Drought Response Outreach for Schools (DROPS)
LID Sizing Steps

1. Determine Tool Input
    a. Design storm depth
        i. Download Basin Sizer: http://svctenvims.dot.ca.gov/wqpt/basinsizer.aspx
        ii. Select "Other" tab and zoom to school location (see Figure 1)
        iii. Select nearest rain gauge and record design storm depth(see Figure 2)
    b. Soil hydraulic conductivity (infiltration rate)
        i. Use field data if available, or
        ii. Check with municipality for local soil survey, or
        iii. Use NRCS data (available in LID Sizing Tool – steps are provided below)
    c. Impervious Area
        i. Measure in field, or
        ii. Measure using LID Sizing Tool (steps are provided below)

2. Enter Input (see Figure 3)
    a. Go to LID Sizing Tool website: http://owp-web1.saclink.csus.edu/LIDTool/Start.aspx
    b. Select climate station (see Figure 4)
        i. Zoom to school location and select nearest climate station
        ii. (Don't worry too much about this – you will override the default results in a future step using the design storm depth from Step 1).
    c. Input soil conductivity (see Figure 5)
        i. Enter value from Step 1, or
        ii. Using LID Sizing Tool, zoom to school location and read off soil type
    d. Click "Submit" (see Figure 5)

3. Review the Areas Provided in the Table
    a. Skip "Site Design Measures" page – click next (see Figure 6)
    b. Override default design storm depth below table with depth determined from Step 1 (see Figure 7). Click "Submit"
    c. Read areas from "Design Storm" column (ignore other columns, see Figure 7)

4. Choose an LID BMP
    a. Click on area value under "Design Storm" column to review details on BMP of interest (see Figure 7)
    b. Review LID BMP details (see Figure 8)

5. Evaluate feasibility
    a. Some questions include:
        i. Do I have enough space?
        ii. Will utilities interfere?
        iii. Is the topography appropriate?
        iv. Do I have enough groundwater clearance?
        v. Can I commit to the maintenance?
    b. Tool provides some helpful resources for further evaluations (see Figure 9)

