

**U.S. ENVIRONMENTAL PROTECTION AGENCY  
SCIENCE ADVISORY BOARD**

**Panel for the Review of the EPA Water Body Connectivity Report  
Public Meeting, December 16-18, 2013  
Washington Plaza Hotel  
10 Thomas Circle, NW  
Washington, DC 20005**

**AGENDA**

**Purpose:** To conduct a peer review of the EPA draft report, *Connectivity of Streams and Wetlands to Downstream Waters: A Review and Synthesis of the Scientific Evidence (September, 2013 External Review Draft, EPA/600/R-11/098B)*

**Monday, December 16, 2013**

9:00 - 9:20 a.m.	<b>Convene Meeting</b>	Dr. Thomas Armitage Designated Federal Officer
	<b>Welcoming Remarks</b>	Mr. Christopher Zarba, Acting Director, EPA Science Advisory Board Staff Office
.	<b>Purpose of the Meeting and Review of Agenda</b>	Dr. Amanda Rodewald, Chair
9:20 - 9:50 a.m.	<b>Remarks from EPA's National Center for Environmental Assessment</b>	Dr. Jeffrey Frithsen, Senior Scientist and Special Project Coordinator, National Center for Environmental Assessment, EPA Office of Research and Development
		Dr. Laurie Alexander, Research Ecologist, National Center for Environmental Assessment, EPA Office of Research and Development
9:50 - 10:15 a.m.	<b>Review of the Charge Questions</b>	Dr. Rodewald and Panel Members
10:15 - 10:30 a.m.	<b>Break</b>	
10:30 a.m. - Noon	<b>Public Comments</b>	Registered Speakers
Noon - 1:15 p.m.	<b>Lunch</b>	

1:15 - 1:45 p.m.	<b>Public Comments (continued)</b>	Registered Speakers
	<b>Discussion of Panel's Responses to EPA Charge Questions</b>	
1:45 - 3:30 p.m.	<b>Charge Question 2</b> - Clarity and technical accuracy of the conceptual framework	Lead Discussants: Drs. Rains, Kalin, Kolm, Meyer
	<b>Charge Question 3(a)</b> – EPA's review and characterization of the literature on downstream connectivity and effects of ephemeral, intermittent, and perennial streams	Lead Discussants: Drs. Harvey, Hawkins, Fausch, Rosi-Marshall
3:30 - 3:45 p.m.	<b>Break</b>	
3:45 - 5:45 p.m.	<b>Charge Question 3(b)</b> – EPA's findings and conclusions concerning downstream connectivity and effects of ephemeral, intermittent, and perennial streams	Lead Discussants: Drs. Stanford, Tank, Wohl
	<b>Charge Question 4(a)</b> – EPA's review and characterization of the literature on downstream connectivity and effects of wetlands and certain open waters subject to non-tidal bidirectional hydrologic flows	Lead Discussants: Drs. Fennessy, Aldous, Valett, Reddy
5:45 p.m.	<b>Recess for the Day</b>	

### **Tuesday, December 17, 2013**

8:30 a.m.	<b>Reconvene</b>	
	<b>Discussion of Panel's Responses to EPA Charge Questions (continued)</b>	
8:30 - 10:30 a.m.	<b>Charge Question 4(b)</b> – EPA's findings and conclusions concerning downstream connectivity and effects of wetlands and certain open waters subject to non-tidal bidirectional hydrologic flows	Lead Discussants: Drs. Allan, Sullivan, Benda

	<b>Charge Question 5(a)</b> – EPA’s review and characterization of the literature on downstream connectivity and effects of wetlands and certain open waters (including “geographically isolated wetlands”) with potential for unidirectional hydrologic flows	Lead Discussants: Drs. Ali, Josselyn, Johnson,
10:30 - 10:45 a.m.	<b>Break</b>	
10:45 a.m. - 12:15 p.m.	<b>Charge Question 5(b)</b> – EPA’s findings and conclusions concerning downstream connectivity and effects of wetlands and certain open waters (including “geographically isolated wetlands”) with potential for unidirectional hydrologic flows	Lead Discussants: Drs. Brooks, Bernhardt, Gooseff, Murphy
	<b>Charge Question 1</b> – Overall clarity and technical accuracy of EPA’s draft report	Lead Discussants: Drs. Rodewald, Patten
12:15 - 1:30 p.m.	<b>Lunch</b>	
1:30 - 2:00 p.m.	<b>Charge Question 1 (continued)</b>	
2:00 - 2:20 p.m.	<b>Brief Clarifying Comments from Members of the Public</b>	
2:20 - 2:30 p.m.	<b>Recap and Prepare for Writing Session</b>	Dr. Rodewald
2:30 - 5:30 p.m.	<b>Writing Session by Panel Subgroups</b>	
	Conceptual Framework: An integrated systems perspective of watershed structure and function (charge question 2)	Drs. Rains*, Kalin, Kolm, Meyer
	Lotic systems: ephemeral, intermittent, and perennial streams (charge questions 3a and 3b)	Drs. Harvey, Hawkins, Fausch, Rosi-Marshall*, Stanford, Tank*, Wohl
	Lentic systems: wetlands and open waters with the potential for non-tidal, bidirectional hydrologic flows with rivers and lakes (charge questions 4a and 4b)	Drs. Fennessy*, Aldous, Valett, Reddy, Allan, Sullivan*, Benda
	Lentic systems: wetlands and open waters with potential for unidirectional hydrologic flows to rivers and lakes, including geographically isolated wetlands (charge questions 5a and 5b)	Drs. Ali, Josselyn, Johnson*, Brooks, Bernhardt*, Gooseff, Murphy

Overall impressions of the clarity and technical accuracy of EPA's draft Report (charge question 1)

Drs. Rodewald\*, Patten

5:30 p.m.

**Recess for Day**

**Wednesday, December 18, 2013**

8:30 a.m.

**Reconvene**

8:30 - 10:30 a.m.

**Discussion of Key Points in Responses to Charge Questions**

Dr. Rodewald and Panel

Charge Question 2

Dr. Rains

Charge Question 3(a)

Dr. Rosi-Marshall

Charge Question 3(b)

Dr. Tank

Charge Question 4(a)

Dr. Fennessy

Charge Question 4(b)

Dr. Sullivan

Charge Question 5(a)

Dr. Johnson

Charge Question 5(b)

Dr. Bernhardt

Charge Question 1

Dr. Rodewald

10:30 - 10:45 a.m.

**Break**

10:45 a.m. - 12:30 p.m.

**Discussion of Key Points in Responses to Charge Questions (continued)**

12:30 - 12:45 p.m.

**Summary and Next Steps**

Dr. Rodewald

12:45 p.m.

**Adjourn**

Dr. Thomas Armitage

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\* Lead writers