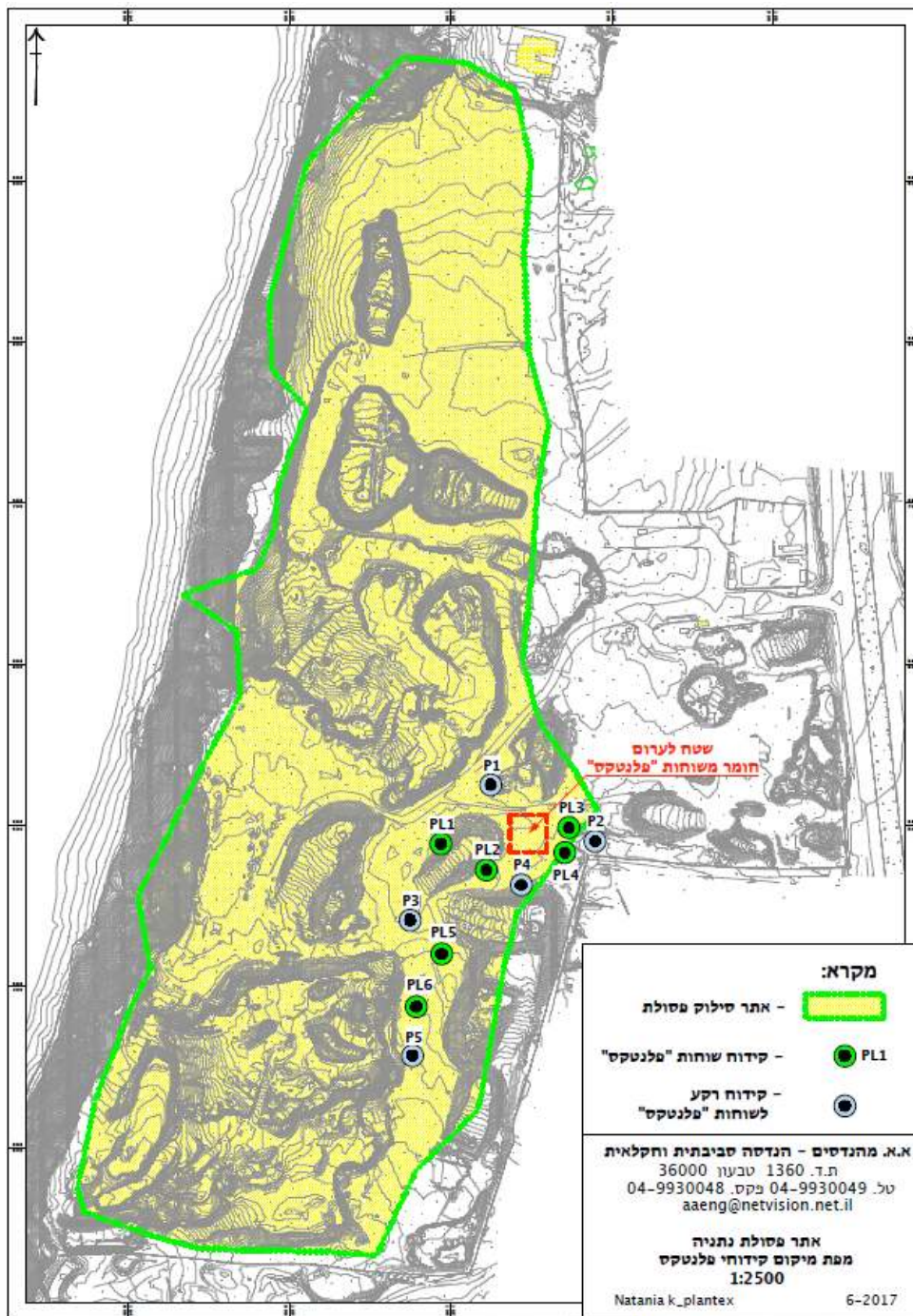


**תוצאות בדיקת שוחות פלנטקס – יוני 2017**

**1. רקע**

כחלק מביצוע הבדיקות המקדימות עבור שלב ב' באתר אס"פ נתניה, התבצע סקר שמטרתו לבחון את ריכוז המזהמים בשוחות החשודות כאלו ששימושו להחדרת שפכי פלנטקס וסביבתם.



## **.2 תוצאות**

מוצגות להלן תוצאות בדיקות המעבדה שבוצעו ל-6 שוחות פלנטקס (PL1÷PL6), 5 קידוחי הרקע (P1÷P5) ולערמת הקרקע שהוצאה מן השוחות במהלך הנמכתן.  
הבדיקות התבצעו בהתאם למפרט שהוגש למשרד להג"ס בתאריך 28/2/17.  
נטילות לאנליזות מעבדה נלקחו מן המדגמים מעומק:

2 מ'.

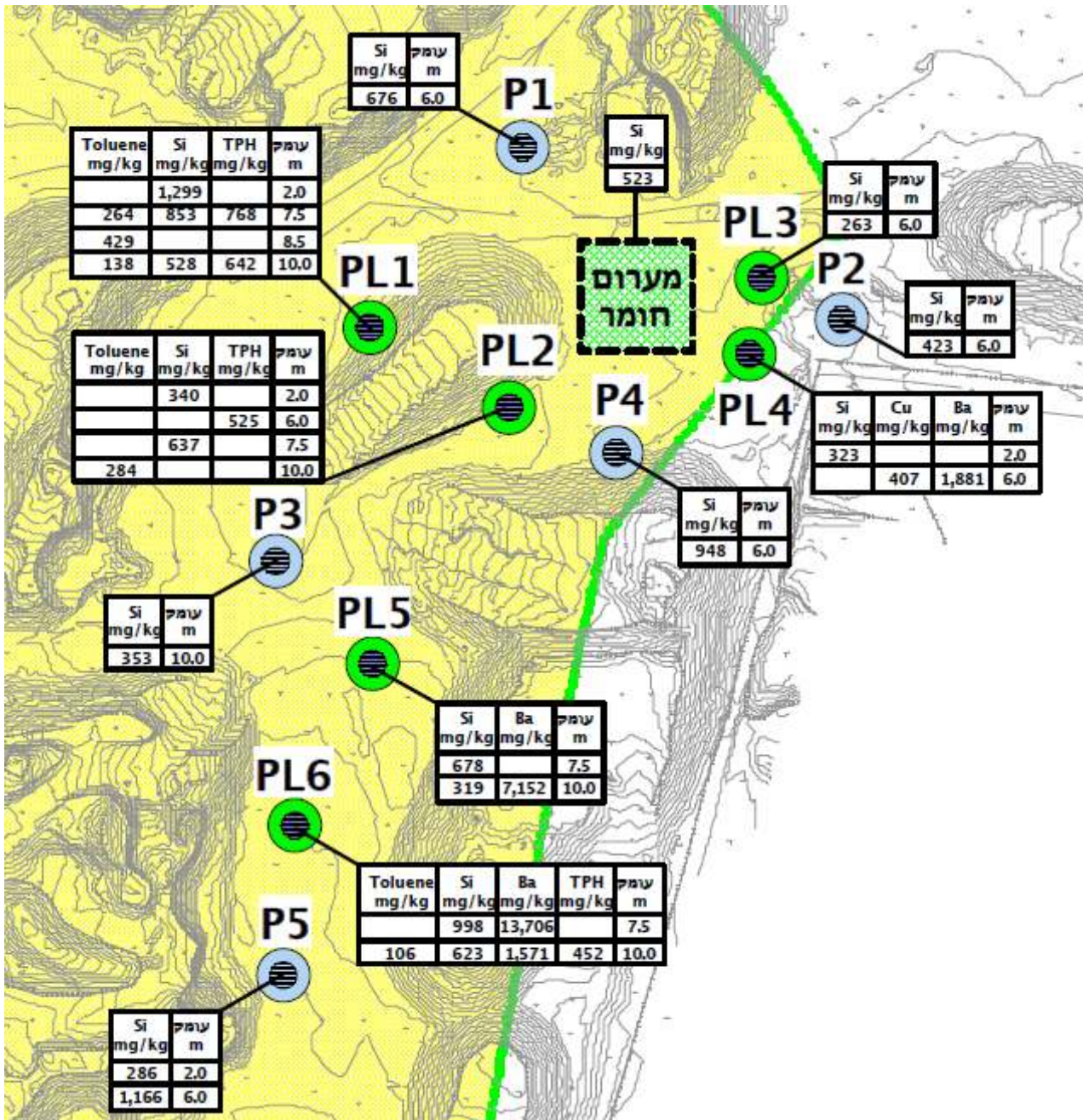
6 מ'.