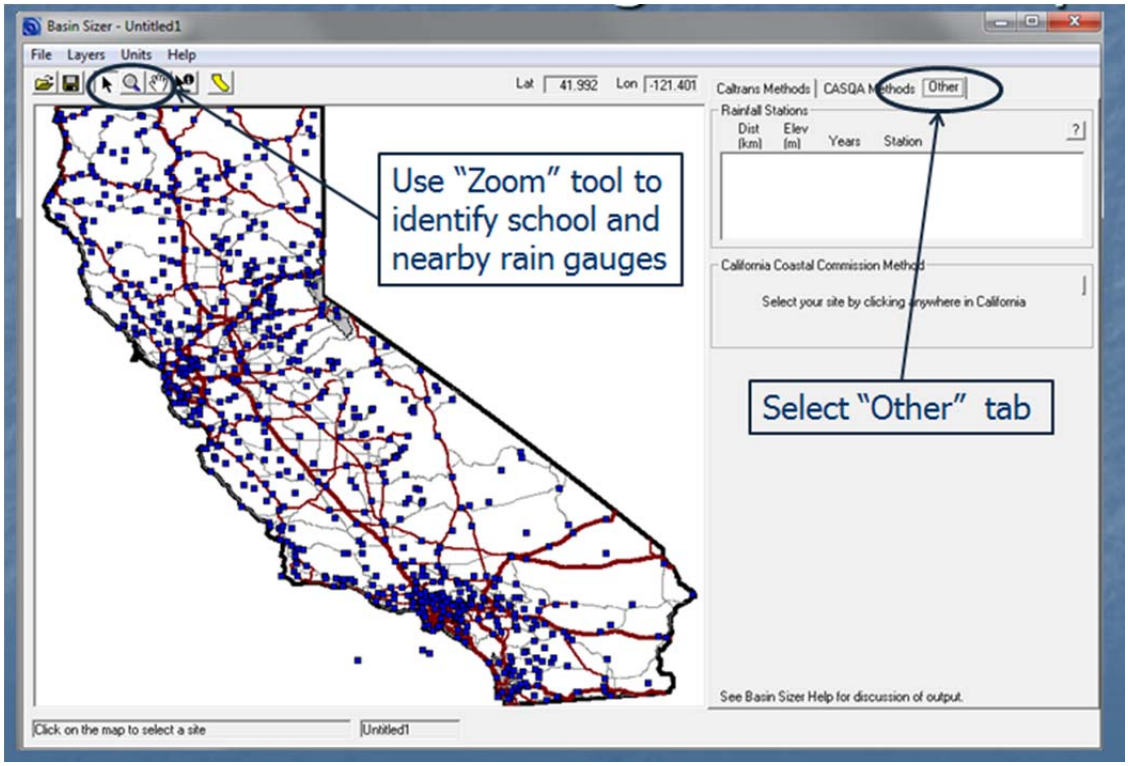

Figure 1. Basin Sizer – Select "Other" Tab and Zoom to School Location

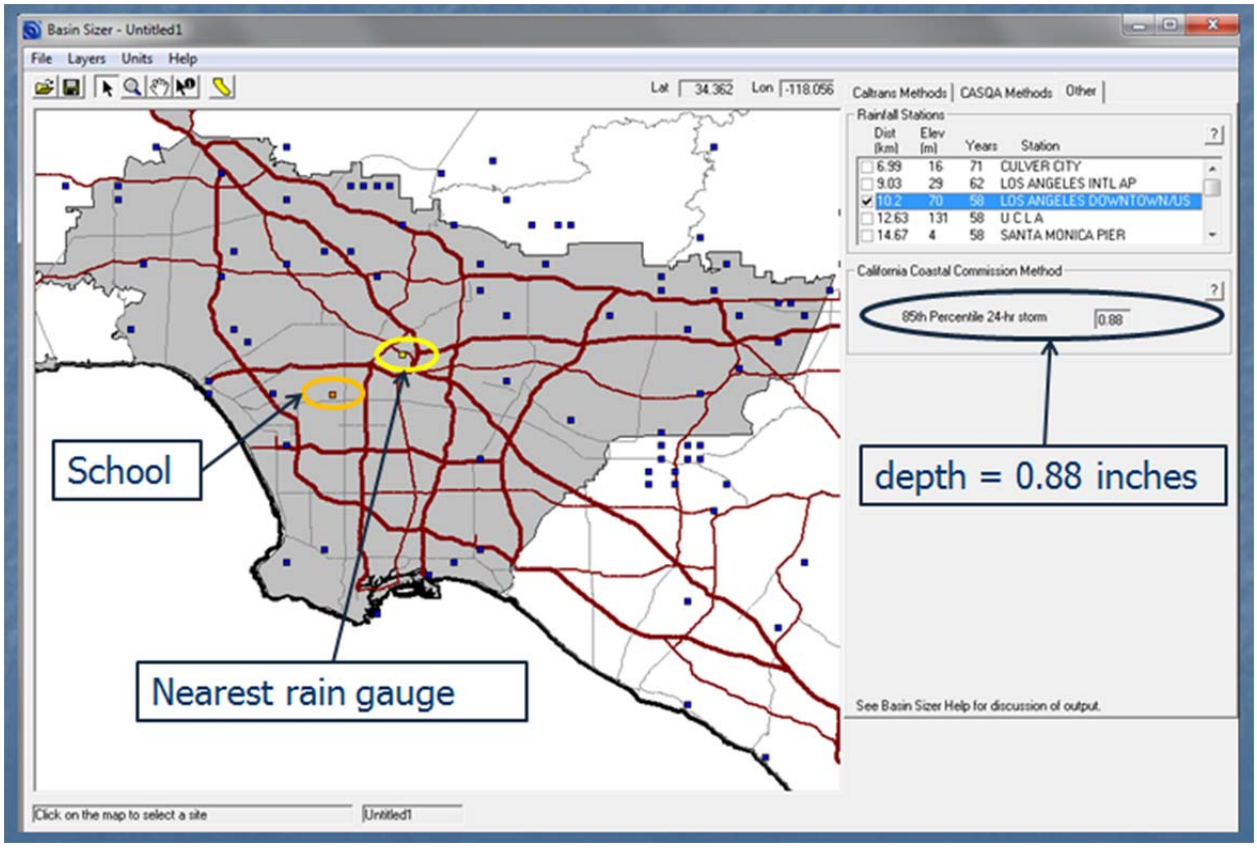

