Appointment

From: Levy, Maxwell [Levy.Maxwell@epa.gov]
Sent: 8/3/2021 3:58:28 PM
To: Levy, Maxwell [Levy.Maxwell@epa.gov]; Enobakhare, Rosemary [Enobakhare.Rosemary@epa.gov]; Jasmine Harrison [jharrison@partnershipproject.org]; Laura Bentzen [lbentzen@partnershipproject.org]
CC: Michalos, Maria [Michalos.Maria@epa.gov]; Michael Brune, Sierra Club [michael.brune@sierraclub.org]

Subject: Environmental leaders meeting sync
Location: Microsoft Teams Meeting

Start: 8/4/2021 5:00:00 PM
End: 8/4/2021 5:30:00 PM
Show Time As: Busy

Required Attendees: Enobakhare, Rosemary; Jasmine Harrison; Laura Bentzen
Optional Attendees: Michalos, Maria; Michael Brune, Sierra Club

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Appointment

From: Fite, Mark [Fite.Mark@epa.gov]
Sent: 9/1/2021 8:17:45 PM
To: Fite, Mark [Fite.Mark@epa.gov]; Shadi [eskaf@sog.unc.edu]; Lutz, Christian [cnlutz@sog.unc.edu]; cedricliq Ex. 6 R. Williams Ex. 6 robin.barrows@ncdenr.gov; Angela Douglas [adouglas@chester.sc.gov]; Shauntice [sallen1@uab.edu]; Kimberly [kraiford@SHAWU.EDU]; uzo@ncat.edu; Jeffrey [jkwickli@uab.edu]; Michael Brown [michael.brown@sustainingway.com]; Whitehead, Sandra F [swhitehead@gwu.edu]; Katie [kmantoo2@utm.edu]; Alisha Montgomery [amelton6@utm.edu]; jason.barrett@msstate.edu; Nelson [nm151@msstate.edu]; ryan_hathaway [ryan_hathaway@ios.doi.gov]; Shernell Everett Ex. 6 Stephany.Taylor@SHAWU.EDU; Shuguang Hong [shong@gsu.edu]; riggs@sog.unc.edu; Alicia Gholar [agholar@gsu.edu]; Rishard [rwedderburn@SHAWU.EDU]; ekaf@sog.unc.edu; Samantha Rodriguez [srodr120@asu.edu]; kathys@palmettocareconnections.org; dawsons@savannahstate.edu; gdgoins@ncat.edu; Tanner, Gabriel (EEC) [gabriel.tanner@ky.gov]; mcochran@eda.gov; Brandi Gilbert [bgilbert@communityscience.com]; Jacobs, Alicia (EEC) [alicia.jacobs@ky.gov]; Gaddis, Sarah (EEC) [Sarah.Gaddis@ky.gov]; martha.torrez@usda.gov; EvelynKBritton [evelyn.britton@gsa.gov]; Price, Andrea [Price.Andrea@epa.gov]; Brook Powell [Brook.Powell@tn.gov]; Inhorn, Emma [Inhorn.Emma@epa.gov]; Witter, Kelly [Witter.Kelly@epa.gov]; Thomas-Burton, Tami [Thomas-Burton.Tami@epa.gov]; Good, Sheryl [Good.Sheryl@epa.gov]; Holtzclaw, Brian [Holtzclaw.Brian@epa.gov]; Wilson, Daphne [Wilson.Daphne@epa.gov]; Gross, Brian [Gross.Brian@epa.gov]; Jennings, Wanda [Jennings.Wanda@epa.gov]; Wise, Allison [Wise.Allison@epa.gov]; Blakely, Lashon [Blakely.Lashon@epa.gov]; Pugh, Katherine [Pugh.Katherine@epa.gov]; Park, Susan [Park.Susan@epa.gov]; Moura, Rafaela [Moura.Rafaela@epa.gov]; Robertson, Lakeshia [robertson.lakeshia@epa.gov]; Tanner, Hiram [Tanner.Hiram@epa.gov]; Table, Melba [Table.Melba@epa.gov]; Kajumba, Ntale [Kajumba.Ntale@epa.gov]; Danois, Héctor [Danois.Hector@epa.gov]; Wootson, Renee [Wootson.Renee@epa.gov]; Johnson, Bonita [Johnson.Bonita@epa.gov]; Sheckler, Kelly A. [Sheckler.Kelly@epa.gov]; Miller, Scott [Miller.Scott@epa.gov]; Bonner, Brenda [Bonner.Brenda@epa.gov]; Enobakhare, Rosemary [Enobakhare.Rosemary@epa.gov]; Levy, Maxwell [Levy.Maxwell@epa.gov]; Yolanda B [yandersn@NCCU.EDU]; Leah [leg292@msstate.edu]; Stancil, Joanna -FS [joanna.stancil@usda.gov]; jackie.williams@hud.gov; Oconnell, Tim - RD, Washington, DC [tim.oconnell@usda.gov]; burnsmichaelwayne Ex. 6 Bryant, Kyle [Bryant.Kyle@epa.gov]; Nathan Mutic [nathan.mutic@emory.edu]; Elaine Boyd [elaine.boyd@tn.gov]; Hilary L [hzarin@blm.gov]; Williamson, Jeannie [williamson.jeannie@epa.gov]; Jenkins, Brandi [Jenkins.Brandi@epa.gov]; Alfano, Barbara [Alfano.Barbara@epa.gov]; Nolan, Cindy [Nolan.CindyJ@epa.gov]; McCullough, Rachel [McCullough.Rachel@epa.gov]; Cherry [Cherry.Jochum@fema.dhs.gov]; Spencer, L'Tonya [Spencer.LaTonya@epa.gov]; Wiegand, Danny [wiegand.danny@epa.gov]; NGilbert@eda.gov; Alecia Brewster [alecia.brewster@sustainingway.com]; Eric [ebutler@SHAWU.EDU]; Ebony [ebony.brooks@ee.doe.gov]; Eric [eburnstein@urban.org]; John C. Martin [jmartin120@gsu.edu]
CC: aydconsults Ex. 6 Cortez Russell, Loni [Russell.Loni@epa.gov]; Ebanks, Sue [ebankss@savannahstate.edu]; Khoury, Leda [leda.khoury@fema.dhs.gov]; Mosher, Steve - RD, Fort Smith, AR [steve.mosher@usda.gov]; GMD [GMD@epa.gov]; Walker, Claudette [walker.claudette@epa.gov]; walterjy@dhec.sc.gov; Woods, Zachary L. [WoodsZL@dhec.sc.gov]; longkd@dhec.sc.gov; Courtney Hoover [courtney_hoover@ios.doi.gov]; Stella Kim [stella.kim@gema.ga.gov]; Kelli Yeager [Kelli.Yeager@btgcommunity.org]; kgb0@cdc.gov; Cheeks, Thornell [Cheeks.Thornell@epa.gov]; Cole, Sibyl [Cole.Sibyl@epa.gov]; Davis, Leah [davis.leah@epa.gov]; Gadsden, Genevieve [Gadsden.Genevieve@epa.gov]; Hairston, Brandy [hairston.brandy@epa.gov]; LeSane, Heidi [Lesane.Heidi@epa.gov]; Merritt, Savannah [Merritt.Savannah@epa.gov]; Orr, Chauncey [Orr.Chauncey@epa.gov]; Whitlock, Siobhan [Whitlock.Siobhan@epa.gov]; Yeley, Rose [Yeley.Rose@epa.gov]; Chan, Sydney [chan.sydney@epa.gov]; Kaiser, Emma [Kaiser.Emma@epa.gov]; Terrell, Michael [mterrell@coweta.ga.us]; Brumfield, Deborah - RD, Athens, GA [Deborah.Brumfield@usda.gov]; Dunn, Simonne [simonne.dunn@fema.dhs.gov]; Beatrice Soler [beatrice.soler@gema.ga.gov]; aov2@cdc.gov; Riley, Pamela [Riley.Pamela@epa.gov]; kbing@cdc.gov; Binninger, Jerry [Binninger.Jerry@epa.gov]; Allen, Jeanne [Allen.Jeanne@epa.gov]; Shelmon, Shantel [Shelmon.Shantel@epa.gov]; Pamela Gabel [PGabel@cowetafoundation.org]; Kennedy, Gracie [Gracie.Kennedy@FloridaDEP.gov]; Sims, Venessa [Venessa.Sims@agr.georgia.gov]; Page, Angela [Page.AngelaD@epa.gov]; Chung, Serena [chung.serena@epa.gov]; David Reese Ex. 6 Magan at DPS Foundation [info@bullcityschools.org]; Blackburn, Amanda-Jean [Blackburn.AmandaJean@epa.gov]; hannah_balldamberg@dpsnc.ne; Mitchell Sava [Mitchell.Sava@lifeandscience.org]; Max Cawley [Max.Cawley@lifeandscience.org]; Kelley, Gary [Gary.Kelley@agr.georgia.gov]; Corso, Jonathan (Federal) [JCorso@eda.gov]; Wilson, Andrew B - OHS, Snellville, GA

[andrew.b.wilson@usda.gov]; Kristin Webb [kwebb@cowetafoundation.org]; Harris, Reggie [HARRIS.REGGIE@EPA.GOV]; Ashley Meredith [ashley@thehubfarm.org]

Subject: Quarterly CUPP Workgroup
Attachments: R4 CUPP Workgroup Meeting 9212021.docx
Location: Teams meeting

Start: 9/21/2021 6:00:00 PM
End: 9/21/2021 7:00:00 PM
Show Time As: Tentative

Required Attendees: Shadi; Lutz, Christian; cedricliq[Ex. 6] R. Williams; robin.barrows@ncdenr.gov; Angela Douglas; Alecia Brewster; Shauntice; Kimberly; uzo@ncat.edu; Jeffrey; Michael Brown; Whitehead, Sandra F; Katie; Alisha Montgomery; jason.barrett@msstate.edu; Nelson; ryan_hathaway; Shernell Everett; Eric; Stephany.Taylor@SHAWU.EDU; Shuguang Hong; riggs@sog.unc.edu; Alicia Gholar; Rishard; ekaf@sog.unc.edu; Samantha Rodriguez; kathys@palmettocareconnections.org; dawsons@savannahstate.edu; gdgoins@ncat.edu; Tanner, Gabriel (EEC); mcochran@eda.gov; Ebony; Brandi Gilbert; Eric; Jacobs, Alicia (EEC); Gaddis, Sarah (EEC); martha.torrez@usda.gov; EvelynKBritton; Price, Andrea; Brook Powell; Inhorn, Emma; Witter, Kelly; Thomas-Burton, Tami; Good, Sheryl; Holtzclaw, Brian; Wilson, Daphne; Gross, Brian; Jennings, Wanda; Wise, Allison; Blakely, Lashon; Pugh, Katherine; Park, Susan; Moura, Rafaela; Robertson, Lakeshia; Tanner, Hiram; Table, Melba; Kajumba, Ntale; Danois, Héctor; Wootson, Renee; Johnson, Bonita; Sheckler, Kelly A.; Miller, Scott; Bonner, Brenda; Enobakhare, Rosemary; Levy, Maxwell; Yolanda B; Leah; John C. Martin; Stancil, Joanna -FS; jackie.williams@hud.gov; Oconnell, Tim - RD, Washington, DC; burnsmichaelwayne[Ex. 6] Bryant, Kyle; Nathan Mutic; Elaine Boyd; Hilary L; Williamson, Jeannie; Jenkins, Brandi; Alfano, Barbara; Nolan, Cindy; McCullough, Rachel; Cherry; Spencer, L'Tonya; Wiegand, Danny; NGilbert@eda.gov

Optional Attendees: aydconsults[Ex. 6] Cortez Russell, Loni; Ebanks, Sue; Khoury, Leda; Mosher, Steve - RD, Fort Smith, AR; GMD; Claudette Walker (walker.claudette@epa.gov); walterjy@dhec.sc.gov; Woods, Zachary L.; Long, Keisha; Kelley, Gary; Courtney Hoover; Stella Kim; Kelli Yeager; kgb0@cdc.gov; Cheeks, Thornell; Cole, Sibyl; Davis, Leah; Gadsden, Genevieve; Hairston, Brandy; LeSane, Heidi; Merritt, Savannah; Orr, Chauncey; Whitlock, Siobhan; Yeley, Rose; Chan, Sydney; Kaiser, Emma; Terrell, Michael; Corso, Jonathan (Federal); Brumfield, Deborah - RD, Athens, GA; Dunn, Simonne; Wilson, Andrew B - OHS, Snellville, GA; Beatrice Soler; aov2@cdc.gov; Riley, Pamela; kbing@cdc.gov; Binninger, Jerry; Allen, Jeanne; Shelmon, Shantel; Pamela Gabel; Kristin Webb; Kennedy, Gracie; Sims, Venessa; Page, Angela; Chung, Serena; Harris, Reggie; David Reese; Magan at DPS Foundation; Ashley Meredith; Blackburn, Amanda-Jean; hannah_balldamberg@dpsnc.ne; Mitchell Sava; Max Cawley

>>>>>>AGENDA ADDED<<<<<<<

Region 4's College/Underserved Community Partnership Program (CUPP) would like to invite you to participate in the Quarterly CUPP Workgroup Meeting.

The goals for this quarterly workgroup meeting will consist of providing technical assistance and support to underserved communities and college/university partners within EPA R4's eight states. Staff from programs such as Environmental Justice, Opportunity Zones, Local Foods Local Places, Rural Community Committee, Sustainability, Air Quality, and Brownfields will provide valuable information to the R4 CUPP partners! We would like to talk about community needs, goals and opportunities, so feel free to share your needs with the group when you attend. Please forward this invite to other communities or colleges/universities that may be interested in participating in CUPP.

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Appointment

From: Amanda Hsiung [ahsiung@cacampaign.com]
Sent: 9/28/2021 6:42:34 PM
To: Amanda Hsiung [ahsiung@cacampaign.com]; Enobakhare, Rosemary [Enobakhare.Rosemary@epa.gov]; Kim Alfred [kalfred@cacampaign.com]; Margie Alt [malt@cacampaign.com]; Rose Garr [rgarr@cacampaign.com]; Jessica Ennis [jennis@earthjustice.org]; Marty Hayden [mhayden@earthjustice.org]; csantillana@earthjustice.org; Derek Murrow [dmurrow@nrdc.org]; ddoniger@nrdc.org; Jackie Wong [Jackie.Wong@nrdc.org]; jhamilton@ucsusa.org; Carol Andress [candress@edf.org]; Zachary Fabish [zachary.fabish@sierraclub.org]; Laura Kate Bender [laura.bender@lung.org]; Paul Billings [paul.billings@lung.org]; Anastasia Gordon [anastasia@weact.org]; thiggins@americanprogress.com; mjohnson@nhmamd.org; Matt Casale [mcasale@environmentamerica.org]; Shannon Heyck-Williams [heyckwilliamss@nwf.org]; rwinn@edf.org
CC: anastasia.weact Ex. 6

Subject: CAC | EPA
Location: Ex. 6

Start: 10/1/2021 4:00:00 PM
End: 10/1/2021 5:00:00 PM
Show Time As: Busy

Recurrence: (none)

From: ahsiung@cacampaign.com
When: 12:00 PM - 1:00 PM October 1, 2021
Subject: CAC | EPA
Location: Ex. 6

Topic: EPA | CAC
Time: Oct 1, 2021 12:00 PM Eastern Time (US and Canada)

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Passcode: Ex. 6

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Appointment

From: Robinson, Victoria [Robinson.Victoria@epa.gov]
Sent: 8/26/2021 6:44:24 PM
To: Robinson, Victoria [Robinson.Victoria@epa.gov]; Duteau, Helen [Duteau.Helen@EPA.GOV]; Levy, Maxwell [Levy.Maxwell@epa.gov]; Overmeyer, Patricia [Overmeyer.Patricia@epa.gov]; Treimel, Ellen [Treimel.Ellen@epa.gov]; Klos, Caroline [Klos.caroline@epa.gov]; Anderson, Will [Anderson.Will@epa.gov]; Allen, Tessa [Allen.Tessa@epa.gov]; Smith, Carolyn [smith.carolyn@epa.gov]; Shaw, Betsy [Shaw.Betsy@epa.gov]; Hyde, Courtney [Hyde.Courtney@epa.gov]; Roberts, Timothy-P [Roberts.Timothy-P@epa.gov]; Shoaff, John [Shoaff.John@epa.gov]; Lubetsky, Jonathan [Lubetsky.Jonathan@epa.gov]; Weinstock, Larry [Weinstock.Larry@epa.gov]; West, Melita [West.Melita@epa.gov]; Ndoh, Tina [Ndoh.Tina@epa.gov]; Moltzen, Michael [Moltzen.Michael@epa.gov]; Childers, Pat [Childers.Pat@epa.gov]; Dowdell, Edward (Ned) [Dowdell.Ned@epa.gov]; Thompson, Ashley [Thompson.Ashley.M@epa.gov]; Thomas, Lavar [thomas.lavar@epa.gov]; Salinas, Elyse [Salinas.Elyse@epa.gov]; Schlieger, Brian [schlieger.brian@epa.gov]; Nichols, Nick [Nichols.Nick@epa.gov]; Mooney, Charlotte [Mooney.Charlotte@epa.gov]; King, Toshia [King.Toshia@epa.gov]; Miller, Sara [Miller.Sara@epa.gov]; Suarez, Lana [Suarez.Lana@epa.gov]; Villamizar, Nicole [Villamizar.Nicole@epa.gov]; Hauff, Amanda [Hauff.Amanda@epa.gov]; Edwards, Chebryll [Edwards.Chebryll@epa.gov]; Lloyd, David [Lloyd.DavidR@epa.gov]; Storm, Aimee [storm.aimee@epa.gov]; Froman, Sarah [Froman.Sarah@epa.gov]; Harrison, Jennifer [Harrison.Jennifer@epa.gov]; Page, Phil [Page.Phil@epa.gov]; Zertuche, Victor [zertuche.victor@epa.gov]; Epps-Price, Lena [Epps-Price.Lena@epa.gov]; Moss, Jacob [Moss.Jacob@epa.gov]; Strauss, Linda [Strauss.Linda@epa.gov]; Fine, Ellyn [Fine.Ellyn@epa.gov]; Singer, Yolanda [Singer.Yolanda@epa.gov]; Van Epps, Amanda [VanEpps.Amanda@epa.gov]; Sutton, Jennifer [sutton.jennifer@epa.gov]; Whalen, Kelsey [Whalen.Kelsey@epa.gov]; Moher, Daniel [moher.daniel@epa.gov]; Cortez Russell, Loni [Russell.Loni@epa.gov]; Erhunse, Adesuwa [erhunse.adesuwa@epa.gov]; Shaw, Nena [Shaw.Nena@epa.gov]; Barr, Linda [Barr.Linda@epa.gov]; Harris, Reggie [HARRIS.REGGIE@EPA.GOV]; McLain, Jennifer L. [Mclain.Jennifer@epa.gov]; Sawyers, Andrew [Sawyers.Andrew@epa.gov]; Best-Wong, Benita [Best-Wong.Benita@epa.gov]; McMiller, Nettie [McMiller.Nettie@epa.gov]; Lousberg, Macara [Lousberg.Macara@epa.gov]; Guilaran, Yu-Ting [Guilaran.Yu-Ting@epa.gov]; Goodin, John [Goodin.John@epa.gov]; Frazer, Brian [Frazer.Brian@epa.gov]; Sylvester, Frank [Sylvester.Frank.J@epa.gov]; Hicks, Kerry [Hicks.Kerry@epa.gov]; Gregory, Kate (she/her) [Gregory.Kate@epa.gov]; Yusuf, Istanbul [Yusuf.Istanbul@epa.gov]; Enobakhare, Rosemary [Enobakhare.Rosemary@epa.gov]; Bathersfield, Nizanna [Bathersfield.Nizanna@epa.gov]; Connors, Sandra [Connors.Sandra@epa.gov]; Kitamura, Louise [Kitamura.Louise@epa.gov]; Lee, Charles [Lee.Charles@epa.gov]; Farrell, Ericka [Farrell.Ericka@epa.gov]; Lewis, Sheila [Lewis.Sheila@epa.gov]; Tiago, Joseph [Tiago.Joseph@epa.gov]; Kumar, Chitra [Kumar.Chitra@epa.gov]; Fertakis, Nicolette [fertakis.nicolette@epa.gov]; Beckley, Patrick [Beckley.Patrick@epa.gov]; Motilall, Christina [Motilall.Christina@epa.gov]; Gogal, Danny [Gogal.Danny@epa.gov]; Fite, Mark [Fite.Mark@epa.gov]; Grantham, Nancy [Grantham.Nancy@epa.gov]; Manges, Ellen [Manges.Ellen@epa.gov]; Benjamin, Kent [Benjamin.Kent@epa.gov]; Fine, Philip [Fine.Philip@epa.gov]; Terrell, Piyachat [Terrell.Piyachat@epa.gov]; Tejada, Matthew [Tejada.Matthew@epa.gov]; Holtzclaw, Brian [Holtzclaw.Brian@epa.gov]; Koester, Christine [koester.christine@epa.gov]; Almodovar, Lisa [Almodovar.Lisa@epa.gov]; Wilson, Clark [Wilson.Clark@epa.gov]; Holmes, Carol [Holmes.Carol@epa.gov]; Hamilton, Brian [Hamilton.Brian@epa.gov]; Rodriguez, Elias [Rodriguez.Elias@epa.gov]; Halstead, Amanda [halstead.amanda@epa.gov]; McCullough, Rachel [McCullough.Rachel@epa.gov]
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Subject: EPA National EJ Community Engagement Calls: Focus on J40
Attachments: EPA National EJ Community Engagement Calls: Focus on J40; Untitled Attachment; Untitled Attachment
Location: ZoomGov Webinar

