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Chemistry 1 Water
Engineering
Unit Notes Ebicos
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Chemistry
1 Water
Unit Notes
Ebicos

Water and its Treatment

Unit-1 Water
Page 1/62

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Engineering
Chemistry 1 Water
Technology

(Hardness, Types & Estimation by EDTA Method) - Chemistry

~~Water and its Treatment~~

~~Engineering chemistry~~

~~classpm~~ Sources of

**WATER - Engineering
Chemistry** Engineering
chemistry

1-year, Hardness of

water(part-1),

[type, units, cause, degree
of hardness].

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~~Engineering Chemistry
Syllabus | Book |~~

~~Practical || Stephen
SIMON Normal~~

~~Hardness Numerical |~~

~~Engineering Chemistry~~

~~1 Lectures in Hindi~~

~~Determination of~~

~~Hardness of water by~~

~~EDTA Method~~

Unit-1 Water

Technology (Boiler

Feed Water) -

Chemistry What is

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Engineering

Chemistry 1 Water

reverse osmosis
process?/RO water

treatment (Desalination)

~~Hardness of Water~~

~~Unit 1 Water~~

~~Technology~~

~~(Disadvantages of Using
Hard Water in Boilers)~~

~~Chemistry Boiler~~

~~mountings and boiler
accessories in telugu.~~

~~Vamsi Bhavani~~

~~Tutorials. Corrosion |~~

~~Unit-3 | Engineering~~

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Chemistry | BTech

Tutorials | KlassPM

~~Engineering Chemistry~~

~~M1 L1 Phase Rule~~

~~One Component System~~

Ion Exchange Process 1

- Water - Applied

Chemistry I

Introduction to Water -

Water - Applied

Chemistry I WATER

SYSTEM - PHASE

RULE || ONE

COMPONENT

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Chemistry 1 Water
Unit Notes Ethics

~~SYSTEM Explanation
of Boiler Feed Water~~

~~\u0026 Its Treatment |~~

~~Engineering Chemistry~~

Hardness of Water and

It's Types in Tamil |

Engineering Chemistry |

Semester 1 | Episode 1

Hardness of Water -

Water - Applied

Chemistry I Hardness

of water in Telugu

Engineering Chemistry.

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**CHEMISTRY
IMPORTANT
QUESTIONS PART -
1 || CIVIL
ENGINEERING 1st
YEAR ||**

Engineering Chemistry
1 Water Unit

ResearchGate

Engineering Chemistry
1 Water Unit Notes 1.

Engineering Chemistry
1 Water Unit Notes 1.

Standard hard water: 1

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gm of dry CaCO_3 is dissolved in minimum quantity of HCl and evaporate the solution to dryness on a water bath, and then diluted to 1 lit with water. Each ml of this solution then contains 1 mg of CaCO_3 hardness. 2.

Engineering Chemistry

1 Water Unit Notes

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Chemistry 1 Water

Unit Notes, Epicos

Calgon = sodium hexa meta phosphate The process involves the addition of calgon to boiler water.

Engineering Chemistry
UNIT-1-WATER

CHEMISTRY. Dept Of
Chemistry, ANITS Page

3. It prevents scale and sludge formation by forming highly soluble calcium hexa meta phosphate complex

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compound with CaSO_4 .
Unit Notes Ebicos

Engineering Chemistry

UNIT-1-WATER

CHEMISTRY

Engineering Chemistry

1 Water Unit CY8151 –

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SYLLABUS

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UNIT I WATER AND

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Engineering

Chemistry 1 Water

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ITS TREATMENT

(CY8151) Hardness of

water – types –

expression of hardness –

units – estimation of

hardness of water by

EDTA. Numerical

problems – boiler

troubles (scale and

sludge). Page 2/9

Engineering Chemistry

1 Water Unit Notes

Page 11/62

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Engineering Chemistry

1 Water Unit Notes

Ebicos 2.4 UNITS OF

HARDNESS 1. Parts

per million (ppm) is the

parts of calcium

carbonate equivalent

hardness per 106 parts

of water i.e., 1 ppm = 1

part of CaCO_3 6eq.