Figure 2. Basin Sizer – Select Nearest Rain Gauge and Record Design Storm Depth

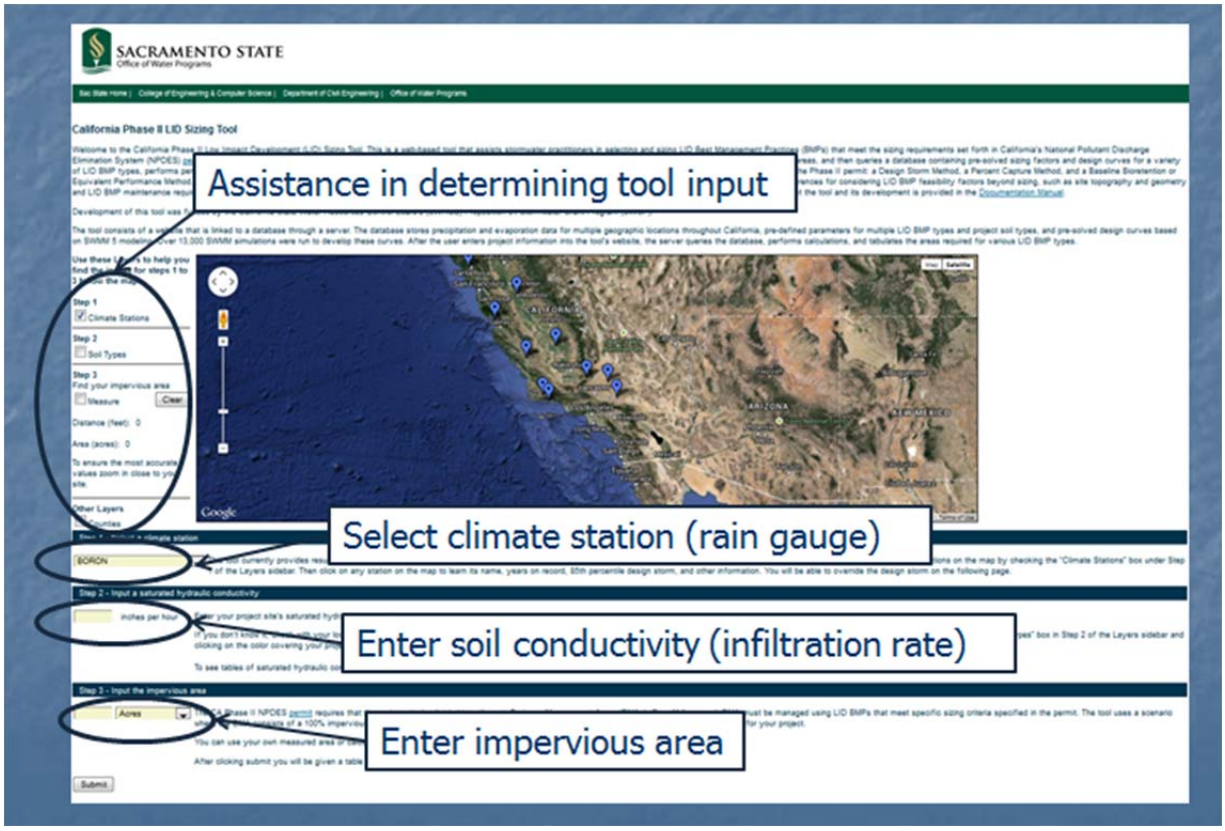

Figure 3. LID Sizing Tool – Enter Input

