



# Community Theatre Mold and Odor Decontamination: Case Study

Powerful efficacy with low toxicity. *PureX* chlorine dioxide from ORIN Technologies LLC.

## The Challenge

A community theatre in Verona, WI experienced significant mold problems caused from water drainage into the building from clogged gutters. The facility contained a practice stage, closed offices and an open-air mezzanine that was packed with all the clothing and props for stage events. Those using the facility complained of skin rashes and breathing problems associated with mold.

ORIN Technologies worked with the Verona Community Theatre, they set out to reduce mold that had developed throughout the facility, as well as eliminate odors associated with mold. Treatment consisted of 6-hour gas treatment ClO<sub>2</sub> overnight and was in use an hour after the treatment occurred. Swabs of various surfaces were taken before and after treatment, counting mold levels. The following tables report the results.

## Results

	Pre-Treatment	Post-Treatment	Percent Reduction
Cabinet	20	0	100
Music Room	2,800	40	99
Piano	290	110	62
Bathroom Wall	0	0	NA
Office	25,000	60	99
Furnace Return	2,300	70	97
AC-Unit for Office	770	0	100
Northeast Corner	1,900	700	63
Return Vent in Sewing Room	350	10	97
Utility Room	300	50	83
<b>Total</b>	<b>33,730</b>	<b>1,040</b>	<b>97</b>

\*A zero value indicates that the results were below detection limits

## Summary

ClO<sub>2</sub> was shown to successfully destroy the mold spores throughout the facility. The gas treatment of ClO<sub>2</sub> resulted in a 97% reduction of mold spores and odor on-site.

