

Student Worksheet 5.4: 2000 Data

Name: _____ Date: _____ Period: _____

Use the table and map to answer questions.

Concentrations of Toxaphene > Standard in Soil Samples Baseball Field and Pool Area Mabel Davis Park

	Toxaphene	2000 Soil Standard	
Location	ppm	ppm	Depth (ft.)
1	2.0	1.2	0-0.5
2	1.8	1.2	0-0.5
3	36.5	1.2	0-0.5
4	3.36	1.2	0-0.5
5	2.1	1.2	0-0.5
6	2.51	1.2	0-0.5
7	12.9	1.2	0-0.5
8	1.71	1.2	0-0.5
9	11.4	1.2	0-0.5
10	28.8	1.2	0-0.5
11	128.0	1.2	0-0.5
12	46.2	1.2	0-0.5
13	1.83	1.2	0-0.5
14	12.5	1.2	0-0.5
15	6.87	1.2	0-0.5
16	717.0	1.2	0-0.5
17	4.130	1.2	0-0.5
18	9.09	1.2	1-1.5
19	1,680.0	1.2	1-1.5
20	5.28	1.2	0.5-1
21	3.88	1.2	2-2.5
22	18.5	1.2	0-0.5
23	2.68	1.2	3-3.5

1. On the 2000 Sample Site map:
 - Identify the sites greater than 100 ppm Toxaphene and draw a star.
 - Identify the site greater than 10 ppm Toxaphene and draw a circle.
 - Identify the site with the lowest level and draw a triangle.
 - X out any sites that fall below the standard.

2. On the 2000 Sample Site map, look at the drainage (contours) from the contaminated areas and consider the runoff and pesticide dispersal that has occurred over time since 1979. Draw a red line around the entire land area you think needs remediation.

3. Based on the same data, how deep would you recommend excavating the soil? Explain.

4. Why do you think the standard for Mabel Davis changed from 55ppm in 1979 to 1.2 ppm in 2000?

5. The 1979 clean-up standard for Toxaphene was 55ppm. Why do you think the soil samples in 2000 still show Toxaphene levels greater than 55ppm?