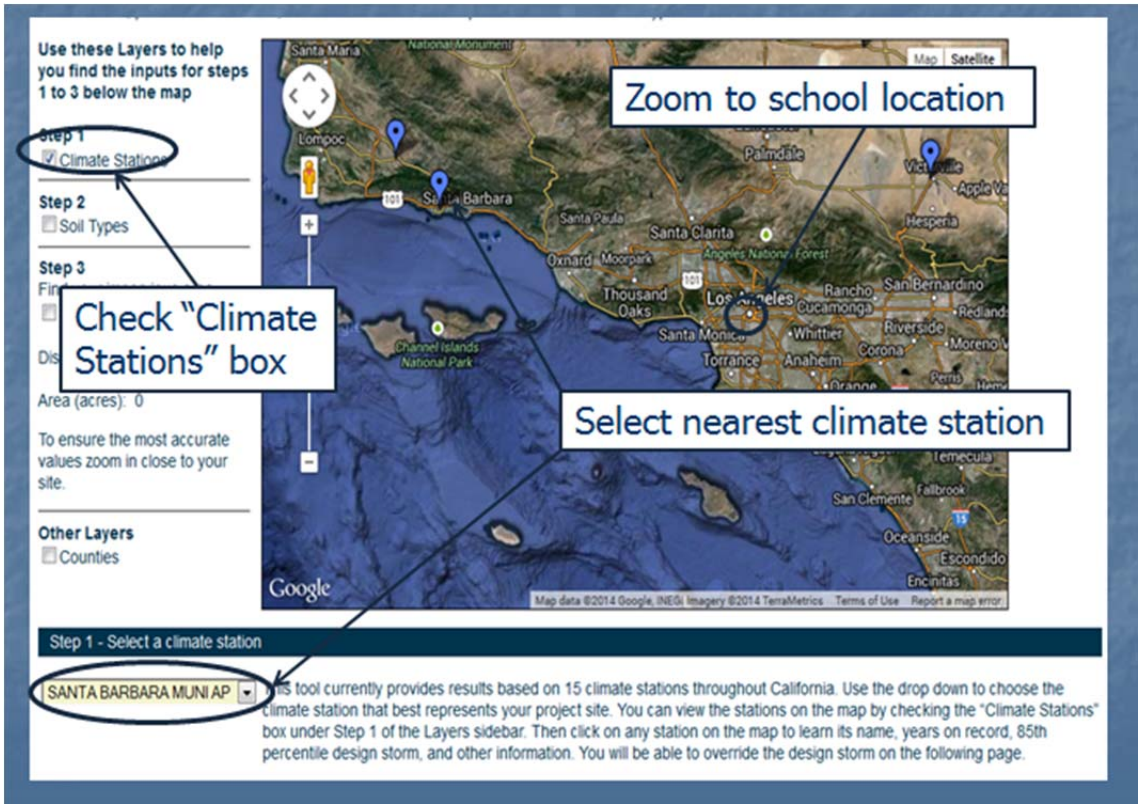

Figure 4. LID Sizing Tool – Zoom to School Location and Select Climate Station

