

THE CULTURAL-SOCIAL BENEFITS OF DEVELOPING GREEN CHANNELS:

CASE STUDIES AND DEMONSTRATION IN JEDDAH CITY, SAUDI ARABIA

ABDULMUEEN MOHAMMED BOGIS

Thesis
Submitted to the Faculty of the
Virginia Polytechnic Institute and State University
in partial fulfillment of the requirements for the degree of
Master of Landscape Architecture
In
Landscape Architecture

Patrick A. Miller, Chair
Dean R. Bork
Brian Katen

5/7/2015
Blacksburg, VA

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 3 Dumping black-water & solid waste at the drainage channel of Prince Fawaz district, Jeddah City. From Al-Madinah Newspaper, 2010

Report generated on: 05-17-2015 at : 16:35:59

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*



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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 4 The crowd of the Northern Corniche during weekends & large land occupation by Tahlia stormwater channel (Source: Al-Madinah Newspaper, and Riyadh Newspaper)

Report generated on: 05-17-2015 at : 16:39:45

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 6,15 (Source: Austin, 2014, Green Infrastructure for Landscape Planning: Integrating Human and Natural Systems Routledge)

Report generated on: 05-18-2015 at : 00:34:50

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 7 The nature of the relationship between environmental quality & human activity (Source: adapted from Gehl, 2011)

Report generated on: 05-17-2015 at : 17:08:20

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 8 Classification of water harvesting techniques (Source: Brauch et al., 2003)

Report generated on: 05-17-2015 at : 17:22:39

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

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Description of item under review for fair use: Figure 11 Green roofs for water management and aesthetic and productive purposes (Source: the left picture model from <http://www.hazenandsawyer.com/>, and the right picture from <http://www.greenrooftechnology.com/>)

Report generated on: 05-17-2015 at : 23:40:03

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 12 Blue roofs system of detain to gradually release or store future uses (Source: the left picture model from <http://www.hazenandsawyer.com/>, and the right picture from <http://reducerunoff.org/>)

Report generated on: 05-17-2015 at : 23:45:12

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 13 Rain barrel & underground mega cistern (Source: from http://prairieform.com/blog/wp-content/uploads/2011/02/rain_barrel.jpg)

Report generated on: 05-18-2015 at : 00:24:46

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

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Factor 4

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 14 Typical roof water harvesting system in Jordan (Source: from Abdulla & Al-Shareef, 2009, P. 199)

Report generated on: 05-18-2015 at : 00:26:48

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

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Factor 4

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 16,18 (Source: Laugesen et al., 2010, Sustainable Wastewater Management in Developing Countries: New Paradigms and Case Studies from the Field. Maggie)

Report generated on: 05-18-2015 at : 00:45:41

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 17,19 (Source: Brix et al., 2010)

Report generated on: 05-18-2015 at : 00:51:07

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

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Factor 4

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 21 Landscape performance benefit toolkit (Source: retrieved from LAF)

Report generated on: 05-18-2015 at : 00:59:28

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 23 Los Angeles River restoring its ecosystem (Source: from <http://www.lamakerspace.com>, <http://lawaterkeeper.org/>)

Report generated on: 05-18-2015 at : 01:15:55

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 24 Green ideas with attractive design both foster wildlife & recreational activities for the public to thrive (Source: from <http://www.lariver.org/index.htm>)

Report generated on: 05-18-2015 at : 01:18:44

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

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Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*



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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 25 Buffalo Bayou before revitalization (Source: by Mike Garver)

Report generated on: 05-18-2015 at : 01:19:33

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 26 Buffalo Bayou, Houston, Texas (Source: from left to right photo taken by Bill Tatham, the 2nd & 3rd pictures by Tom Fox, <http://www.asla.org/2009awards/104.html>)

Report generated on: 05-18-2015 at : 01:20:41

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*



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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 27 Optional & social activities (Source: from left to right, top to bottom pictures were taken by Tom Fox, <http://archidose.org/>, Bill Tatham, <http://www.downtownhouston.org/>, <http://archidose.org/>)

Report generated on: 05-18-2015 at : 01:21:43

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

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Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*



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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 31,32 (Source: by Botao Landscape)

Report generated on: 05-18-2015 at : 01:30:49

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

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Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*



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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 37 Site section showing design flood level (Source: MYKD)

Report generated on: 05-18-2015 at : 01:40:35

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

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Factor 4

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 42 Flooded zones in Jeddah region (November 2009) with five damage categories. (Source: Al-Saud, 2010)

