

Laboratory analyses for soil samples collected March 17, 2010
at locations along the Vermont Yankee Advanced Off-Gas Pipe Tunnel leak pathway

Sample Location		VT Department of Health Results (pCi/kg)				VDH-contracted Lab Results (pCi/kg)
AOG Reference Site Number	Depth	Mn-54	Co-60	Zn-65	Cs-137	Sr-90
1	surface	339	4550	884	980	TBD
	2ft below surface	<LLD	<LLD	<LLD	173	TBD
2	surface	146	1860	401	1030	TBD
	2ft below surface	<LLD	<LLD	<LLD	<LLD	TBD
3	surface	165	2520	615	4080	TBD
	2ft below surface	<LLD	<LLD	<LLD	<LLD	TBD
4	surface	85	821	382	628	TBD
	2ft below surface	<LLD	<LLD	<LLD	<LLD	TBD
5	surface	75	472	139	446	TBD
	2ft below surface	<LLD	<LLD	<LLD	<LLD	TBD
6	surface	<LLD	170	<LLD	326	TBD
	2ft below surface	<LLD	<LLD	<LLD	884	TBD
7	surface	<LLD	652	315	1080	TBD
	2ft below surface	163	1160	535	733	TBD
8	surface	<LLD	<LLD	<LLD	544	TBD
	2ft below surface	<LLD	298	<LLD	951	TBD
9	surface	<LLD	145	<LLD	1020	TBD
	2ft below surface	<LLD	<LLD	<LLD	149	TBD
10	surface	65	458	137	326	TBD
	2ft below surface	<LLD	<LLD	<LLD	<LLD	TBD
11	surface	142	1830	499	1670	TBD
	2ft below surface	<LLD	<LLD	<LLD	38	TBD

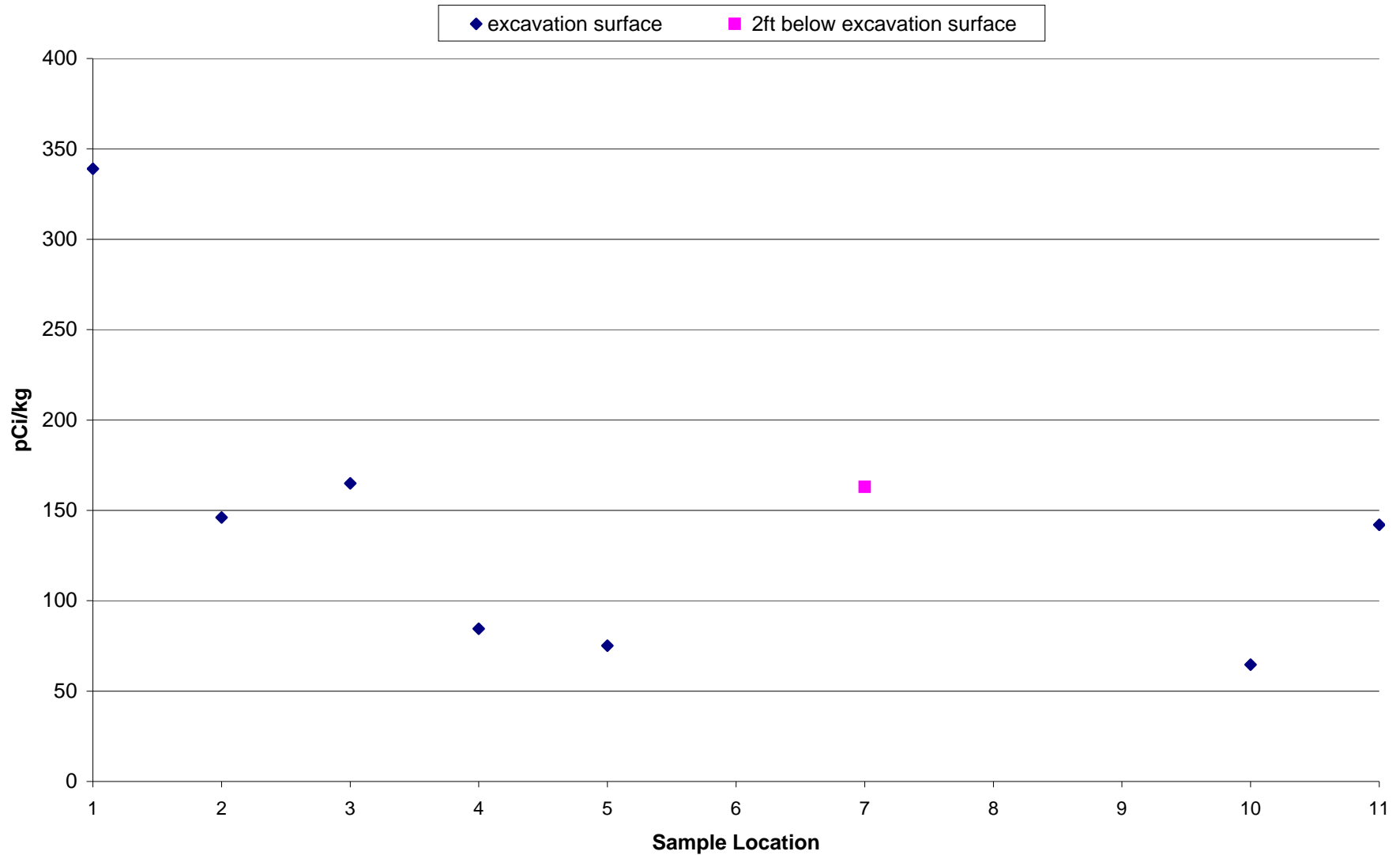
Note: <LLD = Below the Lower Limit of Detection