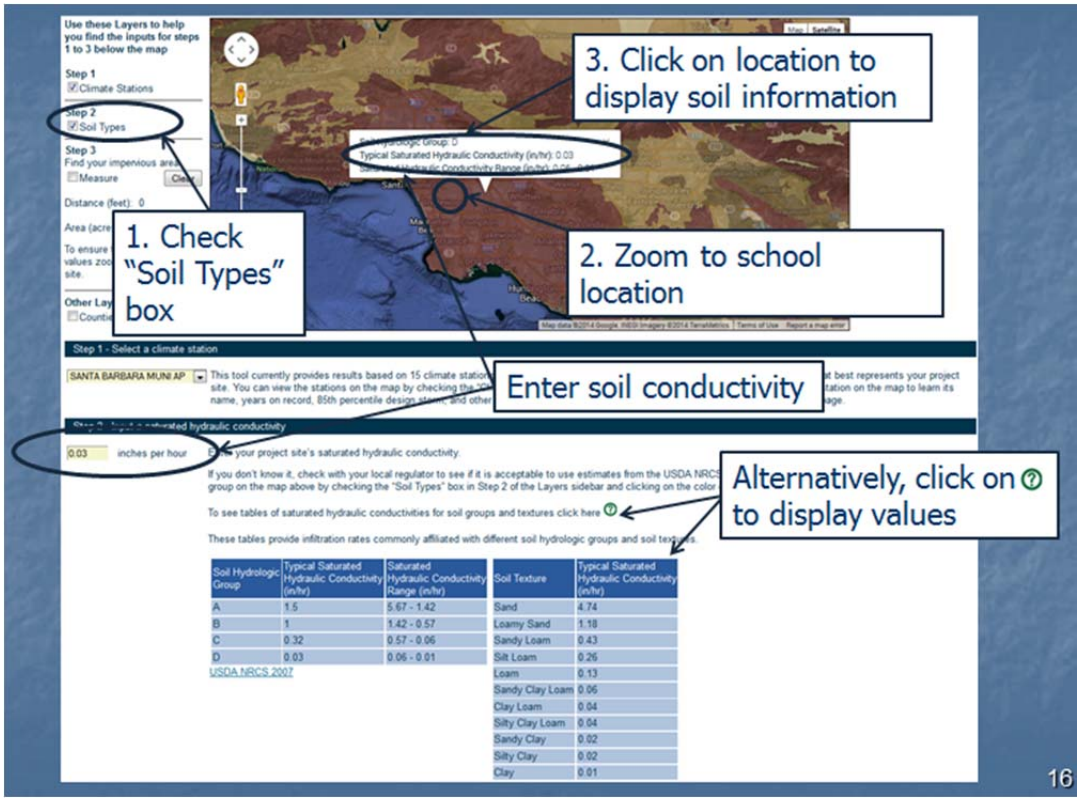

Figure 5. LID Sizing Tool – Zoom to School Location and Enter Soil Conductivity

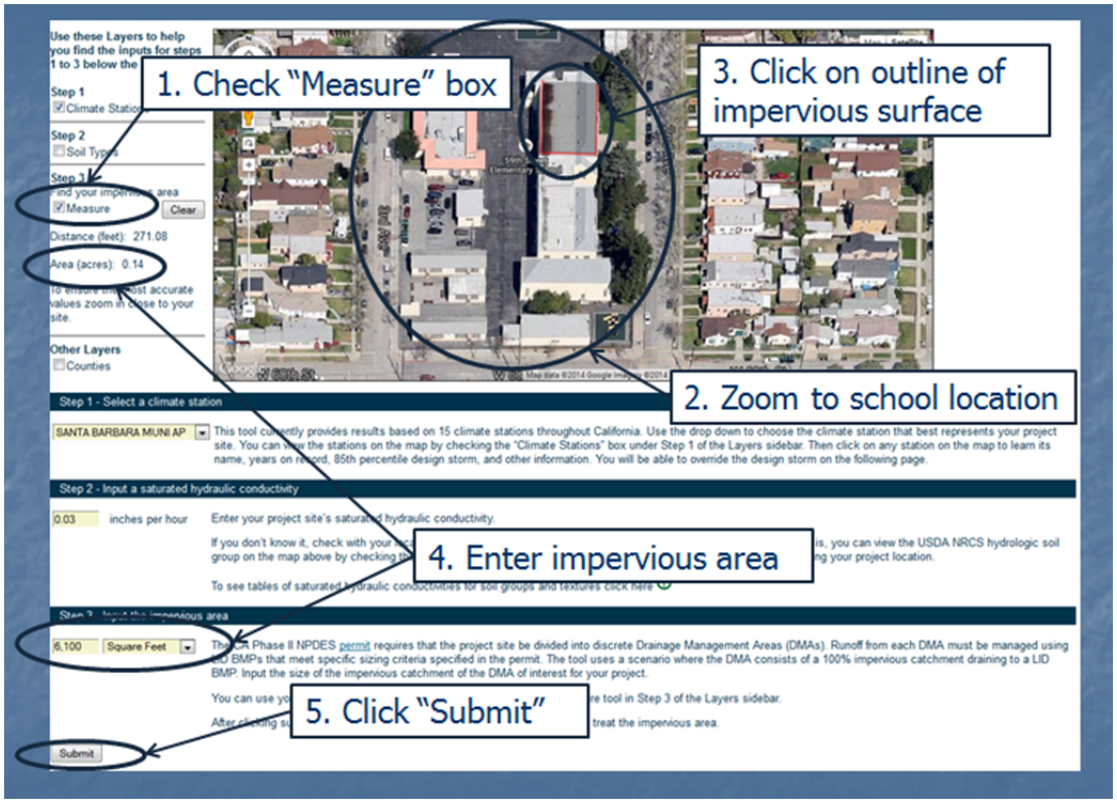