Start: 8/31/2021 6:00:00 PM
End: 8/31/2021 8:00:00 PM
Show Time As: Tentative

Recurrence: Weekly
every 2 week(s) on Tuesday from 2:00 PM to 4:00 PM
Required Attendees: Robinson, Victoria; Duteau, Helen; Levy, Maxwell; Overmeyer, Patricia; Treimel, Ellen; Klos, Caroline; Anderson, Will; Allen, Tessa; Smith, Carolyn; Shaw, Betsy; Hyde, Courtney; Roberts, Timothy-P; Shoaff, John; Lubetsky, Jonathan; Weinstock, Larry; West, Melita; Ndoh, Tina; Moltzen, Michael; Childers, Pat; Dowdell, Edward (Ned); Thompson, Ashley; Thomas, Lavar; Salinas, Elyse; Schlieger, Brian; Nichols, Nick; Mooney, Charlotte; King, Toshia; Miller, Sara; Suarez, Lana; Villamizar, Nicole; Hauff, Amanda; Edwards, Chebryll; Lloyd, David; Storm, Aimee; Froman, Sarah; Harrison, Jennifer; Page, Phil; Zertuche, Victor; Epps-Price, Lena; Moss, Jacob; Strauss, Linda; Fine, Ellyn; Singer, Yolanda; Van Epps, Amanda; Sutton, Jennifer; Whalen, Kelsey; Moher, Daniel; Cortez Russell, Loni; Erhunse, Adesuwa; Shaw, Nena; Barr, Linda; Harris, Reggie; McLain, Jennifer L.; Sawyers, Andrew; Best-Wong, Benita; McMiller, Nettie; Lousberg, Macara; Guilaran, Yu-Ting; Goodin, John; Frazer, Brian; Sylvester, Frank; Hicks, Kerry; Gregory, Kate (she/her); Yusuf, Istanbul; Enobakhare, Rosemary; Bathersfield, Nizanna; Connors, Sandra; Kitamura, Louise; Lee, Charles; Farrell, Ericka; Lewis, Sheila; Tiago, Joseph; Kumar, Chitra; Fertakis, Nicolette; Beckley, Patrick;

Optional Attendees:	Motilall, Christina; Gogal, Danny; Fite, Mark; Grantham, Nancy; Manges, Ellen; Benjamin, Kent; Fine, Philip; Terrell, Piyachat; Matthew Tejada; Holtzclaw, Brian; Koester, Christine; Almodovar, Lisa; Wilson, Clark; Holmes, Carol; Hamilton, Brian; Rodriguez, Elias; Halstead, Amanda; McCullough, Rachel (unknown property type)

Remember that this CALENDAR INVITE is for EPA Internal only. Please direct external stakeholders to our webpage where they can learn about and register for these calls. Thanks!

Hello Everyone:

As part of OEJ's national EJ community engagement call series, EPA is convening bi-weekly engagement calls that will focus on the Justice40 initiative. These focused engagement calls are being convened as part of an Agency-wide effort to consult with stakeholders (including communities, and state, local, and tribal governments) to ensure broad public participation and that community stakeholders share their views about what constitutes the "benefits" of a program. Please note that there will be other engagement efforts conducted by your individual programs to seek meaningful consultation with underserved and overburdened communities about potential external direct investment benefits to such communities. For information, such as recordings, questions, etc.) about past sessions, check out our webpage.

Schedule Update: EPA's Justice40-focused Engagement Calls are scheduled for the following dates and times. Agendas and ZoomGov webinar and registration information will be added to the individual meeting invites.

- Tuesday, **August 31**; from 2:00 p.m. to 4:00 p.m. Eastern time – *FOCUS on J40 Overview and Stakeholder expectations*
- Tuesday, **September 14**; from 2:00 p.m. to 4:00 p.m. Eastern time – *FOCUS on Brownfields Program*
- Tuesday, **September 28**; from 2:00 p.m. to 4:00 p.m. Eastern time – *FOCUS on General EJ Program updates*
- Tuesday, **October 12**; from 2:00 p.m. to 4:00 p.m. Eastern time – *FOCUS on DERA Program and the Ports Initiative*
- Tuesday, **October 26**; from 2:00 p.m. to 4:00 p.m. Eastern time – *FOCUS on Drinking Water SRF, Clean Water SRF, Lead in Drinking Water programs*
- Tuesday, **November 9**; from 2:00 p.m. to 4:00 p.m. Eastern time – *FOCUS on Superfund Remedial program*
- Tuesday, **November 23**; from 2:00 p.m. to 4:00 p.m. Eastern time – *FOCUS TBD*
- Tuesday, **December 7**; from 2:00 p.m. to 4:00 p.m. Eastern time – *FOCUS on Enforcement and EJ*

Victoria Robinson

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Appointment

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Start: 11/9/2021 7:00:00 PM
End: 11/9/2021 9:00:00 PM

Recurrence: (none)

Required Attendees: Duteau, Helen; Levy, Maxwell; Overmeyer, Patricia; Treimel, Ellen; Klos, Caroline; Anderson, Will; Allen, Tessa; Smith, Carolyn; Shaw, Betsy; Hyde, Courtney; Roberts, Timothy-P; Shoaff, John; Lubetsky, Jonathan; Weinstock, Larry; West, Melita; Ndoh, Tina; Moltzen, Michael; Childers, Pat; Dowdell, Edward (Ned); Thompson, Ashley; Thomas, Lavar; Salinas, Elyse; Schlieger, Brian; Nichols, Nick; Mooney, Charlotte; King, Toshia; Miller, Sara; Suarez, Lana; Villamizar, Nicole; Hauff, Amanda; Edwards, Chebryll; Lloyd, David; Storm, Aimee; Froman, Sarah; Harrison, Jennifer; Page, Phil; Zertuche, Victor; Epps-Price, Lena; Moss, Jacob; Strauss, Linda; Fine, Ellyn; Singer, Yolanda; Van Epps, Amanda; Sutton, Jennifer; Whalen, Kelsey; Moher, Daniel; Cortez Russell, Loni; Erhunse, Adesuwa; Shaw, Nena; Barr, Linda; Harris, Reggie; McLain, Jennifer L.; Sawyers, Andrew; Best-Wong, Benita; McMiller, Nettie; Lousberg, Macara; Guilaran, Yu-Ting; Goodin, John; Frazer, Brian; Sylvester, Frank; Hicks, Kerry; Gregory, Kate (she/her); Yusuf, Istanbul; Enobakhare, Rosemary; Bathersfield, Nizanna; Connors, Sandra; Kitamura, Louise; Lee, Charles; Farrell, Ericka; Lewis, Sheila; Tiago, Joseph; Kumar, Chitra; Fertakis, Nicolette; Beckley, Patrick; Motilall, Christina; Gogal, Danny; Fite,

Optional Attendees:	Mark; Grantham, Nancy; Manges, Ellen; Benjamin, Kent; Fine, Philip; Terrell, Piyachat; Matthew Tejada; Holtzclaw, Brian; Koester, Christine; Almodovar, Lisa; Wilson, Clark; Holmes, Carol; Hamilton, Brian; Rodriguez, Elias; Halstead, Amanda; McCullough, Rachel (unknown property type)

Remember that this CALENDAR INVITE is for EPA Internal only. Please direct external stakeholders to the event registration page: Ex. 6

Ex. 6 Thanks!

Link to join the EJ Community Engagement Call on November 9:

Ex. 6

Ex. 6 Passcode: Ex. 6

November 9 Agenda

Focus on Justice40: Superfund Remedial Program

EJ Program Updates

Upcoming Opportunities

- [Nov 10] National Environmental Justice Advisory Council (NEJAC) public meeting
- [Nov17-18] White House Environmental Justice Advisory Council (WHEJAC) public meeting
- [Nov 30] EPA Webinar Series for Tribes and Indigenous Peoples

For information (such as recordings, transcripts, questions, etc.) for past sessions, check out our webpage.

Victoria Robinson

Victoria Robinson | Office of Environmental Justice | Lead: Stakeholder Engagement / Emergency Management | U.S. Environmental Protection Agency | 1200 Pennsylvania Avenue NW | MC 2202A | Washington, DC 20460 | Tel: 202.564.6349 | E-mail: robinson.victoria@epa.gov

Appointment

From: Levy, Maxwell [Levy.Maxwell@epa.gov]
Sent: 10/8/2021 4:15:01 PM
To: Levy, Maxwell [Levy.Maxwell@epa.gov]; Athena Motavvef [amotavvef@earthjustice.org]; Enobakhare, Rosemary [Enobakhare.Rosemary@epa.gov]; Cortez Russell, Loni [Russell.Loni@epa.gov]
CC: Susan Mudd [SMudd@elpc.org]; margarita.parra@cleanenergyworks.org; Johana Vicente [jvicente@lcv.org]; katherine.garcia@sierraclub.org

Subject: Electric Bus Event conversation
Location: Microsoft Teams Meeting

Start: 10/13/2021 7:30:00 PM
End: 10/13/2021 8:00:00 PM
Show Time As: Busy

Required Attendees: Levy, Maxwell; Athena Motavvef; Enobakhare, Rosemary; Cortez Russell, Loni
Optional Attendees: Susan Mudd; margarita.parra@cleanenergyworks.org; Johana Vicente; katherine.garcia@sierraclub.org

---

Microsoft Teams meeting

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Appointment

From: Levy, Maxwell [Levy.Maxwell@epa.gov]
Sent: 10/29/2021 6:40:37 PM
To: Levy, Maxwell [Levy.Maxwell@epa.gov]; Carbonell, Tomas [Carbonell.Tomas@epa.gov]; Goffman, Joseph [Goffman.Joseph@epa.gov]; Enobakhare, Rosemary [Enobakhare.Rosemary@epa.gov]; lpagel@earthworksaction.org; Margie Alt [malt@cacampaign.com]
CC: Kim, Eunjung [Kim.Eun@epa.gov]; Culligan, Kevin [culligan.kevin@epa.gov]; Cozzie, David [Cozzie.David@epa.gov]; Davis, Alison [Davis.Alison@epa.gov]; Millett, John [Millett.John@epa.gov]; Paul Billings [Paul.Billings@lung.org]; Bob Bingaman [bob.bingaman@sierraclub.org]; Rachel Cleetus [RCleetus@ucsusa.org]; mjohnson@nhmamd.org; Kim Alfred [kalfred@cacampaign.com]; jeisenfeld@earthworksaction.org; Shannon Heyck-Williams [HeyckWilliamsS@nwf.org]; Sara Chieffo [Sara_Chieffo@lcv.org]; Murrow, Derek [dmurrow@nrdc.org]; Alan Septoff [aseptoff@earthworksaction.org]; Carol Andress [candress@edf.org]

Subject: Stakeholder Briefing: Methane Partners + CAC
Location: Microsoft Teams Meeting

Start: 11/1/2021 5:30:00 PM
End: 11/1/2021 6:00:00 PM
Show Time As: Busy

Required Attendees: Levy, Maxwell; Carbonell, Tomas; Goffman, Joseph; Enobakhare, Rosemary; lpagel@earthworksaction.org; Margie Alt
Optional Attendees: Kim, Eunjung; Culligan, Kevin; Cozzie, David; Davis, Alison; Millett, John; Paul Billings; Bob Bingaman; Rachel Cleetus; mjohnson@nhmamd.org; Kim Alfred; jeisenfeld@earthworksaction.org; Shannon Heyck-Williams; Sara Chieffo; Murrow, Derek; Alan Septoff

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Appointment

From: Tracy, Tom [Tracy.Tom@epa.gov]
Sent: 8/16/2021 1:20:38 PM
To: Tracy, Tom [Tracy.Tom@epa.gov]; Scott Ahlstrom [Scott.Ahlstrom@CorixTexas.com]; ahlmail[Ex. 6] Jerad Bales [jdbales@cuahsi.org]; Carr, Steve [scarr@lacsd.org]; sfc95823[Ex. 6] cole.david@deq.state.or.us; jb_doohan[Ex. 6] jducoste@ncsu.edu; Elizabeth Fassman-Beck [elizabethfb@sccwrp.org]; Hitzhusen, Fred [Hitzhusen.1@osu.edu]; Kate Lajtha [kate.lajtha@oregonstate.edu]; miclorah[Ex. 6] mmlorah@usgs.gov; John Lowenthal [john.lowenthal@cardno-gs.com]; eastmeetswest1[Ex. 6] Joseph V Rodricks [JRodricks@ramboll.com]; Tim Verslycke [tverslycke@gradientcorp.com]; stevew@sccwrp.org; John R White [jrwhite@lsu.edu]; ljohnson@d.umn.edu; VanDrunick, Suzanne [vanDrunick.Suzanne@epa.gov]; Williams, Joe [Williams.Joe@epa.gov]; Rea, Anne [Rea.Anne@epa.gov]; Trentacoste, Emily [trentacoste.emily@epa.gov]; canden.byrd@icf.com; Lass, Taylor [Lass.Taylor@epa.gov]; Steve Carr [Ex. 6]
CC: Ross, Mary [Ross.Mary@epa.gov]; Doa, Maria [Doa.Maria@epa.gov]; Penalva-Arana, Carolina [Penalva-Arana.Carolina@epa.gov]; Hawkins, CherylA [Hawkins.CherylA@epa.gov]; COLE David * DEQ [david.cole@deq.state.or.us]; Rodan, Bruce [rodan.bruce@epa.gov]; Frey, Christopher [Frey.Christopher@epa.gov]; Cascio, Wayne [cascio.wayne@epa.gov]; Hagerthey, Scot [Hagerthey.Scot@epa.gov]; Rashleigh, Brenda [Rashleigh.Brenda@epa.gov]; Russell, Marc [Russell.Marc@epa.gov]; Thurston, Hale [Thurston.Hale@epa.gov]; Hilborn, Elizabeth [Hilborn.E@epa.gov]; Dugan, Nicholas [Dugan.Nicholas@epa.gov]; Schaeffer, Blake [Schaeffer.Blake@epa.gov]; Brown, Cheryl A. [Brown.Cheryl@epa.gov]; Schofield, Kate [Schofield.Kate@epa.gov]; Golden, Heather [Golden.Heather@epa.gov]; Yuan, Yongping [Yuan.Yongping@epa.gov]; Compton, Jana [Compton.Jana@epa.gov]; Nietch, Christopher [Nietch.Christopher@epa.gov]; Grimm, Ann [Grimm.Ann@epa.gov]; Smucker, Nathan [Smucker.Nathan@epa.gov]; Garmestani, Ahjond [Garmestani.Ahjond@epa.gov]; Boothman, Warren [Boothman.Warren@epa.gov]; Ridley, Caroline [Ridley.Caroline@epa.gov]; Nestlerode, Janet [Nestlerode.Janet@epa.gov]; Oczkowski, Autumn [Oczkowski.Autumn@epa.gov]; Pacella, Stephen [Pacella.Stephen@epa.gov]; Hagy, Jim [Hagy.Jim@epa.gov]; Handler, Amalia [Handler.Amalia@epa.gov]; Brooks, J. Renee [Brooks.Reneej@epa.gov]; Weitzman, Julie [weitzman.julie@epa.gov]; Pauer, James [Pauer.James@epa.gov]; Lazorchak, Jim [Lazorchak.Jim@epa.gov]; Murray, Regan [Murray.Regan@epa.gov]; Keeley, Ann [Keeley.Ann@epa.gov]; Best-Wong, Benita [Best-Wong.Benita@epa.gov]; Ohanian, Edward [Ohanian.Edward@epa.gov]; Pollard, Amina [Pollard.Amina@epa.gov]; Nagle, Deborah [Nagle.Deborah@epa.gov]; Goodin, John [Goodin.John@epa.gov]; Sawyers, Andrew [Sawyers.Andrew@epa.gov]; Wood, Robert [Wood.Robert@epa.gov]; Connors, Sandra [Connors.Sandra@epa.gov]; Miller, Wynne [Miller.Wynne@epa.gov]; Guilaran, Yu-Ting [Guilaran.Yu-Ting@epa.gov]; Morton, Michael [Morton.Michael@epa.gov]; Chamberlain, Eliodora [Chamberlain.Eliodora@epa.gov]; Daniels, Jason [Daniels.Jason@epa.gov]; Varnado, Miriam [Varnado.Miriam@epa.gov]; Thomas, Dana [Thomas.Dana@epa.gov]; Euling, Susan [Euling.Susan@epa.gov]; Gallagher, Kathryn [Gallagher.Kathryn@epa.gov]; Oliver, Jacques [Oliver.Jacques@epa.gov]; DAnglada, Lesley [DAnglada.Lesley@epa.gov]; Pelletier, Peg [Pelletier.Peg@epa.gov]; Lehmann, Sarah [Lehmann.Sarah@epa.gov]; Flahive, Katie [Flahive.Katie@epa.gov]; McLain, Jennifer L. [Mclain.Jennifer@epa.gov]

Subject: BOSC SSWR Virtual Meeting
Attachments: Untitled Attachment; Untitled Attachment; SSWR BOSC_Nutrients and HABs_Agenda_Dec 1-2 2021.pdf; BoSC Charge Questions_Nutrients and HABs_Dec 1-2 2021.pdf
Location: Zoom - Connection Info Below - Open "The Entire Series"

Start: 12/1/2021 5:00:00 PM
End: 12/1/2021 10:00:00 PM
Show Time As: Tentative

Recurrence: Daily
every day from 12:00 PM to 5:00 PM
Required Attendees: Tracy, Tom; Scott.Ahlstrom@CorixTexas.com; ahlmai[Ex. 6] jdbales@cuahsi.org; scarr@lacsd.org; sfc95823[Ex. 6] cole.david@deq.state.or.us; jb_doohan[Ex. 6] jducoste@ncsu.edu; elizabethfb@sccwrp.org; Hitzhusen.1@osu.edu; kate.lajtha@oregonstate.edu; miclorah[Ex. 6] mmlorah@usgs.gov; john.lowenthal@cardno-gs.com; eastmeetswest1[Ex. 6] JRodricks@ramboll.com; tverslycke@gradientcorp.com; stevew@sccwrp.org; jrwhite@lsu.edu; ljohnson@d.umn.edu; VanDrunick, Suzanne; Williams, Joe; Rea, Anne; Trentacoste, Emily; canden.byrd@icf.com; Lass, Taylor; Steve Carr