10 מ'.

כאשר נמדד ערך PID גבוה במדגם מעומק אחר מאלו המצוינים להלן, דוגמה זו ג"כ נשלחה לבדיקת VOC. כמו כן, במקרים מסוימים לא ניתן היה לדגום מסיבות טכניות מן העומק הספציפי שצוין (חללים, קושי עבירות וכו'), לכן נלקח מדגם מעומק אחר.

## **.3 מפת חריגות**

במפה המוצגת להלן מוצגות כל החריגות ביחס לערכי סף מותרים למסחר ולתעשייה, שנתגלו בשוחות פלנטקס ובקידוחי הרקע שנקדחו סביב השוחות.



4. תוצאות בדיקות TPH

Sample	PL1	PL2	PL3	PL4	PL5	PL6
Depth	mg/kg					
2m	<55	<55	<55	<55	-	-
6m	-	525	<55	<55	-	-
7.5m	768	-	-	-	191	170
10m	642	-	-	<55	-	452
11.5m	-	159	197	-	217	-

Sample	P1	P2	P3	P4	P5
Depth	mg/kg				
2m	<55	<55	-	<82	<55
6m	<55	<82	-	<55	<55
10m	<55	<55	<55	<55	<55

5. תוצאות סריקת מתכות

קידוחי פלנטקס

PL3			PL2			PL1			חקל/מסחר, תעשייה/מגורים	קידוח
11.5	6	2	11.5	6	2	10	7.5	2	(mg/kg)	עומק
<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000		כסף (Ag)
675.7	2447.9	12374.7	1123.4	2619.6	30675.4	958.9	2073.1	4674.3		אלומיניום (Al)
<5.000	<1.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	17, 17, 20	ארסן (As)
5.3	4.5	6.1	6.5	4.1	11.6	26.1	7.1	8.7	- , 20	בורון (B)
8.8	11.0	33.4	12.7	546.9	70.7	569.7	61.7	264.4	500, 625, 500	בארום (Ba)
<0.100	<0.100	0.4	<0.100	0.1	1.0	<0.100	<0.100	0.2		בריליום (Be)
49685.0	77105.4	52962.6	27310.9	36978.0	5685.2	16313.2	76615.2	81096.0		סידן (Ca)
<2	<2.000	<2.000	<2	<2.000	<2.000	<2.000	<2.000	<2.000	10, 30, 2	קדמיום (Cd)
<1.000	<1.000	5.0	<1.000	1.3	12.9	<1.000	<1.000	2.8		קובלט (Co)
2.6	6.9	21.0	2.3	11.0	46.7	3.6	6.0	17.8	150, 400, 100	כרום (Cr)
1.4	1.9	6.6	2.4	9.6	12.3	5.6	14.7	31.5	150, 190, 100	נחושת (Cu)
899.8	2400.7	11115.1	1013.7	3235.8	24454.9	1552.6	4556.6	9398.3		ברזל (Fe)
<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000		כספית (Hg)
115.8	450.2	1390.6	273.1	364.6	3093.8	177.0	463.0	733.6		אשלגן (K)
<1	2.9	14.6	<1	2.4	22.7	<1.000	1.7	4.2		ליתיום (Li)
206.8	792.3	1664.0	201.5	1115.0	3417.4	375.3	719.9	2235.2		מגנזיום (Mg)
4.5	21.5	252.8	7.6	65.2	516.4	5.9	43.5	212.6	2000, 6000, 2000	מנגן (Mn)
<1	<1.000	<1.000	<1	<1.000	<1.000	<1.000	<1.000	3.5		מוליבדן (Mo)
403.7	1185.6	1256.3	459.9	733.9	1619.1	1288.1	926.8	1237.9		נתרן (Na)
5.9	2.6	11.7	4.8	47.8	28.8	4.9	7.8	22.2	130, 150, 100	ניקל (Ni)
416.7	601.1	830.1	445.6	467.0	816.6	424.2	432.6	584.0		זרחן (P)
1.4	<1.000	<1.000	<1.000	4.5	<1.000	2.4	11.9	192.0	250, 1000, 100	עופרת (Pb)
24298.0	26402.2	97.9	22417.1	349.0	238.7	10795.5	38677.7	305.6		גופרית (S)
<3.0	<3.000	<3.000	<3.0	<3.000	<3.000	<3.000	<3.000	4.4		אנטימון (Sb)
<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	5, 100, 10	סלניום (Se)
<3	262.5	178.8	5.5	637.3	340.2	528.2	853.0	1299.4	20, 200, 20	צורן (Si)
<3	<3.000	<3.000	<3	<3.000	<3.000	<3.000	<3.000	9.1		בדיל (Sn)
78.7	977.0	757.4	54.2	301.6	159.1	83.6	329.6	283.6		סטרונציום (Sr)
47.3	89.1	355.2	85.5	87.7	883.6	82.5	72.1	149.5		טיטניום (Ti)
<1	<1.000	<1.000	<1	<1.000	<1.000	<1.000	<1.000	<1.000		תליום (Tl)
1.8	3.9	22.8	1.7	5.5	55.7	3.0	4.3	11.0		ונדיום (V)
64.9	107.5	18.7	14.3	443.1	43.4	21.9	65.6	122.9	300, 2500, 250	אבץ (Zn)

