

VM SOLUTIONS DRIVING INNOVATION

Nutrien[®]
Solutions



LOCAL APPROACH.
NATIONWIDE EXPERTISE.



Closed Chain of Custody

Providing Quality Assurance to Vegetation Management Professionals

In 2010, the Utility Arborist Association (UAA) assumed a leadership role by developing a Best Management Practice (BMP) to manage the chain of custody for herbicides. The BMP includes the entire cycle – from manufacturer to distributor and custom blender, through applicator, completing the sequence with returnable refillable containers. Ultimately, the intent of the *Closed Chain of Custody* BMP was to increase the level of professionalism and environmental stewardship in the utility vegetation management industry.

Blending herbicides supplied through a closed-loop delivery system has significantly enhanced the use of herbicides in the vegetation management industry.

At Nutrien Solutions, we believe this BMP has been underutilized, and now, through the development of a proprietary system, we can provide a better way to manage and measure programs while capturing all of the benefits of a *Closed Chain of Custody* BMP. We pride ourselves in providing innovative solutions - let us help you to think differently about using a *Closed Chain of Custody* system.

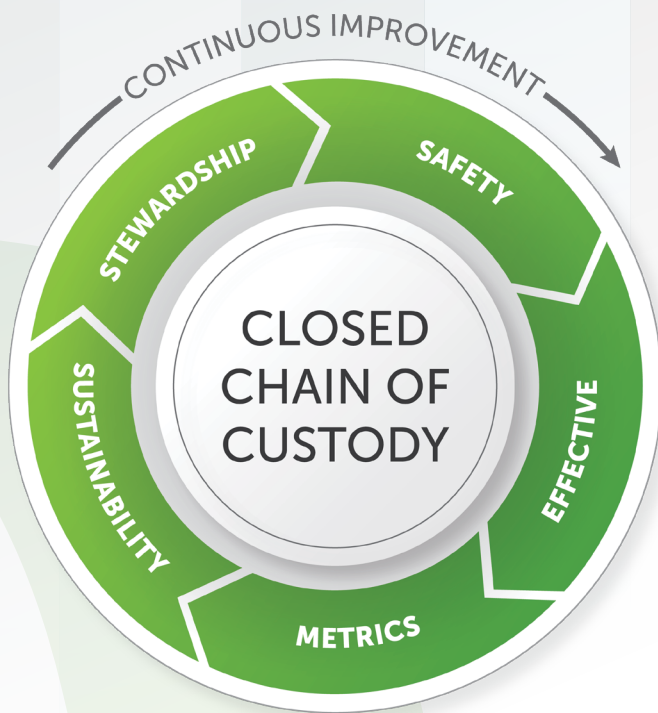


SAFETY ACCOUNTABILITY STEWARDSHIP SUPPORT

A NEW WAY

The metrics generated by Nutrien Solutions' *Closed Chain of Custody* system have revolutionized the industry with respect to tracking and reporting herbicides. This includes product costs and use, applicator performance, program sustainability and environmental compliance. Many users are embracing the use of these advanced metrics to meet internal and external tracking and reporting requirements.

The customized system is designed to coordinate all program business units, linking herbicide manufacturers, distributors, applicators, assets and program managers. The framework includes options for modifications that meet security and reporting needs, incorporate established programs, and facilitate sharing of information internally and externally.



Thinking Differently About **CLOSED CHAIN OF CUSTODY**

Contract Specifications

How does your organization incorporate IVM BMP's across an entire system?

Field Execution

How can you be a leader in promoting the highest level of safe work practices in the field?

Contractor Performance

You manage a complex high value, regulated asset - how can you improve performance and quality control?

Measure Results

How can you better bridge the connection between product tracking and overall program stewardship using auditable metrics?

Integration of **Closed Chain of Custody** for Vegetation Management

SAFETY	STEWARDSHIP	METRICS	SUSTAINABILITY	EFFECTIVE MESSAGING
<ul style="list-style-type: none"> • Worker Protection • Risk Management • Public Safety 	<ul style="list-style-type: none"> • Accountability • Environmental Responsibility • Support 	<ul style="list-style-type: none"> • Contractor Performance • Asset Management • Continuous Improvement • Quality Control 	<ul style="list-style-type: none"> • Reliable Service • Managing Compliance • Waste Reduction 	<ul style="list-style-type: none"> • Community Acceptance • Green Branding • Stewardship Accreditation
<p>Safety is our highest priority. Nutrien Solutions offers innovative solutions designed to promote safe working practices. We provide stewardship and educational training that enhance on-the-ground herbicide applications. We make it easy for contractors to apply the correct amount of product to target vegetation through a closed loop delivery system. This system includes closed connections at the transfer points between herbicide mixing tanks, containers, and application equipment. Maintaining closed connections throughout the process reduces the potential of exposure to concentrated herbicides for workers, the public and the environment.</p>	<p>We provide an environmentally safe alternative for our customers and the landowner(s) that they service. The accountability of our system helps our customers manage for compliance, and with the closed-loop system, we can provide you with service and support to minimize potential impacts to the environment. We're confident that we can help you to manage vegetation in an environmentally responsible way.</p>	<p>When it comes to metrics, Nutrien Solutions can provide you with the data you need to support your vegetation management program. Customized data can be generated that demonstrates your commitment to continuous improvement. Auditable metrics document what was used, where it went, and if it was properly applied. Metrics that quantitatively measure contract performance and provide quality control mean better reporting and more confidence in your program.</p>	<p>Communication is an important part of a sustainability strategy. Integrating the <i>Closed Chain of Custody</i> BMP dramatically reduces the waste stream associated with the herbicide component of your vegetation management program. Our returnable+refillable container system eliminates both container rinsing and large inputs into the waste stream. By minimizing container storage space and handling requirements, cost reductions and environmental benefits can also be realized.</p>	<p>We realize that your vegetation management program can be quite visible to the public. It is important that you are able to effectively communicate how and why you manage vegetation. There are a number of positive messages that Nutrien Solutions' <i>Closed Chain of Custody</i> system has to offer - highlighting the ability to develop positive relationships with key stakeholders and within the communities you serve. Our system improves messaging and demonstrates that the utility is helping you do everything you can to be good stewards of the environment. Your commitment to adopting industry recognized BMPs tells the public that you care about the community you serve.</p>

Advancing Closed Chain of Custody



Nutrien Solutions is a different kind of distribution company. The cornerstone of our success is our highly educated and trained field staff. We employ a variety of seasoned natural resource professionals, including foresters, aquatic plant managers and utility specialists. Our goal is to use this experience and commitment to help clients stay ahead of the curve in the vegetation management field. We provide solutions for forestry, aquatic, utility, railroad, roadside and rangeland management projects throughout the United States. Nutrien Solutions is the country's leading vegetation management provider, and we're excited to introduce you to solutions for your VM needs.

We pride ourselves in being the leaders in risk management solutions. Let us challenge you to think differently about **Closed Chain of Custody**.

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