L	
Code	Location (occ map)		2004	2006	2004	2006	2004	2006	2004	2006
AC-1	Art Building Area	soil	normal	normal	U	-	-		-	-
AG-1	Avocado Grove	vegetation	-	-	U	U	-	7.	-	-
BA-1	Bunk Area	soil	-	normal	U	-	U	U		20
	Bunk Area; boys bathhouse	soil	_		-		U		-	
BABH-1	4 NOT 18 NOT 10 NOT 1 NOT 1 1 NOT 1	soil	_				U		-	
BABH-2		soil	196 HJ 64 F 7 F	normal	10000	Ü	irini q	2.22	:Highth	-
	Balboa Park - LA River bank	soil	Marie (S	normal		Ů.	telli	Sucur		-
	Balboa Park	soil	(Spiffeld of)	nomal	and the s	41417.75.14	a rain de la s	_ = 1.1 ± 1.1 ± 1.1 ± 1.1		-
BB-99	Czerwinski Creek	soil	normal	normal	-	- 1	U		-	-
BCIC-1	BCI cottages; flag pole		normal	Horman	U		-		_	
CIT-1	CIT Hill	soil	Homai	normal	"	υl		U		_
CV-1	Chumash Site	soil		Holimai	7/U	ŭ	_	_	-	2
DA-1	Development Area	soil	normal	-	Ü	١	70.0			
DA-2	Development Area	soil	-		Ιŭ	_	3/J	υ	-	_
DH-1	Dining Hall	soil	-	•	١٠		J	U		
DH\$-1	Alopie cottage	soil	-		-	- 1	j			
DHS-2	Ropes course wall	soil			-				-	
FG-1	Flower garden; admin. area	soil	normal		1.3	- 1	J		1 -	123
GA-1	Gan play area	soil	normal		U		U	- 5	-	0.50
GAG-1	Gan area garden	soil	1	normal		- 1			l	4.
GAG-1V	Gan area garden	vegetation		-		- 8		5.8		0.70
нотв-1	House of Book trail #1	soil	normal				U		1 -	
нотв-2	House of Book trail #2	soil	normal		-		J		-	
HV-1	Hidden Valley	soil	normal		U		-	0	-	
MC-1	Meyer Creek	soil	-		U		U		-	
MGG-1	Main gate garden	soil	normal	normal	-	-	U	U	-	-
MH-1	Main house orchard	citrus juice	-		-		U		U	16
MI-1	BBI milk cow	milk		-	X	U	14.9	3.7	-	0.7
MI-2	Von's milk	milk	-		X		4.04		-	
MI-3	comm'l. raw milk	milk	1	20	1	Ų		4.95	1	=
ML-1	Molle Library	soil	normal		-		U		-	
NBC-1	New BCI Camp	soil	normal		U		-			
NBC-1	New BCI Camp	water			-		U		U	
OG-1	Organic garden	soil	norma	norma	ıl u	-	J	U	-	-
		vegetation				-		2.33		-
OG-1	Organic garden	water	1 -				U/U		U	
OS-9	Spring OS-9	soil	norma	10 100	1 -	17 2 6	U/J	U	-	177
OS-9	Ground below spring	soil	norma	3.0	1 11					
OWC-1	2 To 1 To	water	Homa	7.	1 -		Ιu		U	29
OWC-2		water	A Stratege	<u> </u>	6 25. 27	giline m	Ū	a Miral est	- u	16
. 18.75.4	City Water	1 1 1 1 1 1			A pare	dini'	i griff i		1,127,5	26
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RT-1	Red Tank #1	soil	noma	nonna	" "	-	11		lυ	
RT-1	Red Tank #2	water	-		ıl ū	U	l I	_	-	-
RT-2	Red Tank #2	soil	norma	l norma	250	U	J	5	1	
RT-3	Red Tank #3	soil			U		I			
TBC-1	Tsha B'av Campsite	soil	norma	II	U		1 1		1	

Notes:

- indicates not analyzed.

indicates background location

(blank) indicates not sampled.

X indicates lab failure

U indicates not detected

/ indicates more than one sample taken

J indicates not detected above reporting limit.

