PRODUCT SPECIFICATION + USE GUIDE

Organic Compost

(OMRI Listed)

SKU SOL-AMND-CMPST-102 | Bulk soil amendment

Screened compost for blending into soil and selected landscape topdressing uses. This guide brings together the supplied sample analysis, practical application planning and clear explanations of the laboratory terms.

51.2%
Organic matter
Dry-weight basis

72.2%
Particles smaller than 2 mm
Measured share by weight

13:1
Carbon-to-nitrogen ratio
Use with the other maturity results

8.67
pH: alkaline
Check suitability of the final soil blend

Material at a glance

Property	Product or sample information
Appearance	Dark brown to black; screened texture; may contain wood fibers.
Ordering unit	Cubic yard (yd^3); delivered in bulk.
Sample bulk density	36 lb/ft^3 as received; approximately 972 lb/yd^3 (calculated).
Primary delivery areas	Marin, Contra Costa and Alameda counties.
Visible test date	September 4, 2025 - shown in the pathogen panel only.

Use as an amendment; review the blend before planting.

The respiration test was rated stable, while individual maturity indicators were mixed. Blend into soil and review pH, salts and intended use. See page 2.

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Read the results with confidence

A plant-growth test and individual chemistry indicators answer different questions.

Cucumber bioassay: healthy plants were reported

Test mixture: 1 part compost to 2 parts vermiculite by volume. The percentages below are laboratory test results, not predictions of field performance.



Stability and maturity: read the whole set

Indicator	Sample result	Interpretation in supplied report
Respiration / stability	2.6 per g OM 1.3 per g TS	Stable; values are mg CO2-C/g/day. OM = organic matter; TS = total solids.
Ammonium-N	340 mg/kg, dry	Rated mature for this individual indicator.
Nitrate-N	8.5 mg/kg, dry	Rated immature for this individual indicator.
Ammonium:Nitrate-N	40:1	Rated immature for this individual indicator.
Carbon:Nitrogen	13:1	Report describes this as indicating maturity; not a stand-alone test.

pH 8.67: the sample is alkaline

For acid-loving plants, sensitive seedlings or a soil that is already alkaline, obtain blend-specific advice and test the finished mix. Compost pH alone does not tell you the pH of the amended soil.

EC5 = 4.2 mmhos/cm: interpret it with the test method.

EC measures soluble ions, including nutrients and salts. The source labels this EC5 on a dry-weight basis. Do not compare it directly with soil or potting-media limits measured by a different extraction method.

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Complete laboratory analysis

Results are transcribed as reported. Dry weight and as received are different reporting bases.

Parameter	Dry weight	As received	Units
Total nitrogen (N)	2.1	1.4	%
Ammonium-N (NH4-N)	340	220	mg/kg
Nitrate-N (NO3-N)	8.5	5.6	mg/kg
Organic nitrogen (organic N)	2.1	1.4	%
Phosphorus, as P2O5	0.81	0.53	%
Phosphorus, elemental P	3,500	2,300	mg/kg
Potassium, as K2O	1.20	0.80	%
Potassium, elemental K	10,000	6,600	mg/kg
Calcium (Ca)	2.4	1.6	%
Magnesium (Mg)	0.53	0.35	%
Sulfate (SO4-S)	89	59	mg/kg
Boron, total B	120	77	mg/kg
Moisture	0	34.1	%
Sodium (Na)	0.27	0.18	%
Chloride (Cl)	0.39	0.26	%
pH	NA	8.67	pH units
Bulk density	23	36	lb/ft³
Carbonates, as CaCO3	24	16	lb/US ton
Conductivity (EC5)	4.2	NA	mmhos/cm
Organic matter	51.2	33.7	%
Organic carbon	28.0	18.0	%
Ash	48.8	32.1	%
Carbon:Nitrogen (C:N)	13	13	ratio
AgIndex	6	6	ratio

Reading the table: As received includes water. The 0% dry-basis moisture value is a reporting convention, not actual water content. NA is not zero. Source rounding can prevent exact conversions. See page 8 for terms and units.

