

**Hypothetical Case Study (Continued)**

- ▶ VSP computes that 10 segments along the defined partial boundary are needed, 5 of which will have 2 MI samples and 5 of which will have 1 MI sample
- ▶ Suppose the planning team decides that each MI sample should be constructed by collecting and mixing 25 soil increments (5 increments for each of the 5 Primary Sampling Locations) in each segment)
- ▶ For each of the 5 segments that require 2 MI samples, the 25 soil increments for the second MI sample will be collected at locations within the segment as specified by the project planning team

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The planning team assumes that 25 soil increments per MI sample are sufficient to achieve a normal distribution for the RDX measurements that are made on aliquots withdrawn from the MI samples. The team also assumes that the measurements from the two MI samples are not correlated (contain redundant information)

## Hypothetical Case Study (Continued)

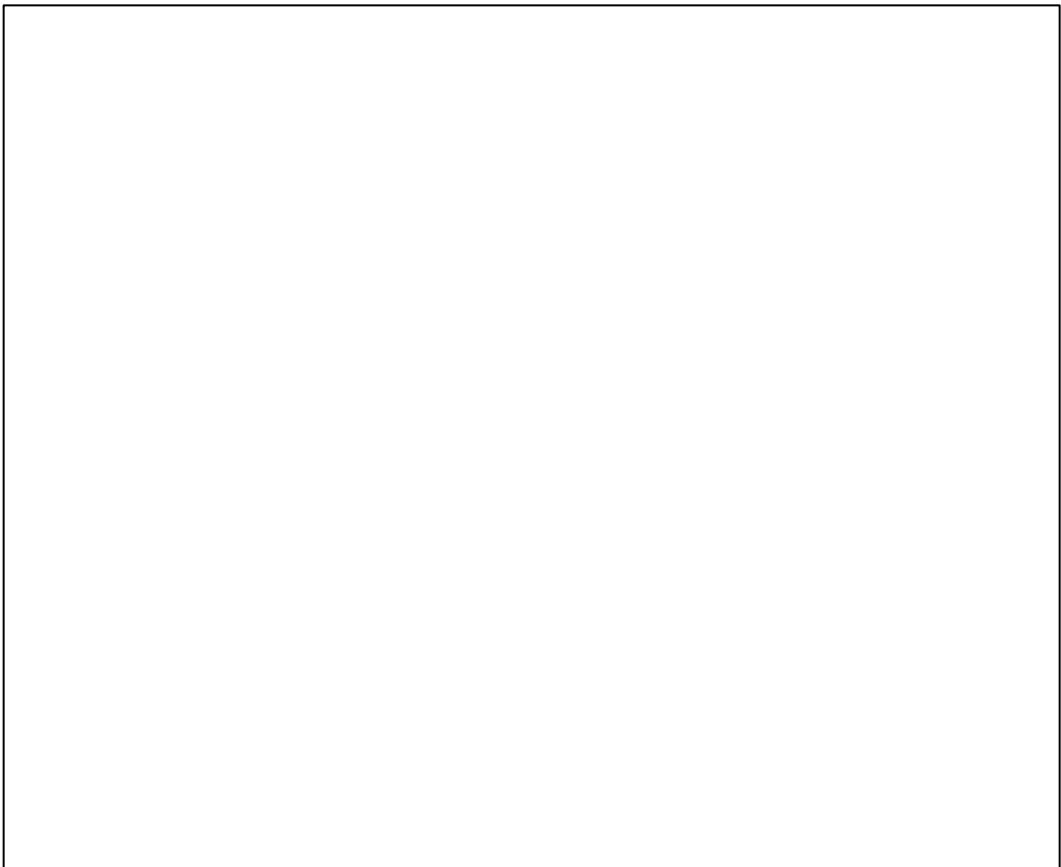
- ▶ VSP automatically determines the geographical locations of the Primary Sampling Locations in the segments along the boundary
- ▶ These locations are listed by VSP and can be seen by clicking on the **Coordinate View** button on the VSP toolbar as shown in the next slide
- ▶ These coordinates can be saved to a text file to use in a Geographical Positioning System (GPS) for finding locations in the field
  - ⌘ Click **Map > Sample Points > Export**
  - ⌘ Provide a name for the text file and click **Save**

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# Range Sustainability (VSP)