PL6		PL5		PL4		חקל/מסחר, תעשייה/מגורים	קידוח
10.5	7.5	11.2	8.5	6	2	(mg/kg)	עומק
<1.000	<1.000	<1.000	<1.000	<1.000	<1.000		כסף (Ag)
756.6	2576.9	314.5	3958.4	3386.6	27769.1		אלומיניום (Al)
<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	17, <u>17</u> , 20	ארסן (As)
5.9	6.3	3.3	6.7	5.1	7.6	- , - , 20	בורון (B)
<b>1571.1</b>	<b>13706.4</b>	12.8	<b>7152.4</b>	<b>1881.2</b>	61.4	500, <u>625</u> , 500	באריום (Ba)
<0.100	0.1	<0.100	0.1	0.1	0.9		בריליום (Be)
16552.2	66050.4	457.5	70256.4	10955.1	8127.0		סידן (Ca)
<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	10, <u>30</u> , 2	קדמיום (Cd)
<1.000	2.3	<1.000	2.3	1.6	10.1		קובלט (Co)
3.2	12.3	<1.000	8.7	20.6	46.8	150, <u>400</u> , 100	כרום (Cr)
2.4	5.0	1.1	8.4	<b>406.7</b>	13.2	150, <u>190</u> , 100	נחושת (Cu)
987.9	3382.0	202.7	4477.5	4140.7	23698.7		ברזל (Fe)
<1.000	<1.000	<1.000	<1.000	<1.000	<1.000		כספית (Hg)
146.0	401.9	73.5	578.3	610.7	2784.0		אשלגן (K)
<1.000	25.3	3.8	3.4	3.0	26.0		ליתיום (Li)
218.8	1052.7	114.7	1228.4	579.8	2766.2		מגנזיום (Mg)
5.1	96.5	5.0	128.8	21.1	355.6	2000, <u>6000</u> , 2000	מנגן (Mn)
<1.000	<1.000	<1.000	<1.000	<1.000			מוליבדן (Mo)
607.1	1113.0	1085.5	1261.0	959.2	1862.6		נתרן (Na)
2.0	9.9	1.2	6.8	48.5	24.7	130, <u>150</u> , 100	ניקל (Ni)
472.1	495.6	272.9	625.0	631.2	962.8		זרחן (P)
2.6	3.4	<1.000	3.3	14.5	<1.000	250, <u>1000</u> , 100	עופרת (Pb)
12247.5	1589.2	48.4	1242.8	6716.6	151.2		גופרית (S)
<3.000	<3.000	<3.000	<3.000	<3.000	<3.000		אנטימון (Sb)
<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	5, <u>100</u> , 10	סלניום (Se)
<b>622.9</b>	<b>998.1</b>	<b>319.0</b>	<b>678.3</b>	157.6	<b>323.4</b>	20, <u>200</u> , 20	צורן (Si)
<3.000	<3.000	<3.000	<3.000	34.6	<3.000		בדיל (Sn)
226.5	282.2	2.6	310.7	177.1	130.3		סטרונציום (Sr)
38.8	86.5	30.7	120.9	167.0	641.7		טיטניום (Ti)
<1.000	<1.000	<1.000	<1.000	<1.000	<1.000		תליום (Tl)
1.5	5.7	<1.000	7.8	6.1	55.4		ונדיום (V)
26.3	129.0	5.5	55.8	114.1	39.4	300, <u>2500</u> , 250	אבץ (Zn)

קידוחי רקע

10 DUP	P3			P2			P1			חקל מסחר, תעשייה/מגורים (mg/kg)	קידוח עומק
	10	10	10	6	2	10	6	2			
<5	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000		כסף (Ag)	
898.0	981.7	1323.8	1303.2	11755.5	1087.1	1053.86	22626.9			אלומיניום (Al)	
<5	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	17, <u>17</u> , 20		ארסן (As)	
<5	5.2	4.7	<3.000	4.0	5.0	<3.000	7.7	-, -, 20		בורון (B)	
14.0	35.1	15.5	15.7	28.8	14.2	15.8	46.4	500, <u>625</u> , 500		בארום (Ba)	
<2	<0.100	<0.100	<0.100	0.4	<0.100	<0.100	0.8			בריליום (Be)	
70752.0	106747.0	38355.0	28731.4	2109.9	87056.0	64136.3	19730.3			סידן (Ca)	
<2	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	10, <u>30</u> , 2		קדמיום (Cd)	
<2	<1.000	<1.000	<1.000	4.9	<1.000	<1.000	10.4			קובלט (Co)	
4.0	3.5	3.5	3.4	19.1	3.5	3.6	39.565	150, <u>400</u> , 100		כרום (Cr)	
<2	1.4	1.2	1.1	6.2	1.1	1.6	11.1	150, <u>190</u> , 100		נחושת (Cu)	
1396.0	1646.7	1546.9	1173.4	10796.1	1541.1	1322.4	20045.2			ברזל (Fe)	
-	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000			כספית (Hg)	
119.0	171.6	151.0	302.4	1217.7	149.4	184.6	2978.5			אשלגן (K)	
<5	17.3	<1	1.1	9.7	<1.00	1.1	26.9			ליתיום (Li)	
671.0	838.5	491.5	404.4	1324.3	612.6	542.9	2545.4			מגנזיום (Mg)	
73.0	92.6	55.4	61.6	112.2	51.1	69.2	396.0	2000, <u>6000</u> , 2000		מנגן (Mn)	
<2	<1.000	<1	<1.000	<1.000	<1.000	<1.000	<1.000			מוליבדן (Mo)	
185.0	1142.9	521.6	711.8	996.6	452.9	707.3	1326.6			נתרן (Na)	
<2	1.8	1.6	1.4	11.7	1.4	1.6	21.8	130, <u>150</u> , 100		ניקל (Ni)	
-	543.4	327.2	426.1	694.7	160.7	451.7	713.2			זרחן (P)	
<5	<1.000	<1.000	<1.000	<1.000	<1.00	<1.000	<1.000	250, <u>1000</u> , 100		עופרת (Pb)	
55.0	69.8	116.1	52.3	39.6	54.2	9.1	29.2			גופרית (S)	
-	<3.000	<3.000	<3.000	<3.000	<3.000	<2.000	<3.000			אנטימון (Sb)	
<5	<3.000	<3.000	<3.000	<3.000	<3.000	<2.000	<3.000	5, <u>100</u> , 10		סלניום (Se)	
-	<b>353.2</b>	83.9	<b>422.9</b>	141.9	30.1	<b>675.5</b>	122.9	20, <u>200</u> , 20		צורן (Si)	
<5	<3.000	<3.000	<3.000	<3.000	<3.000	<2.000	<3.000			בדיל (Sn)	
210.0	262.8	176.0	93.4	42.0	262.0	106.9	105.1			סטרונציום (Sr)	
33.0	45.5	54.4	51.1	368.8	39.5	40.2	625.6			טיטניום (Ti)	
-	<1.000	<1.000	<1.000	<1.000	<1.00	<1.000	<1.000			תליום (Tl)	
3.0	3.8	3.6	2.8	22.6	3.4	3.2	46.4			ונדיום (V)	
<5	7.0	7.0	3.5	21.8	5.8	3.5	35.1	300, <u>2500</u> , 250		אבץ (Zn)	

