

Content, Key Terms and Essential Questions

Describe the system of the Aral Sea in terms of inputs, outputs, and steady state.

Describe the system of the Aral Sea in terms of inputs, outputs, and steady state with respect to matter? What about energy? Thermodynamics state? How does this relate to the Earth system?

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Pollutant (Examples)	Source(s)	Water Pollution Review	Problems
BOD: <ul style="list-style-type: none"> - Oxygen requirement of bacterial decomposition of dead organic matter - Includes agricultural EPR, municipal sewage - DO should be at least 5mg/l 	<ul style="list-style-type: none"> - Decomposition of dead organic matter - Includes agriculture (EPR) combined sewer system 		<ul style="list-style-type: none"> - Creates a dead zone - Killing fish and decreases DO
Fecal Coliforms (E. coli)	Waste from mammals and birds, agricultural storm runoff (feedlots) and human sewage		Diseases, the level of harm depends on the type of fecal coliform
Crude Oil: <ul style="list-style-type: none"> - Toxic to many organisms - Oil starts to weather and break down immediately - Includes oil spills from tankers that wash up on shore 	<ul style="list-style-type: none"> - Tankers, offshore drilling, etc. 		<ul style="list-style-type: none"> - Violates evaporates - air pollution and toxic - Coat the feathers of birds so they can't fly - Coat the fur of mammals - Sand "beach" - lots of oil that washes up on shore - Toxic to many organisms - Tankers can continue to pollute the water

Environmental Science

Study Guide

UNIT 1 Topics, Content, Key Terms and Essential Questions

Policy	Regulates the discharge of pollutants into waters
Water Pollution Control Act, 1977	<ul style="list-style-type: none"> - Unlawful to discharge pollutants into surface waters without a permit - Regulates quality standards for surface waters - Shift over time from a water quantity and pollutant-by-pollutant focus to a watershed focus
Safe Drinking Water Act, 1974	Establishes standards for public drinking water
Clean Air Act, 1970	Authorized the development of comprehensive federal and state regulations to limit emissions from both stationary (industrial) sources and mobile sources
Clean Air Act Amendments of 1990	<ul style="list-style-type: none"> - Acid Deposition: limits maximum SO2 emissions from coal fired power plants (cap and trade system for SO2 emissions permits) - Also limits NOx, toxics, (CFCs) and other Chlorine chemicals - More stringent emission controls on cars and requirements for cleaner burning fuels to reduce urban smog
Clean Air Act Standards	<ul style="list-style-type: none"> - Regulates CO, NO2, O3, Pb, PMs and SO2 - Tougher standards for ozone and PM to help children and elderly who are most susceptible to air pollution
Clean Water Act Recovery Act	<ul style="list-style-type: none"> - Design, operation & monitoring of sanitary landfills



Environmental Systems

Describe what happened to the system of the Aral Sea in terms of its inputs and outputs.

The Aral Sea used to be the fourth largest sea on the planet and people - rice and cotton and it wasn't very efficient irrigation. Then in 2014, it became a desert. It was not managing the inputs and outputs.

Inputs: inputting the water to the sea
Outputs: the water
Process: irrigation

What type of system is Earth with respect to matter? What about energy? Earth is a closed matter (it is the atom that makes us) and is conserved over time. It is an open system.

What does the First Law of Thermodynamics state? Energy (this relates to mass, "Energy cannot be created or destroyed, it can only change form or be transferred to another system). The energy from the sun comes through nuclear fusion in the sun that converts mass into energy. The energy from the sun is used to create oxygen.

1. How does the Second Law of Thermodynamics state? Energy can neither be created or destroyed nor can it be converted from one form to another.

2. How does the Second Law of Thermodynamics state? How does this relate to the system? The second law of thermodynamics states that you cannot break even, is changed from one form to another, it always moves from a more useful form to a less useful form.

3. Based on the second law of thermodynamics, not all of the energy in a car gets used to move the car forward. What happens to the rest? The rest can be good for air conditioning, and charging your phone.

4. Using a systems analysis approach (inputs vs. outputs), describe why global warming is occurring. Inputs (global warming).

5. Inputs (global warming) are absorbing and killing the carbons that maintain temperature. Heating (output) is occurring.

6. How does negative feedback affect the steady state of a system? What is the feedback? A negative feedback is self-regulating and stabilizing because the output