hardness in 10 parts of

water. 2. UNIT I Water

Technology 1. Standard

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Chemistry 1 Water

Unit Notes Ebicos

hard water: 1 gm of dry
 CaCO_3 is dissolved in
minimum quantity

Engineering Chemistry

1 Water Unit Notes

Ebicos

Calculations: 50 ml of
standard hard water = V

1 ml of EDTA \therefore 50 x 1

mg of CaCO_3 = V 1 ml

of EDTA \therefore 1 ml of

EDTA = $50/V$ 1 mg of

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Engineering

Chemistry 1 Water

Unit Notes Ethics

CaCO₃ eq. Now 50 ml.
of given hard water = V

2 ml EDTA = V 2 x

50/V 1 mg of CaCO₃

eq. ∴ 1 L (1,000 mL) of
given hard water = 1000

V 2 /V 1 mg of CaCO₃

eq. ∴ Total hardness of

water = 1000 V 2 /V 1

mg/L = 1000 V 2 /V 1

ppm Now 50 ml of

boiled water = V 3

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UNIT I Water
Technology -

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Gyroscopes, VERY
NON-INTUITIVE -

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you ? Physics.

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Unit-1 Water

Technology (External
Conditioning) -
Chemistry

1. Standard hard water:
1 gm of dry CaCO_3 is
dissolved in minimum
quantity of HCl and
evaporate the solution to
dryness on a water bath,
and then diluted to 1 lit
with water. Each ml of
this solution then
contains 1 mg of

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Chemistry 1 Water

CaCO₃ hardness. 2.

EDTA solution: 4 gm of
EDTA crystals + 0.1 gm
MgCl₂ in 1lit 3.

Indicator: 0.5 gm of
EBT in 100 ml of
alcohol. 4.

BCH101

ENGINEERING

CHEMISTRY- I

Units of Hardness Most

Commonly used • Parts

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Chemistry 1 Water
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per million

(ppm) 1 ppm = 1 part of

CaCO₃ equivalence

hardness causing

substance present in 10

6 parts of water •

Milligrams per liter

(mg/litre) 1 mg/L = 1 mg

of CaCO₃ equivalence

hardness causing

substance present in

one liter of water 1 mg/L =

1 ppm Relationship; 1 L

water = 1 Kg = 1000 g =

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Engineering

Chemistry 1 Water

Unit Notes E bios

$1000 \times 1000 \text{ mg} = 10^6$

$\text{mg } 1 \text{ mg/L} = 1 \text{ mg of}$

$\text{CaCO}_3 \text{ eq per } 10^6 \text{ mg}$

$\text{of water} = 1 \text{ part of}$

$\text{CaCO}_3 \text{ eq per } 10^6 \text{ parts}$

$\text{of water} = 1 \text{ ppm} \bullet$

Clares Degree (oCl) 10

Clarke = 1 part of CaCO_3

...

Unit 1

water_technology -

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Engineering

Chemistry 1 Water

Unit Notes Pdf

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Notes Unit 1 Link –

Unit 1 Unit 2 Link –

Unit 2 Unit 3 Link –

Unit 3 Unit 4 Link –

Unit 4 Unit 5 Link –

Unit 5 Engineering

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BATTERIES. Concept

of Electro Chemistry

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1 Water Unit Notes

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Water Technology
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Engineering Chemistry
Page 4 24 UNITS OF
HARDNESS 1 Parts per
million (ppm) is the
parts of calcium
carbonate equivalent
hardness per 106 parts
of water ie ...