ערמה DUP	ערמה	P5			P4			חקל/מסחר, תעשייה/מגורים (mg/kg)	קידוח עומק
		10	6	2	10	6	2		
<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	כסף (Ag)	
2971.5	5430.3	1216.1	3542.3	20728.0	1971.4	1284.0	12284.6	אלומיניום (Al)	
<5.000	<5.000	<5.00	2.7	<5.000	<5.000	<5.000	<5.000	ארסן (As)	
4.2	4.963	4.7	3.9	10.4	4.8	<3.000	3.3	בורון (B)	
31.7	84.9	19.6	65.1	90.5	18.8	20.0	28.8	באריום (Ba)	
0.1	0.2	<0.100	0.2	0.7	<0.100	<0.100	0.398	בריליום (Be)	
1725.2	74646.8	39044.0	2404.9	5354.0	635.7	564.8	1765.1	סידן (Ca)	
<2.000	<2.000	<2.0	<2.000	<2.000	<2	<2.000	<2.000	קדמיום (Cd)	
1.9	3.7	<1.000	2.2	10.8	<1.000	<1.000	5.7	קובלט (Co)	
5.8	39.8	3.3	6.7	35.8	2.8	4.0	20.9	כרום (Cr)	
2.9	34.4	1.3	3.2	13.9	1.4	1.5	6.4	נחושת (Cu)	
3943.2	14128.6	1446.6	4586.6	23683.0	1560.6	1439.6	11273.4	ברזל (Fe)	
<1.000	<1.000	<1.000	<1.000	<0.462	<1.000	<1.000	<1.000	כספית (Hg)	
322.0	905.4	138.1	371.5	2914.0	555.7	226.3	1198.4	אשלגן (K)	
1.7	6.8	<1	2.0	16.3	<1	1.3	10.2	ליתיום (Li)	
735.0	2090.4	509.1	833.0	3026.9	253.6	556.6	1446.1	מגנזיום (Mg)	
120.1	438.9	62.9	206.8	452.7	40.3	77.1	275.2	מנגן (Mn)	
<1.000	7.4	<1.00	<0.173	<1.000	<1	<1.000	<1.000	מוליבדן (Mo)	
531.5	958.8	378.9	1399.0	1124.4	445.6	649.6	851.2	נתרן (Na)	
4.8	24.9	1.6	5.6	23.4	2.6	1.6	12.9	ניקל (Ni)	
573.1	628.2	225.0	630.6	501.1	391.9	375.2	626.5	זרחן (P)	
<1.000	120.8	<1.000	<1.000	1.2	<1.000	<1.000	<1.000	עופרת (Pb)	
26.4	220.1	37.2	54.7	130.7	38.1	23.9	17.8	גופרית (S)	
<3.000	<3.000	<3.00	<3.000	<3.000	<3.0	<3.000	<3.000	אנטימון (Sb)	
<3.000	<3.000	<3.00	<3.000	<3.000	<3.000	<1.000	<3.000	סלניום (Se)	
522.8	182.7	125.3	1166.3	285.6	<3	948.4	170.0	צורן (Si)	
<3.000	3.5	<3.0	<3.000	<3.000	<3	<3.000	<3.000	בדיל (Sn)	
37.5	876.1	121.9	46.3	106.5	2.9	148.5	74.6	סטרונציום (Sr)	
159.6	140.3	53.1	186.6	732.0	51.5	55.2	400.3	טיטניום (Ti)	
<1.000	<1.000	<1.000	<1.000	<1.000	<1	<1.000	<1.000	תליום (Tl)	
7.5	10.3	3.7	9.2	53.0	2.6	3.6	24.2	ונדיום (V)	
14.6	125.4	6.2	11.0	38.7	8.6	3.9	18.6	אבץ (Zn)	

## 6. תוצאות בדיקת VOC

### קידוחי פלנטקס

PL2				PL1				חקל/מסחר, תעשייה/מגורים	קידוח
11.3	10	6	2	10	8.5	7.5	2	(mg/kg)	עומק
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.09	Not Detected	0.12, <u>0.12</u> , 0.1	1,1 Dichloroethane
Not Detected	Not Detected	Not Detected	Not Detected	0.33	8.6	29.5	Not Detected		1,1,2-Trichloroethane
0.09	0.06	Not Detected	Not Detected	0.08	1	0.26	Not Detected		1,2,4-Trimethylbenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.09	Not Detected		1,2-Dichlorobenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	1.4	Not Detected	<u>2.4</u> , 0.1	1,2-Dichloroethane
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	29.9	Not Detected		1,3 Dichloropropane
0.11	0.07	Not Detected	Not Detected	0.14	2.6	1.22	Not Detected		1,3,5-Trimethylbenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.66	1.25	Not Detected		Benzene
0.2	0.16	0.05	Not Detected	4.77	58.6	58	Not Detected		Chlorobenzene
0.09	0.07	Not Detected	Not Detected	0.22	5.6	4.1	Not Detected	5, <u>50</u> , 2	Ethylbenzene
0.16	0.1	Not Detected	Not Detected	0.53	7.3	2	Not Detected		n-Propylbenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.43	Not Detected		Tetrachloroethylene
<u>35</u>	<u>284</u>	0.21	Not Detected	<u>138.0</u>	<u>429.0</u>	<u>263.8</u>	Not Detected	10, <u>30</u> , 5	Toluene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.57	Not Detected		Vinyl chloride
0.25	0.16	Not Detected	Not Detected	0.48	11.6	8	Not Detected	10, <u>50</u> , 5	Xylene total

PL3						חקל/מסחר, תעשייה/מגורים	קידוח
11.5	10	7	6	5.2	2	(mg/kg)	עומק
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.12, <u>0.12</u> , 0.1	1,1 Dichloroethane
Not Detected	Not Detected	Not Detected	Not Detected	0.09	Not Detected		1,1,2-Trichloroethane
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		1,2,4-Trimethylbenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		1,2-Dichlorobenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	<u>2.4</u> , 0.1	1,2-Dichloroethane
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		1,3 Dichloropropane
Not Detected	Not Detected	Not Detected	Not Detected	0.09	Not Detected		1,3,5-Trimethylbenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Benzene
0.05	0.06	Not Detected	Not Detected	Not Detected	Not Detected		Chlorobenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	5, <u>50</u> , 2	Ethylbenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		n-Propylbenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Tetrachloroethylene
10.7	2.8	3.1	1.25	12	Not Detected	10, <u>30</u> , 5	Toluene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Vinyl chloride
Not Detected	0.11	Not Detected	Not Detected	Not Detected	Not Detected	10, <u>50</u> , 5	Xylene total