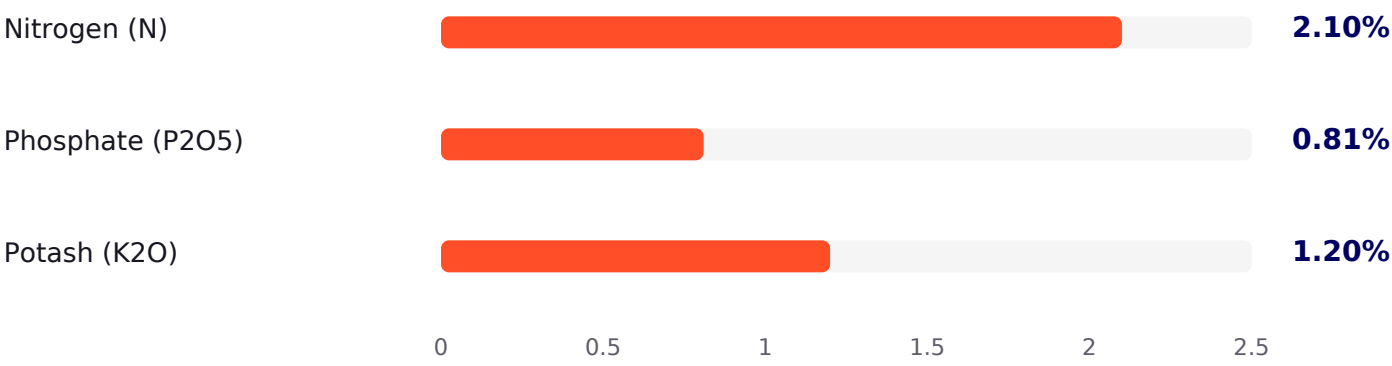
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Understand the nutrient value

Total nutrient content differs from the amount a plant can use in the first growing season.

Total primary nutrients

Dry-weight basis (%) | P and K shown as P2O5 and K2O



These are sample composition values, not a guaranteed fertilizer grade. The as-received primary nutrient values are N 1.4%, P2O5 0.53% and K2O 0.80%.

Available nutrient estimates in the supplied report

Estimated nutrient	lb per US ton, as received
Plant-available nitrogen (PAN), first season	6.0
Ammonium-N component	0.44
Nitrate-N component	0.01
Available phosphorus, as P2O5	6.8
Available potassium, as K2O	15.9

Planning example: approximately 2.9 lb PAN per cubic yard.

Calculated from 6.0 lb PAN/US ton × 972 lb/yd³ ÷ 2,000 lb/US ton. This combines source estimates and sample density; actual delivery weight and nutrient release will vary.

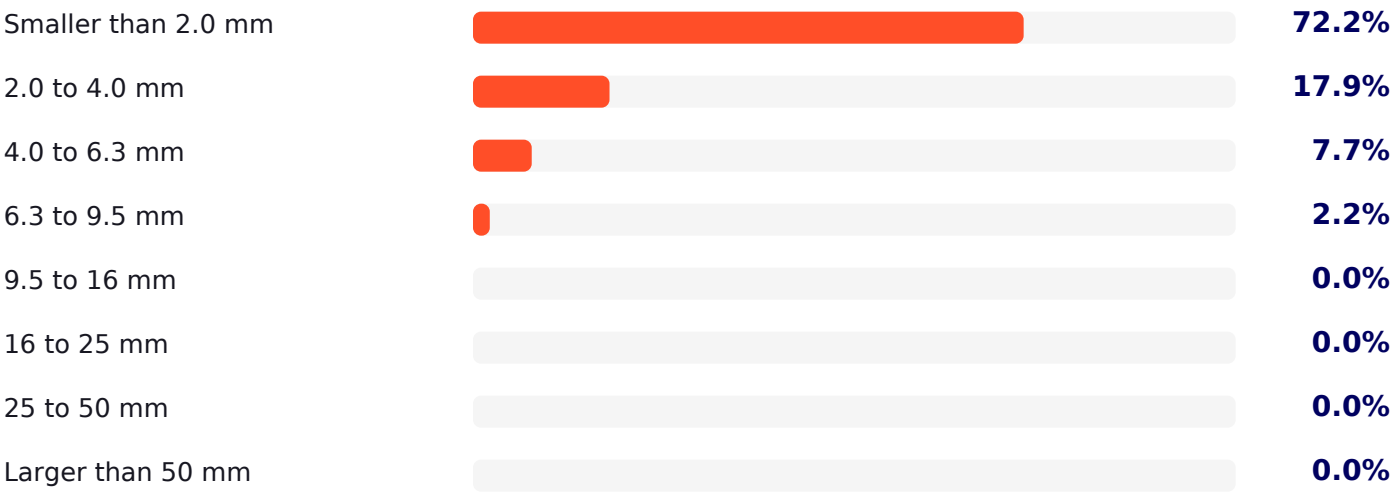
Use a soil test to set application and fertilizer rates. The lab estimated PAN from respiration and nitrogen forms; release also depends on soil, moisture and temperature.

