

## North Bay Materials – Product Spec. Sheet

- **Product Name:** Marin County Organic Compost
- **Product Code:** NBM-CMP-MRN-112



### Product Description

Marin County Organic Compost is a mature, stable, and screened organic compost produced from processed green waste feedstocks. This compost has undergone controlled aerobic composting and curing to ensure biological stability, pathogen reduction, and consistent performance in landscape and soil-conditioning applications. Laboratory testing confirms the material is stable, very mature, non-phytotoxic, and safe for use in residential, commercial, and light civil landscaping projects. Its balanced nutrient profile and high organic matter content make it ideal for improving soil structure, moisture retention, and long-term soil health.

### Compost Stability & Maturity

Property	Result	Interpretation
Respiration Rate	2.5 mg CO <sub>2</sub> -C / g OM / day	<b>Stable</b> – suitable for all landscape uses
Ammonia : Nitrate Ratio	0.13	<b>Very Mature</b>
Ammonia (NH <sub>4</sub> -N)	39 mg/kg	Low
Nitrate (NO <sub>3</sub> -N)	290 mg/kg	Mature nitrogen form
Cucumber Bioassay	100% Emergence & Vigor	No phytotoxicity detected

**Overall Rating: Stable, Mature Compost**

### Nutrient Content (Dry Weight Basis)

Nutrient	Value
Total Nitrogen (N)	1.90%
Phosphorus (P <sub>2</sub> O <sub>5</sub> )	0.61%
Potassium (K <sub>2</sub> O)	0.93%
Combined N-P-K	3.4% (Average Nutrient Compost)
Plant Available Nitrogen (PAN)	≈ 5 lbs / ton (wet weight)
Carbon-to-Nitrogen Ratio (C:N)	16 : 1

### Organic Matter & Physical Properties

Property	Result
Organic Matter	54.9% (dry wt.)
Organic Carbon	32.00%
Ash Content	45.10%
Moisture Content	≈ 41% (as received)
Bulk Density	≈ 35 lb / cu ft
pH	7.72 (near neutral)
Electrical Conductivity (EC5)	3.8 mmhos/cm

### Particle Size Distribution

Size Range	% by Weight
> 6.3 mm (¼")	3.00%
< 6.3 mm	97.00%

*Fine, well-screened compost suitable for most landscape and soil-blend applications.*

### Salts & Lime Content

Property	Result
AgIndex (Nutrients / Na + Cl)	7.3 (Balanced)
Sodium (Na)	0.18%
Chloride (Cl)	0.29%
Lime Content (CaCO <sub>3</sub> )	15 lbs / ton

*Balanced nutrient-to-salt ratio — safe for repeated landscape use.*

### Pathogen & Safety Testing

Test	Result
Fecal Coliform	970 MPN/g – Pass
Salmonella	< 3 MPN / 4g – Pass
EPA 503 Metals	All Pass

### Heavy Metals (Dry Weight Basis)

*All values well below EPA limits*

Metal	Result (mg/kg)
Arsenic (As)	3.9
Cadmium (Cd)	< 1.0
Lead (Pb)	22
Mercury (Hg)	< 1.0
Chromium (Cr)	38
Copper (Cu)	53
Zinc (Zn)	180

### Physical Contaminants

Material	Result
Plastic (film & rigid)	< 0.1%
Glass	< 0.1%
Metal	< 0.1%
Sharps	None Detected

## Common Usage

- Soil amendment for lawns, gardens, and planting beds
- Landscape beds, shrubs, and tree installations
- Raised beds and planter soil blends
- Mulch blending and top-dressing
- Compost component in custom soil mixes
- Bioretention and bioswale soil blends (when mixed per design specs)

## Performance Notes

- **Stability:** Stable compost suitable for immediate use
- **Maturity:** Very mature with no detectable phytotoxic effects
- **Nitrogen Release:** Slow, controlled release (low burn potential)
- **Plant Safety:** 100% seed emergence and vigor in bioassay testing
- **Salt Balance:** Balanced nutrient-to-salt ratio (AgIndex 7.3)
- This compost performs best as a **soil conditioner** rather than a high-nitrogen fertilizer and is ideal for repeated seasonal applications.

## Coverage per Cubic Yard

Approximate coverage rates:

- **Topdressing (1 inch depth):** ~300 sq ft
- **Soil amendment (2 inches blended):** ~150 sq ft
- **Mulch layer (3 inches):** ~90 sq ft

*Actual coverage may vary depending on compaction, soil conditions, and installation method.*

## Sustainability Statement

This compost is produced using recycled organic materials and processed under controlled composting conditions to reduce landfill waste and support sustainable soil management practices. The composting process promotes carbon recycling, soil regeneration, and long-term soil fertility while meeting established pathogen and metals safety standards.

## Packaging

- **Sold by:** Cubic Yard
- **Delivery Method:** Bulk dump truck delivery
- **Typical Load Sizes:** Vary by truck capacity

Material is delivered loose and dumped in a safe, accessible location as determined by site conditions.

## Safety Information

- Meets pathogen reduction standards (Fecal Coliform & Salmonella: Pass)
- EPA 503 metals: All pass
- Physical contaminants (plastic, glass, metal): < 0.1%
- No sharp materials detected

## Handling:

Wear gloves and dust protection when handling dry material. Wash hands after use. Avoid inhalation of dust in dry or windy conditions. **Recycle materials may contain small traces of plastic, glass or foreign particles.**

**Disclaimer**

All listed data/testing results is provided by the material producer or 3rd party laboratory. North Bay Materials does not perform or offer in-house aggregate testing.

All materials on our site are natural blend, meaning they are machine processed not machine made. North Bay Materials does not guarantee specific nutrient analysis or exact composition percentages. It is the responsibility of the installer to ensure product suitability for intended application.

**Material Limitations and Liability:**

Please note: Due to natural shifting and separation that can happen during transportation, material or aggregate gradations are only guaranteed at the producer's facility – not at the jobsite. North Bay Materials and our suppliers make no claims or guarantees that this material will meet specific project requirements, specifications, or design standards. It is the buyer's responsibility to confirm suitability and obtain any necessary approvals or certifications prior to use. All materials are provided as is, with no warranties – express or implied – including but not limited to warranties of merchantability or fitness for a particular purpose. We do not guarantee how the material will perform once installed or in any finished work. By purchasing, the buyer agrees that North Bay Materials and our suppliers are not liable for any damages – including indirect, incidental, special, or consequential losses such as lost profits – whether based on warranty, contract, negligence, or any other legal theory, even if those damages were foreseeable.



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