PL6			PL5			PL4			חקל/מסחר, תעשייה/מגורים	קידוח
10.5	9	7.5	11.2	10	8.5	10	6	2	(mg/kg)	עומק
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.09	Not Detected		1,1,2-Trichloroethane
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		1,2,4-Trimethylbenzene
0.055	0.09	Not Detected	0.05	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		1,3,5-Trimethylbenzene
Not Detected	Not Detected	Not Detected	0.03	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Chlorobenzene
Not Detected	Not Detected	Not Detected	0.03	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	5, <u>50</u> , 2	Ethylbenzene
0.055	0.07	Not Detected	0.03	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		n-Propylbenzene
<u>106</u>	0.58	Not Detected	0.37	0.09	0.6	0.08	1.22	Not Detected	10, <u>30</u> , 5	Toluene
0.073	0.09	Not Detected	0.06	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	10, <u>50</u> , 5	Xylene total



## VOC קידוחי רקע

10 DUP	P3	P2			P1			קל/מסחר, תעשייה/מגורי (mg/kg)	קידוח עומק
	10	10	6	2	10	6	2		
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.12, <u>0.12</u> , 0.1	1,1,2-Trichloroethane
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		1,2,4-Trimethylbenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		1,3,5-Trimethylbenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Chlorobenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	5, <u>50</u> , 2	Ethylbenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		n-Propylbenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	10, <u>30</u> , 5	Toluene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	10, <u>50</u> , 5	Xylene total

ערמה	P5			P4			קל/מסחר, תעשייה/מגורי (mg/kg)	קידוח עומק
	10	6	2	10	6	2		
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		1,2,4-Trimethylbenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		1,3,5-Trimethylbenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Chlorobenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	5, <u>50</u> , 2	Ethylbenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		n-Propylbenzene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.06	10, <u>30</u> , 5	Toluene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	10, <u>50</u> , 5	Xylene total

## 7. תוצאות בדיקת S-VOC

### קידוחי פלנטקס

PL3			PL2			PL1			חלק/מסחר, תעשייה/מגורים	קידוח
11.5	6	2	11.2	6	2	10	7.5	2	(mg/kg)	עומק
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	6,000, 50,000, 50,000	Di-n-butylphthalate
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.07	Not Detected		2,4,6-Trichlorophenol
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		1,1' Biphenyl
0.49	0.28	Not Detected	40.21	4.11	Not Detected	30.48	61	0.1		2,4-Dimethylphenol
Not Detected	Not Detected	Not Detected	0.08	0.07	Not Detected	0.96	0.11	Not Detected		4-Methylphenol
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		2-Methylnaphthalene
Not Detected	0.06	Not Detected	0.5	0.55	Not Detected	1.12	0.26	Not Detected	4, 10, 4	Phenol
Not Detected	Not Detected	Not Detected	0.12	0.05	Not Detected	Not Detected	Not Detected	Not Detected		2-Methylphenol
Not Detected	Not Detected	Not Detected	Not Detected	2.57	Not Detected	0.88	28.54	3.04	50, 400, 400	bis-(2-Ethylhexyl) Phthalate
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Dibenzofuran
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.3	Not Detected	Not Detected		Dimethylphthalate
Not Detected	Not Detected	Not Detected	Not Detected	0.24	Not Detected	Not Detected	Not Detected	0.02	0.38, 3.6, 3.6	Benzo(a)anthracene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Benzo(b)fluoranthene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Benzo(k)fluoranthene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.038, 0.36, 0.36	Benzo(a)pyrene
0.06	Not Detected	Not Detected	0.12	0.27	Not Detected	0.08	Not Detected	Not Detected		Benzyl Alcohol
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Indeno(1,2,3-cd)pyrene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Benzo(g,h,i)perylene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.030, 0.3, 0.3	Dibenzo(a,h)anthracene

PL6		PL5		PL4			חלק/מסחר, תעשייה/מגורים	קידוח
10.5	7.5	10.5	8.5	10	6	2	(mg/kg)	עומק
Not Detected	0.14	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Aniline
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.5	Not Detected	6,000, 50,000, 50,000	Di-n-butylphthalate
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		1,1' Biphenyl
137.81	Not Detected	0.69	0.4	0.26	14.15	Not Detected		2,4-Dimethylphenol
0.09	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		4-Methylphenol
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		2-Methylnaphthalene
0.09	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		2-Chlorophenol
1.31	Not Detected	0.06	0.06	Not Detected	0.86	Not Detected	4, 10, 4	Phenol
0.14	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		2-Methylphenol
0.65	0.99	Not Detected	Not Detected	Not Detected	1	7.26	50, 400, 400	bis-(2-Ethylhexyl) Phthalate
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Dibenzofuran
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.38, 3.6, 3.6	Benzo(a)anthracene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Benzo(b)fluoranthene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Benzo(k)fluoranthene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.038, 0.36, 0.36	Benzo(a)pyrene
0.45	Not Detected	0.14	Not Detected	0.07	2.87			Benzyl Alcohol
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Indeno(1,2,3-cd)pyrene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Benzo(g,h,i)perylene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.030, 0.3, 0.3	Dibenzo(a,h)anthracene

S-VOC קידוחי רקע

10 DUP	P3	P2			P1			חלק מסחר, תעשייה/מגורים (mg/kg)	קידוח עומק
	10	10	6	2	10	6	2		
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected Below LOQ	6,000, <u>50,000</u> , 50,000	Di-n-butylphthalate
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected Below LOQ		1,1' Biphenyl
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected Below LOQ		2,4-Dimethylphenol
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected Below LOQ		4-Methylphenol
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected Below LOQ		2-Methylnaphthalene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected Below LOQ	4, <u>10</u> , 4	Phenol
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected Below LOQ		2-Methylphenol
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected Below LOQ	50, <u>400</u> , 400	bis-(2-Ethylhexyl) Phthalate
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected Below LOQ		Dibenzofuran
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected Below LOQ	0.38, <u>3.6</u> , 3.6	Benzo(a)anthracene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected Below LOQ		Benzo(b)fluoranthene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected Below LOQ		Benzo(k)fluoranthene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected Below LOQ	0.038, <u>0.36</u> , 0.36	Benzo(a)pyrene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected Below LOQ		Indeno(1,2,3.cd)pyrene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected Below LOQ		Benzo(g,h,i)perylene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected Below LOQ	0.030, <u>0.3</u> , 0.3	Dibenzo(a,h)anthracene