Optional Attendees: Ross, Mary; Doa, Maria; Penalva-Arana, Carolina; Hawkins, CherylA; COLE David * DEQ; Rodan, Bruce; Frey, Christopher; Wayne Cascio; Hagerthey, Scot; Rashleigh, Brenda; Russell, Marc; Thurston, Hale; Hilborn, Elizabeth; Dugan, Nicholas; Schaeffer, Blake; Brown, Cheryl A.; Kate Schofield; Golden, Heather; Yuan, Yongping; Compton, Jana; Nietch, Christopher; Grimm, Ann; Smucker, Nathan; Garmestani, Ahjond; Boothman, Warren; Ridley, Caroline; Nestlerode, Janet; Oczkowski, Autumn; Pacella, Stephen; Hagy, Jim; Handler, Amalia; Brooks, J. Renee; Weitzman, Julie; Pauer, James; Lazorchak, Jim; Murray, Regan; Keeley, Ann; Best-Wong, Benita; Ohanian, Edward (Ohanian.Edward@epa.gov); Amina Pollard (Pollard.Amina@epa.gov); Nagle, Deborah; Goodin, John; Sawyers, Andrew; McLain, Jennifer L.; Wood, Robert; Connors, Sandra; Miller, Wynne; Guilaran, Yu-Ting; Morton, Michael; Eliodora Chamberlain (Chamberlain.Eliodora@epa.gov); Jason Daniels (Daniels.Jason@epa.gov); Varnado, Miriam; Thomas, Dana; Euling, Susan; Gallagher, Kathryn; Oliver, Jacques; DAnglada, Lesley; Pelletier, Peg; Lehmann, Sarah; Flahive, Katie

Ex. 6

Meeting ID: Ex. 6
Passcode: Ex. 6

Appointment

To: Tracy, Tom [Tracy.Tom@epa.gov]; Scott Ahlstrom [Scott.Ahlstrom@CorixTexas.com]; ahlmail[Ex. 6]Jerad Bales [jdbales@cuahsi.org]; Carr, Steve [scarr@lacsd.org]; sfc95823[Ex. 6]cole.david@deq.state.or.us; jb_doohan[Ex. 6] jducoste@ncsu.edu; Elizabeth Fassman-Beck [elizabethfb@sccwrp.org]; Hitzhusen, Fred [Hitzhusen.1@osu.edu]; miclorah[Ex. 6] John Lowenthal [john.lowenthal@cardno-gs.com]; eastmeetswest1[Ex. 6] Tim Verslycke [tverslycke@gradientcorp.com]; stevew@sccwrp.org; John R White [jrwhite@lsu.edu]; ljohnson@d.umn.edu; VanDrunick, Suzanne [vanDrunick.Suzanne@epa.gov]; Williams, Joe [Williams.Joe@epa.gov]; Rea, Anne [Rea.Anne@epa.gov]; Trentacoste, Emily [trentacoste.emily@epa.gov]; canden.byrd@icf.com; Lass, Taylor [Lass.Taylor@epa.gov]; Steve Carr [carrstevea93[Ex. 6] Kate Lajtha [kate.lajtha@oregonstate.edu]; Joseph V Rodricks [JRodricks@ramboll.com]; mmlorah@usgs.gov

CC: Ross, Mary [Ross.Mary@epa.gov]; Doa, Maria [Doa.Maria@epa.gov]; Penalva-Arana, Carolina [Penalva-Arana.Carolina@epa.gov]; Hawkins, CherylA [Hawkins.CherylA@epa.gov]; COLE David * DEQ [david.cole@deq.state.or.us]; Rodan, Bruce [rodan.bruce@epa.gov]; Frey, Christopher [Frey.Christopher@epa.gov]; Cascio, Wayne [cascio.wayne@epa.gov]; Hagerthey, Scot [Hagerthey.Scot@epa.gov]; Rashleigh, Brenda [Rashleigh.Brenda@epa.gov]; Russell, Marc [Russell.Marc@epa.gov]; Thurston, Hale [Thurston.Hale@epa.gov]; Hilborn, Elizabeth [Hilborn.E@epa.gov]; Dugan, Nicholas [Dugan.Nicholas@epa.gov]; Schaeffer, Blake [Schaeffer.Blake@epa.gov]; Brown, Cheryl A. [Brown.Cheryl@epa.gov]; Schofield, Kate [Schofield.Kate@epa.gov]; Golden, Heather [Golden.Heather@epa.gov]; Yuan, Yongping [Yuan.Yongping@epa.gov]; Compton, Jana [Compton.Jana@epa.gov]; Nietch, Christopher [Nietch.Christopher@epa.gov]; Grimm, Ann [Grimm.Ann@epa.gov]; Smucker, Nathan [Smucker.Nathan@epa.gov]; Garmestani, Ahjond [Garmestani.Ahjond@epa.gov]; Boothman, Warren [Boothman.Warren@epa.gov]; Ridley, Caroline [Ridley.Caroline@epa.gov]; Nestlerode, Janet [Nestlerode.Janet@epa.gov]; Pacella, Stephen [Pacella.Stephen@epa.gov]; Hagy, Jim [Hagy.Jim@epa.gov]; Brooks, J. Renee [Brooks.Reneej@epa.gov]; Weitzman, Julie [weitzman.julie@epa.gov]; Pauer, James [Pauer.James@epa.gov]; Murray, Regan [Murray.Regan@epa.gov]; Keeley, Ann [Keeley.Ann@epa.gov]; Best-Wong, Benita [Best-Wong.Benita@epa.gov]; Pollard, Amina [Pollard.Amina@epa.gov]; Goodin, John [Goodin.John@epa.gov]; Wood, Robert [Wood.Robert@epa.gov]; Connors, Sandra [Connors.Sandra@epa.gov]; Miller, Wynne [Miller.Wynne@epa.gov]; Guilaran, Yu-Ting [Guilaran.Yu-Ting@epa.gov]; Morton, Michael [Morton.Michael@epa.gov]; Chamberlain, Eliodora [Chamberlain.Eliodora@epa.gov]; Daniels, Jason [Daniels.Jason@epa.gov]; Varnado, Miriam [Varnado.Miriam@epa.gov]; Thomas, Dana [Thomas.Dana@epa.gov]; Euling, Susan [Euling.Susan@epa.gov]; Oliver, Jacques [Oliver.Jacques@epa.gov]; DAnglada, Lesley [DAnglada.Lesley@epa.gov]; Pelletier, Peg [Pelletier.Peg@epa.gov]; Lehmann, Sarah [Lehmann.Sarah@epa.gov]; Flahive, Katie [Flahive.Katie@epa.gov]; Oczkowski, Autumn [Oczkowski.Autumn@epa.gov]; Handler, Amalia [Handler.Amalia@epa.gov]; Lazorchak, Jim [Lazorchak.Jim@epa.gov]; Nagle, Deborah [Nagle.Deborah@epa.gov]; Sawyers, Andrew [Sawyers.Andrew@epa.gov]; Gallagher, Kathryn [Gallagher.Kathryn@epa.gov]; Ohanian, Edward [Ohanian.Edward@epa.gov]; McLain, Jennifer L. [Mclain.Jennifer@epa.gov]

Location: Zoom - Connection Info Below - Open "The Entire Series"

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End: 12/1/2021 10:00:00 PM

Recurrence: (none)

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Optional Attendees: Ross, Mary; Doa, Maria; Penalva-Arana, Carolina; Hawkins, CherylA; COLE David * DEQ; Rodan, Bruce; Frey, Christopher; Wayne Cascio; Hagerthey, Scot; Rashleigh, Brenda; Russell, Marc; Thurston, Hale; Hilborn, Elizabeth; Dugan, Nicholas; Schaeffer, Blake; Brown, Cheryl A.; Kate Schofield; Golden, Heather; Yuan, Yongping; Compton, Jana; Nietch, Christopher; Grimm, Ann; Smucker, Nathan

Appointment

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Location: Zoom - Connection Info Below - Open "The Entire Series"

Start: 12/2/2021 5:00:00 PM
End: 12/2/2021 10:00:00 PM

Recurrence: (none)

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U.S. EPA Office of Research and Development

Board of Scientific Counselors Subcommittee

Safe and Sustainable Water Resources Research Program

Virtual Meeting on December 1-2, 2021

Nutrients and HABs Topic DRAFT Agenda

Wednesday, December 1, 2021

Time (EDT)	Topic		Presenter
11:45-12:00	Sign on and Technology Check		
12:00-12:15	Welcome and Opening Remarks		Tom Tracy (DFO) Joseph Rodricks (SSWR BoSC Chair)
12:15-12:20	ORD Welcome		Christopher Frey (Deputy Assistant Administrator for Science Policy; ORD Assistant Administrator Nominee)
12:20-12:30	SSWR Overview and Charge Questions		Suzanne van Drunick (SSWR National Program Director)
12:30-12:35	Nutrients and Harmful Algal Blooms (HABs)		Anne Rea (Sr Science Advisor, Nutrients & HABs Topic Lead)
12:35-1:35	Research Area 5: *Science to Support Nutrient-Related Water Quality Goals*		
	12:35-12:55	Overview of Research Area 5: *Science to Support Nutrient-Related Water Quality Goals: Research Highlights*	Heather Golden (ORD, CEMM)
	12:55-1:15	*Research focused on novel methods to assess nutrient indicators*	Cheryl Brown (ORD, CPHEA)
	1:15-1:35	*Research focused on vulnerability to and recovery from excess nutrients*	Kate Schofield (ORD, CPHEA)
1:35-2:35	BoSC Discussion of Charge Question 1		Joseph Rodricks (SSWR BoSC Chair)
2:35-2:45	Break		
2:45-3:45	Research Area 6: *Nutrient Reduction Strategies & Assessment*		
	2:45-3:05	Overview of Research Area 6: *Nutrient Reduction Strategies & Assessment: Research Highlights*	Yongping Yuan (ORD, CEMM)

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	3:05-3:25	*Tools and approaches for implementing and tracking nutrient reductions*	Jana Compton (ORD, CPHEA),
	3:25-3:45	*Best practices for integrated nutrient management programs*	Chris Nietch (ORD, CEMM)
3:45-4:45	BoSC Discussion of Charge Question 2		Joseph Rodricks (SSWR BoSC Chair)
4:45-4:55	Public Comments		Tom Tracy (DFO)
4:55-5:00	Wrap up		Joseph Rodricks (SSWR BoSC Chair)
5:00	Adjourn		

Thursday, December 2, 2021

Time (EDT)	Topic		Presenter
11:45-12:00	Sign on and Technology Check		
12:00-12:10	Welcome and Opening Remarks		Tom Tracy (DFO) Joseph Rodricks (SSWR BoSC Chair)
12:10-1:10	Overview of Research Area 4: *Assessment and Management of HABs*		
	12:10-12:30	Research Area 4: *Assessment and Management of HABs: Research Highlights*	Nick Dugan (ORD, CESER)
	12:30-12:50	*Research focused on HAB toxicity*	Elizabeth Hilborn (ORD, CPHEA)
	12:50-1:10	*Research focused on predictive capability and future forecasting*	Blake Schaeffer (ORD, CEMM)
1:10-2:10	BoSC Discussion of Charge Question 3		Joseph Rodricks (SSWR BoSC Chair)
2:10-2:20	Break		
2:20-4:15	Charge Question Breakout Groups (Committee members will be preassigned to specific charge questions)		BOSC and ORD
4:15-4:45	Charge Question Break-out Group Report Outs		Charge Question Leads
4:45-5:00	Next Steps		Joseph Rodricks (SSWR BoSC Chair) Suzanne van Drunick (NPD, SSWR) Joe Williams (Principal Associate NPD, SSWR) Tom Tracy (DFO)
5:00	Adjourn		

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U.S. EPA Office of Research and Development

Charge to the Board of Scientific Counselors

Subcommittee for the Safe and Sustainable Water Resources Research Program

Nutrients and HABs Virtual Meeting on December 1-2, 2021

Introduction

The mission of the EPA Office of Research and Development (ORD) is to provide the best available science and technology to inform and support public health and environmental decision-making at Federal, state, tribal, and local levels. This leading-edge research addresses critical environmental challenges and anticipates future science needs.

The December 1-2, 2021 BOSC review is focused on the SSWR Nutrients and Harmful Algal Blooms (HABs) Topic, one of the three inter-related topics in the SSWR research portfolio. The Nutrients and HABs Topic consists of three Research Areas (RA): RA4 – Assessment and Management of HABs; RA5 – Science to Support Nutrient-Related Water Quality Goals; and RA6 – Nutrient Reduction Strategies and Assessment. The purpose of this review is to receive the Subcommittee's feedback on the charge questions below.

Charge Questions

Q.1: Nutrient pollution is the most widespread water quality problem facing the United States, with far-ranging consequences for environmental condition, economic prosperity, and human health and well-being. Current SSWR in Research Area 5 focuses on nutrient-related impacts in watersheds and waterbodies to support determining protective endpoints for aquatic life in different water body types. What suggestion(s)/ recommendation(s) does the Subcommittee have on ORD's implementation of this research area and on (a) any new or emerging sensitive aquatic life endpoints, and (b) methods, sensors, and/or nutrient indicators for assessing aquatic life endpoints, particularly under changing climate conditions?

Q.2: While EPA, states, and tribes have made great efforts toward reducing nutrient pollution nationwide, it is still a challenge to identify best practices for implementing interventions and tracking their effectiveness to meet nutrient reduction goals in a comprehensive manner. To address this issue, SSWR Research Area 6 focuses on 1) applying tools, technologies, and best practices for nutrient management, 2) monitoring and tracking the effectiveness of nutrient reduction strategies, and 3) working closely with stakeholders to apply management practices and monitoring within their nutrient reduction programs. What suggestion(s)/ recommendation(s) does the Subcommittee have on ORD's implementation of this research area, particularly related to evaluating the effectiveness of nonpoint source nutrient reductions at local to large regional scales?

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Q.3: Harmful algal blooms are complex ecological processes that are affected by a variety of factors, including nutrient availability, water temperature, weather patterns, solar irradiation, limnology, and competing microorganisms. Much is still unknown regarding the human and environmental health effects of toxins produced during blooms. What suggestion(s)/ recommendation(s) does the Subcommittee have on ORD's implementation of the HABs portfolios, particularly in a) determining the toxicity of HABs, and b) developing the capacity to forecast HAB events to prevent or mitigate exposure?

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Appointment

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Sent: 8/16/2021 1:20:38 PM
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Subject: BOSC SSWR Virtual Meeting
Attachments: Untitled Attachment; Untitled Attachment; BoSC Charge Questions_Nutrients and HABs_Dec 1-2 2021.pdf; SSWR BOSC Nutrients and HABs Agenda.pdf; BOSC_SSWR_RA6 FINAL.pdf; BOSC_SSWR_RA5 FINAL.pdf; BOSC_SSWR_RA4_FINAL.pdf
Location: Zoom - Connection Info Below - Open "The Entire Series"

Start: 12/1/2021 5:00:00 PM
End: 12/1/2021 10:00:00 PM
Show Time As: Tentative

Recurrence: Daily
every day from 12:00 PM to 5:00 PM

Required Attendees: Scott.Ahlstrom@CorixTexas.com; ahlmail[Ex. 6] jdbales@cuahsi.org; scarr@lacsd.org; sfc95823[Ex. 6] cole.david@deq.state.or.us; jb_doohan[Ex. 6] jducoste@ncsu.edu; elizabethfb@sccwrp.org; Hitzhusen.1@osu.edu; kate.lajtha@oregonstate.edu; miclorah[Ex. 6] mmlorah@usgs.gov; john.lowenthal@cardno-gs.com; eastmeetswest1[Ex. 6] JRodricks@ramboll.com; tverslycke@gradientcorp.com; stevew@sccwrp.org; jrwhite@lsu.edu; ljohnson@d.umn.edu; VanDrunick, Suzanne; Williams, Joe; Rea, Anne; Trentacoste, Emily; canden.byrd@icf.com; Lass, Taylor; Steve Carr

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[Ex. 6]

Meeting ID: [Ex. 6]
Passcode: [Ex. 6]

Appointment

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Location: Zoom - Connection Info Below - Open "The Entire Series"

Start: 12/1/2021 5:00:00 PM
End: 12/1/2021 10:00:00 PM

Recurrence: (none)

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drturkey73 Ex. 6 Ross, Mary; Doa, Maria; Penalva-Arana, Carolina; Hawkins, CherylA; COLE David * DEQ; Rodan, Bruce; Frey, Christopher; Wayne Cascio; Hagerthey, Scot; Rashleigh, Brenda; Russell, Marc; Thurston, Hale; Hilborn, Elizabeth; Dugan, Nicholas; Schaeffer, Blake; Brown, Cheryl A.; Kate Schofield; Golden, Heather; Yuan, Yongping; Compton, Jana; Nietch, Christopher; Grimm, Ann; Smucker, Nathan; Garmestani, Ahjond; Boothman, Warren; Ridley, Caroline; Nestlerode, Janet; Pacella, Stephen; Hagy, Jim; Brooks, J. Renee; Weitzman, Julie; Pauer, James; Murray, Regan; Keeley, Ann; Best-Wong, Benita; Amina Pollard (Pollard.Amina@epa.gov); Wood, Robert; Connors, Sandra; Miller, Wynne; Guilaran, Yu-Ting; Morton, Michael; Eliodora Chamberlain (Chamberlain.Eliodora@epa.gov); Jason Daniels (Daniels.Jason@epa.gov); Varnado, Miriam; Thomas, Dana; Euling, Susan; Oliver, Jacques; DAnglada, Lesley; Pelletier, Peg; Lehmann, Sarah; Flahive, Katie; Corona, Joel; Lan, Alexis; Newman, Sharon; Zahreddine, Phil; Smith, Bernicel; Rose, Bob; Wall, Tom; Scozzafava, MichaelE; Yusuf, Istanbul; Foreman, Katherine

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Location: Zoom - Connection Info Below - Open "The Entire Series"

Start: 12/2/2021 5:00:00 PM
End: 12/2/2021 10:00:00 PM

Recurrence: (none)

Required Attendees: Scott.Ahlstrom@CorixTexas.com; ahlmail[Ex. 6]jdbales@cuahsi.org; scarr@lacsd.org; sfc95823[Ex. 6] cole.david@deq.state.or.us; jb_doohan[Ex. 6]; timdavi@bgsu.edu; jducoste@ncsu.edu; elizabethfb@sccwrp.org; Hitzhusen.1@osu.edu; kate.lajtha@oregonstate.edu; miclorah[Ex. 6] mmlorah@usgs.gov; john.lowenthal@cardno-gs.com; eastmeetswest1[Ex. 6]JRodricks@ramboll.com; tverslycke@gradientcorp.com; stevew@sccwrp.org; jrwhite@lsu.edu; ljohnson@d.umn.edu; VanDrunick, Suzanne; Williams, Joe; Rea, Anne; Trentacoste, Emily; canden.byrd@icf.com; Lass, Taylor; Steve Carr

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U.S. EPA Office of Research and Development

