



Office of
INDIANA STATE CHEMIST AND SEED COMMISSIONER

Protecting Indiana's Agriculture and Environment - Feed, Fertilizer, Pesticide and Seed

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2013 Imprelis Soil Sampling Follow-up Study

Attached are the results for the 2013 Imprelis soil sampling follow up study. For purposes of this study eleven sites where Imprelis (aminocyclopyrachlor) was applied and detected in soil and vegetation samples in 2011 and 2012 were re-sampled in 2013. The purpose of the current study was to determine whether Imprelis could still be detected in soil samples obtained in the spring of 2013. For the 2013 follow up, composite soil samples were taken to a depth of 6 inches. The soil samples were then analyzed for aminocyclopyrachlor (ACP). Aminocyclopyrachlor was below the detectable limit (BDL) in six of the eleven samples that were taken (detection limit of 0.01 parts per billion). Aminocyclopyrachlor was detected in five of the samples. However, the ACP level was below the quantifiable limit (BQL) in four of the samples (quantifiable limit of 0.04 ppb). You will note on the attached sampling results table that the state chemist residue laboratory did attempt to quantify those results that were BQL, but these numbers are not scientifically valid and should be viewed as guesstimates only.

2013 Imprelis Soil Sampling Follow Up Results

| Case # | Sample Description* | ACP found in 2013 |
|-----------|---|-------------------|
| 2013-0686 | 6 inch soil composite from 2011 Imprelis treated area | BQL 0.02 ppb |
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| 2013-0687 | 6 inch soil composite from 2011 Imprelis treated area | BQL 0.02 ppb |
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| 2013-0688 | 6 inch soil composite from 2011 Imprelis treated area | BDL |
| | | |
| 2013-0689 | 6 inch soil composite from 2011 Imprelis treated area | BDL |
| | | |
| 2013-0690 | 6 inch soil composite from 2011 Imprelis treated area | BDL |
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| 2013-0691 | 6 inch soil composite from 2011 Imprelis treated area | BDL |
| | | |
| 2013-0692 | 6 inch soil composite from 2011 Imprelis treated area | BDL |
| | | |
| 2013-0693 | 6 inch soil composite from 2011 Imprelis treated area | BDL |
| | | |
| 2013-0694 | 6 inch soil composite from 2011 Imprelis treated area | BQL 0.01 ppb |
| | | |
| 2013-0695 | 6 inch soil composite from 2011 Imprelis treated area | 0.1 ppb |
| | | |
| 2013-0696 | 6 inch soil composite from 2011 Imprelis treated area | BQL 0.02 ppb |

ACP = aminocyclopyrachlor BQL = below quantifiable limit BDL = below detection limit
ppb = parts per billion

Detection limit of 0.01 ppb

Quantifiable limit of 0.04 ppb