DUP עומק	ערמה	P5			P4			חלק מסחר, תעשייה/מגורים (mg/kg)	קידוח עומק
		10	6	2	10	6	2		
Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	6,000, <u>50,000</u> , 50,000	Di-n-butylphthalate
Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		1,1' Biphenyl
Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		2,4-Dimethylphenol
Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		4-Methylphenol
Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		2-Methylnaphthalene
Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	4, <u>10</u> , 4	Phenol
Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		2-Methylphenol
Not Detected	0.4	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	50, <u>400</u> , 400	bis-(2-Ethylhexyl) Phthalate
Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Dibenzofuran
Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.38, <u>3.6</u> , 3.6	Benzo(a)anthracene
Not Detected	0.2	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Benzo(b)fluoranthene
Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Benzo(k)fluoranthene
Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.038, <u>0.36</u> , 0.36	Benzo(a)pyrene
Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Indeno(1,2,3.cd)pyrene
Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Benzo(g,h,i)perylene
Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.030, <u>0.3</u> , 0.3	Dibenzo(a,h)anthracene

8. תוצאות בדיקת PAH

קידוחי פלנטקס

PL3			PL2			PL1			חקלמסחר, תעשייה/מגורים	קידוח
11.5	6	2	11.2	6	2	10	7.5	2	(mg/kg)	עומק
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Acenaphthene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Acenaphthylene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Anthracene
Not Detected	Not Detected	Not Detected	Not Detected	0.24	Not Detected	Not Detected	Not Detected	0.02	0.38, 3.6, 3.6	Benzo(a)Anthracene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.038, 0.36, 0.36	Benzo(a)Pyrene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.38, 3.6, 3.6	Benzo(b)fluoranthene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Benzo(ghi)perylene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Benzo(k)fluoranthene
Not Detected	Not Detected	Not Detected	Not Detected	0.75	Not Detected	Not Detected	Not Detected	0.03		Chrysene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.030, 0.3, 0.3	Dibenzo(a,h)anthracene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.03		Fluorantene
Not Detected	Not Detected	Not Detected	Not Detected	0.06	Not Detected	Not Detected	Not Detected	Not Detected		Fluorene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Indeno(1,2,3-cd)pyrene
Not Detected	Not Detected	Not Detected	Not Detected	0.03	Not Detected	Not Detected	Not Detected	0.03	7, 40, 40	Naphtalene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.02		Phenanthrene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.04		Pyrene

PL6		PL5		PL4			חקלמסחר, תעשייה/מגורים	קידוח
11.2	7.5	11.2	8.5	10	6	2	(mg/kg)	עומק
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Acenaphthene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Acenaphthylene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Anthracene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.38, 3.6, 3.6	Benzo(a)Anthracene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.038, 0.36, 0.36	Benzo(a)Pyrene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.38, 3.6, 3.6	Benzo(b)fluoranthene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Benzo(ghi)perylene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Benzo(k)fluoranthene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Chrysene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.030, 0.3, 0.3	Dibenzo(a,h)anthracene
Not Detected	0.06	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Fluorantene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Fluorene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Indeno(1,2,3-cd)pyrene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	7, 40, 40	Naphtalene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Phenanthrene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.73		Pyrene

PAH  
קידוחי רקע

10DUP	P3		P2		P1			חקל/מסחר, תעשייה/מגורים (mg/kg)	קידוח עומק
	10	10	6	2	10	6	2		
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Acenaphtene	
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Acenaphthylene	
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Anthracene	
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.38, <u>3.6</u> , 3.6	
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.038, <u>0.36</u> 0.36	
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.38, <u>3.6</u> , 3.6	
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Benzo(ghi)perylene	
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Benzo(k)fluoranthene	
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Chrysene	
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.030, <u>0.3</u> , 0.3	
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Fluorantene	
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Fluorene	
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Indeno(1,2,3-cd)pyrene	
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	7, <u>40</u> , 40	
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.11	Phenanthrene	
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Pyrene	

ערמה	P5			P4			חקל/מסחר, תעשייה/מגורים (mg/kg)	קידוח עומק
	10	6	2	10	6	2		
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Acenaphtene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Acenaphthylene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Anthracene
עקבות	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.38, <u>3.6</u> , 3.6	Benzo(a)Anthracene
עקבות	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.038, <u>0.36</u> 0.36	Benzo(a)Pyrene
0.02	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.38, <u>3.6</u> , 3.6	Benzo(b)fluoranthene
עקבות	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Benzo(ghi)perylene
עקבות	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Benzo(k)fluoranthene
עקבות	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Chrysene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.030, <u>0.3</u> , 0.3	Dibenzo(a,h)anthracene
עקבות	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Fluorantene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Fluorene
עקבות	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Indeno(1,2,3-cd)pyrene
עקבות	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	7, <u>40</u> , 40	Naphtalene
Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Phenanthrene
עקבות	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		Pyrene

9. תוצאות בדיקות נוספות

קידוחי פלנטקס

קידוח	יחידות	חקל/מסחר, תעשייה/מגורים (mg/kg)	PL1			PL2			PL3		
			2	7.5	10	2	6	11.3	2	6	11.3
עומק											
אלקליניות	mg/kg		650	1514	414	542	774	298	676	386	<200
pH			8.2	7.5	8.3	8	8.2	7.4	7.6	7.7	7.2
כלוריד	mg/kg		79	154	46	67	113	21	23	68	50
אמוניה-N	mg/kg		20.93	56.36	43.94	-	-	26.24	-	-	28.62
חנקן כללי	mg/kg		1271	1352	907	923	2165	1246	1203	1181	1051
חנקן קלדל	mg/kg		1238	1350	905	916	2163	1243	1174	1180	1046
ניטריט N-NO <sub>2</sub>	mg/kg	7,000, 25,000, 25,000	<1	<1	<1	<1	<1	<1	<1	<1	1.2
ניטראט N-NO <sub>3</sub>	mg/kg	100,000	33	1.6	2	7	2.3	3	29	1.4	3.6
סולפידים-S	mg/kg	15, 70, 70	<0.2		<0.2	-	-	<0.2	-	-	-
זרחן P	mg/kg		<0.5	<0.5	<0.5	<0.5	1	11	<0.5	7	10
מוליכות חשמלית	µS/cm		434	1597	1493	-	-	2150	-	-	-
ציאניד	mg/kg	5, 50, 1	<0.02	5.0	16.3	<0.02	6.24	18.43	<0.02	2.02	-
חומר יבש	%		-	88.41	93.95	84.49	93.94	-	93.95	92.51	-