Figure 5. LID Sizing Tool – Zoom to School Location and Enter Impervious Area

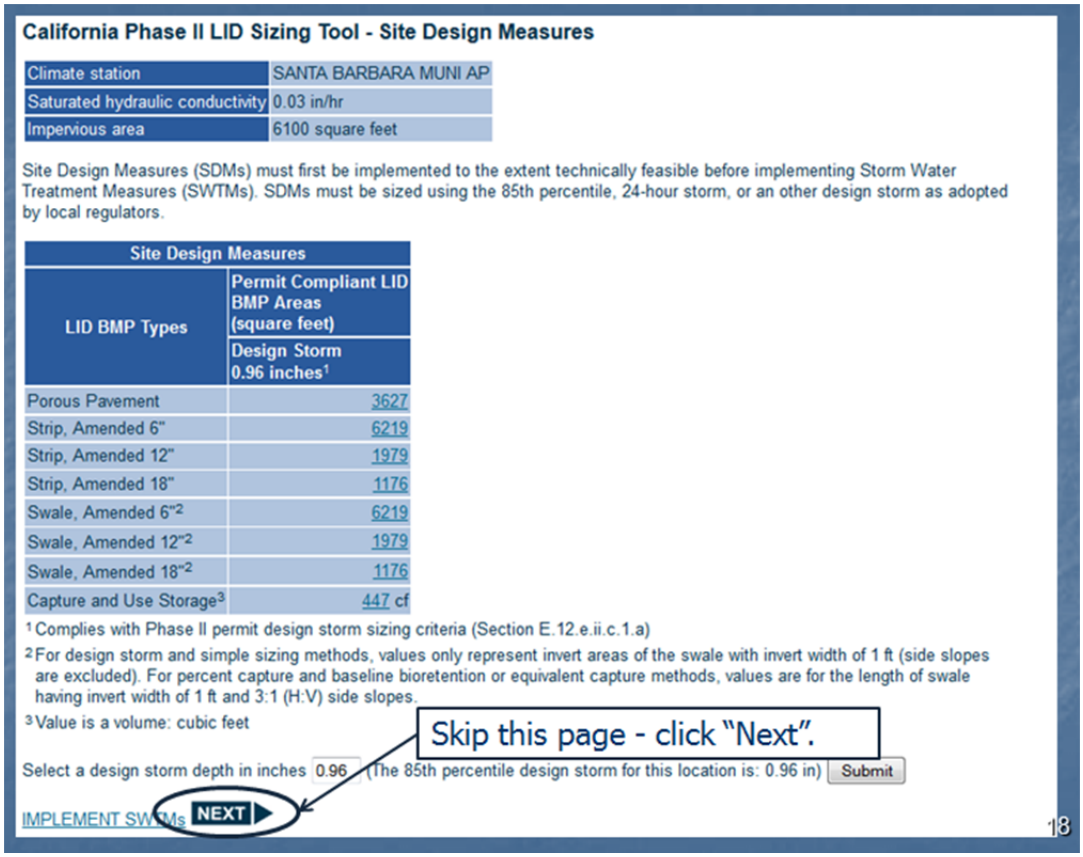

Figure 6. LID Sizing Tool – Skip