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Sample Location		Vermont Yankee Results (pCi/kg)				VY-contractor Results (pCi/kg)
AOG Reference Site Number	Depth	Mn-54	Co-60	Zn-65	Cs-137	Sr-90 (*only sites 1, 2 and 7 were analyzed)
1	surface	553	5974	1308	1830	8290
		4743	48710	13760	11300	
	2ft below surface	< LLD	103	< LLD	< LLD	4740
2	surface	< LLD	448	< LLD	51	
		181	1698	411	1066	5170
	2ft below surface	618	6840	1503	2635	
3	surface	62	1706	300	397	2370
		< LLD	< LLD	< LLD	< LLD	
	2ft below surface	< LLD	2667	897	4015	
4	surface	329	3014	642	10260	
		< LLD	< LLD	< LLD	< LLD	
	2ft below surface	< LLD	< LLD	< LLD	< LLD	
5	surface	133	1087	366	656	
		131	959	405	838	
	2ft below surface	< LLD	< LLD	< LLD	< LLD	
6	surface	< LLD	< LLD	< LLD	< LLD	
		53	579	284	505	
	2ft below surface	87	456	< LLD	529	
7	surface	196	2958	702	10000	
		< LLD	< LLD	< LLD	< LLD	
	2ft below surface	< LLD	< LLD	< LLD	< LLD	
8	surface	< LLD	248	214	336	
		< LLD	192	< LLD	312	
	2ft below surface	< LLD	< LLD	< LLD	694	
9	surface	< LLD	< LLD	< LLD	455	
		158	799	670	1238	161
	2ft below surface	425	2071	968	1084	
10	surface	251	1311	578	774	152
		126	597	227	340	
	2ft below surface	< LLD	< LLD	< LLD	455	
11	surface	< LLD	< LLD	< LLD	1395	
		< LLD	317	159	1135	
	2ft below surface	< LLD	423	< LLD	929	
12	surface	< LLD	151	< LLD	1082	
		< LLD	165	< LLD	1089	
	2ft below surface	< LLD	< LLD	< LLD	135	
13	surface	< LLD	< LLD	< LLD	< LLD	
		< LLD	586	< LLD	392	
	2ft below surface	< LLD	485	< LLD	362	
14	surface	< LLD	< LLD	< LLD	< LLD	
		< LLD	< LLD	< LLD	< LLD	
	2ft below surface	< LLD	< LLD	< LLD	< LLD	
15	surface	428	2450	925	2077	
		256	1722	649	3750	
	2ft below surface	< LLD	< LLD	< LLD	65	
16	surface	< LLD	258	< LLD	31	
		< LLD	< LLD	< LLD	< LLD	