Board of Scientific Counselors Subcommittee

Safe and Sustainable Water Resources Research Program

Virtual Meeting on December 1-2, 2021

Nutrients and HABs Topic DRAFT Agenda

Wednesday, December 1, 2021

Time (EDT)	Topic		Presenter
11:45-12:00	Sign on and Technology Check		
12:00-12:15	Welcome and Opening Remarks		Tom Tracy (DFO) Joseph Rodricks (SSWR BoSC Chair)
12:15-12:20	ORD Welcome		Christopher Frey (Deputy Assistant Administrator for Science Policy; ORD Assistant Administrator Nominee)
12:20-12:30	SSWR Overview and Charge Questions		Suzanne van Drunick (SSWR National Program Director)
12:30-12:35	Nutrients and Harmful Algal Blooms (HABs)		Anne Rea (Sr Science Advisor, Nutrients & HABs Topic Lead)
12:35-1:35	Research Area 5: *Science to Support Nutrient-Related Water Quality Goals*		
	12:35-12:55	Overview of Research Area 5: *Science to Support Nutrient-Related Water Quality Goals: Research Highlights*	Heather Golden (ORD, CEMM)
	12:55-1:15	*Research focused on novel methods to assess nutrient indicators*	Cheryl Brown (ORD, CPHEA)
	1:15-1:35	*Research focused on vulnerability to and recovery from excess nutrients*	Kate Schofield (ORD, CPHEA)
1:35-1:45	Break		
1:45-2:35	BoSC Discussion of Charge Question 1		Joseph Rodricks (SSWR BoSC Chair)
2:35-2:45	Break		
2:45-3:45	Research Area 6: *Nutrient Reduction Strategies & Assessment*		

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	2:45-3:05	Overview of Research Area 6: *Nutrient Reduction Strategies & Assessment: Research Highlights*	Yongping Yuan (ORD, CEMM)
	3:05-3:25	*Tools and approaches for implementing and tracking nutrient reductions*	Jana Compton (ORD, CPHEA),
	3:25-3:45	*Best practices for integrated nutrient management programs*	Chris Nietch (ORD, CEMM)
3:45-3:55	Break		
3:55-4:45	BoSC Discussion of Charge Question 2		Joseph Rodricks (SSWR BoSC Chair)
4:45-4:55	Public Comments		Tom Tracy (DFO)
4:55-5:00	Wrap up		Joseph Rodricks (SSWR BoSC Chair)
5:00	Adjourn		

Thursday, December 2, 2021

Time (EDT)	Topic		Presenter
11:45-12:00	Sign on and Technology Check		
12:00-12:10	Welcome and Opening Remarks		Tom Tracy (DFO) Joseph Rodricks (SSWR BoSC Chair)
12:10-1:10	Overview of Research Area 4: *Assessment and Management of HABs*		
	12:10-12:30	Research Area 4: *Assessment and Management of HABs: Research Highlights*	Nick Dugan (ORD, CESER)
	12:30-12:50	*Research focused on HAB toxicity*	Elizabeth Hilborn (ORD, CPHEA)
	12:50-1:10	*Research focused on predictive capability and future forecasting*	Blake Schaeffer (ORD, CEMM)
1:10-1:20	Break		
1:20-2:10	BoSC Discussion of Charge Question 3		Joseph Rodricks (SSWR BoSC Chair)
2:10-2:20	Break		
2:20-4:05	Charge Question Breakout Groups (Committee members will be preassigned to specific charge questions)		BOSC and ORD
4:05-4:15	Break		
4:15-4:45	Charge Question Break-out Group Report Outs		Charge Question Leads

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4:45-5:00	Next Steps	Joseph Rodricks (SSWR BoSC Chair) Suzanne van Drunick (NPD, SSWR) Joe Williams (Principal Associate NPD, SSWR) Tom Tracy (DFO)
5:00	Adjourn	

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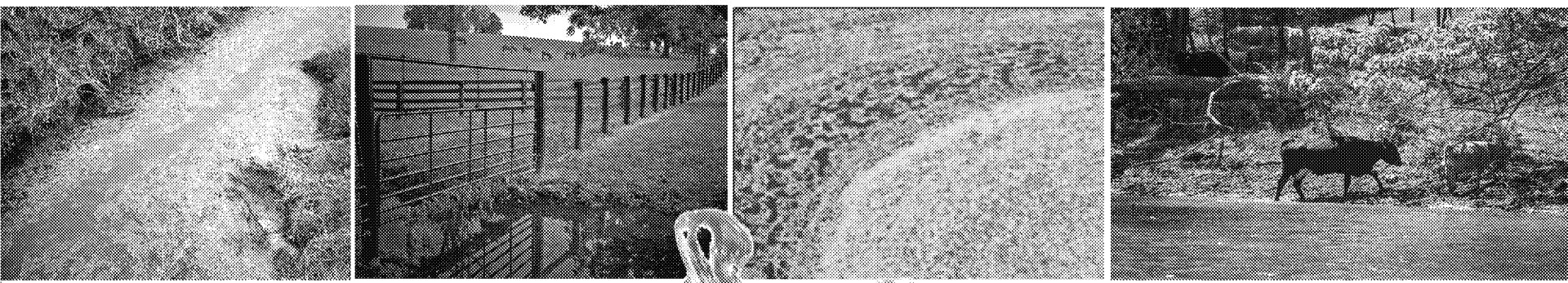
SAFE AND SUSTAINABLE WATER RESOURCES RESEARCH PROGRAM

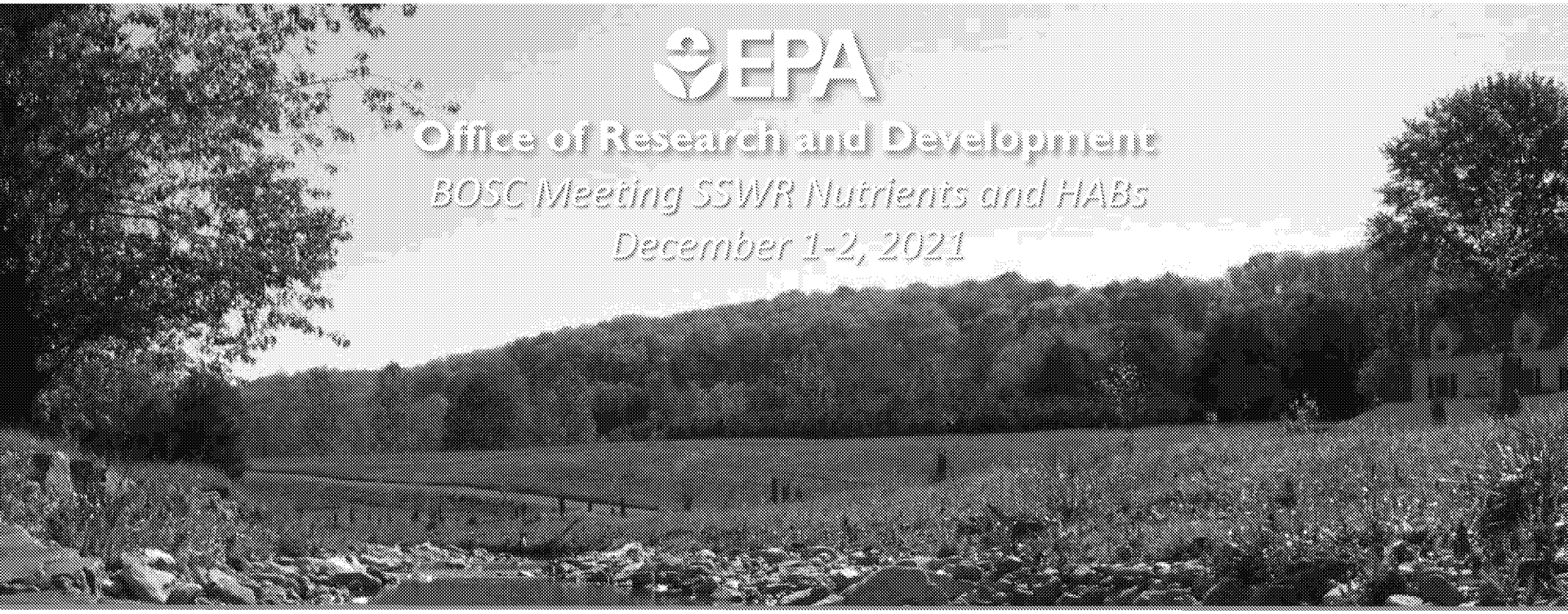


Research Area 6: Nutrient Reduction Strategies and Assessment

BOSC SSWR Subcommittee Meeting on Nutrients and HABs

December 1-2, 2021

This document has been reviewed in accordance with U.S. Environmental Protection Agency policy and approved for publication.



Background and Research Overview and Highlights

Yongping Yuan, Ph.D.
Center for Environmental Measurement and Modeling (CEMM)

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Background

- Nutrient pollution is a widespread water quality problem with consequences for human and environmental health, environmental condition, and the economy.
- ORD research supports the development of new information and tools for OW, states, tribes, and local decision-makers to establish and achieve water quality goals.
- Science can inform recommendations to protect different types of waters and different designated uses (e.g., aquatic life, recreation, and drinking water source protection).

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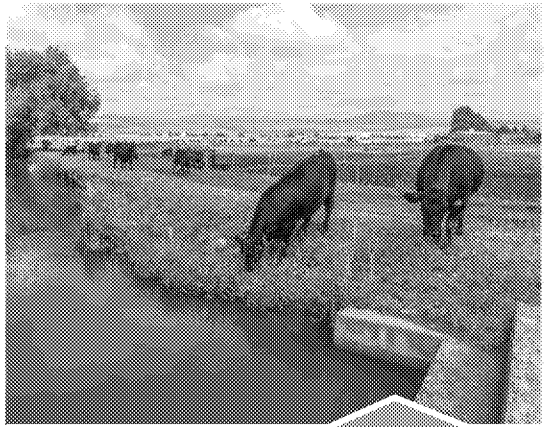
ORD's Nutrients and HABs Research

Research Area 4: Assessment and Management of HABs

Research Area 5: Science to Support Nutrient-Related Water Quality Goals



Research Area 6: Nutrient Reduction Strategies and Assessment

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Nutrient Reduction Strategies and Assessment

Products from this work will help our customers plan, implement, and track the effectiveness of nutrient reduction strategies at multiple spatial and temporal scales, including watersheds draining to receiving waters potentially affected by HABs or other nutrient-related water quality issues.

Tools and approaches for implementing and tracking nutrient reductions. - *Jana Compton*

Effectiveness of restoration and conservation practices and systems. - *Yongping Yuan*

Best practices for integrated nutrient management programs. - *Chris Nietch*

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Tools and Approaches for Implementing and Tracking Nutrient Reductions

Overview:

Research to develop and test approaches to design and implement nutrient management, and to track progress toward meeting a nutrient reduction goal.

Research Products:

- Integrated Multi-Media Modeling System (IMS) for nutrient management and policy options.
- Watershed-scale wetland treatment for nutrient management.
- Toolbox for nutrient pollution source tracking.
- Comparing landscape nutrient inputs to U.S. water chemistry over time.

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Evaluating the Effectiveness of Restoration and Conservation Practices

Overview:

This research advances our understanding on the effectiveness of conservation and best management practices for nutrient reduction.

Research Products:

Effectiveness of enhanced efficiency fertilizers (EEFs) for reducing nutrient pollution.

Effectiveness of nutrient management on nitrate-nitrogen loss from subsurface drainage.

Evaluation of river floodplain restoration approaches and the effects on water quality.

Management options for water quality improvement of Lake Erie.

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Best Practices for Integrated Nutrient Management Programs

Overview:

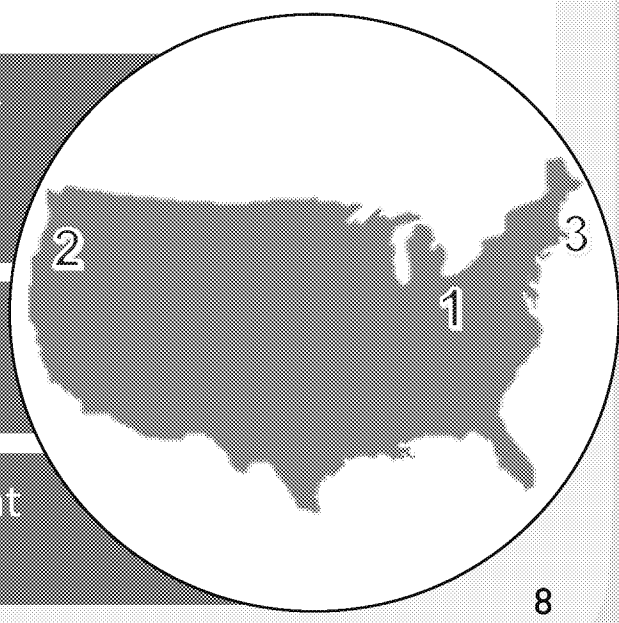
- Requires partnerships with land grant universities, soil and water conservation districts, business, NGOs, and other local, federal and state agencies.
- Research is solutions driven and through its partnerships strives for innovation in and better understanding toward reducing nutrients for large systems and by integrating nutrient management science, engineering, economics, and stakeholder engagement.
- Communication, economics, and/or behavioral science as critical components.

Research Products:

Ohio: Economic and water quality feasibility analysis to compare costs for non-traditional participants in market mechanisms like water quality trading (1).

Oregon: Integrated approaches in community nonpoint source nutrient management (2).

Cape Cod Nutrient Solution-Driven Research: Reducing non-point sources of nutrients via non-traditional approaches (3).



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Evaluating the Effectiveness of Restoration and Conservation Practices

Yongping Yuan, Ph.D.
Center for Environmental Measurement and Modeling

Assessing the Effectiveness of Enhanced Efficiency Fertilizers (EEFs) for Reducing Nutrient Pollution

Issue: EEFs could reduce nutrient losses to air, land, and water.

Approach: Joint EPA-USDA Partnership and Competition on Next Gen Fertilizers to Advance Agricultural Sustainability in the United States.

Result: Two Challenges launched.

1. Existing EEFs: Stage 1 - EEFs selected; currently in Stage 2 - Greenhouse trials.
2. Next Gen Fertilizers: Winners awarded.

Impact: Acceleration of the development and use of EEFs and new product technologies for corn production that maintain or increase crop yields and reduce environmental impact.

NEXT GEN FERTILIZER CHALLENGES

POC: Christopher Clark
Internal partners: OW/OWOW, OAR/OAP, OCSPP/OPP, Ag advisor
External collaborators: USDA, The Fertilizer Institute, The International Fertilizer Development Center, The Nature Conservancy, National Corn Growers Association.

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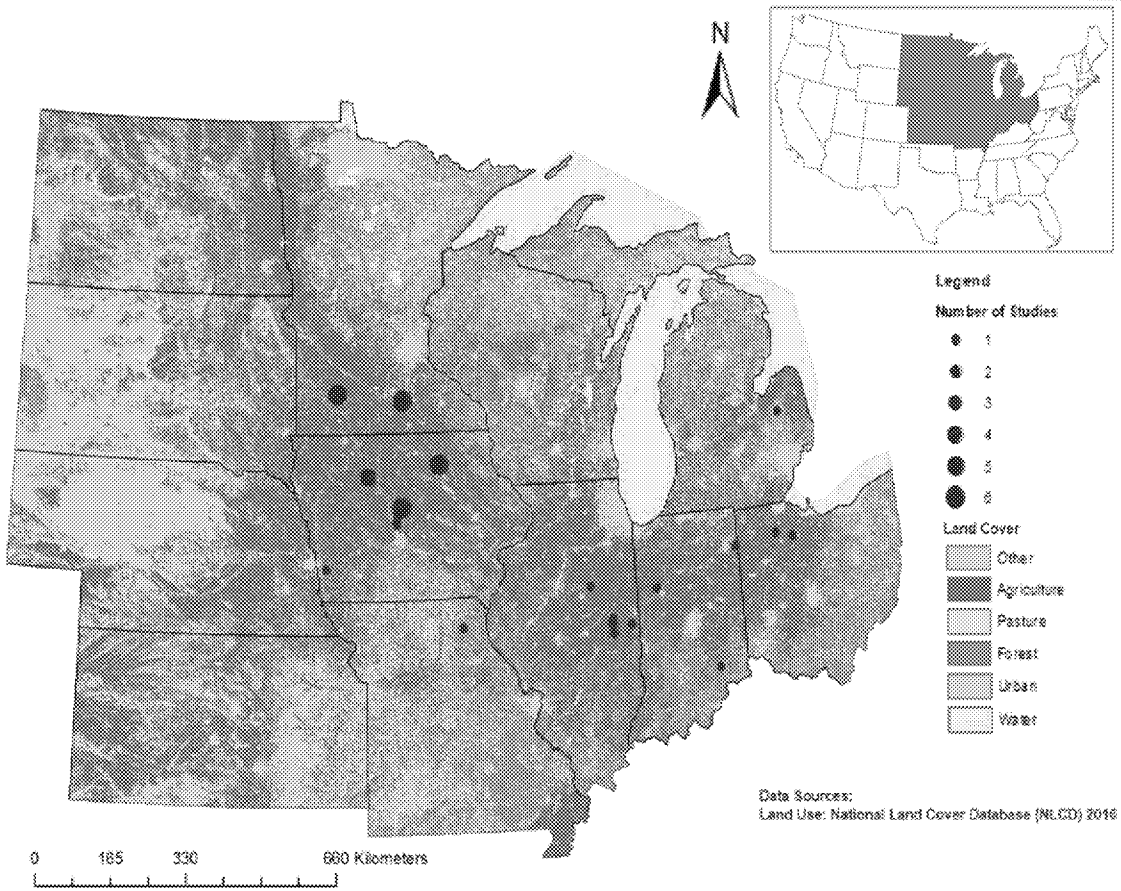
Effectiveness of Nutrient Management on Nitrate-Nitrogen Loss from Subsurface Drainage

Issue: Nutrient management (NRCS Code 590).

Approach: Managing rate, source, placement, and timing of plant nutrients and soil amendments while reducing environmental impacts (NRCS, 2019).

4Rs of nutrient stewardship — apply the right nutrient source with the right rate at the right time in the right place.

Literature review to synthesize available information on nutrient management and water quality.



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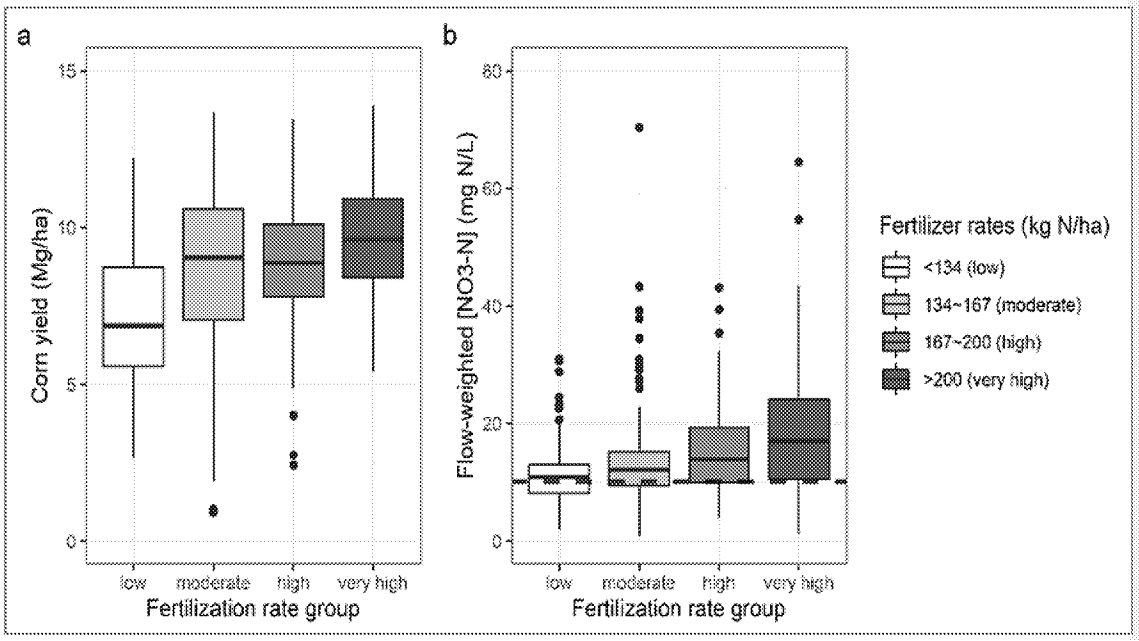
Effectiveness of Nutrient Management on Nitrate-Nitrogen Loss from Subsurface Drainage

Result: Fertilizer rate was found to be the most important factor controlling flow-weighted nitrate-N concentrations.

