

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

NYC Health & Water Quality MCP

Direct access to New York City public health and water records.

NYC Health & Water Quality MCP provides your AI client with immediate access to New York City's public health and water datasets. You can pull seasonal flu vaccination locations, mortality statistics from 2007 to 2021, and water quality monitoring results for Cryptosporidium and Giardia. It eliminates the need for manual API management or complex queries, letting your agent handle data retrieval for health research and water monitoring tasks.

A+ Quality Score 100/100

new-york

nyc

health

flu

causes-of-death

water-quality



The connectivity layer between AI and the world's software.

Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest
managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.

— Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256

Encryption at rest

Ed25519

PKI vault signatures

24h TTL

Ephemeral session keys

V8 Isolate

Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT`https://edge.vinkius.com/{token}/mcp`

Claude



Cursor



VS Code



Windsurf



Grok



Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1)
Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

Get started at cloud.vinkius.com — connect your AI agent in under 60 seconds.

NYC Health & Water Quality MCP

6 tools available

Cloud-hosted on Vinkius

You can query New York City's public health and water records without managing API keys or complex authentication. This MCP connects your AI client to official NYC Open Data, allowing you to pull specific datasets for research, planning, or monitoring.

If you are analyzing public health trends, you can pull mortality data broken down by year, sex, and race. For those focused on environmental safety, the MCP provides water quality samples including chlorine levels, turbidity, and coliform counts. You can also track annual water consumption trends or locate DOHMH community health centers. Because water quality datasets are large, the tools default to a 365-day window to keep your queries fast and relevant. This makes it a reliable way to feed real-world NYC health and environmental data into your agent's context for analysis or reporting.

Core Capabilities

01 — Public Health Research

Your agent uses mortality and vaccination data to identify community health trends.

03 — Resource Locating

Your agent finds specific health centers or vaccination sites based on user needs.

02 — Water Quality Monitoring

The AI client pulls real-time water samples and pathogen monitoring results.

04 — Consumption Analysis

The AI client tracks annual water usage trends and per-capita metrics.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/nyc-health-water-quality — connect your AI agent in three steps.

- 01 Connect your MCP-compatible client to Vinkius.
- 02 Select the NYC Health & Water Quality MCP from the catalog.
- 03 Ask your agent a specific question about NYC health or water data.
- 04 The agent invokes the appropriate tool to fetch the data.
- 05 The data is returned directly to your chat interface for analysis.

Connecting to this MCP gives your AI client immediate access to NYC's public datasets.

Built For

This MCP is built for professionals working with municipal health and environmental data.

Public Health Researchers

They use the agent to pull mortality statistics and vaccination site data for studies.

Environmental Analysts

They rely on the agent to monitor water quality and pathogen levels in the city supply.

Health Service Planners

They use the tool to locate community health centers and vaccination availability.

What Changes When You Connect

- 01 Eliminates the need for manual API key management.
- 02 Provides direct access to official NYC Open Data.

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- 03** Uses a 365-day window for water quality to ensure fast responses.
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- 04** Supports filtering by borough, race, sex, and more.
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Real-World Applications

Epidemiological Studies

An analyst uses the mortality data to study death rate trends across different demographics from 2007 to 2021.

Water Safety Audits

A researcher checks recent *Cryptosporidium* and *Giardia* monitoring results to verify water safety.

Community Resource Mapping

A planner identifies all DOHMH health centers in a specific borough that offer certain languages.

Infrastructure Planning

An engineer analyzes annual water consumption trends to project future city needs.

Patterns to Avoid

Requesting decades of water data

❌ AVOID

Asking your agent to pull every single water quality sample from the last ten years at once.

✓ INSTEAD

Stick to the default 365-day window used by ``search_cryptosporidium_giardia`` to keep queries fast and manageable.

Vague demographic queries

❌ AVOID

Asking for general mortality trends without specifying any demographic filters.

✓ INSTEAD

Use ``search_leading_causes_of_death`` with specific filters for year, sex, or race to get precise results.