X Coord	Y Coord	Label	Value	Type	History
2267415.3201	10295040.6156	SU1-1-1	0	Perimeter	
2267414.4654	10295041.752	SU1-1-2	0	Perimeter	
2267413.6106	10295044.027	SU1-1-3	0	Perimeter	
2267412.7558	10295041.2233	SU1-1-4	0	Perimeter	
2267411.9011	10295036.4259	SU1-1-5	0	Perimeter	
2267411.0463	10295035.8295	SU1-2-1	0	Perimeter	
2267410.1915	10295032.8319	SU1-2-2	0	Perimeter	
2267409.3368	10295030.8336	SU1-2-3	0	Perimeter	
2267408.4820	10295027.2362	SU1-2-4	0	Perimeter	
2267407.6272	10295024.4389	SU1-2-5	0	Perimeter	
2267406.7724	10295021.6413	SU1-3-1	0	Perimeter	
2267405.9177	10295018.8439	SU1-3-2	0	Perimeter	
2267403.2196	10295017.7593	SU1-3-3	0	Perimeter	
2267400.4924	10295016.7019	SU1-3-4	0	Perimeter	
2267397.7651	10295015.6443	SU1-3-5	0	Perimeter	
2267395.0379	10295014.5869	SU1-4-1	0	Perimeter	
2267392.3106	10295013.5293	SU1-4-2	0	Perimeter	
2267389.5834	10295012.4718	SU1-4-3	0	Perimeter	
2267386.8561	10295011.4143	SU1-4-4	0	Perimeter	
2267384.1289	10295010.3569	SU1-4-5	0	Perimeter	
2267381.4016	10295009.2992	SU1-5-1	0	Perimeter	
2267378.6744	10295008.2417	SU1-5-2	0	Perimeter	
2267375.9471	10295007.1842	SU1-5-3	0	Perimeter	
2267373.2199	10295006.1267	SU1-5-4	0	Perimeter	
2267370.4926	10295005.0692	SU1-5-5	0	Perimeter	
2267367.7654	10295004.0117	SU1-6-1	0	Perimeter	
2267365.0381	10295002.9542	SU1-6-2	0	Perimeter	
2267362.3109	10295001.8967	SU1-6-3	0	Perimeter	
2267359.5836	10295001.8392	SU1-6-4	0	Perimeter	
2267356.8564	10295001.7817	SU1-6-5	0	Perimeter	
2267353.1291	10295001.7242	SU1-7-1	0	Perimeter	
2267350.4019	10295001.6667	SU1-7-2	0	Perimeter	