Impact: Results help us to make better decisions in recommending fertilization rate, specifically, fertilizer N recommendation rates need to consider both environmental and economic effects.

Agency Research Driver(s): Clean Water Act (Nonpoint).



Fertilization: rates, sources (organic vs inorganic), application methods (surface, injected and incorporated), timing (fall vs spring), single vs split (two or more fertilization events)

POC: Yongping Yuan

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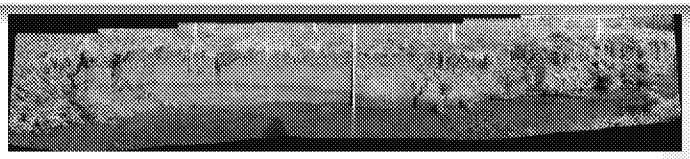
Evaluation of River Floodplain Restoration Approaches and the Effects on Water Quality

Issue: Large river floodplain infrastructure is being modified for flood protection, but there is concern about the consequences and benefits of these infrastructure changes to water quality.

Approach: This work evaluates the hydrology and nutrient pollution effects of current practices at several sites to better support future installations and strategies.

Agency Research Driver(s): Water quality and restoration.
POC: Ken Forshay (CESER/GCRD)
Internal partners: R7 (Chris Taylor, Doug Jones) ORD (Tamara Newcomer-Johnson, Doug Beak)
External collaborators: Iowa State University (William Crumpton); City of Yakima: Michael Price County of Yakima (Joel Freudenthal)



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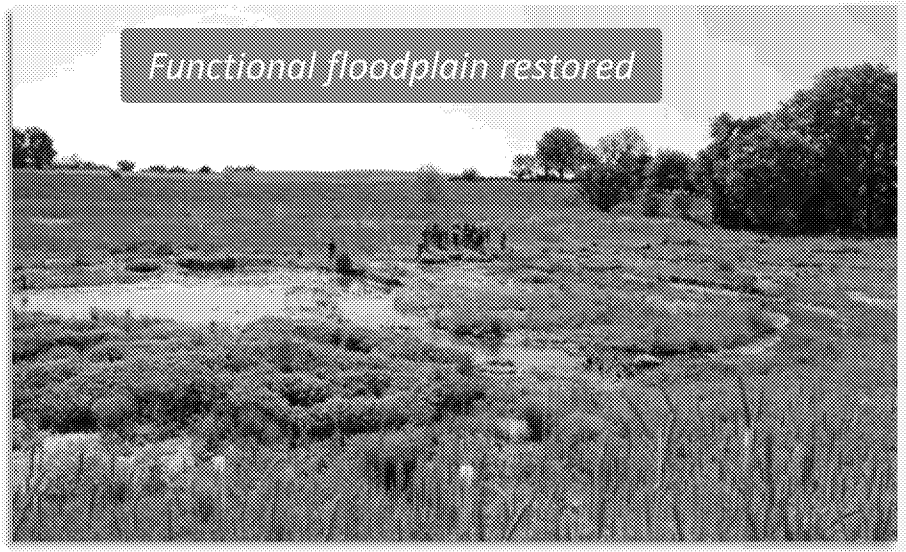
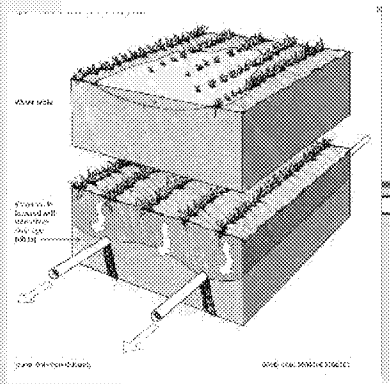
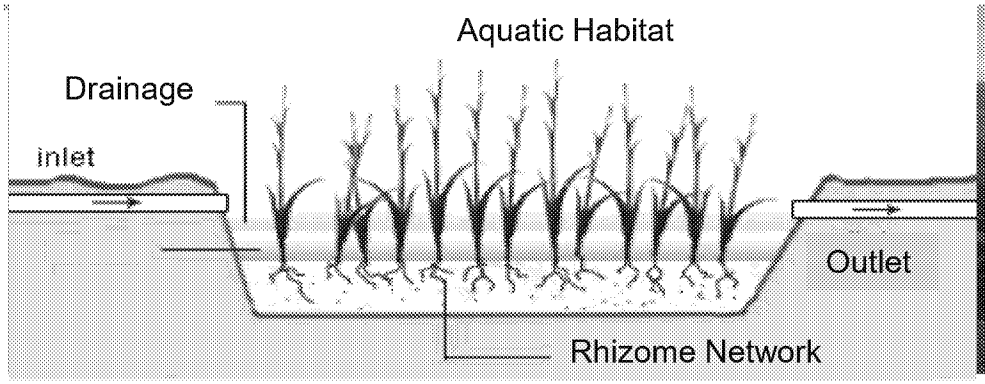
Evaluation of River Floodplain Restoration Approaches and the Effects on Water Quality

Result: Collaborative research efforts, with partners in the Upper Midwest Iowa, Pennsylvania, Oklahoma, and Washington state support the efficacy of several restoration and floodplain modification practices.

Impact: The effect of this work improves water quality and develops science-based support for river floodplain restoration practices.





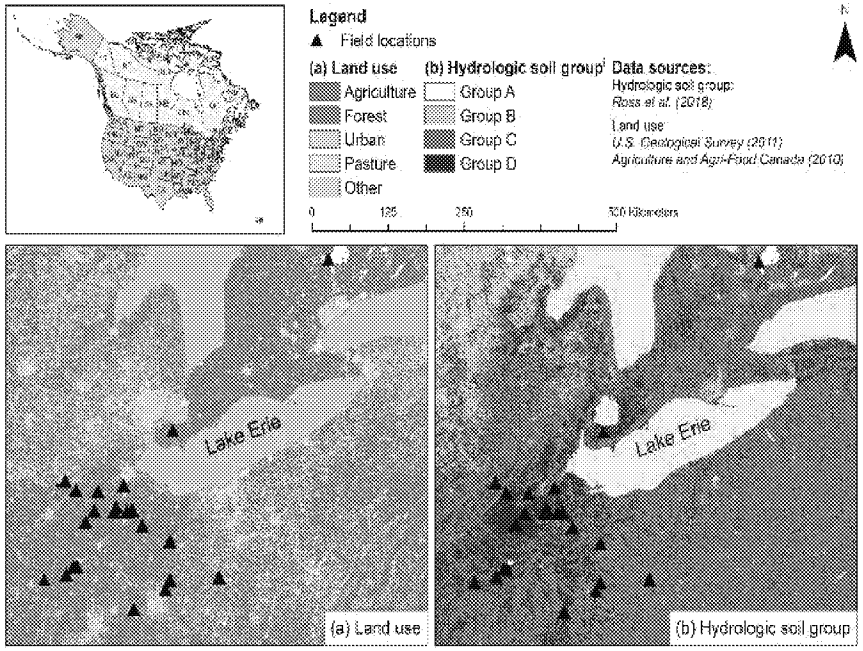


Management Options for Water Quality Improvement of Lake Erie

Issue: Excess dissolved reactive phosphorus (DRP) loading is the major driver of harmful algal blooms in Lake Erie, and agricultural non-point source are a major source of DRP to the lake.

Approach: DRP load reductions are proposed to be accomplished with widespread adoption of agricultural conservation practices (ACPs). Thus, identifying the most effective ACPs is critical.

Synthesize information from studies of ACP effectiveness on DRP losses across various site-specific conditions in agricultural landscapes in the Lake Erie basin to gain better insights on how to reduce DRP loading to the lake.



POC: Yongping Yuan
Internal partners: Katie Flahive, OW; Region 5, Ohio EPA

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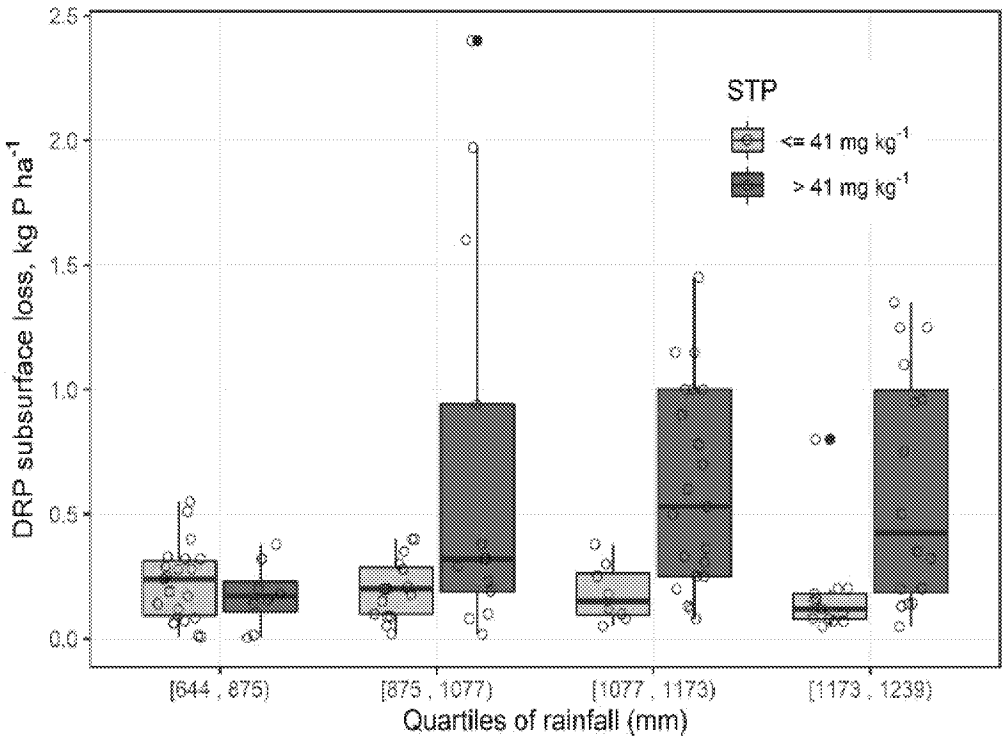
Management Options for Water Quality Improvement of Lake Erie

Result: Cropping systems involving soybean and cover crops, had no impact on DRP surface losses. No-till and conservation tillage enhanced DRP losses compared to conventional tillage, particularly for soils with high SOM and/or high clay content.

In fields with lower soil test P (<=41 mg kg-^{1}), rainfall had almost no impact on DRP subsurface losses; higher rainfall substantially enhanced DRP subsurface losses from fields with higher STP.



Impact: Better understanding of the effectiveness of practices to limit DRP losses can guide implementation to achieve better results.

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EPA

Office of Research and Development

BOSC Meeting SSWR Nutrients and HABs

December 1-2, 2021

Tools and Approaches for Implementing and Tracking Nutrient Reductions

Jana Compton, Ph.D.

Center for Public Health and Environmental Assessment

ED_006247N_00002426-00017

Comparing Landscape Nutrient Inputs to U.S. Water Chemistry Over Time

National Rivers and Streams Assessment, National Nutrient Inventory

Issue: Tracking effects of nutrient management on nutrient inputs and concentrations across the US.

Approach: Compare nutrient inputs to the landscape, aquatic ecosystem N and P concentrations, and drinking water.

Impact: Regional patterns of the importance of non-point source relative to other nutrient sources, and relationship to water quality.

POC: Jana Compton
Internal partners: OWOW NARS team, OST, OGWDW

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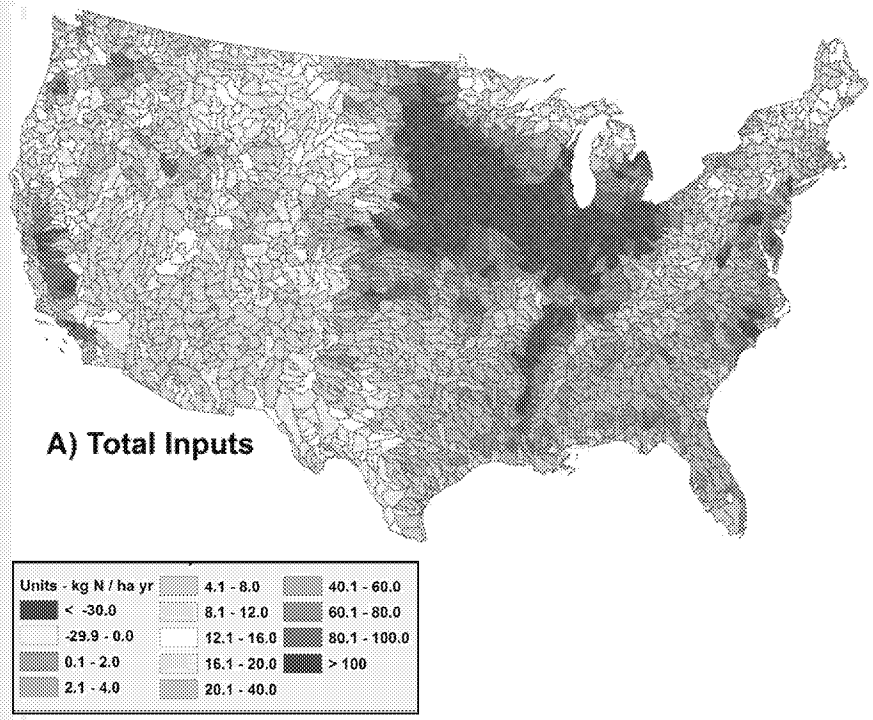
Combining EPA's National Nutrient Inventory with National Rivers and Stream Assessment Surveys

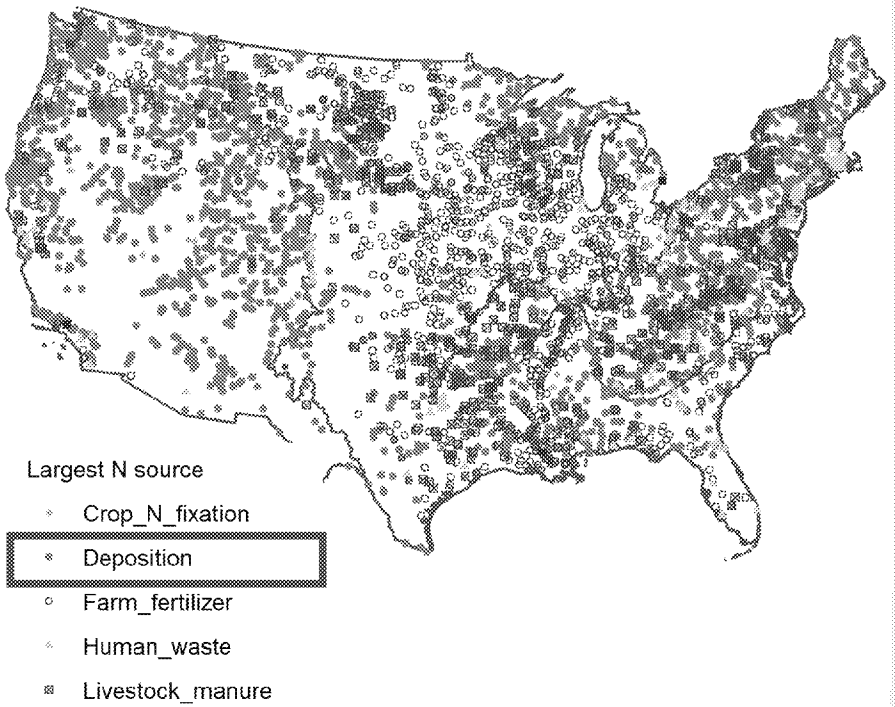
Nitrogen Inputs - 2012



- N and P inputs for 2002, 2007 and 2012
- Inputs are highest in agricultural areas.

Sabo, Clark, Rea, Compton et al. 2019 JGR Biogeosciences

NRSA surveys 00-04, 08-09, 13-14



- Largest Anthropogenic N Source varies
- Fertilizer is dominant in farmland

Jiajia Lin et al. 2021, ES&T

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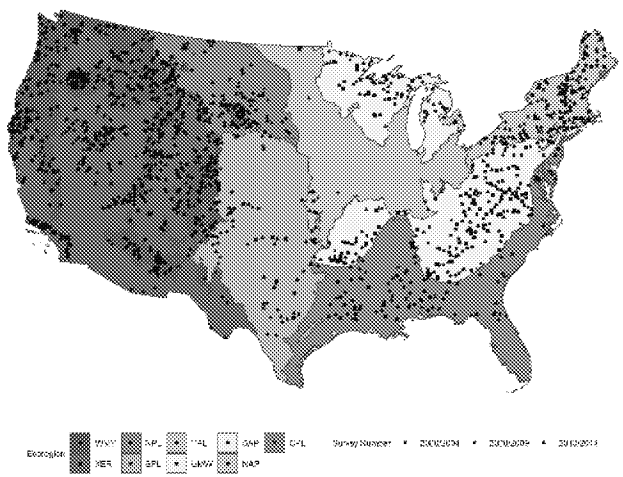
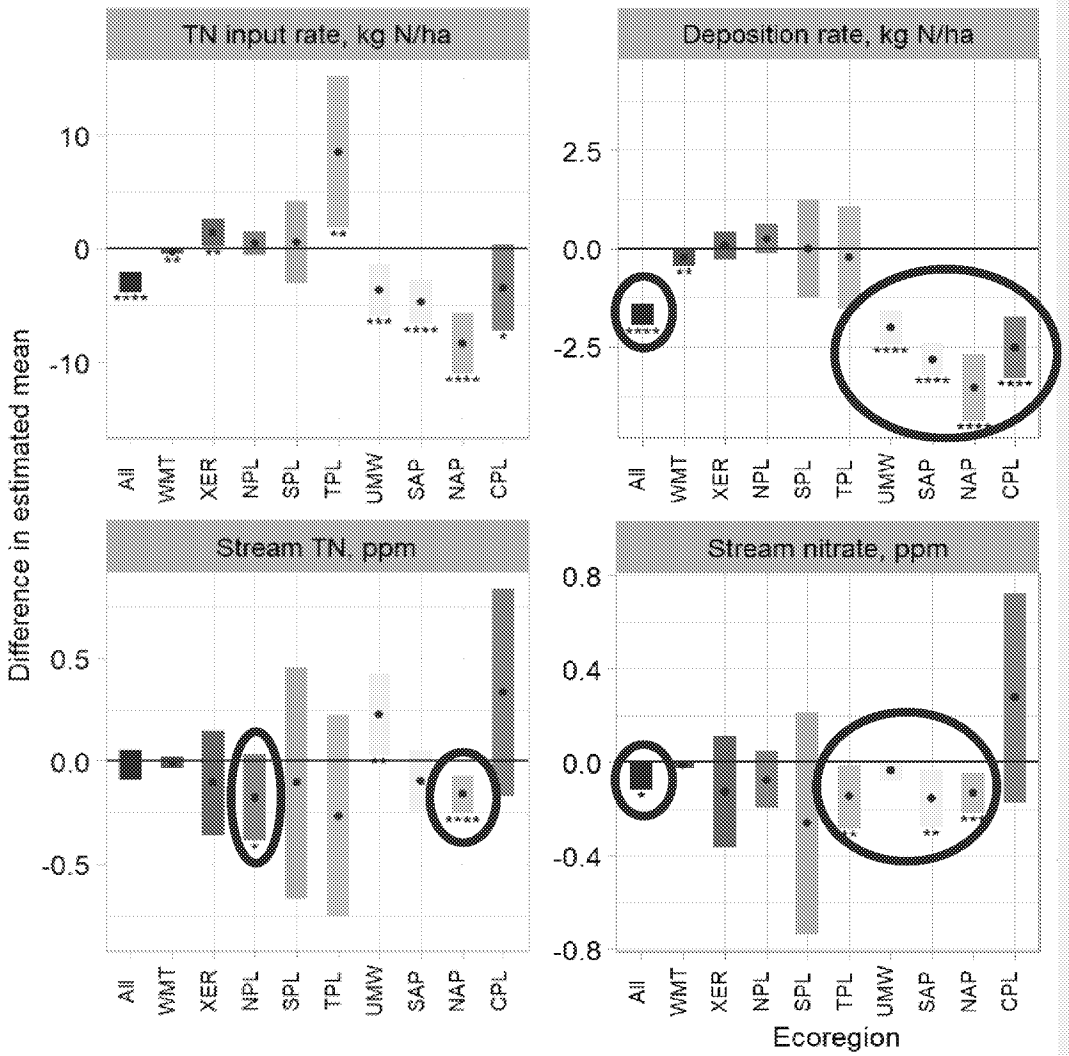
Changes in N Deposition and Stream N

- Deposition declines in Appalachians, Coastal Plain and Upper Midwest.
- For stream NO_3, significant reductions in Apps.
- For TN, significant reductions in northern Apps and Plains (climate effects "browning").