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Texture, density and visible debris

Measured size fractions are shown by weight. This is the tested sample distribution.

Particle-size distribution



Calculated from the size fractions: 97.8% is smaller than 6.3 mm (about 1/4 inch); 100% is smaller than 9.5 mm in this sample. Confirm screening requirements for precision turf or container uses.

Physical contaminants

Reported category	% by dry weight
Total plastic	< 0.1
Film plastic	< 0.1
Glass	< 0.1
Metal	< 0.1
Sharps	ND
Total	< 0.5

34.1%
Moisture, as received

36 lb/ft³
Bulk density, as received

About 972 lb/yd³
36 × 27 cubic feet per yard

Source scope: contaminants larger than 4 mm; sharps larger than 2 mm. Film plastic is included within total plastic; categories are not all additive. ND = not detected. Trace debris can still occur.

06 / PRODUCT SPECIFICATION

Pathogens and trace elements

Reporting limits and source reference values are preserved; a less-than sign is not zero.

< 7.5

Fecal coliform

MPN/g; source rating: pass

< 3

Salmonella

MPN/4 g; source rating: pass

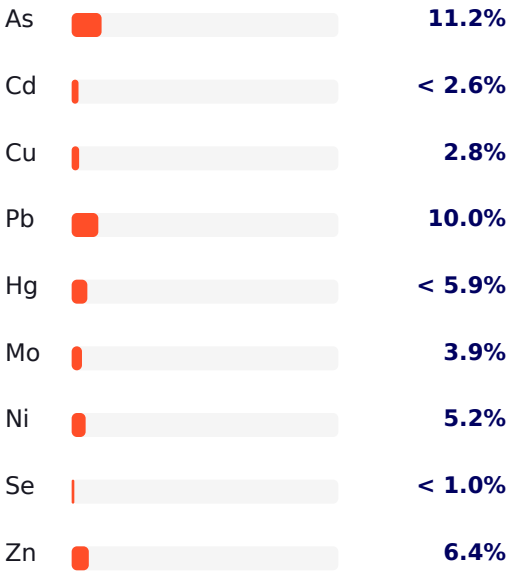
Pathogen panel date: September 4, 2025. The interpretation page also summarizes fecal coliform as < 1,000; the detailed result above is the more specific reported value.

Metals and other measured elements

Element	Result	Source ref.*
Aluminum (Al)	11,000	-
Arsenic (As)	4.6	41
Cadmium (Cd)	< 1.0	39
Chromium (Cr)	36	-
Cobalt (Co)	4.9	-
Copper (Cu)	42	1,500
Iron (Fe)	12,000	-
Lead (Pb)	30	300
Manganese (Mn)	370	-
Mercury (Hg)	< 1.0	17
Molybdenum (Mo)	2.9	75
Nickel (Ni)	22	420
Selenium (Se)	< 1.0	100
Zinc (Zn)	180	2,800

Share of source reference

Each full track = 100%



For results reported as < 1.0, the orange bar uses 1.0 as an upper bound. The actual measured share is lower.

Units: all element results and references are mg/kg, dry weight. ***Source ref.:** values labeled EPA Limit in the supplied report; a dash means no reference was provided. All results with a reference are below it. This comparison does not establish compliance with every project requirement.

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How to use and how much to order

Planning guidance: choose the final rate using current compost data, soil conditions and plant needs.

Application	Practical starting approach
New garden beds	Start with a 1-inch layer mixed into the upper 6-8 inches of soil. Consider up to 2 inches only when soil testing and the project support it.
Existing planting beds	A light 1/2-inch surface layer is a starting option. Keep it away from plant crowns; protect existing roots from cultivation.
Established lawn	Consider a thin 1/4-inch topdressing after checking plant and soil suitability. Work it into the canopy; avoid smothering grass.
Raised beds / planting blends	Blend with a suitable soil component. Test final pH and EC; use a small plant trial before treating a large area.
Trees and large shrubs	Generally backfill with native soil. Where appropriate, use compost on the surface rather than filling the planting hole with an enriched pocket.
Sensitive uses	Seed starting, acid-loving plants, containers and California native plantings need use-specific review. Avoid planting directly into 100% compost.

Theoretical coverage and volume

Layer depth	Coverage per 1 yd^3	yd^3 per 1,000 ft^2
1/4 inch	1,296 ft^2	0.77
1/2 inch	648 ft^2	1.54
1 inch	324 ft^2	3.09
2 inches	162 ft^2	6.17
3 inches	108 ft^2	9.26

Cubic yards = area (ft^2) × depth (inches) ÷ 324

Example: 500 ft^2 × 1 inch ÷ 324 = 1.54 yd^3 before placement allowances.

