



How an environmental services firm delivered better, more accurate delineation results in real-time.

An Ecobot customer was subcontracted by a large engineering firm to conduct wetland delineations on a 380-acre site. The entire site was located behind a levee in a floodplain along a major US river and navigable water. The site was assumed to have some wetlands, but the extent was unknown. The delineations were part of environmental due-diligence prior to land purchase by a power company proposing to utilize a large portion of the site for a new power plant.

A total of 153 acres of wetland in 4 different cells were delineated on site.



Selecting the right mobile tool for the job

Ecobot's customer used the app for the duration of the project. With the added efficiency of Ecobot, three field scientists completed **71 sample points in 5 days** and completed all flagging and mapping of wetland polygons in 1 day—a total of 6 field days to complete what typically would have taken the same team 9 field days to complete.

Because Ecobot allows for real-time generation of USACE PDFs, daily updates of delineation progress allowed the engineering firm to begin site planning in parallel to the environmental assessment project.

Ecobot's customer was able to save 35 field hours with field efficiency gains, and 45 office hours by not having to complete field forms and manually enter data. The final 213-page PDF was generated by Ecobot in under 2 minutes.

Prior to using Ecobot – using the traditional pen-and-paper collection method – the customer set a profitability target of 15%. **By using Ecobot, the actual profit margin on the job increased to 30%** while freeing up 80 person hours.



Results

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By using the Ecobot app we were able to complete five to six more sampling points per day per person.

The engineering firm we're subbing to loved that we could send regular updates throughout the day on the progress of what we were finding.

Project Budget	\$ 31,200.00
Project Estimated Cost <i>without</i> Ecobot	\$ 26,505.00
Profit Target	15%
Project Cost <i>using</i> Ecobot	\$ 21,763
Actual Profit	30%
PROFIT INCREASE	15%
Total Hours - Estimated	285
Field (3 people, total)	180
Office (1 person)	105
Total Hours - Actual	205
Field	135
Office (<i>including assesment doc.</i>)	70
Average Billing Rate	\$93
Total People (1 senior, 2 junior)	3
Field Time Saved	45
Office Time Saved	35
TOTAL TIME FREED UP	80
Cost Saved (in billable person hours)	\$ 7,440.00
Cost of Ecobot @ \$38 / sampling point	\$ 2,698.00
NET PROFIT INCREASE	\$ 4,742.00

Key Benefits

- Total time savings of 4-5 hours per person per day
- Normalized data and standardized USACE PDF layout across the entire team
- Doubled project profit margin