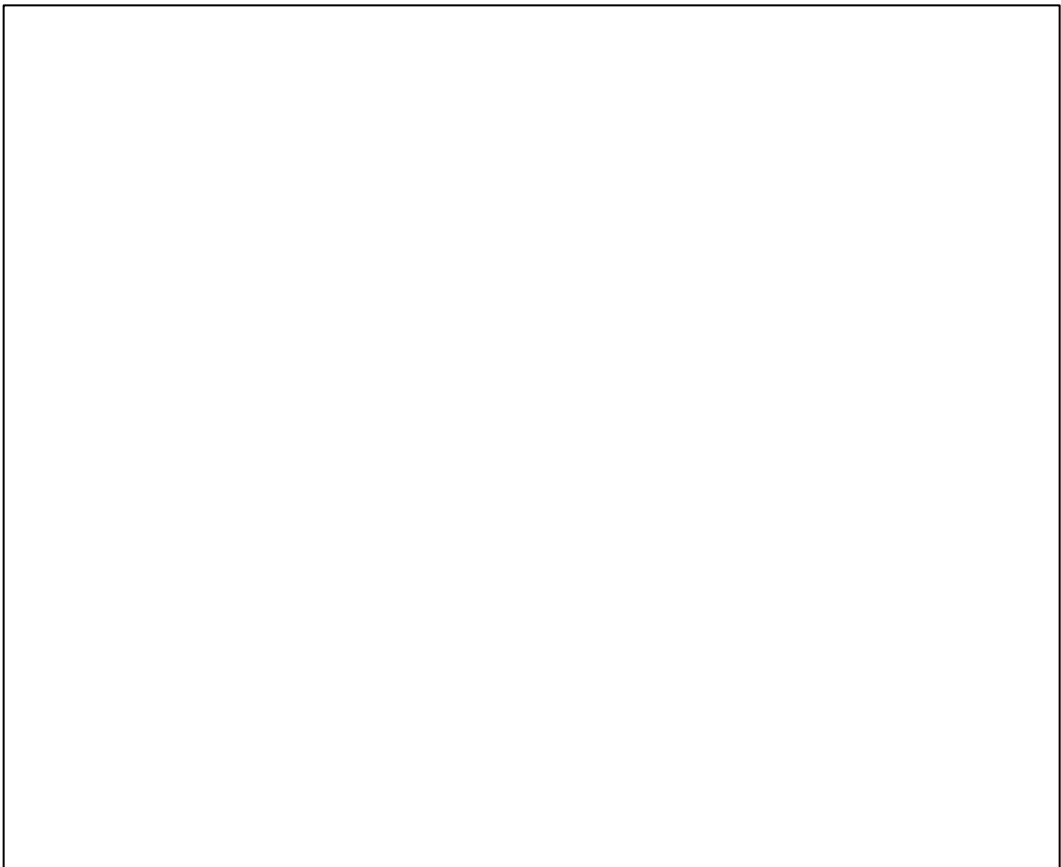
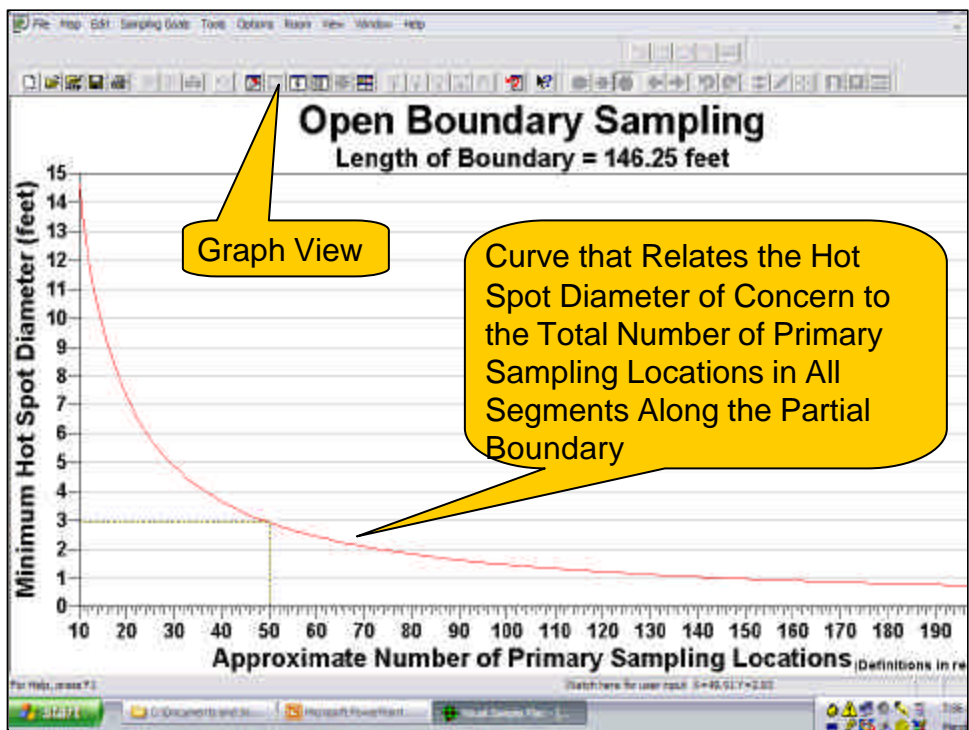
## Hypothetical Case Study (Continued)

- ▶ Clicking the **Graph View** button on the VSP toolbar brings up a graph that relates the hot spot diameter of interest at the boundary to the number of Primary Sampling Locations in the segments along the defined partial boundary (shown in the next slide).

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# Range Sustainability (VSP)



## Hypothetical Case Study (Continued)

- ▶ Once the design of the study in VSP is complete, save the project as a VSP file
  - ⌘ Click **File** on the VSP menu
  - ⌘ Click **Save Project As...** and provide a name for the project

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## Hypothetical Case Study (Continued)

- ▶ Once the MI samples have been collected, handled, and analyzed for RDX according to specified procedures the RDX measurements are entered into VSP as follows:
  - ▶ Open the saved project file and display the range map with the partial boundary by clicking
    - ⌘ **File** on the VSP menu, then
    - ⌘ clicking **Open Project** and the project file name
  - ▶ Next, for each segment in turn
    - ⌘ click the right mouse button on one of the Primary Sampling Locations to bring up the **Sample Information Box** for the segment.
    - ⌘ The RDX measurement(s) are entered into the box as illustrated on the next two slides

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# Range Sustainability (VSP)