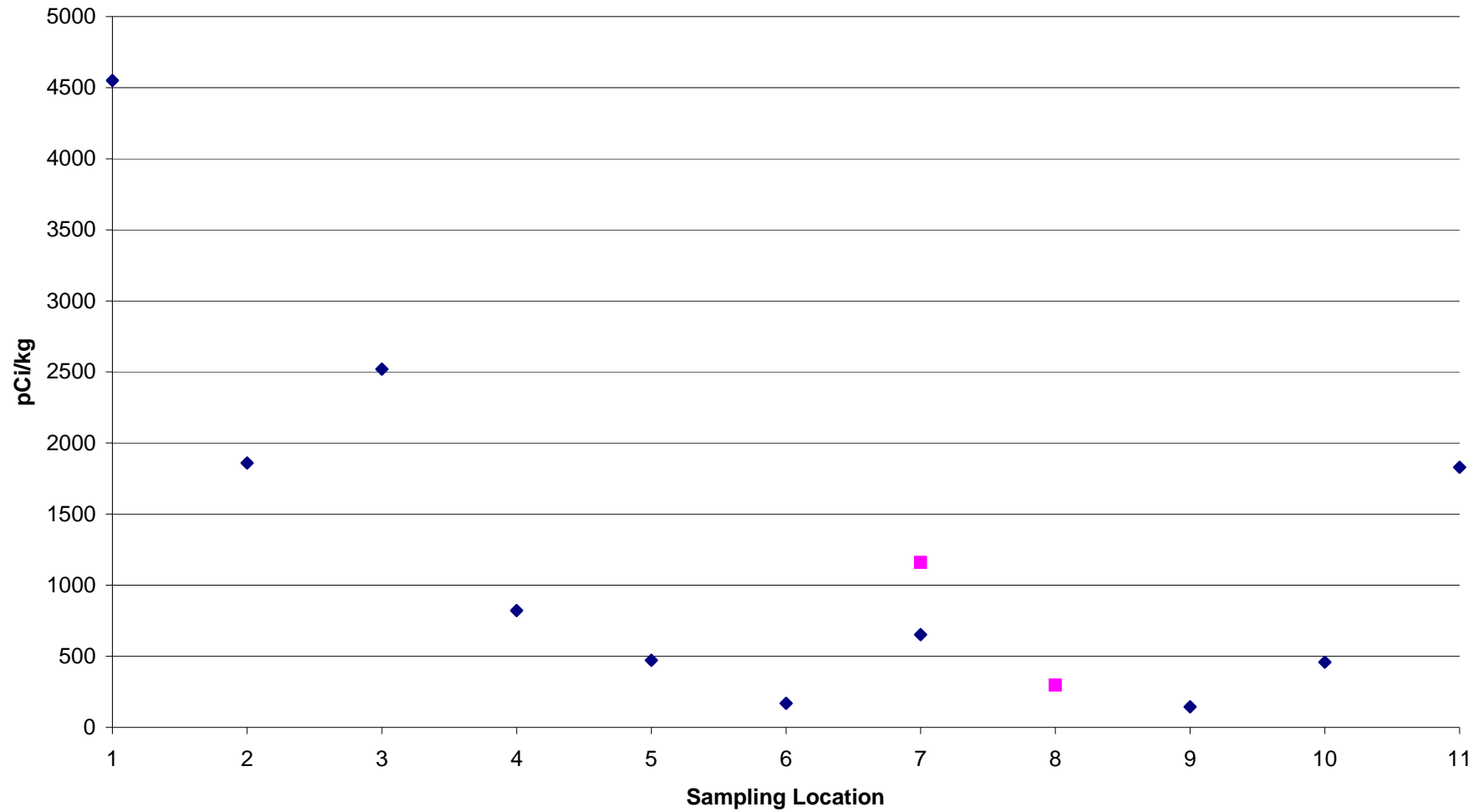
Note: <LLD = Below the Lower Limit of Detection

Concentration of Manganese-54 in Soil Samples collected March 17, 2010 from the AOG Excavation Area and analyzed by the Health Department Laboratory