Coverage is geometry, not an application-rate recommendation. Allow for uneven ground, settling and available order increments. 1 yd^3 = 27 ft^3.

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Lab terms, in plain language

A quick reference for homeowners, landscape crews and anyone new to reading compost reports.

Dry weight / as received

Dry weight excludes water; as received includes measured moisture. Compare samples on the same basis.

Organic matter / organic carbon

Organic matter is decomposable material; organic carbon is its carbon portion. They are not the same percentage.

Ash

The mineral residue left after the organic fraction is burned during the test; not a statement that ash was added.

Total N / PAN

Total nitrogen includes several forms. PAN estimates nitrogen available to plants during a stated period.

Ammonium-N / nitrate-N

Two mineral forms of nitrogen. Their levels and ratio help interpret compost maturity.

C:N ratio

Carbon compared with nitrogen. Helpful for nutrient planning, but it cannot prove maturity by itself.

Respiration / stability

CO2 release reflects decomposition. Lower respiration generally means greater stability. OM is organic matter; TS is total solids.

Maturity / bioassay

Maturity concerns suitability for plants. A bioassay grows test plants to observe emergence and vigor.

pH

A measure of acidity or alkalinity. 7 is neutral; values above 7 are alkaline. The final soil blend may differ.

EC / EC5

Electrical conductivity indicates dissolved ions. EC5 is the source label; comparisons must use matching methods.

mmhos/cm, mS/cm and dS/m

Equivalent EC units. A value of 4.2 in one of these units equals 4.2 in either of the others.

P2O5 / K2O

Conventional nutrient-reporting forms for phosphorus and potassium. Do not add them to elemental P or K.

mg/kg / ppm

Milligrams per kilogram equals parts per million on the same weight basis. 1% = 10,000 mg/kg.

MPN

Most probable number: a statistical estimate used in microorganism tests. Always keep its g or 4 g basis.

< / ND / NA

< means less than the stated value. ND means not detected at the method limit. NA means no value is supplied.

Bulk density / volume units

Weight per loose volume. 1 yd^3 = 27 ft^3; multiply lb/ft^3 by 27 for lb/yd^3. A US ton is 2,000 lb.

Particle-size fraction

The share by weight falling within a measured size band. A sample distribution is not a permanent screen guarantee.

AgIndex

The lab nutrient-to-sodium-plus-chloride index. Read with EC and soil testing; it is not a fertilizer guarantee.

Carbonates, as CaCO3

Calcium-carbonate-equivalent content reported by the lab. It is not a recommendation to add agricultural lime.

TMECC / v:v

TMECC is Test Methods for the Examination of Composting and Compost. v:v means a ratio by volume.

09 / PRODUCT SPECIFICATION

Documentation and project review

Document edition 1.0. Prepared for the TerraBay Materials product page and project review.

Document item	What is available
Laboratory source	Supplied data table, graphic summary and interpretation pages. Source states sample handling followed TMECC procedures.
Visible date	September 4, 2025 is printed in the pathogen section. A complete report date and collection date are not shown.
Traceability	A report number, sample ID and delivered batch identifier were not visible in the supplied material.

OMRI status and project approvals

The product is marketed as OMRI Listed. The supplied analysis is not an OMRI certificate. For certified organic production, request the current certificate for the exact material being supplied, review any use restrictions and obtain acceptance from your organic certifier. Current CDFA or STA documentation was not included in the supplied records.

Data and guidance references

1. Supplied laboratory results and interpretations (primary sample data).
2. TerraBay Materials - Organic Compost product page.
3. OMRI - Using OMRI Listed Products.
4. Oregon State University - Interpreting compost analyses (EM 9217).
5. US Composting Council - Guidelines for the Use and Application of Compost.
6. US Composting Council - Methods to Use.
7. University of California IPM - Site Preparation.

Bulk delivery: Marin, Contra Costa and Alameda; also Sonoma, San Mateo and Solano counties, subject to address and access confirmation. Order online or request current documentation from TerraBay Materials.

TECHNICAL DATA DISCLAIMER

Data come from supplied producer/laboratory records for one sample and may vary with feedstocks, production, storage and moisture. Results describe the tested sample; any producer gradation assurance applies at the producer facility only. TerraBay Materials has not independently retested the material. This guide is not an OMRI certificate, fertilizer guarantee, project approval or warranty of suitability. The buyer is responsible for current certifications, required testing, application rates, plant compatibility and project approvals. To the extent permitted by law, this informational sheet provides no express or implied warranties.