Cheat Sheet

Ap Environmental Science Jay Withgott Notes

Angela Morrow, Tim Ligget



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AP Environmental Science Myra Morgan (Science teacher),2018 **Science** John Michels (Journalist),2002 A weekly record of scientific progress ASAP Environmental Science: A Quick-Review Study Guide for the AP Exam The Princeton Review,2019-02-26 Looking for sample exams practice questions and test taking strategies Check out our extended in depth AP Environmental Science prep guide Cracking the AP Environmental Science Exam LIKE CLASS NOTES ONLY BETTER The Princeton Review s ASAP Environmental Science is designed to help you zero in on just the information you need to know to successfully grapple with the AP test No questions no drills just review Advanced Placement exams require students to have a firm grasp of content you can t bluff or even logic your way to a 5 Like a set of class notes borrowed from the smartest student in your grade this book gives you exactly that No tricks or crazy stratagems no sample essays or practice sets Just the facts presented with lots of helpful visuals Inside ASAP Environmental Science you ll find Essential concepts terms principles issues and processes for AP Enviro Sci all explained clearly concisely Diagrams charts and graphs for quick visual reference A two pass icon system designed to help you prioritize learning what you MUST SHOULD and COULD know in the time you have available Ask Yourself questions to help identify areas where you might need extra attention A resource that s perfect for last minute exam prep and for daily class work Topics covered in ASAP Environmental Scienceinclude Ecosystems food chains food webs Population studies trends Resource utilization economics Energy conservation and more Elements of Ecology Thomas Michael Smith,Robert Leo Smith,2006 KEY BENEFIT Elements of Ecology Sixth Edition maintains its engaging reader friendly style as it explains the basic principles of ecology The text is updated to include new chapters on current ecological topics new part introductions to connect the subfields of ecology and new in text features to encourage students to interpret the ecological data research and models used throughout the text Abundant accessible examples illustrate and clarify the text s emphasis on understanding ecological patterns within an evolutionary framework Additionally the text employs new study questions requiring students to make connections and apply their knowledge KEY TOPICS Introduction and Background The Nature of Ecology Adaptation and Evolution The Physical Environment Climate The Aquatic Environment The Terrestrial Environment Organismal Ecology Plant Adaptations Animal Adaptations Life History Patterns Population Ecology Properties of Populations Population Growth Interspecific Population Regulation Metapopulations The Ecology of Species Interactions Competition Predation Parasitism and Mutualism Community Ecology Community Structure Factors Influencing the Structure of Communities Community Dynamics Landscape Ecology Ecosystem Ecology Ecosystem Energetics Decomposition and Nutrient Cycling Biogeochemical Cycles Biogeographical Ecology Terrestrial Ecosystems Aquatic Ecosystems Land Water Interface Large scale Patterns of Biodiversity Human Ecology Population Growth Resource Use and Sustainability Habitat Decline Biodiversity and Conservation Ecology Global Climate Change MARKET For all readers interested in the basic principles ecology **AP* Environmental Science Student**

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web the electrical wiring between the power source and the fire pump controller shall meet the local codes electrical wiring shall be typically sized to carry at least 125 of the full load current flc or fla of the fire pump motor

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web wiring diagram of fire pump diesel engine 1 1 battery ve 1 2 stop push button 2a 02 battery ve 2a 2a 1 2a 1 2a 2a 2

water twmp 16 a lot gauge 6 2 mech lop gauge gauge from auto start panel fuse t t t 03 b b 3 start solenoid 2 3 2b 7 2 11 10 6a 4a 03

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web take place within the pump room transfer switch shall be specifically listed for fire pump service one transfer switch shall be dedicated to each fire pump see nfpa 20 03 chapter 9 6 4 10 8 3 1 and 10 8 2 3 u l f m listed built to nfpa 20 03 standard chapter 10 please note to be located within sight of pump motor fire pump

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web when designing or installing electrical power supplies for fire pumps and their accessories you must apply special rules as listed in nfpa 70 the national electrical code nec and the standard for centrifugal fire pumps cfp nfpa 20

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web sep 25 2020 emon framework fire pump is a part of a fire sprinkler system s water supply and powered by electric

diesel or steam the pump intake is either connected to the public underground water supply

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web jun 12 2021 according to the requirements of automatic alarm code it is controlled at the fire control room control near the fire hydrant pump in the water pump room the wiring diagram of one fire pump is used and one is prepared as an example the wiring diagram of the fire fighting water pump is as an example

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web nov 27 2017 below is a list of some of the most common components represented in a fire pump wiring diagram switches fuses relays control systems automatic transfer switches controller sensing modules power distribution panels how to read an electric fire pump wiring diagram reading an electric fire pump wiring diagram is not

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web jul 31 2020 a wiring diagram is an easy visual representation with the physical connections and physical layout associated with an electrical system or circuit it shows what sort of electrical wires are interconnected and will also show where fixtures and components could possibly be connected to the system

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web 1 system consists of pump skid and control box control box on deluxe systems only 2 check that the motor is securely fastened to the skid 3 connect sprinkler piping to customer connection on pump skid 4 connect pump suction connection to water source 5 wire control power to pump skid 6 ensure correct voltage is applied

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web oct 10 2018 the feeder conductors to the fire pump and associated equipment are required to have an ampacity not less than 125 percent of the full load current flc rating of the fire pump motor s and pressure maintenance pump motor s plus 100 percent of associated accessory equipment

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web above in all three auto positions the pumps shall be stopped by hand only as it will be common practice to run the diesel

and electrical fire pump at least once a week for a couple of minutes and to prevent any damage to the pumps a return pipe to the reservoir sized for approximately 35 of the pump's duty point flow is to be

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web nov 21 2022 figure 1 design process for configuring electrical service to a fire pump courtesy affiliated engineers inc determine fire pump power source coordinate with the fire protection engineer to determine pump requirements the normal source must be in accordance with one of the following nec article 695.3 determine reliability alternate

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web the electrical wiring between the fire pump controller and the pump motor shall be in rigid intermediate or liquid tight flexible metal conduit or type mi cable and meet the requirements of local codes

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web 1.1 description fire pump package systems are custom built to the requirements provided by the purchaser the ac fire pump package is a complete fire protection system packaged fire pump systems are designed in accordance with nfpa 20 packages are factory hydrotested to internal quality standards and nfpa 20

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web apr 16 2013 wiring from the fire pump controller to the fire pump motor not installed through a building as covered in 695.6 b must be in rigid metal conduit intermediate metal conduit electrical metallic tubing liquidtight flexible metal conduit liquidtight flexible nonmetallic conduit type b listed type mc cable with an impervious

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