

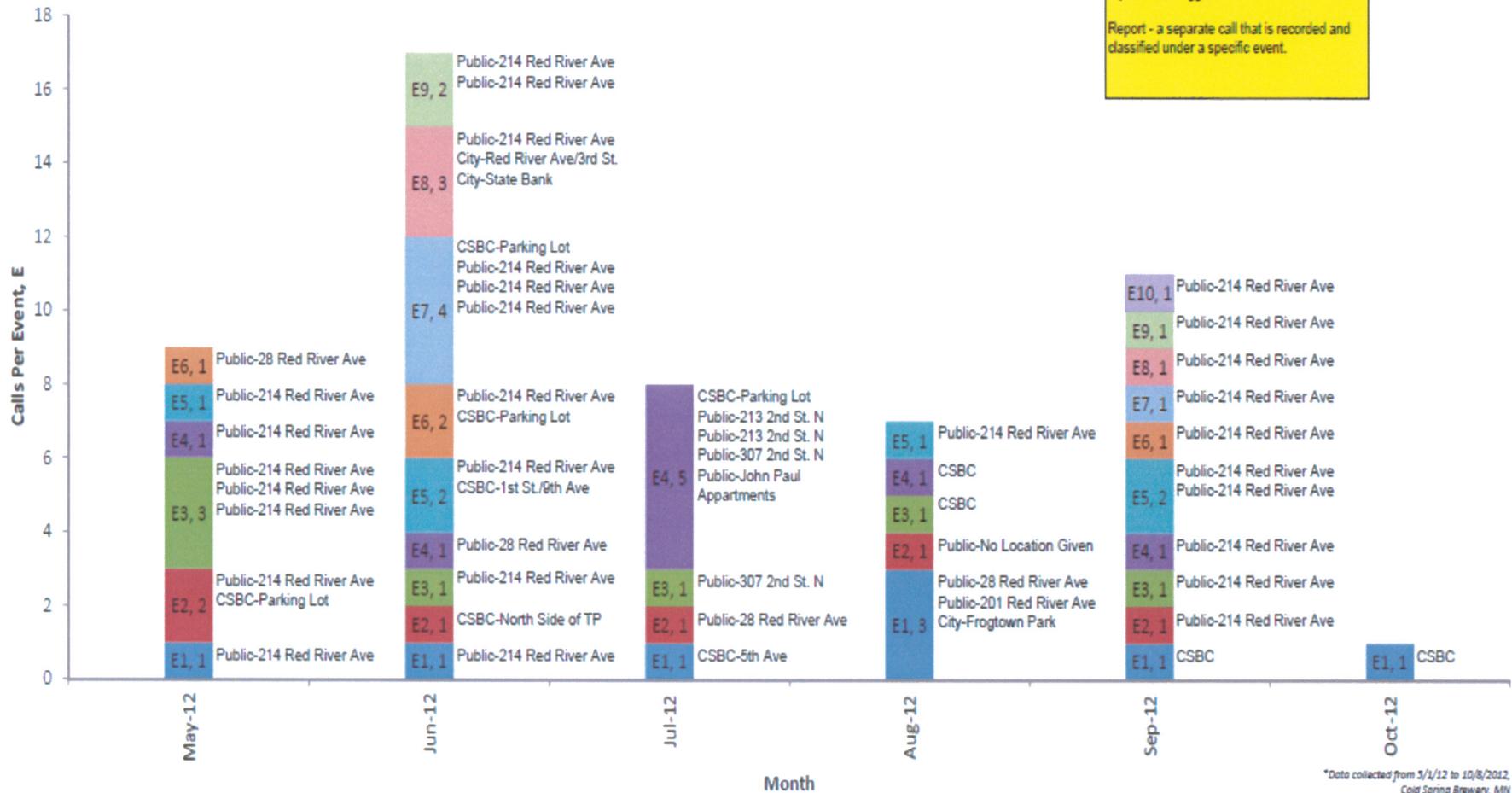
Cold Spring Brewing Co.
Odor Status Report
May, 2012 - Present