$\frac{1}{2}$ [DOC]

Engineering Chemistry
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ENGINEERING
CHEMISTRY –I.
QUESTION BANK
(COMMON TO FIRST
YR – ALL
BRANCHES)UNIT – 1
WATER
TECHNOLOGY. PART
- A. 1.Differentiate hard
water and soft water.
2.Define hardness.

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3. What are the types of hardness?

Engineering Chemistry
1–Question Bank–1st
Edition ...

WATER

TECHNOLOGY 1

Course: B.Tech Subject:

Engineering Chemistry

Unit:2. 2. Sources of

Water A) Surface

Waters Rain Water -

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Engineering

Chemistry 1 Water

Unit Notes Ethics

Pure but contaminated
with gases River Water

- High dissolved salts
moderate organics Lake
Water - Const.

composition but high
organics Sea Water -

High salinity,
pathogens, organics B)

Underground Waters

Spring/Well Water -

Crystal clear but high
dissolved salts and high
purity from organics 2.

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B.tech. ii engineering
chemistry unit 2 water
technology

Engineering Chemistry
1-CHARACTERISTIC
S and HARDNESS of
Water WATER

TREATMENT. ... the
following are the
important characteristics
of potable water. 1. It
should be clear,

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Chemistry 1 Water
Unit Notes Ebios
colourless and
odourless. 2. It should
be cool and pleasant to
taste. 3. It should be free
from harmful bacteria
and suspended
impurities. ... (Unit 1)
Solved Ques ...

Engineering Chemistry
1-CHARACTERISTIC
S and HARDNESS of
Water

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Unit Notes Ethics
Steps Involved in
Treatment of Potable
Water - Unit-2 |
Engineering Chemistry -
Unit- 2| BTech by
KlassPM Engineering.
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CHEMISTRY I UNIT -
2 - YouTube
Begin this unit by

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conducting the
environmental
engineering sub-unit:

Introduction to
Environmental
Engineering lesson,
which begins with a
PowerPoint
presentation, and move
to its associated activity,
Thinking Green!, as a
prelude to the next sub-
unit. Next, conduct the
water chemistry sub-

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Chemistry 1 Water

unit: Introduction to
Water Chemistry lesson,
followed by its
associated activities,
Chromatography Lab,
Red Cabbage Chemistry
and Water Remediation
Lab, which can be
taught in any order.

Environmental
Engineering and Water
Chemistry - Unit ...

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CY8151 –

ENGINEERING

CHEMISTRY –

SYLLABUS

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UNIT I WATER AND

ITS TREATMENT

(CY8151) Hardness of

water – types –

expression of hardness –

units – estimation of

hardness of water by

EDTA. Numerical

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Unit Notes Ethics
problems – boiler
troubles (scale and
sludge).

Water and its Treatment
*Unit-1 Water
Technology
(Hardness, Types &
Estimation by EDTA
Method) - Chemistry*

~~Water and its Treatment~~
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Unit Notes Ethics

~~|Engineering chemistry~~

~~|klasspm Sources of~~

WATER - Engineering

Chemistry Engineering

chemistry

1-year,Hardness of

water(part-1),

[type,units,cause,degree

of hardness].

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~~Syllabus | Book |~~

~~Practical || Stephen~~

~~SIMON Normal~~

~~Hardness Numerical |~~

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~~Engineering Chemistry
1 Lectures in Hindi~~

~~Determination of
Hardness of water by
EDTA Method~~

Unit-1 Water

Technology (Boiler
Feed Water) -

Chemistry What is
reverse osmosis

process?/RO water
treatment (Desalination)

~~Hardness of Water~~

~~Unit-1 Water~~

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Technology

~~(Disadvantages of Using
Hard Water in Boilers)~~

Chemistry Boiler

mountings and boiler
accessories in telugu.