Jiajia Lin et al. In preparation



Overall Results and Impact

National Rivers and Streams Assessment, National Nutrient Inventory

- N deposition decreased from 2002-2012 by ~2 kg N ha^{-1} where deposition was the largest N source.
- Stream nitrate also declined significantly in the Northern and Southern Appalachians and the Upper Midwest.
- May be an important benefit of the Clean Air Act policies.

Jiajia Lin et al. In preparation

Toolbox for Nutrient Pollution Source Tracking: Stable Isotope and Sensor Approaches

Stable isotope indicators for nutrient pollution

Issue: What drives nitrate changes within groundwater wells?

Approach: Apply stable isotopic tracers and indicators to help pinpoint specific reasons for nitrate changes.

Result: In the South Willamette Valley Groundwater Management Area, stable isotopes provide information about sources and processing of N.

Impact: Added value to state monitoring program, allows state to better understand changes in well nitrate and develop action plans.

Weitzman et al. 2020 Env R Lett

POC: J. Renee Brooks ORD/CPHEA/PESD
External collaborators: State of Oregon, SWCDs, Farmers, Crop Advisers

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Toolbox for Nutrient Pollution Source Tracking: Isotopes and Sensor Approaches

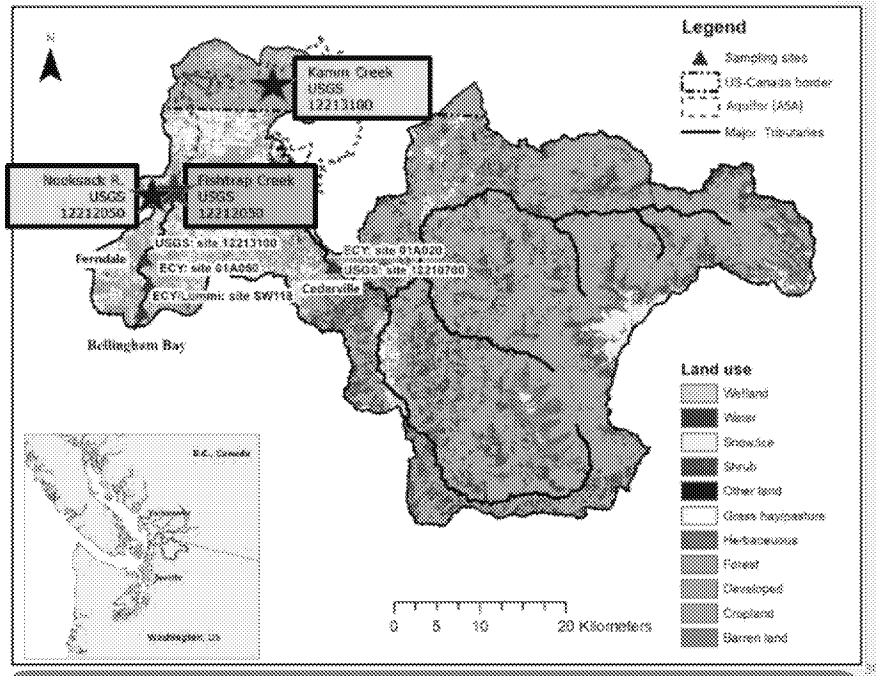
Using low-cost sensors to track nutrient reduction efforts

Issue: Can real-time nitrate monitoring provide more accurate and cost-effective results?

Approach: Sensor arrays in conjunction with community conservation programs.

Results: Lower-cost OTT ecoN compared favorably with the higher-cost SUNA and against grab samples.

Impact: Provides data to community on nitrate loading to N-limited Puget Sound. Allows comparison with manure-derived coliform.



POC: Jana Compton ORD/CPHEA/PESD
External collaborators: State of Washington, Whatcom Conservation District, USGS, Western Washington University

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Best Practices for Integrated Nutrient Management Programs

Whole system integrated nutrient management science, engineering, economics, and stakeholder engagement

Christopher Nietch, Ph.D.
Center for Environmental Measurement and Modeling (CEMM)

BOSC Meeting SSWR Nutrients and HABs
December 1-2, 2021

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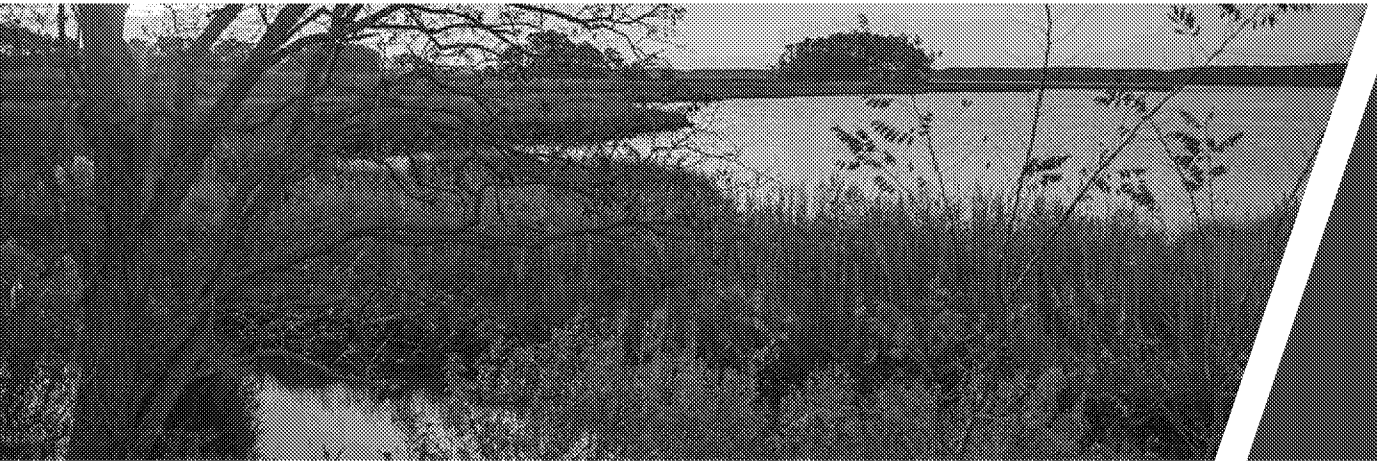
United States
Environmental Protection
Agency

Project 1:
Using Water Quality Trading (WQT) Feasibility as an Integrative Theme for Studying Nutrient Management Alternatives in Ohio



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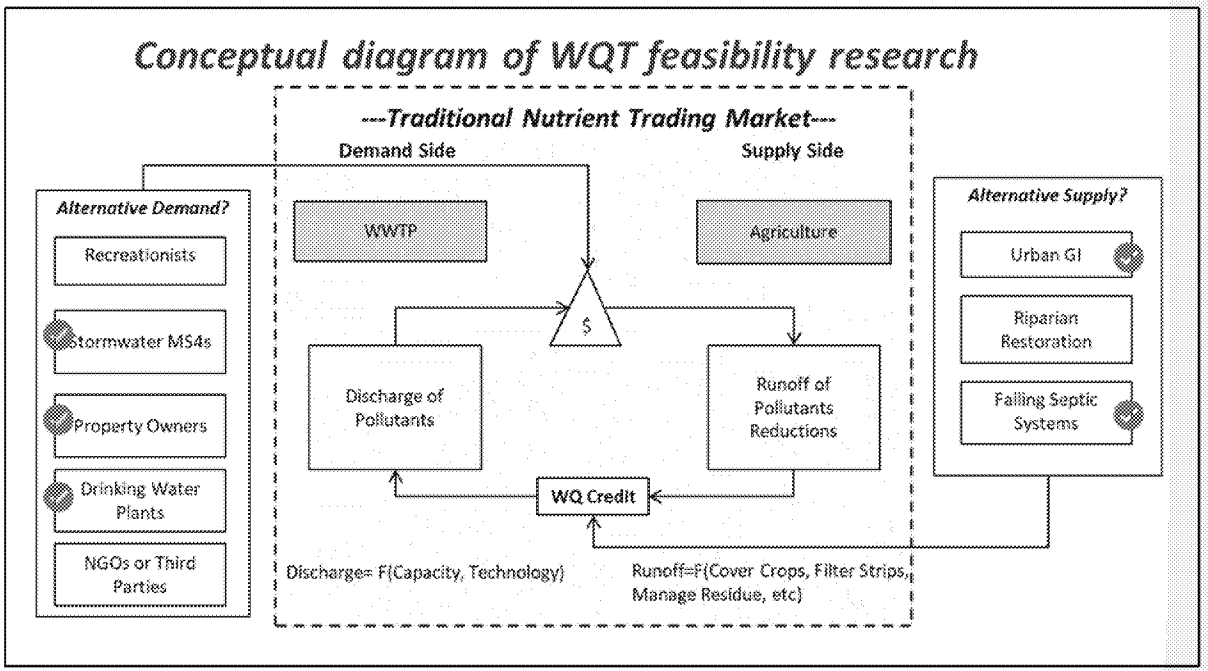
Using Water Quality Trading (WQT) Feasibility as an Integrative Theme for Studying Nutrient Management Alternatives in Ohio

Issue: Agencies and communities want cost-effective approaches and WQT is a popular consideration that uses economic incentives to change behavior through market forces, but it has had limited success.

Approach: Through partnership, research methods that help agencies set goals for nutrient reduction, allow for considerations of market-based programs for paying for nutrient reductions, and track progress toward meeting goals.



Impact: Support Ohio's "New Vision" TMDL Process, Region 5, and OWOW with focus on inland systems. Characterize best approaches for cost-effectively protecting watersheds.

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Partnership: The East Fork Watershed Cooperative (EFWCoop)

Federal Partners:

State Partners:

Local Partners:

Local Farmers

The EFWCoop relies on the partnership to

- document historical changes in water quality and coincident shifts in biotic communities,
- engage a broader stakeholder community to promote adoption of agBMPs,
- test and refine applicability of monitoring and modeling approaches, and
- help acquire funds to pay for nutrient reduction.

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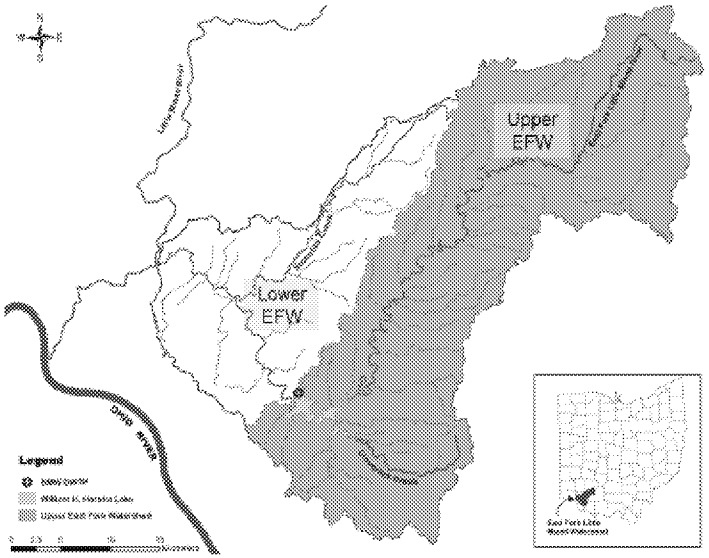
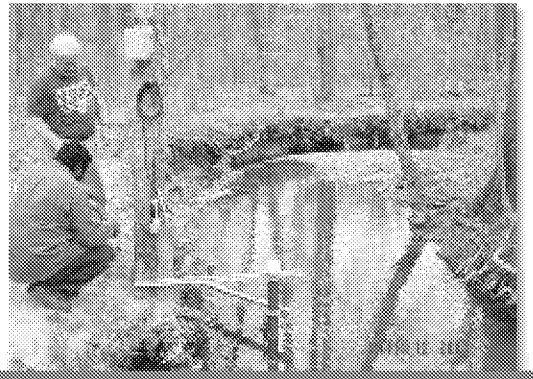
Design and Support of Strategic Monitoring and Integrative Modeling

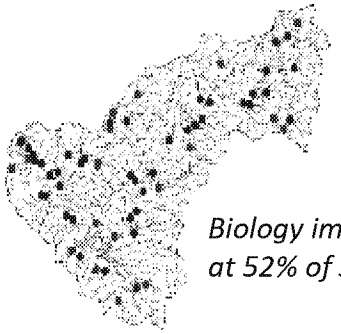
Critical Sites:

- Continuously monitored
- Low order streams draining dominant land use/soil combinations
- Account for septics, point sources, and critical uses (e.g., beaches and DWTP intakes), and
- Intermediate-scale (HUC12) to validate modeled reductions and track effectiveness.

East Fork of the Little Miami River Watershed







Biology impaired at 52% of sites

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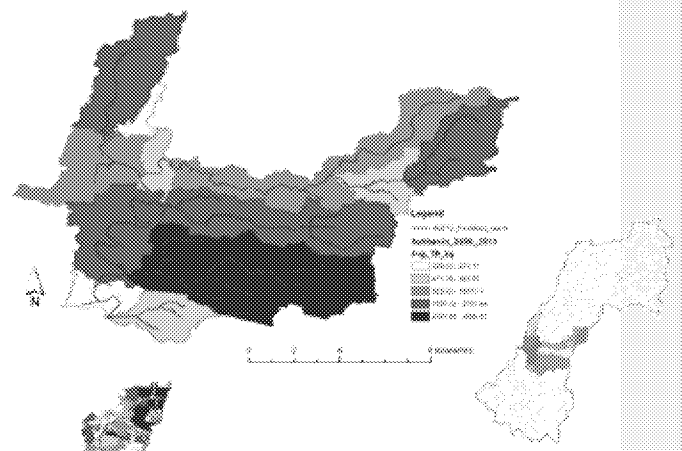
Design and Support of Strategic Monitoring and Integrative Modeling

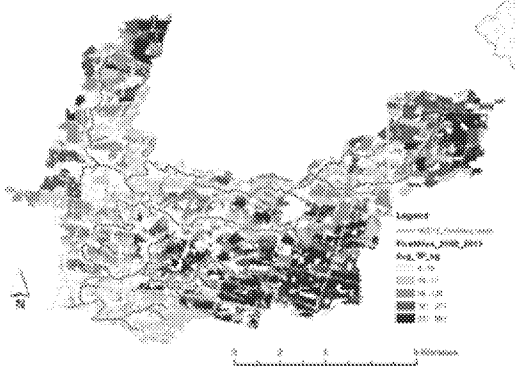
- One model approach – Soil and Water Assessment Tool (SWAT) - Paired with Calibration and Uncertainty Program (CUP).
- High spatial resolution for market-based scenarios analysis and prioritizing implementation.
- Used to set nutrient reduction requirements and TMDL load allocations at unmonitored sites.

P Runoff Maps for one of the EFWs NWQI Priority HUC12s

a) Intermediate spatial resolution – catchment scale



b) High spatial resolution– about field scale



e.g., for TP TMDL - expressed as annual loads (kg/yr)

- ***TMDL = BL+(WLA + LA) + MOS + AFG***
- ***26,982 = 19,286 + (6,773) + 770 + 154***

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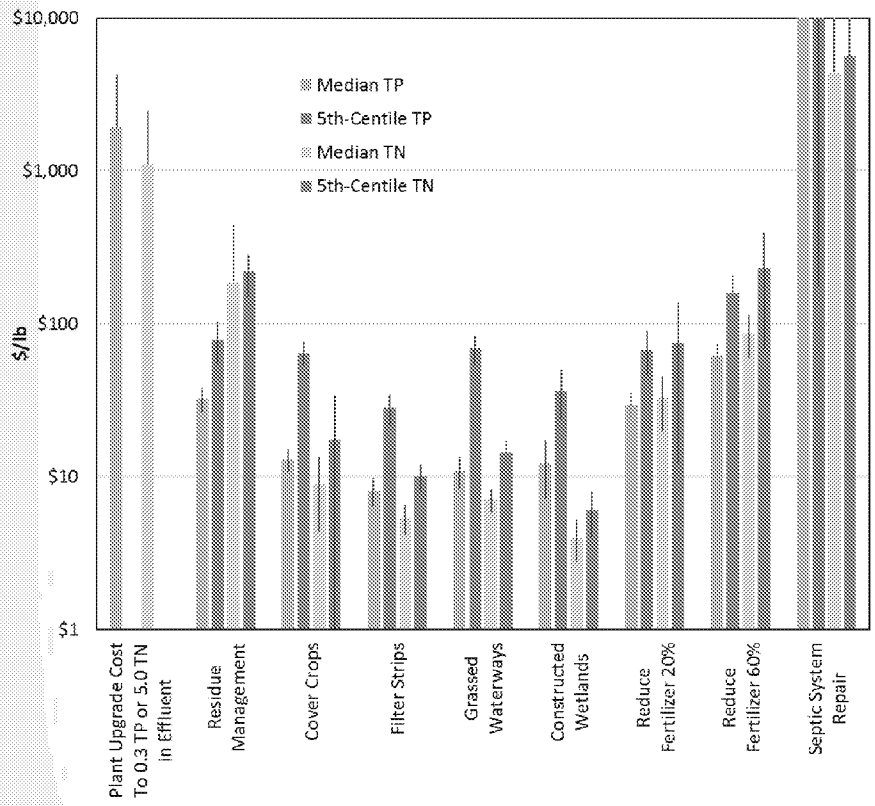
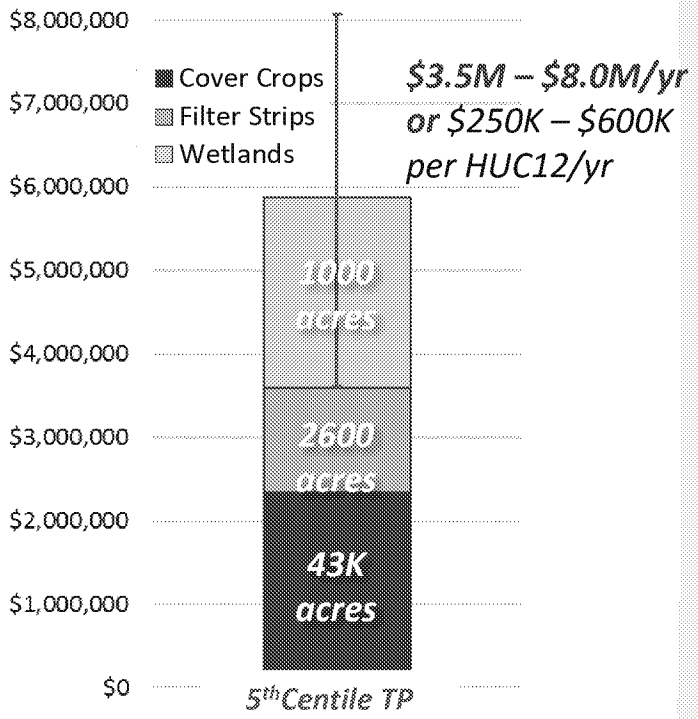
Estimate Cost Effectiveness of Management Alternatives at Watershed Scale