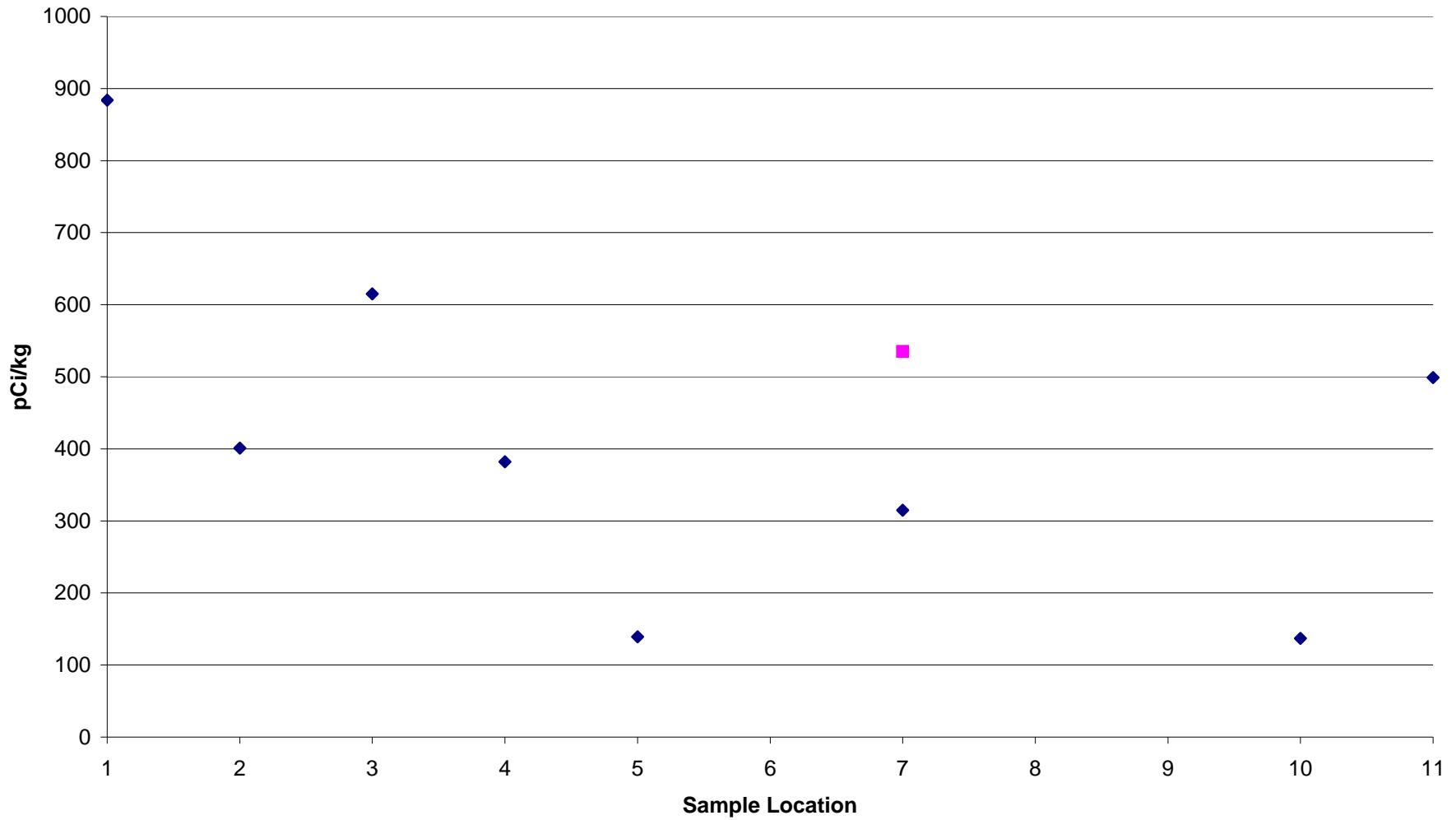
Concentration of **Cobalt-60** in Soil Samples collected March 17, 2010 from the AOG
Excavation Area and analyzed by the Health Department Laboratory

