Comprehensive Assessment of Soil Health

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Sample ID:	AA2715
Field ID:	~~A4~~ No-Till
Date Sampled:	03/22/2024
Given Soil Type:	Howard Gravelly Loam
Crops Grown:	MIX/MIX/MIX
Tillage:	no till
Coordinates:	Latitude: 42.444883000000
	Longitude: -76.536846300000

Measured Soil Textural Class: **loam**

Sand: **31%** - Silt: **45%** - Clay: **23%**

Group	Indicator	Value	Rating	Constraints
physical	Predicted Available Water Capacity	0.24	89	
physical	Surface Hardness	97	78	
physical	Subsurface Hardness	300	50	
physical	Aggregate Stability	9.9	12	Aeration, Infiltration, Rooting, Crusting, Sealing, Erosion, Runoff
biological	Organic Matter Soil Organic Carbon: 2.17 / Total Carbon: 2.19 / Total Nitrogen: 0.22	3.3	65	
biological	Predicted Soil Protein	6.10	45	
biological	Soil Respiration	0.8	74	
biological	Active Carbon	829	96	
chemical	Soil pH	6.5	100	
chemical	Extractable Phosphorus	29.4	100	
chemical	Extractable Potassium	121.5	100	
chemical	Additional Nutrients Ca: 1365.7 / Mg: 142.2 / S: 5.8 Al: 7.6 / B: 0.21 / Cu: 0.19 Fe: 1.5 / Mn: 2.5 / Zn: 0.6		100	

Overall Quality Score: **76** / High