Watershed-wide modeled unit costs of nutrient reduction: septic repair >> WWTP upgrade >> reduce fertilizers > agBMPs



Unit costs help prioritize implementation strategies and inform market potential

Establish watershed planning implementation targets



- *Mean cost is 20% of row crop revenue.*
- *State currently spends about $250K per HUC12 in Maumee Watershed for Lake Erie.*
- *Lack of buyers to make WQT feasibility.*
- *Begin exploring pay-for-performance approach.*

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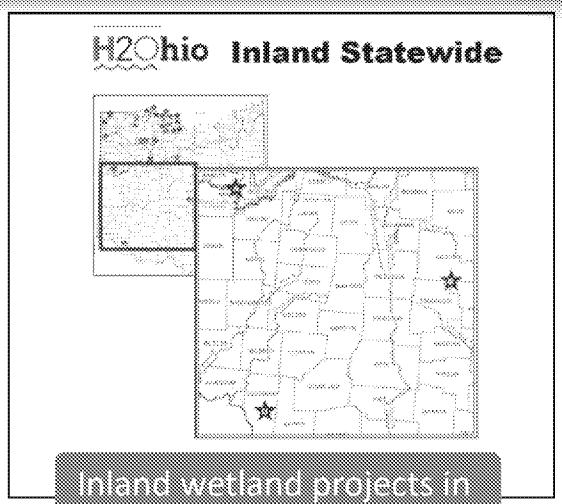
Develop Wetland Implementation Plan Through Partnership - Ongoing

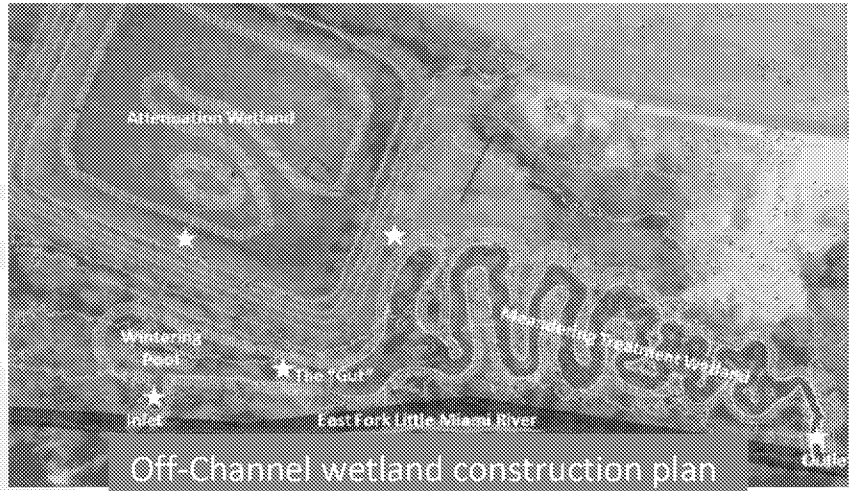
An EFWCoop supported proposal from Clermont County SWCD to Ohio DNR and US FWS.

Three components:

1. Off-Channel wetland treatment system optimized for nutrient removal.
2. Identification of priority wetland areas at watershed-scale using ACPF Tool.
3. Acquisition and construction of second or third wetland system.



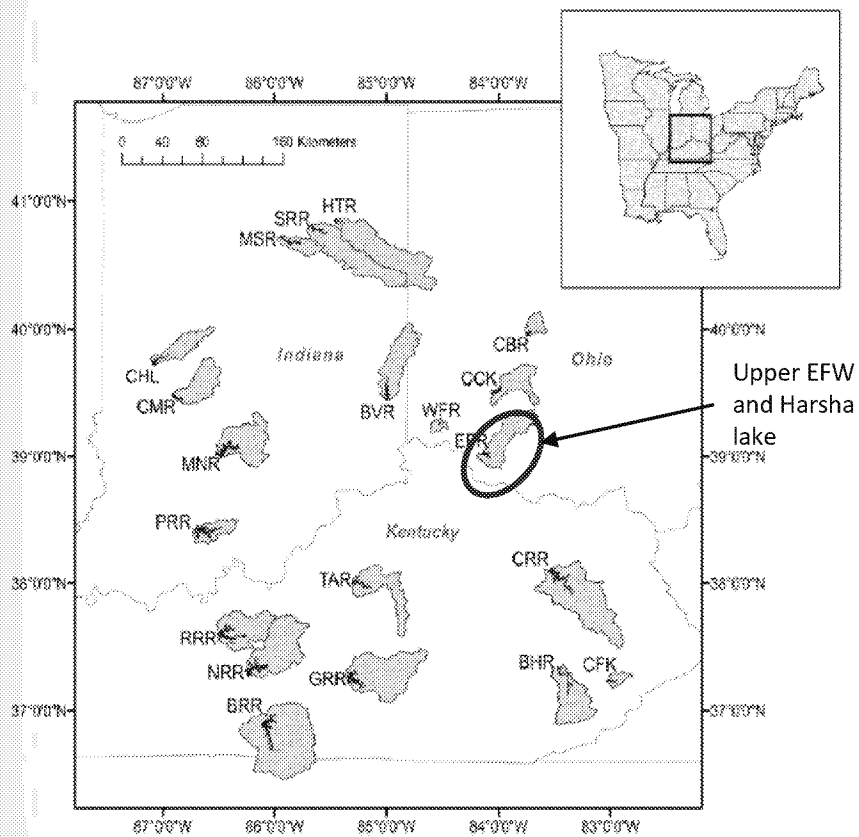
Inland wetland projects in State program



Off-Channel wetland construction plan

Innovative headwater wetland system on private farm

Share Lessons Learned and Help Implement in Other Systems



Densities of harmful cyanobacteria have been increasing in USACE reservoirs throughout the region

Communicate findings and extend partnerships:

Regional Watershed Network - OKI; Central State University; Miami Conservancy District; Caesar Creek Collaborative; Ohio Corn & Wheat; Ohio Soybean; Ohio Farm Bureau Federation; Greene, Warren, Clinton, Shelby County SWCDs; OSU Extension; Little Miami Conservancy District ; Ohio Lake Erie Commission.

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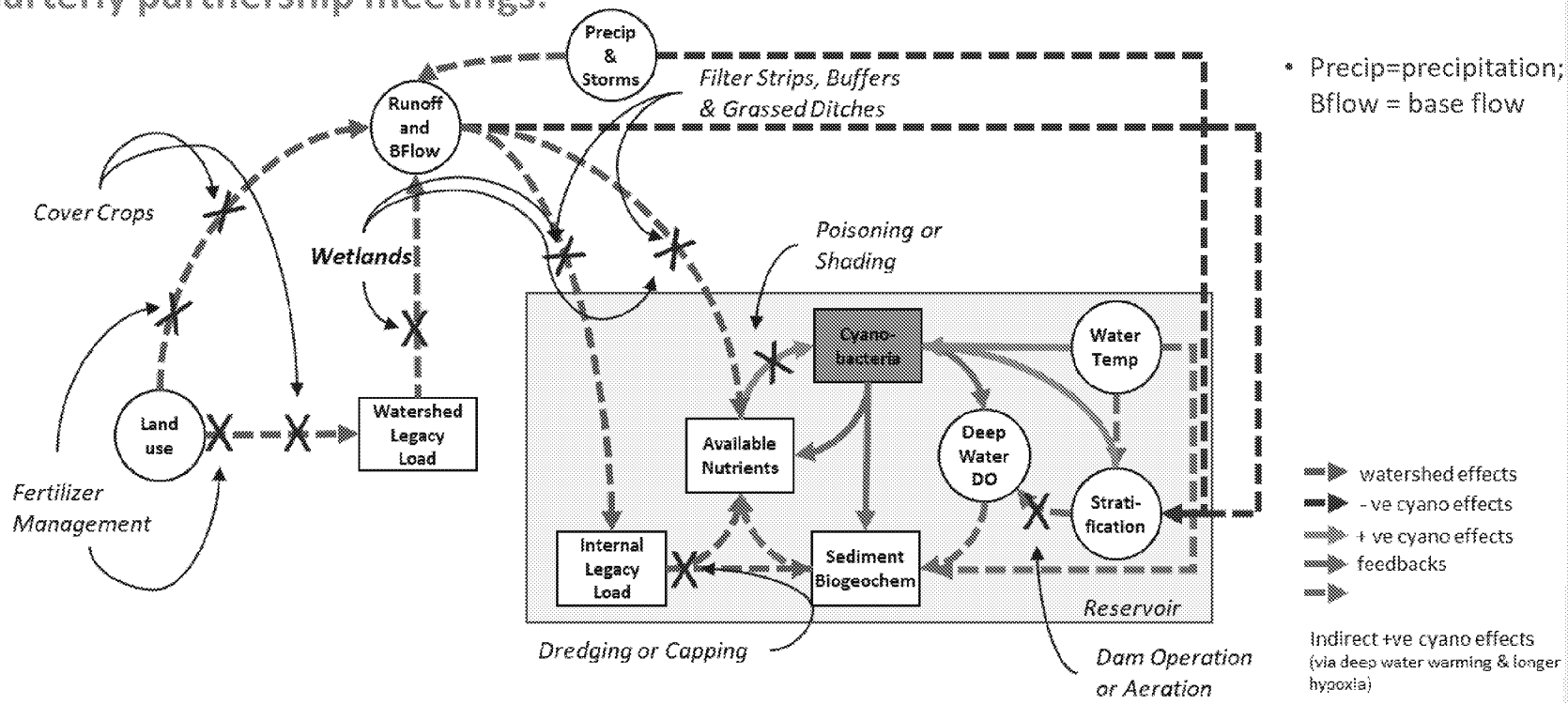
Routinely Communicate Linkages Between Important Mechanisms and Management Measures

Conceptual model driving factors for HABs and role of management alternatives discussed at quarterly partnership meetings.



Ongoing Work: TMDL development, monitoring and modeling for planning and implementation, publications in preparation or submitted related to implementing wetlands at watershed scale, evaluating economic incentives for SWP, modeling techniques for BMP effects across urban/rural interface, continue quarterly outreach effort.

Future Directions: Research pay for performance approach. Use ACPF tool to inform agBMP modeling scenarios. Monitor effectiveness of wetland implementation.

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United States
Environmental Protection
Agency

Project 2: Partnership for Improved Nutrient Efficiency (PINE)

ED_006247N_00002426-00034

Partnership for Improved Nutrient Efficiency (PINE)

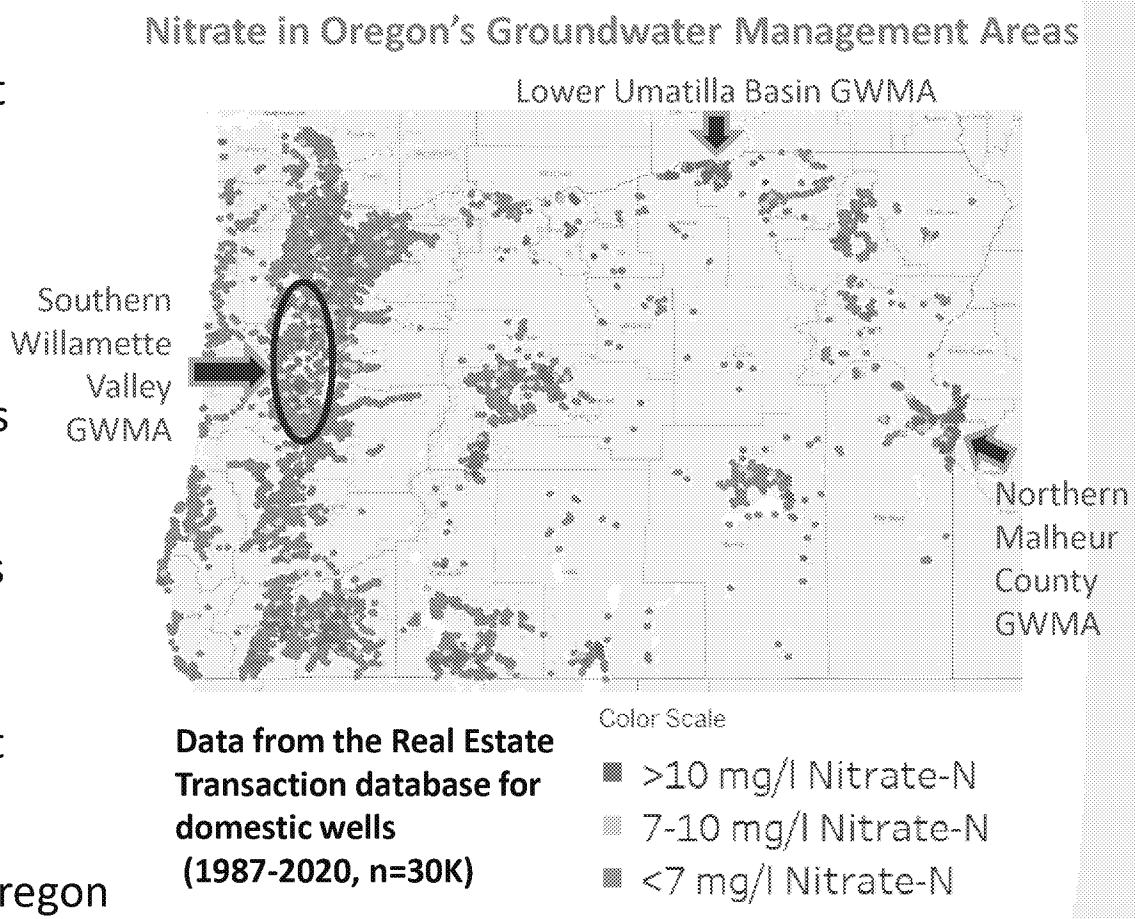
Issue: Drinking water quality in rural areas is impacted by non-point source nitrogen leaching.

Approach: Community-driven research with farmers, crop advisers, state agencies and other stakeholders. Connect with EJ issues for renters, Latinx communities.

Impact: Build science-based efforts to support nutrient management, particularly for rural areas where non-point sources are the dominant nutrient inputs.

Partners: EPA Region 10, State of Oregon

POC: Jana Compton



Data from the Real Estate Transaction database for domestic wells (1987-2020, n=30K)

ED_006247N_00002426-00035

Partnerships

Objective: Provide information for stakeholders to quantify the water quality benefits of practices that they are conducting or funding.

Project Partners:

Oregon Department of Agriculture

DEQ
State of Oregon Department of Environmental Quality

WILLAMETTE PARTNERSHIP

LCOG
LANE COUNCIL OF GOVERNMENTS

TiAER
Texas Institute for Applied Environmental Research
Tarleton State University

Oregon State University
Extension Service

Linn Soil & Water Conservation District

EPA

Benton Soil and Water CONSERVATION DISTRICT

Upper Willamette Soil and Water Conservation District

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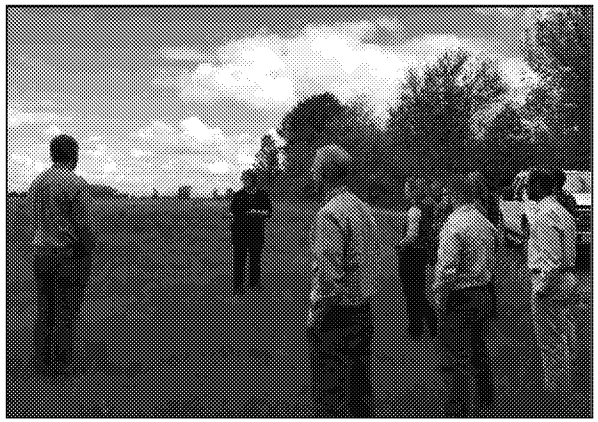
Messages for Community

- Nitrate leaching losses are concentrated in time, mainly during the fall and winter.
  - Challenge for nutrient management.
- Many crops have some N leaching.
  - ~20% of N inputs are leached as nitrate on average.
  - Poorly performing crops and bare ground can have very high leaching – cover crops could help?
- Thank you to farmers and crop advisers for working with us for entire 4-year project.



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United States Environmental Protection Agency

Project 3: Nutrients Solutions Driven Research Pilot on Cape Cod, MA

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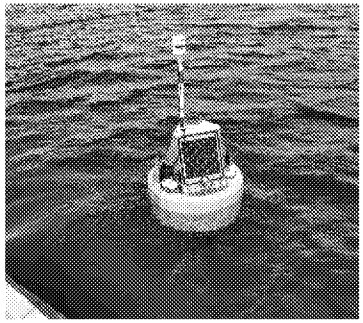
Nutrients Solutions Driven Research Pilot on Cape Cod, MA

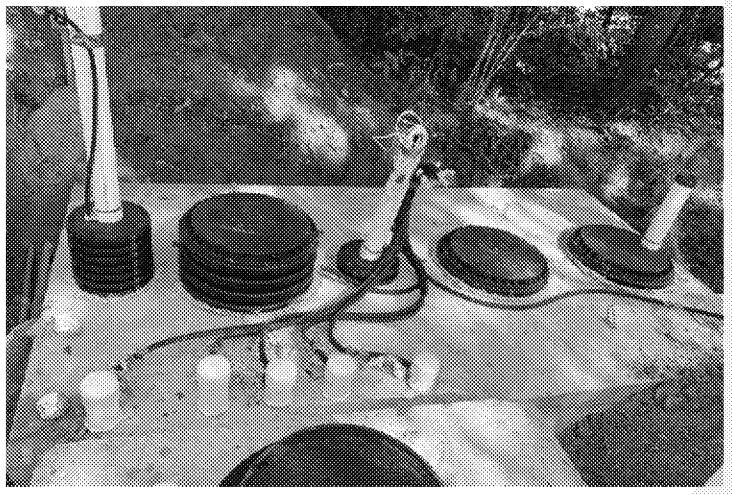
Issue: Inform watershed-based solutions for non-point source nutrient loading using non-traditional interventions – achieve TMDL goals.

Approach: Actively engage stakeholders/partners throughout the research cycle.

- Co-design research with partners.
- Assist partners' goal to solve their nutrient problem.
- Combine social and environmental research
- Transferrable solutions.

POC: Tim Gleason





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Partners and Stakeholders

Key Partners and Stakeholders

- EPA Region 1, MADEP, MADER, CCC, Town of Barnstable
- USGS, MASSTC, TNC, BCWC

Barnstable Clean Water Coalition (BCWC)

- Watershed-based solutions
- Non-traditional approaches
- Cost-effective and science-based solutions
- National model
- Aligned with ORD goals of Solutions Driven Research

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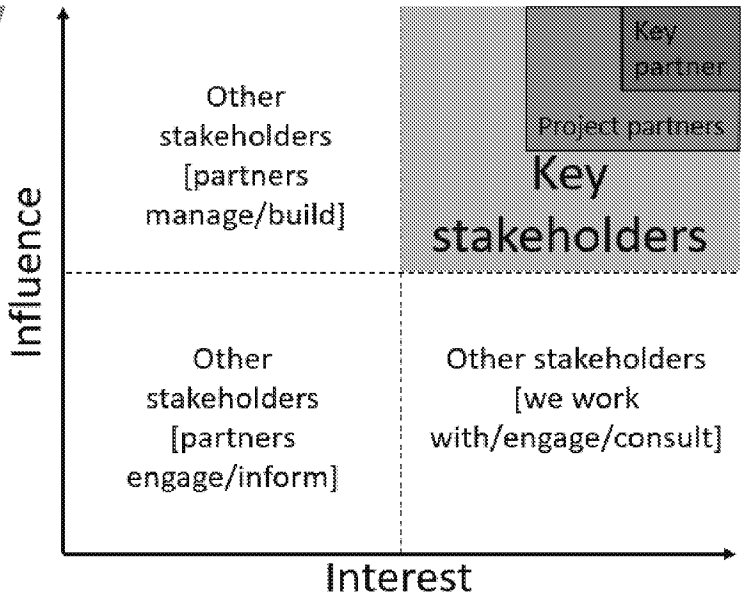
Engagement Methods

Key partner - local on the ground in the community
Engaging directly/intensively

Conducted stakeholder workshops
Problem Formulation, Cranberry Bog, Septic System workshop

Developed a range of communications materials
Communications plan, Communications report, Bulletins, Science Matters, Twitter threads, Web page, Videos



Present to a variety of audiences

- BCWC annual meeting, Town official Barnstable, MADEP, Cape Cod Commission, One Cape Summit, NEWEA, Living Observatory, Homeowners, OW, ORD, Region 1, NEHA
- Field trips/site visits
- Monthly partner calls – with range of partners

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Engagement Benefits

- Helped frame research questions to target specific research needs.
- Helped us to anticipate some of the research roadblocks.
- Developed better sense of the audience for our work and what their communication priorities are in terms of material and mode.
- We have brought together different organizations and individuals who are engaged with this type of research in a variety of ways to further conversations around data needs and management solutions.