◆ excavation surface ■ 2 ft below excavation surface



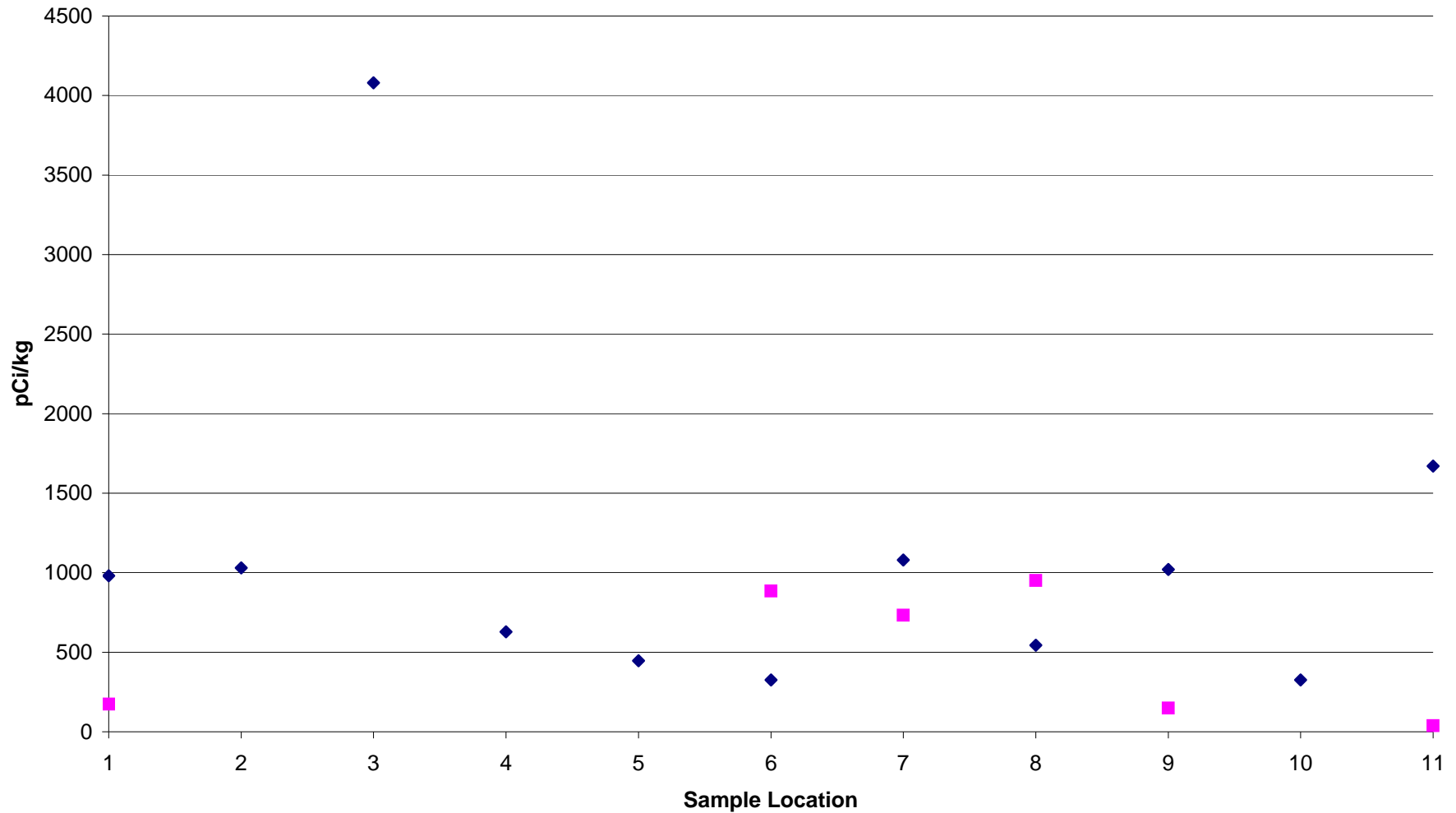
Concentration of Zinc-65 in Soil Samples collected March 17, 2010 from the AOG Excavation Area and analyzed by the Health Department Laboratory

◆ excavation surface ■ 2ft below excavation surface



Concentration of Cesium-137 in Soil Samples collected March 17, 2010 from the AOG Excavation Area and analyzed by the Health Department Laboratory

◆ excavation surface ■ 2ft below excavation surface



**Concentration of Strontium-90 in Soil Samples collected March 17, 2010 from the AOG
Excavation Area and analyzed by VY-contracted Lab**

(*only sites 1, 2, and 7 were sent to for hard-to-detects)

◆ surface of excavation ■ 2 ft below excavation surface