Report generated on: 05-18-2015 at : 01:51:11

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 47 The Old City Wall surrounding the old city for protection (Source: Azahar, Al-Shoail, and Al-Okazi, 1996)

Report generated on: 05-18-2015 at : 01:53:08

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 50,52 (AECOM, 2014, <http://www.aecom.com/>)

Report generated on: 05-18-2015 at : 01:57:54

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: ***in favor of fair use***

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*



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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 53 Depth from the surface of the ground to the groundwater, Jeddah (Source: redeveloped by author from unpublished data from the Saudi Geological Survey)

Report generated on: 05-18-2015 at : 02:00:03

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

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Factor 4

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 54 Soil groups & classifications, Jeddah (Source: Ministry of Agriculture and Water, Saudi Arabia)

Report generated on: 05-18-2015 at : 02:03:26

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 55,56,57 (Source: Jeddah's Municipality)

Report generated on: 05-18-2015 at : 02:04:40

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

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Factor 3

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Name: Abdulmueen Bogis

Description of item under review for fair use: Figure 62 The quality of the physical environment of each zone-unit
(Source: adapted by author from Gehl, 2011)

Report generated on: 05-18-2015 at : 02:05:56

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

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Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*



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(Questions? Concerns? Contact Gail McMillan, Director of the Digital Library and Archives at Virginia Tech's University Libraries: gailmac@vt.edu)

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Virginia Tech ETD Fair Use Analysis Results



Name: Abdulmueen Bogis

Description of item under review for fair use: Table 1 Top 10 natural disasters in Saudi Arabia for the Period 1900 to 2013, sorted by number of those killed & affected from EM-DAT

Report generated on: 05-17-2015 at : 01:20:20

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*



Draft 09/01/2009

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Virginia Tech ETD Fair Use Analysis Results

Bitdefender Total Security

1 effort

to assist you in making a sound decision.

Name: Abdulmueen Bogis

Description of item under review for fair use: Table 2 GI assets classified according to scale (Source: from Landscape Institute, 2009)

Report generated on: 05-17-2015 at : 16:43:07

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*



Draft 09/01/2009

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Virginia Tech ETD Fair Use Analysis Results

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Name: Abdulmueen Bogis

Description of item under review for fair use: Table 3 Economic, social & environmental functions and values of GI
(Source: retrieved from TCPA, 2008)

Report generated on: 05-17-2015 at : 16:59:14

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*



Draft 09/01/2009

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Virginia Tech ETD Fair Use Analysis Results

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to assist you in making a sound decision.

Name: Abdulmueen Bogis

Description of item under review for fair use: Table 4 Water requirements for most of the aesthetic plants in Jeddah (Source: Jeddah Municipality, 2015)

Report generated on: 05-18-2015 at : 00:57:52

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*



Draft 09/01/2009

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Virginia Tech ETD Fair Use Analysis Results



Name: Abdulmueen Bogis

Description of item under review for fair use: Table 5 Average precipitation in Jeddah from 1981 to 2011 (Source: Ministry of Defense and Aviation-National Meteorology and Environment Center of Saudi Arabia)

Report generated on: 05-18-2015 at : 01:01:04

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*



Draft 09/01/2009

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Virginia Tech ETD Fair Use Analysis Results

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to assist you in making a sound decision.

Name: Abdulmueen Bogis

Description of item under review for fair use: Table 6 Evapotranspiration ETo data (Source retrieved from Ricks, 1992)

Report generated on: 05-18-2015 at : 01:02:31

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*



Draft 09/01/2009

(Questions? Concerns? Contact Gail McMillan, Director of the Digital Library and Archives at Virginia Tech's University Libraries: gailmac@vt.edu)

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Virginia Tech ETD Fair Use Analysis Results

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to assist you in making a sound decision.

Name: Abdulmueen Bogis

Description of item under review for fair use: Table 9 Precipitation data of Jeddah (Source: The National Meteorology & Environment Center, Saudi Arabia)

Report generated on: 05-18-2015 at : 01:49:29

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*



Draft 09/01/2009

(Questions? Concerns? Contact Gail McMillan, Director of the Digital Library and Archives at Virginia Tech's University Libraries: gailmac@vt.edu)

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Virginia Tech ETD Fair Use Analysis Results

Bitdefender Total Security

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to assist you in making a sound decision.

Name: Abdulmueen Bogis

Description of item under review for fair use: Table 10 Degree of capability of lands, Jeddah (Source: Ministry of Agriculture and Water, Saudi Arabia)

Report generated on: 05-18-2015 at : 02:02:42

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*