Site Design Measures Page

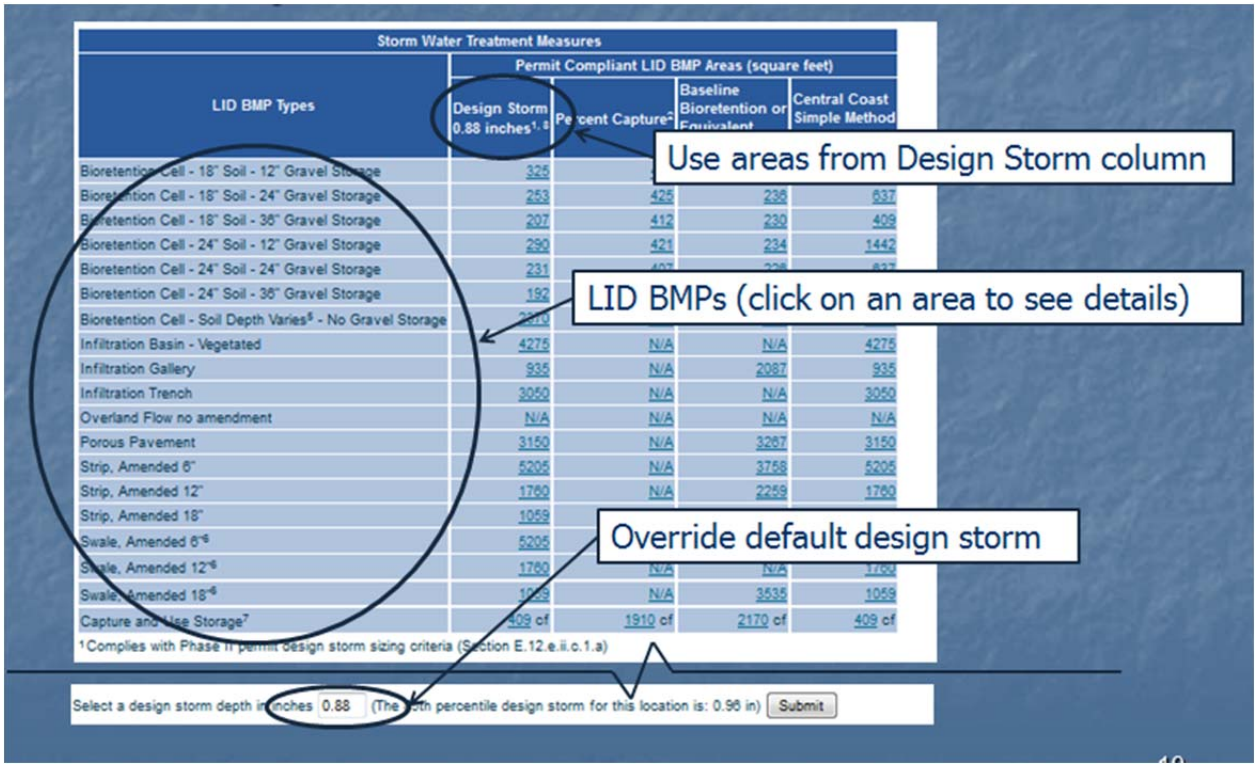

Figure 7. LID Sizing Tool – Review Area Table

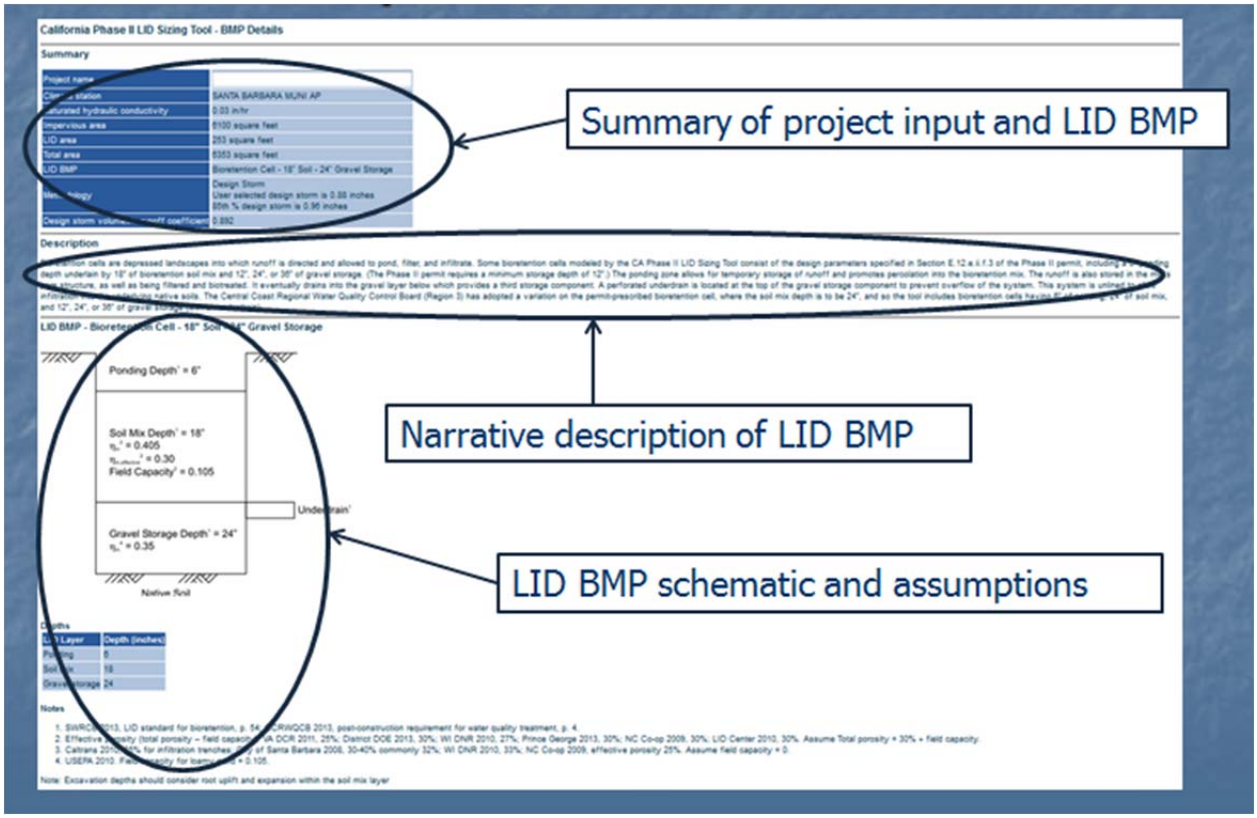