Unfiltered location searches

❌ AVOID

Asking for all health centers in the city without checking for specific needs.

✓ INSTEAD

Use `'list_health_centers'` to filter by languages spoken or walk-in availability to find the right site.

The Right Fit

Connect this MCP if you need to pull verified NYC municipal data for research or urban planning. Do not connect it if you are looking for real-time national health trends or non-NYC datasets. The decision depends entirely on whether your work centers on New York City's specific public health and water infrastructure.

NYC Health and Water Quality 6 Tools

These tools provide direct access to official NYC Open Data for mortality, vaccination, and water safety records.

#	TOOL	DESCRIPTION
01	get_water_consumption_trends	This tool provides NYC annual water consumption trends. It returns a table showing city population, total daily consumption, and per-capita usage.
02	list_flu_vaccination_sites	This tool lists seasonal NYC flu vaccination locations. You can filter the results by borough, walk-in availability, insurance types, or if they serve children.
03	list_health_centers	This tool finds NYC DOHMH community health centers. It provides details on hours, languages spoken, and whether they accept walk-ins.
04	search_cryptosporidium_giardia	This tool searches DEP water-quality monitoring results for Cryptosporidium and Giardia. It uses a 365-day window by default to manage the large dataset.
05	search_drinking_water_quality	This tool retrieves NYC drinking water distribution samples. You can narrow your search by specific sample sites or water class.
06	search_leading_causes_of_death	This tool accesses historical NYC mortality data from 2007 to 2021. You can filter by year, sex, race, or specific causes of death.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

U Find flu vaccination sites in Manhattan that accept walk-ins.



The `list_flu_vaccination_sites` tool returns seasonal locations in Manhattan that allow walk-ins.

U What were the leading causes of death in NYC in 2021?



Using `search_leading_causes_of_death` for the year 2021 provides the death rates and age-adjusted rates broken down by sex and race/ethnicity.

U Show the per-capita water consumption trend in New York City.



The `get_water_consumption_trends` tool provides a yearly breakdown of population and per-capita water usage in NYC.

Frequently Asked Questions

01 Do I need an API key to use this NYC data?

No. This MCP provides keyless access to the NYC Open Data used by these tools.

02 How recent is the mortality data?

The leading causes of death dataset covers the years 2007 through 2021.

03 How do I find flu shots in a specific borough?

You can ask your agent to list flu vaccination sites and specify the borough, such as Manhattan or Brooklyn.

04 Is there a limit on how much water quality data I can pull?

To keep queries efficient, water quality searches default to a 365-day window.

05 Which AI clients can use this MCP?

You can use this with any MCP-compatible client like Claude, Cursor, Windsurf, or VS Code.

06 Do I need an API key?

No. NYC Open Data serves all public datasets anonymously over its SODA API (data.cityofnewyork.us). This MCP defines no credentials and needs nothing configured.

07 How current is the water quality data?

Distribution monitoring samples have run since 2015, so the search tools apply a 365-day sample-date window by default; pass after (and optionally an earlier before boundary) to widen or shift it. The annual water-consumption table is small — a few dozen rows, one per year.

08 What years do the causes-of-death statistics cover?

Years 2007–2021, broken down by sex and race/ethnicity. `search_leading_causes_of_death` filters by year, cause (partial match), sex or race/ethnicity and returns deaths, death rate and the age-adjusted death rate.

Go Live in 60 Seconds

Get your connection token from cloud.vinkius.com, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

`https://edge.vinkius.com/[TOKEN]/mcp`

CLIENT	WHERE TO CONFIGURE
 Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
 Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
 VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"nyc-health-water-quality": { "url": "..." }</code>
 Windsurf	MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL
 ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
 Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

-  Ask ChatGPT 
-  Ask Claude 
-  Ask Perplexity 
-  Ask Gemini 
-  Ask Grok 

READY TO CONNECT

NYC Health & Water Quality is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and
start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

vinkius.com · support@vinkius.com

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