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~~M1 L1 Phase Rule~~

~~One Component System~~

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Chemistry 1 Water

Ion Exchange Process 1

- Water - Applied

Chemistry I

Introduction to Water -

Water - Applied

Chemistry I WATER

SYSTEM - PHASE

RULE || ONE

COMPONENT

SYSTEM Explanation

of Boiler Feed Water

u0026 Its Treatment |

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Hardness of Water and

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Engineering Chemistry |

Semester 1 | Episode 1

Hardness of Water -

Water - Applied

Chemistry I Hardness

of water in Telugu

Engineering Chemistry.

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IMPORTANT

QUESTIONS PART -

1 || CIVIL

ENGINEERING 1st

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YEAR ||

Engineering Chemistry

1 Water Unit

ResearchGate

Engineering Chemistry

1 Water Unit Notes 1.

Engineering Chemistry

1 Water Unit Notes 1.

Standard hard water: 1

gm of dry CaCO_3 is

dissolved in minimum

quantity of HCl and

evaporate the solution to

dryness on a water bath,

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Engineering
Chemistry 1 Water
Unit Notes Ethics

and then diluted to 1 lit with water. Each ml of this solution then contains 1 mg of CaCO_3 hardness. 2.

Engineering Chemistry
1 Water Unit Notes
Calgon = sodium hexa meta phosphate The process involves the addition of calgon to boiler water.

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Chemistry 1 Water

Unit Notes Ebicos

Engineering Chemistry
UNIT-1-WATER

CHEMISTRY. Dept Of
Chemistry, ANITS Page

3. It prevents scale and
sludge formation by
forming highly soluble
calcium hexa meta
phosphate complex
compound with CaSO_4 .

Engineering Chemistry

UNIT-1-WATER

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Unit Notes Ethics

CHEMISTRY

Engineering Chemistry

1 Water Unit CY8151 –

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UNIT I WATER AND

ITS TREATMENT

(CY8151) Hardness of

water – types –

expression of hardness –

units – estimation of

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hardness of water by
EDTA. Numerical
problems – boiler
troubles (scale and
sludge). Page 2/9

Engineering Chemistry
1 Water Unit Notes
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1 Water Unit Notes
Ebicos2.4 UNITS OF
HARDNESS 1. Parts
Page 42/62

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Chemistry 1 Water

Unit Notes Ebicos

per million (ppm) is the parts of calcium

carbonate equivalent

hardness per 106 parts

of water i.e., 1 ppm = 1

part of CaCO_3 6eq.

hardness in 10 parts of

water. 2. UNIT I Water

Technology 1. Standard

hard water: 1 gm of dry

CaCO_3 is dissolved in

minimum quantity

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Chemistry 1 Water

Unit Notes Ebicos

Ebicos

Calculations: 50 ml of
standard hard water = V

1 ml of EDTA $\therefore 50 \times 1$
mg of $\text{CaCO}_3 = V$ 1 ml
of EDTA $\therefore 1$ ml of

EDTA = $50/V$ 1 mg of
 CaCO_3 eq. Now 50 ml.

of given hard water = V
2 ml EDTA = $V \times$

$50/V$ 1 mg of CaCO_3

eq. $\therefore 1$ L (1,000 mL) of

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Engineering

Chemistry 1 Water

Unit Notes Ethics
given hard water = 1000
 V_2 / V_1 mg of CaCO_3

eq. \therefore Total hardness of

water = 1000 V_2 / V_1

mg/L = 1000 V_2 / V_1

ppm Now 50 ml of

boiled water = V_3

UNIT I Water

Technology -

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Rolling Motion,

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Unit Notes Ethics

Gyroscopes, VERY
NON-INTUITIVE -

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Unit-1 Water

Technology (External
Conditioning) -

Chemistry

1. Standard hard water:

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Chemistry 1 Water
Unit Notes Ethics

1 gm of dry CaCO_3 is dissolved in minimum quantity of HCl and evaporate the solution to dryness on a water bath, and then diluted to 1 lit with water. Each ml of this solution then contains 1 mg of CaCO_3 hardness. 2.