קידוח	יחידות	חקל/מסחר, תעשייה/מגורים (mg/kg)	PL4			PL5		PL6	
			2	6	10	8.5	11.2	7.5	10.5
עומק									
אלקליניות	mg/kg		-	-	1282	810	212	456	520
pH			7.38	6.51	9	8.2	8.1	8.2	7.6
כלוריד	mg/kg		3197	-	72	50	37	35	60
אמוניה-N	mg/kg		25.32	43.19	13	16.11	14.83	12.28	30.98
חנקן כללי	mg/kg		-	-	976	1167	1052	1036	1607
חנקן קלדל	mg/kg		495.2	3400	878	1141	1050	1011	1604
ניטריט N-NO <sub>2</sub>	mg/kg	7,000, 25,000, 25,000	<0.001	<0.001	<1	<1	<1	<1	<1
ניטראט N-NO <sub>3</sub>	mg/kg	100,000	180.5	163	98	26	2	25	3
סולפידים-S	mg/kg	15, 70, 70	108	32	<0.2	<0.2	<0.2	<0.2	-
זרחן P	mg/kg		-	-	<0.5	0.5	<0.5	<0.5	5
מוליכות חשמלית	µS/cm		728	2240	250	182	80	170	1478
ציאניד	mg/kg	5, 50, 1	1.89	-	9.65	1.73	0.73	1.54	8.26
חומר יבש	%		64	84.03	97.75	91.77	96.12	93.47	93.67

בדיקות נוספות

קידוחי רקע

P3	P2			P1			חקל/מסחר, תעשייה/מגורים (mg/kg)	יחידות	קידוח עומק
	10	6	2	10	6	2			
480	610	-	-	940	492	728		mg/kg	אלקליניות
9	9	9.01	8.1	9.3	8.1	8.5			pH
66	13	1779	2131	46	77	70		mg/kg	כלוריד
20.98	<0.05	<0.05	6.09	3.37	-	-		mg/kg	אמוניה-N
935	774	-	-	870	625	679		mg/kg	חנקן כללי
933	771	17	47.6	867	623	662		mg/kg	חנקן קלדל
<1	<1	<0.001	<0.001	<1	<1	<1	7,000, 25,000, 25,000	mg/kg	ניטריט N-NO <sub>2</sub>
1.7	2.5	4.5	2.5	3	1.7	17	100,000	mg/kg	ניטראט N-NO <sub>3</sub>
<0.2	<0.2	<0.2	180	<0.2	-	-	15, 70, 70	mg/kg	סולפידים-S
<0.5	<0.5	-	-	<0.5	<0.5	2		mg/kg	זרחן P
86	150	120.5	96	84	-	-		µS/cm	מוליכות חשמלית
<0.02	<0.8	<0.02	-	-	<0.02	-	5, 50, 1	mg/kg	ציאניד
97	95.12	95.9	91.73	97.16	97.11	-		%	חומר יבש

ערימה	P5			P4			חקל/מסחר, תעשייה/מגורים (mg/kg)	יחידות	קידוח עומק
	10	6	2	10	6	2			
-	2128	842	772	1210	-	-		mg/kg	אלקליניות
8.42	9.6	8.2	8	9	9.14	7.97			pH
710	32	40	107	5	710	1421		mg/kg	כלוריד
16.25	7.82	7.49	12.63	7.87	3.32	10.27		mg/kg	אמוניה-N
-	1016	916	1375	681	-	-		mg/kg	חנקן כללי
529.8	1010	903	1338	678	45.8	-		mg/kg	חנקן קלדל
<0.001	<1	<1	<1	<1	<0.001	<0.001	7,000, 25,000, 25,000	mg/kg	ניטריט N-NO <sub>2</sub>
5.5	5.8	13	37	3	<0.2	2.5	100,000	mg/kg	ניטראט N-NO <sub>3</sub>
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	60	15, 70, 70	mg/kg	סולפידים-S
-	<0.5	<0.5	-	<0.5	-	-		mg/kg	זרחן P
222	69	132	306	58	50.2	49.7		µS/cm	מוליכות חשמלית
<0.02	-	<0.02	<0.02	-	<0.02	<0.02	5, 50, 1	mg/kg	ציאניד
95.15	96.6	76.26	86.98	-	97.28	91.3		%	חומר יבש

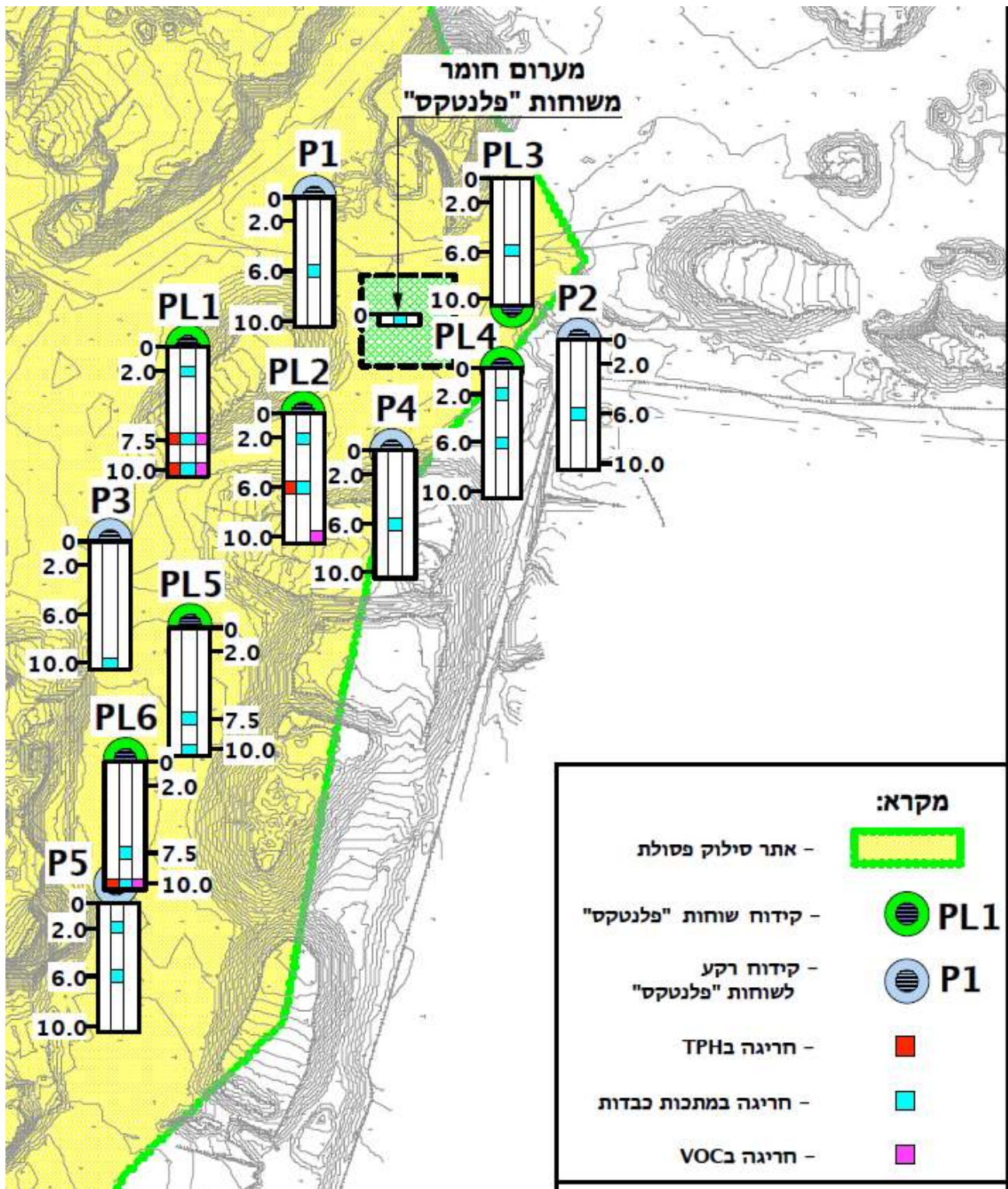
10. ריכוז וסיכום כלל חריגות

מוצגות להלן טבלאות המסכמות באילו קידוחים נתגלו חריגות, עומק המדגם והפרמטר שנמצא חורג. החריגות הן ביחס לערכי סף ליישום באזורי מסחר ותעשייה.