Figure 8. LID Sizing Tool – Review LID BMP Details

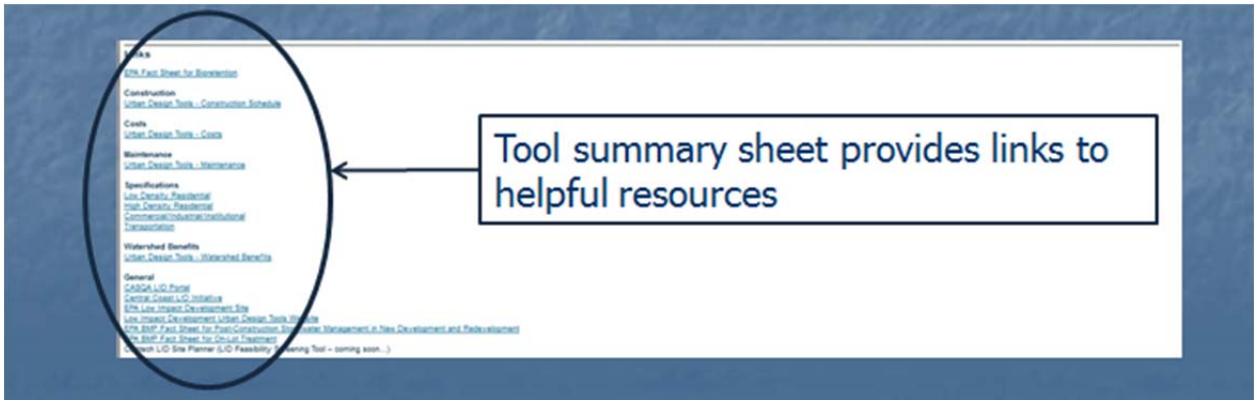

Figure 8. LID Sizing Tool – Evaluate Feasibility