November 28, 2012

Reports Per Odor Event May 2012 - October 2012

Event - A discrete occurrence that individual reports are logged

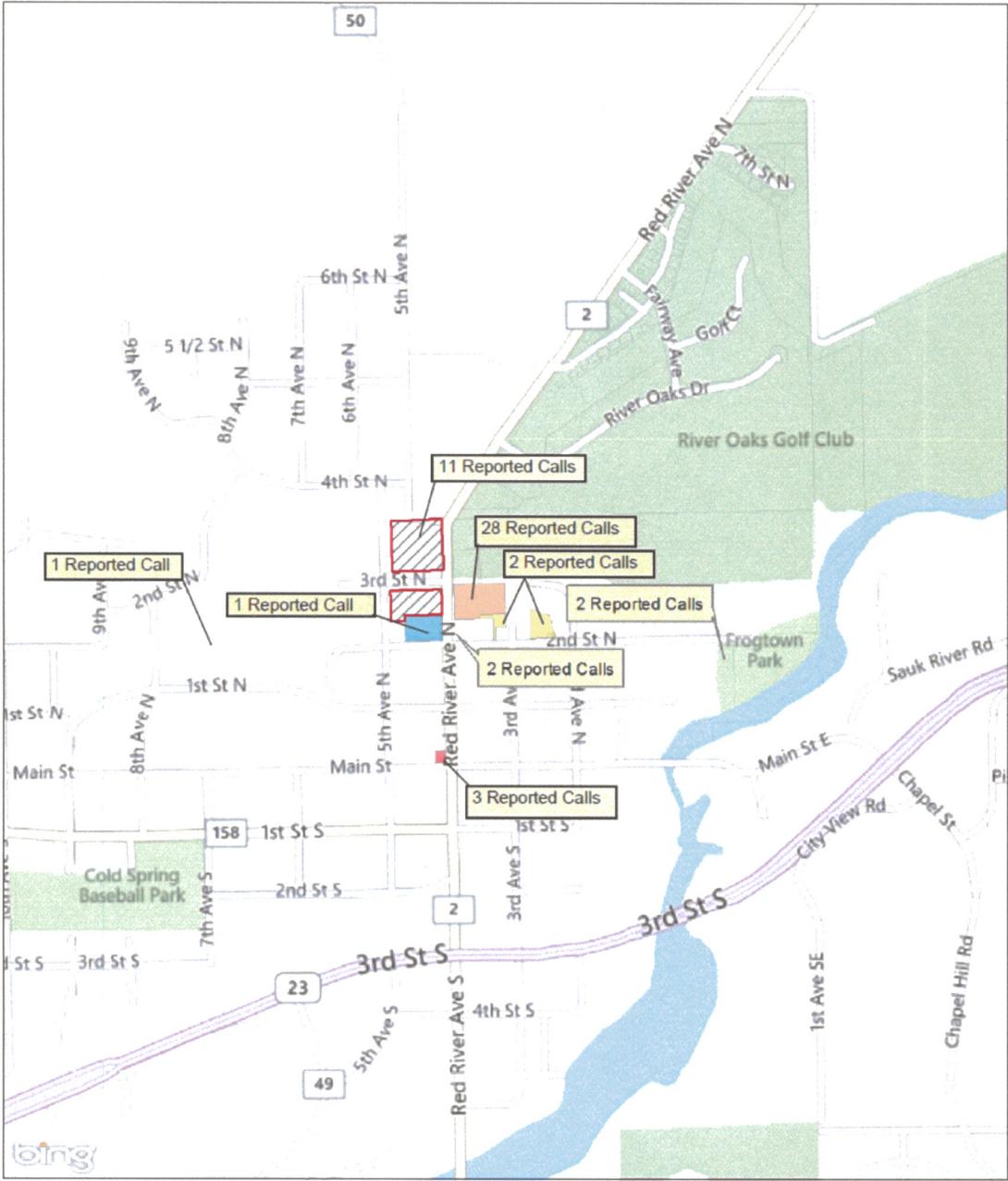
Report - a separate call that is recorded and classified under a specific event.



*Data collected from 3/1/12 to 10/8/2012, Cold Spring Brewery, MN

Odor Report Map

5/2012- Present



Odor Reports Map

Cold Spring Brewery Co.

Figure 1 Cold Spring, MN

Legend

- Brewery Property
- Assessors Parcels

Frequency Reports*

 1	 28
 2	 3

*Reports based on call logs between May 1, 2012 & October 8th, 2012.
Sources: Stearns County, Cold Spring, ESRI

This map was created using MFRA's Geographic Information System (GIS) in a compilation of information and data from various sources. This map is not a survey or legally recorded map and is intended to be used as a reference. MFRA is not responsible for any inaccuracies contained herein.

Chronology

November, 2011 – May 2012

- Identification of emission sources
- Identification of odor sources from the emission points - including wet scrubber at current pretreatment plant and Metering/Sampling Building
- Identification of specific odor types

May, 2012 – October, 2012

- Chemical addition to address odor issues from pretreatment plant - wet scrubbers
- Identification of sampling protocol to quantify odor generation from Metering & Sampling Bldg (MSB). Data collected.
- Identification of several technologies to address MSB.
- Met with City staff to evaluate possible impacts at City POTW.
- Collected proposals from the specific technology suppliers
- Initiated trials with two treatment approaches, quantify effectiveness based on sampling protocol at the MSB location

Next Steps

October, 2012 –

- Continued evaluation of specific technologies using the MSB location as the major odor source
- Installation of dedicated odor data collection equipment
- Comparison of odor data from MSB with reported events
- Conduct trials with several technology suppliers to compare effectiveness at the MSB and the reported events

Thank You

Questions?