עומק (מ') / קידוח	PL1	PL2	PL3	PL4	PL5	PL6
2	סיליקון	סיליקון	-	סיליקון, סולפידים	-	-
6	TPH, סיליקון	TPH, סיליקון	סיליקון	באריום, נחושת	-	-
7.5	TPH, סיליקון, טולואן	-	-	-	באריום, סיליקון	באריום, סיליקון
10	TPH, סיליקון, טולואן	טולואן	-	-	סיליקון	TPH, סיליקון, באריום, טולואן

עומק (מ') / קידוח	P1	P2	P3	P4	P5	ערמה
2	-	סולפידים	-	-	סיליקון	
6	סיליקון	סיליקון	-	סיליקון	סיליקון	סיליקון
7.5	-	-	-	-	-	
10	-	-	סיליקון	-	-	





## 11. פינוי להטמנה

### 11.1 מתכות במיצוי מימי

מוצגות להלן תוצאות בדיקה מדגמית של קידוחי פלנטקס לסריקת מתכות במיצוי מימי.

מטרת בדיקה זו לקבוע יעד פינוי מתאים לחומרים אלה במידה ויידרש.

על סמך תוצאות סריקת מתכות במיצוי מימי נראה כי אין מניעה לפינוי החומר שבשוחות לאתר פסולת יבשה.

קרקע PL-6 10.0	קרקע PL-5 11.2	קרקע PL-5 10	קרקע PL-5 8.5	קרקע PL-4 6.5	קרקע PL-3 10.0	קרקע PL-2 10.0	קרקע PL-1 10.0	קרקע PL-1 7.5	ערכי סף למיצוי מימי לצורך קביעת יעד פינוי				תאור הדוגמה
									אינרטי	יבשה	מעורבת	מסוכנת	
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					הבדיקה
1	1	1	2	1	1	1	1	1					יחידות
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	25	2	2	0.5	מג/קג Ag - כסף
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<=0.5					מג/קג Al - אלומיניום
1	2	3	21	0.5	0.1	0.1	<0.1	0.3	300	100	100	20	מג/קג As - ארסן
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					מג/קג B - בורון
8899	53	54	152	8157	38	8031	6513	4107					מג/קג Ba - בריום
<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	5	1	1	0.04	מג/קג Be - בריליום
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	70	10	10	0.5	מג/קג Ca - סידן
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					מג/קג Cd - קדמיום
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					מג/קג Co - קובלט
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					מג/קג Cr - כרום
<0.1	<0.1	<0.1	<0.1	1	<0.1	<0.1	<0.1	<0.1	100	50	50	2	מג/קג Cu - נחושת
<0.1	0.1	<0.1	2	0.1	0.1	<0.1	<0.1	0.05					מג/קג Fe - ברזל
8	3	3	16	7	<2	9	10	52					מג/קג K - אשלגן
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					מג/קג Li - ליתיום
17	6	6	22	23	8	5	5	34					מג/קג Mg - מגנזיום
0.1	<0.1	0.1	<=0.1	0.2	<0.1	<0.1	<0.1	1					מג/קג Mn - מנגן
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	30	10	10	0.5	מג/קג Mo - מוליבדן
56	19	15	63	146	13	32	43	61					מג/קג Na - נתרן
<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	0.1	40	10	10	0.4	מג/קג Ni - ניקל
5	<0.5	<0.5	<=0.5	6	<0.5	12	12	<0.5					מג/קג P - זרחן
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	50	10	10	0.5	מג/קג Pb - עופרת
4828	26	23	38	4239	6	4327	4605	2984					מג/קג S - מפרת
<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	5	0.7	0.7	0.06	מג/קג Sb - אנטיםון
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	7	0.5	0.5	0.1	מג/קג Se - סלן
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					מג/קג Sn - בדיל
34	1	1	7	54	0.1	11	11	27					מג/קג Sr - סטרונציום
<0.1	<0.1	<0.1	<=0.1	<0.1	<0.1	<0.1	<0.1	<0.1					מג/קג Ti - טיטניום
<0.1	<0.1	<0.1	<=0.1	<0.1	<0.1	<0.1	<0.1	<0.1					מג/קג V - וונדיום
0.5	<0.2	<0.2	0.3	3	0.2	0.2	<0.2	0.4	200	50	50	4	מג/קג Zn - אבץ

### 11.2 בדיקות TPH

על סמך תוצאות בדיקת TPH שנעשתה בשוחות, קיימים 2 קידוחים החורגים מערך 500 מ"ג/ק"ג

PL1 ו- PL2.

פסולת בעלת ערכי TPH גבוהים מ 500 מ"ג/ק"ג לא ניתן לפנות לאס"פ יבשה אלא לאס"פ מעורבת כחומר כיסוי.

### 11.3 סיכום

בשוחות פלנטקס הוחדרו ככל הידוע חומרים "מזיקים" רבים אשר יש עניין להרחיקם ולפנותם מהאתר אחת ולתמיד, כפי שנקבע למעשה לכלל אס"פ נתניה.

שילוב התוצאות של מתכות כבדות ו- TPH מכוון לכך שפינוי לאתר פסולת מעורבת לכיסוי יהווה פתרון הולם ומתאים.

בהתאם, יוכן מפרט עבודה שיכלול חפירה מבוקרת של כל השוחות ופינוין לאס"פ מעורבת. נפח החומר ב 6 השוחות עד לעומק 12 מ' הינו כ 500 מ"ק. במסגרת המפרט הנ"ל ייקבע רדיוס החפירה סביב השוחה, עומק החפירה ואופן הבצוע.

בקידוחי הרקע שסביב השוחות לא נתגלו זיהומים חריגים וחפירת הקרקע/פסולת תתבצע במסגרת פינוי הכולל של האתר.

דו"ח תוצאות בדיקת שוחות פלנטקס ומסקנותיו ישלח לנציגי המשרד להג"ס לאישור כנדרש.

בכבוד רב



אמתי אבנון