

## **Transaction Quality Analysis – OpenYield**

## **Executive Summary**

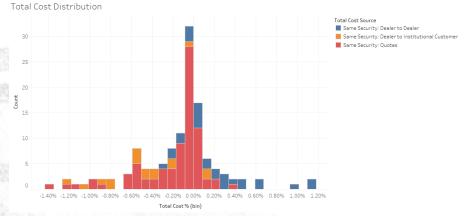
- BondWave examined 125 municipal trades from OpenYield in Q3 2024.
- Using a proprietary methodology refined over 20 years, BondWave compared each print to a benchmark price to calculate trade cost. Each trade cost was subsequently compared to costs experienced by similar trades over the last quarter to calculate transaction quality.
- OpenYield trades had an average price improvement of 15 bps vs peers.
- OpenYield transaction quality beat peers across all categories: Ratings, Size, Maturity & Cost Source.
- Transaction quality was particularly strong for less liquid investment grade bonds, where transaction costs were at 84<sup>th</sup> percentile.

## **Summary of Data**

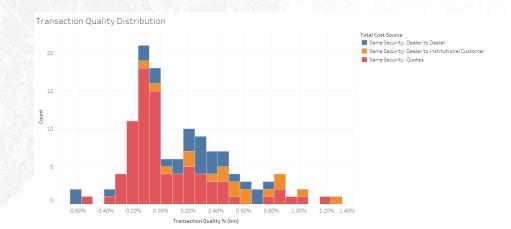
- 125 Municipal bond trades were examined. All trades were executed against OpenYield offerings.
- 45 trades had other trading activity on the same day.
  - 28 trades had other dealer to dealer trading activity,
  - o 17 trades had other institutional customer trading activity.
- 80 trades had no other trading activity but had live quotes on other ATS's at the same time.

## Analysis and Observations

• Total Cost was calculated for every trade based on the available comparison points. *Negative values in Total Cost represent price improvement.* 



- Each trade was matched to its appropriate peer group and comparisons were made to the average cost for the peer group to determine the transaction quality.
  - Transaction quality is the difference between the average cost for the peer group (TQA Benchmark) and the cost for the trade examined (Total Cost). *Positive values in Transaction Quality represent cost savings/price improvement relative to one's peers.*



• Peer groups are based on bond and trade characteristics to ensure like-to-like comparisons.

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Avg.

Transaction

Quality %

0.01%

0.07%

0.59%

0.27%

0.49%

0.64%

Avg. Transaction

Ouality %

0.09%

0.12%

0.00%

0.19%

0.51%

тоа

Benchmark %

-0.04%

0.00%

0.15%

0.27%

0.02%

0.03%

TQA Benchmark %

-0.02%

0.07%

0.01%

-0.06%

0.03%

Avg. Percentile

Rank

44%

68%

84%

97%

Avg. Percentile

Rank

51%

51%

46%

92%

86%

51%

85%

- OpenYield trades had an average price improvement of 15 bps vs peers.
- Total costs were also ranked by percentile against the universe of trades in their respective peer groups.
- Overall execution quality on OpenYield in aggregate ranked in the 56<sup>th</sup> percentile, with average cost better than peer costs in all categories.

Summary By Total Cost Source						Summary By Rating Group			
Total Cost Source	Trades	Avg. Total Cost %	TQA Benchmark %	Avg. Transaction Quality %	Avg. Percentile Rank	Rating Group	Trades	Avg. Total Cost %	
Same Security: Dealer to Dealer	28	0.23%	0.44%	0.21%	62%	AAA	17	-0.05%	
						AA	84	-0.07%	
Same Security: Dealer to Institutional Customer	17	-0.48%	0.03%	0.51%	86%	A	6	-0.44%	
					0070	BBB	1	0.00%	
Same Security: Quotes	80	-0.20%	-0.14%	0.05%	47%	High IG (AAA/AA)*	14	-0.46%	
					4790	Low IG (A/BBB)*	3	-0.61%	
Summary By Ma	turity Bi	'n				Summary By	Trade S	ize Bin	
Maturity Bin	Trades	Avg. Total Cost %	TQA Benchmark %	Avg. Transaction Quality %	Avg. Percentile Rank	Trade Size Bin	Trades	Avg. Total Cost %	
1 - 2.5 Yrs	32	-0.14%	-0.01%	0.13%	63%	0-25,000	72	-0.11%	
					0370	25,000-50,000	27	-0.05%	
2.5 - 5 Yrs	43	-0.20%	-0.06%	0.14%	55%	50,000-100,000	8	0.01%	
						100,000-250,000	1	-0.25%	
5 - 10 Yrs	50	-0.09%	0.09%	0.18%	51%	0-100,000*	17	-0.48%	

Summary By Total Cost Source

\*For liquid securities, individual rating categories and more granular trade size bins are used. For less liquid bonds, Rating Groups and Trade Size Bins are widened to strike a better balance of data availability and meaningful TQA benchmark calculations.

- OpenYield executions were particularly strong when other dealers were executing on the same day. In this circumstance OpenYield executions ranked in the 86<sup>th</sup> percentile with an average price improvement of 48 basis points versus a peer cost of 3 basis points for a net improvement of 51 basis points.
- OpenYield executions were in the top 16% for less liquid investment grade bonds. (High IG and Low IG categories).
- OpenYield executions were above average in all maturities with the shortest dated bonds showing the most cost savings/relative improvement.
- OpenYield executions demonstrated above average execution quality across all trade sizes.