EDTA solution: 4 gm of EDTA crystals + 0.1 gm MgCl_2 in 1lit 3.

Indicator: 0.5 gm of

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Unit Notes Ebicos

EBT in 100 ml of
alcohol. 4.

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CHEMISTRY- I

Units of Hardness Most
Commonly used • Parts
per million

(ppm) 1 ppm = 1 part of
CaCO₃ equivalence

hardness causing
substance present in 10

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Chemistry 1 Water
Unit Notes Ebcos

6parts of water•

Milligrams per liter

(mg/litre) $1\text{mg/L} = 1\text{mg}$

of CaCO_3 equivalence

hardness causing

substance present in

oneliter of water $1\text{mg/L} =$

1ppmRelationship; 1L

water = 1Kg = 1000 g =

$1000 \times 1000 \text{ mg} = 10^6$

mg $1\text{mg/L} = 1\text{mg}$ of

CaCO_3 eq per 10⁶ mg

of water = 1 part of

CaCO_3 eq per 10⁶ parts

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Engineering

Chemistry 1 Water

of water = 1ppm•

Clares Degree(oCl)1o

Clarke= 1part of CaCO₃

...

Unit 1

water_technology -

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Notes Unit 1 Link –

Unit 1 Unit 2 Link –

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Unit 4 Unit 5 Link –

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Page 4 24 UNITS OF

HARDNESS 1 Parts per

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million (ppm) is the
parts of calcium
carbonate equivalent
hardness per 106 parts
of water ie ...

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Chemistry 1 Water

Unit Notes Ethics

QUESTION BANK
(COMMON TO FIRST
YR – ALL
BRANCHES) UNIT – 1
WATER

TECHNOLOGY. PART

- A. 1. Differentiate hard
water and soft water.

2. Define hardness.

3. What are the types of
hardness?

Engineering Chemistry

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Unit Notes Ebicos
1-Question Bank-1st
Edition ...

WATER

TECHNOLOGY 1

Course: B.Tech Subject:

Engineering Chemistry

Unit:2. 2. Sources of

Water A) Surface

Waters Rain Water -

Pure but contaminated

with gases River Water

- High dissolved salts

moderate organics Lake

Water - Const.

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Chemistry 1 Water

Unit Notes Ethics

composition but high
organics Sea Water -

High salinity,

pathogens, organics B)

Underground Waters

Spring/Well Water -

Crystal clear but high

dissolved salts and high

purity from organics 2.

B.tech. ii engineering

chemistry unit 2 water

technology

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Chemistry 1 Water

Unit Notes Files
1-CHARACTERISTIC

S and HARDNESS of
Water WATER

TREATMENT. ... the following are the important characteristics of potable water. 1. It should be clear, colourless and odourless. 2. It should be cool and pleasant to taste. 3. It should be free from harmful bacteria

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and suspended
impurities. ... (Unit 1)
Solved Ques ...

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S and HARDNESS of
Water

Steps Involved in
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Water - Unit-2 |

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2 - YouTube

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conducting the
environmental
engineering sub-unit:
Introduction to
Environmental

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Chemistry 1 Water
Unit Notes Ethics

Engineering lesson,
which begins with a
PowerPoint
presentation, and move
to its associated activity,
Thinking Green!, as a
prelude to the next sub-
unit. Next, conduct the
water chemistry sub-
unit: Introduction to
Water Chemistry lesson,
followed by its
associated activities,
Chromatography Lab,

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Unit Notes Ethics

Red Cabbage Chemistry
and Water Remediation
Lab, which can be
taught in any order.

Environmental
Engineering and Water
Chemistry - Unit ...
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CHEMISTRY –
SYLLABUS
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Chemistry 1 Water

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UNIT I WATER AND
ITS TREATMENT

(CY8151) Hardness of
water – types –
expression of hardness –
units – estimation of
hardness of water by
EDTA. Numerical
problems – boiler
troubles (scale and
sludge).