



Median Escherichia coli concentration

Metadata

File Identifier

caf78523-2cf5-0e13-5bd9-4466226aaa5f

Language

eng

Character Set

Character Set Code

utf8

Hierarchy Level

Scope Code

dataset

Hierarchy Level Name

dataset

Contact

Responsible Party

Organisation Name

Environmental Reporting, Ministry for the Environment and Statistics New Zealand

Position Name

Analyst

Contact Info

Contact

Address

Address

Delivery Point

23 Kate Sheppard Place, PO Box 10362

City

Wellington 6143

Country

New Zealand

Electronic Mail Address

Environmental.Reporting@mfe.govt.nz

Role

Role Code
distributor

Date Stamp

Date
2016-01-21

Metadata Standard Name

ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005,
Geographic information - Metadata

Metadata Standard Version

1.1

Reference System Info

Reference System
Reference System Identifier
Identifier
Code
2193

Identification Info

Data Identification

Citation
Citation
Title
Median Escherichia coli concentration
Date

Abstract

"E.coli is a type of bacteria commonly found in the intestines of warm-blooded animals (including people). When found in freshwater, it can indicate the presence of pathogens associated with faecal contamination, from sources such as waste from humans and farmed animals such as sheep and cows. E.coli concentrations can vary due to differences in land use, climate, elevation, and geology. High E. coli concentrations may cause illness in humans and animals if ingested. This is an important consideration for human health, particularly where people use the river for swimming or boating. This dataset relates to the ""River water quality: bacteria (Escherichia coli)"" measure on the Environmental Indicators, Te taiao Aotearoa website. "

Status

Progress Code
completed

Point Of Contact

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Organisation Name
Environmental Reporting, Ministry for the Environment and Statistics New

Zealand

Position Name

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Resource Maintenance

Maintenance Information

Maintenance And Update Frequency

Maintenance Frequency Code

irregular

Resource Format

Format

Name

*.xml

Version

Unknown

Descriptive Keywords

Keywords

Keyword

New Zealand

Type

Keyword Type Code

theme

Thesaurus Name

Citation

Title

ANZLIC Jurisdictions

Date

Edition

Version 2.1

Edition Date

Date

2008-10-29

Identifier

Identifier

Code

<http://asdd.ga.gov.au/asdd/profileinfo/anzlic-jurisdic.xml#anzlic-jurisdic>

Cited Responsible Party

Responsible Party

Organisation Name

ANZLIC the Spatial Information Council

Role

Role Code

custodian

Descriptive Keywords

Keywords

Keyword

WATER

Keyword

WATER-Quality

Keyword

HEALTH

Type

Keyword Type Code

theme

Thesaurus Name

Citation

Title

ANZLIC Search Words

Date

Edition

Version 2.1

Edition Date

Date

2008-05-16

Identifier

Identifier

Code

<http://asdd.ga.gov.au/asdd/profileinfo/anzlic-theme.xml#anzlic-theme>

Cited Responsible Party

Responsible Party

Organisation Name

ANZLIC the Spatial Information Council

Role

Role Code

custodian

Resource Constraints

Legal Constraints

Use Limitation

Creative Commons Attribution 3.0 New Zealand by Ministry for the Environment

Access Constraints

Restriction Code

license

Resource Constraints

Legal Constraints

Use Limitation

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Restriction Code

license

Language

eng

Character Set

Character Set Code

utf8

Topic Category Code

environment

Extent

EX _ Extent

Geographic Element

EX _ Geographic Description

Identifier

Authority

Citation

Title

ANZMet Lite Country codelist

Date

Edition

Version 1.0

Edition Date

Date

2009-03-31

Identifier

Identifier

Code

<http://asdd.ga.gov.au/asdd/profileinfo/anzlic-country.xml#Country>

Cited Responsible Party

Responsible Party

Organisation Name

ANZLIC the Spatial Information Council

Role

Role Code

custodian

Code

nzl

Extent

EX _ Extent

Geographic Element

EX _ Geographic Bounding Box

167.534694771177.881584208-46.6296622637-35.0386283946

Distribution Info

Distribution

Transfer Options

Digital Transfer Options

On Line

Online Resource

Linkage

URL

<https://data.mfe.govt.nz/layer/52698-median-escherichia-coli-concentration/>

Data Quality Info

DQ _ Data Quality

Scope

DQ _ Scope

Level

Scope Code

dataset

Level Description

Scope Description

Other

dataset

Lineage

LI _ Lineage

Statement

Source: National Institute of Water and Atmospheric Research Method: "Escherichia coli concentration is measured by collecting water samples which are then sent to laboratories to be analysed. The concentration is expressed as the number of E.coli per 100 mL. Estimates of median E.coli concentrations across New Zealand is based on monthly concentrations from 409 river sites monitored by the 16 regional councils and 77 sites along 35 major rivers measured monthly by the National Institute of Water and Atmospheric Research (NIWA) since 2001. In the National Policy Statement for Freshwater Management (NPS-FM), the annual median concentration is used to specify the possible infection risk from activities that involve occasional immersion and some ingestion of water, such as wading or boating. The median represents the middle value when observations are ordered in size. When the annual median sampling statistic is 260 E.coli/100ml or lower, people who undertake an occasional immersion activity are exposed to a very low risk of infection (less than 0.1% risk) (Ministry for the Environment, 2014). Infection risk for people undertaking activities involving full immersion in river water is often determined using the 95th percentile. This is the level that for 95 percent of sample observations, the E.coli concentration is at this level or below. When the 95th percentile sampling statistic is greater than 540 E.coli/100 ml, people who undertake a full immersion activity are exposed to a high risk of infection (greater than five percent risk). When the 95th percentile sampling statistic is 260 E.coli/100 ml or lower people are exposed to a low risk of infection (less than one percent risk) (Ministry for the Environment, 2014). The accuracy of the data source is of medium quality. Reference: Ministry for the Environment (2014). National Policy Statement for Freshwater Management. Available from

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