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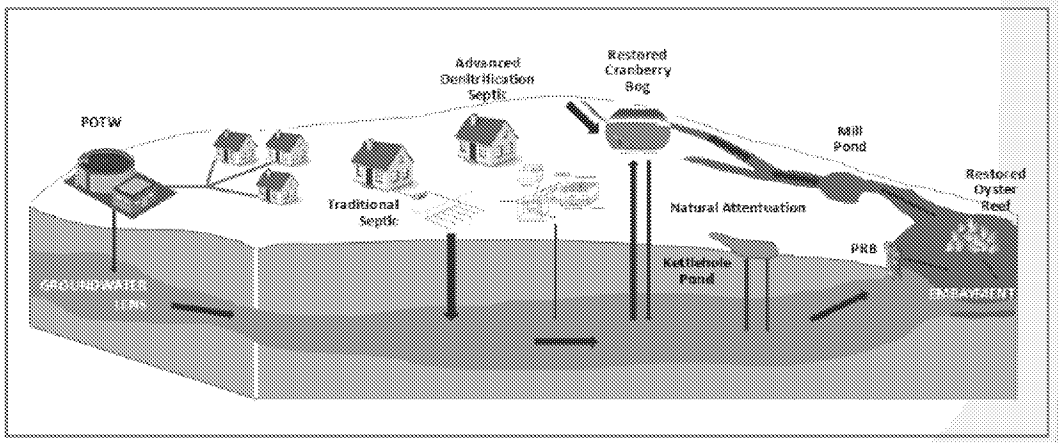
Inform Watershed-based Solutions Using Non-Traditional Interventions

Advanced Septic System Designs to Reduce Nitrate with Approaches to Reduce Legacy Nitrate

- Social Environmental Systems (SES) approach
- Baseline monitoring
  - Groundwater, surface water, benthic condition
- Pilot Interventions using integrated social environmental research approach
  - <u>Source control - Innovative Septic Systems</u>
  - Groundwater
    - Permeable Reactive Barriers
    - Cranberry bog restoration
  - Sediment
    - Dredging
  - Water column – Oysters
  - HABs (freshwater)



POC: Tim Gleason

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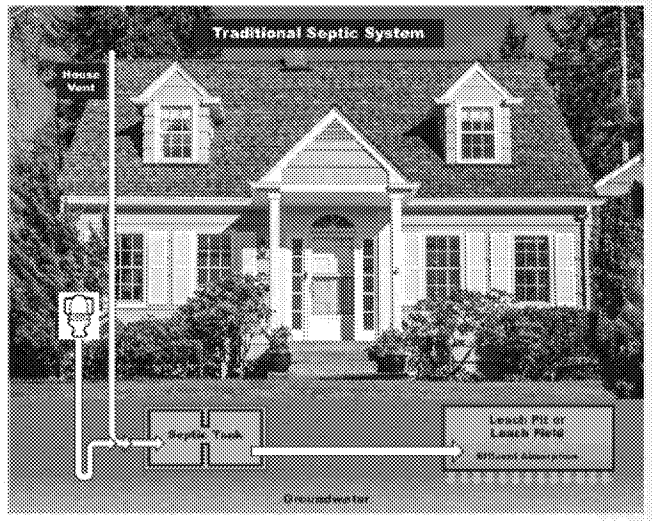
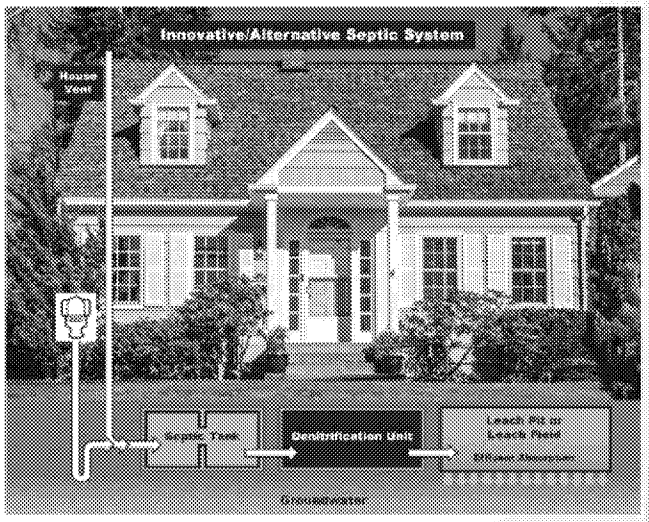
Key Points

Engagement, Relationships, Partnership, Trust

- Co-development of research and problem solving.
- Integrate social science into research efforts.
- Evaluate novel interventions at the source, groundwater, sediments, and waterbody.
- Transferable solutions.
- Translation occurs throughout the project.
- We serve as the honest/objective broker.





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Publications

- Bellmore, R.A., Compton, J.E., Brooks, J.R., Fox, E.W., Hill, R.A., Sobota, D.J., Thornbrugh, D.J. and Weber, M.H., 2018. Nitrogen inputs drive nitrogen concentrations in US streams and rivers during summer low flow conditions. *Science of The Total Environment* 639:1349-1359.
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- Sabo, R.D., Clark, C.M. and Compton, J.E., 2021. Considerations when using nutrient inventories to prioritize water quality improvement efforts across the US. *Environmental Research Communications* 3:045005.
- Weitzman, J.N., Brooks, J.R., Mayer, P.M., Rugh, W.D. and Compton, J.E., 2021. Coupling the dual isotopes of water (δ^2H and $\delta^{18}O$) and nitrate ($\delta^{15}N$ and $\delta^{18}O$): a new framework for classifying current and legacy groundwater pollution. *Environmental Research Letters* 16:045008.

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Questions?

Charge Question 2

While EPA, states, and tribes have made great efforts toward reducing nutrient pollution nationwide, it is still a challenge to identify best practices for implementing interventions and tracking their effectiveness to meet nutrient reduction goals in a comprehensive manner.

To address this issue, SSWR Research Area 6 focuses on:

1. applying tools, technologies, and best practices for nutrient management
2. monitoring and tracking the effectiveness of nutrient reduction strategies
3. working closely with stakeholders to apply management practices and monitoring within their nutrient reduction programs.

What suggestion(s)/ recommendation(s) does the Subcommittee have on ORD's implementation of this research area, particularly related to evaluating the effectiveness of nonpoint source nutrient reductions at local to large regional scales?

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SAFE AND SUSTAINABLE WATER RESOURCES RESEARCH PROGRAM

Research Area 5:
Science to Support Nutrient-Related Water Quality Goals

BOSC SSWR Subcommittee Meeting on Nutrients and HABs

December 1-2, 2021

This document has been reviewed in accordance with U.S. Environmental Protection Agency policy and approved for publication.

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BOSC Meeting SSWR Nutrients and HABs
December 1-2, 2021

Background and Research Overview and Highlights

Heather Golden, Ph.D.

Center for Environmental Measurement and Modeling (CEMM)

ED_006247N_00002427-00002

Background

- Nutrient pollution: widespread water quality problem with consequences for human and environmental health, environmental condition, and the economy.
- ORD research: supports the development of new information and tools for OW, states, tribes, and local decision-makers to establish and achieve water quality goals.
- Science can inform recommendations to protect different types of waters and different designated uses (e.g., aquatic life, recreation, and drinking water source protection).

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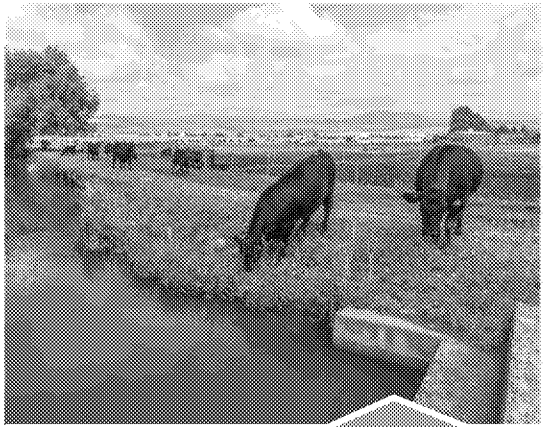
ORD's Nutrients and HABs Research

Research Area 4: Assessment and Management of HABs

Research Area 5: Science to Support Nutrient-Related Water Quality Goals



Research Area 6: Nutrient Reduction Strategies and Assessment

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Science to Support Nutrient-Related Water Quality Goals

This research advances the science to inform decisions related to nutrient and co-pollutant water quality goals.

Provides information, methods, or approaches to determine nutrient-related impacts in watersheds and water bodies, which helps determine protective endpoints for aquatic life.

Relates the condition of watersheds and water bodies to nutrient loading, water quality, and aquatic life.

Links these results in approaches that identify areas that may most effectively respond to restoration and recovery.

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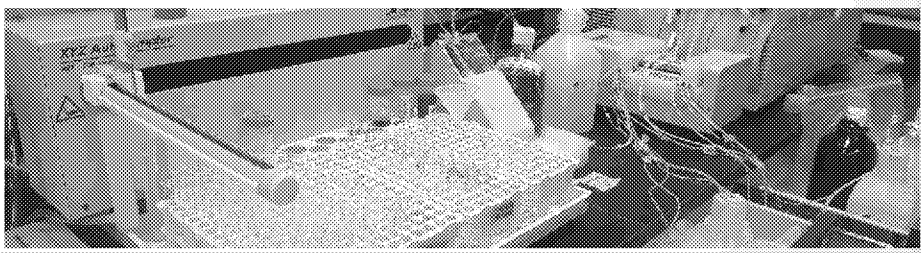
Approaches and Partnerships

- **Approaches**: Monitoring (e.g., nutrients, DO, sediment profiles), laboratory analyses (e.g., DNA metabarcoding), remote sensing (e.g., of seagrass distributions), modeling (e.g., statistical/process-based), and decision-support tools synthesizing several approaches.
- **EPA-Based Collaborations**: Research Centers (CESER, CPHEA, CEMM), Office of Water, Regions
- **External Collaborations**: States, Tribes, other federal agencies (e.g., USGS, USDA), academic institutions, NGOs



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Characterizing Nutrient-Related Impacts Across Multiple Spatial Scales

Overview:

- Advance understanding of nutrient related impacts across waterbodies and watersheds.
- Help determine protective endpoints for aquatic life in different waterbody types for a range of endpoints and range of scales.
- Will provide tools that allow partners to more effectively assess nutrient-related impacts.

Research Products:

Approaches for understanding nutrients and impacts across space and time.

Novel methods to assess the status of nutrient-sensitive aquatic life endpoints and nutrient indicators.

Tools to support nutrient criteria development and attainment of water quality goals.

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Example Research Projects

- Quantifying dissolved oxygen and ecosystem metabolism in estuaries across space and time using data and models.
- Characterizing nutrient-enhanced acidification and hypoxia (NECAH) in space and time and assessing vulnerability to acidification.
- Using remote sensing to map seagrass distribution and response to anthropogenic alterations.
- Expanding the development of DNA Nutrient-Indicator metabarcoding for biota to improving temporal monitoring under changing nutrient conditions.

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Trajectories of Aquatic Ecosystem Responses to and Recovery from Nutrient Pollution

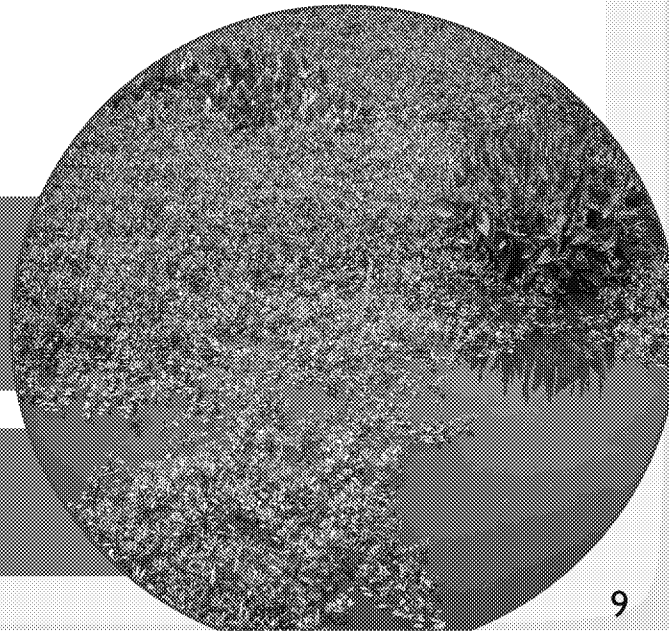
Overview:

- Assesses the responses of freshwater and coastal ecosystems to nutrients and related co-occurring stressors (e.g., nuisance algae, hypoxia, acidification) and the processes and trajectories associated with recovery from those stressors.
- Research focuses on the development, use, and analysis of model results, experiments, existing datasets, and published literature.
- Products developed will provide science to support CWA decisions related to TMDLs, nutrient reduction projects, and nutrient criteria development.

Research Products:

Assessment of nutrient transport to, fate within, and effects on related stressors within freshwater and coastal ecosystems.

Assessment of how freshwater and coastal ecosystems respond to nutrient reductions .



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Example Research Projects

- Modeling to improve prediction of nutrient-related water quality responses.
- Using molecular biological response variables to evaluate water quality.
- Assessing benthic invertebrate responses to nutrient-associated stressors in estuaries.
- Developing national index of estuarine vulnerability to nutrient-enhanced coastal acidification.

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Scientific Approach for Identifying Which Watersheds and Water Bodies May Most Efficiently Attain Water Quality Goals

Overview:

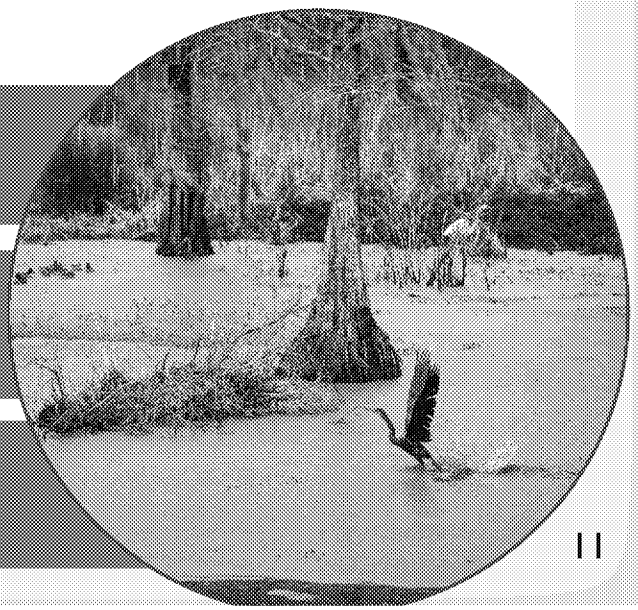
- Advances the science needed to inform decisions to prioritize watershed nutrient sources for reduction options.
- Data, models, and tools are used to identify watersheds and water bodies that may most effectively respond to restoration and recovery efforts.
- Products produced within this Output will provide science to support CWA decisions related to TMDLs, nutrient criteria development, and recently prioritized market-based programs (e.g., water quality trading).

Research Products:

Large-Scale Watershed Assessments to Characterize Potential Gradients of Nutrient Sources and Sinks.

Landscape-Scale Tools and Data to Identify Watershed Locations for Targeting Nutrient Reduction, Phase 1.

Landscape-Scale Tools and Data to Identify Watershed Locations for Targeting Nutrient Reduction, Phase 2.



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Example Research Projects

- Expanding a Decision Support System to determine cost-effective nutrient reduction strategies in sub-watersheds.
- Quantifying the spatial and temporal effects of wetlands on large river basin nutrient delivery.
- Using a recently develop national nutrient inventory to link historic nutrient surpluses to water quality conditions across the US.
- Applying nutrient spiraling and other process measurements to characterize how an aquatic ecosystem may respond to stream restoration.

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BOSC Meeting SSWR Nutrients and HABs
December 1-2, 2021

Research Focused on Novel Methods to Assess Nutrient Indicators

Cheryl Brown, Ph.D.

Center for Public Health and Environmental Assessment (CPHEA)

ED_006247N_00002427-00013

Research for Characterizing Nutrient-Related Impacts Across Multiple Spatial Scales

Research Products/Focal Areas:

Approaches for understanding nutrients and impacts across space and time.

Novel methods to assess the status of nutrient-sensitive aquatic life endpoints and nutrient indicators.

Tools to support nutrient criteria development and attainment of water quality goals.

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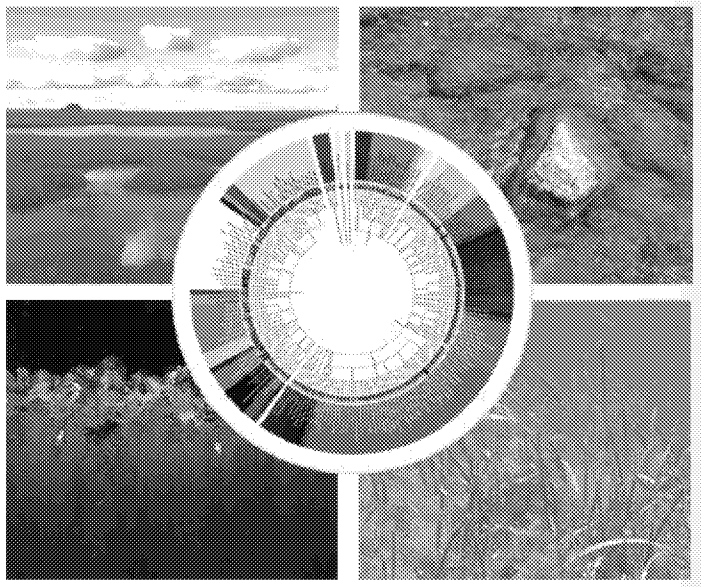
Novel Methods to Assess the Status of Nutrient-Sensitive Aquatic Life Endpoints and Nutrient Indicators

Issue: There is a need for meaningful and cost-effective measures to assess environmental responses to nutrient pollution and eutrophication for compliance monitoring and to improve nutrient reduction strategies.

Approach: We use a combination of methods and tools to examine responses to nutrient inputs, including biogeochemical indicators, molecular approaches, and remote sensing technologies to examine environmental responses to nutrients in estuarine and freshwater systems across a range of temporal and spatial scales.

Result: Tools developed will improve the consistency and speed of identification of nutrient indicators and nutrient-sensitive biota that respond to changing nutrient conditions in watersheds.



Agency Research Driver(s):
- CWA
- N-STEPS (nutrient monitoring)

Impact: Resource managers are equipped with novel and refined approaches to gather information to make sound decisions toward addressing eutrophication problems.

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Approaches to Identify Drivers of Carbonate Chemistry in Estuaries

Issue: Approaches are needed to quantify the impacts of climate change and land-based sources of acidification in estuarine systems.

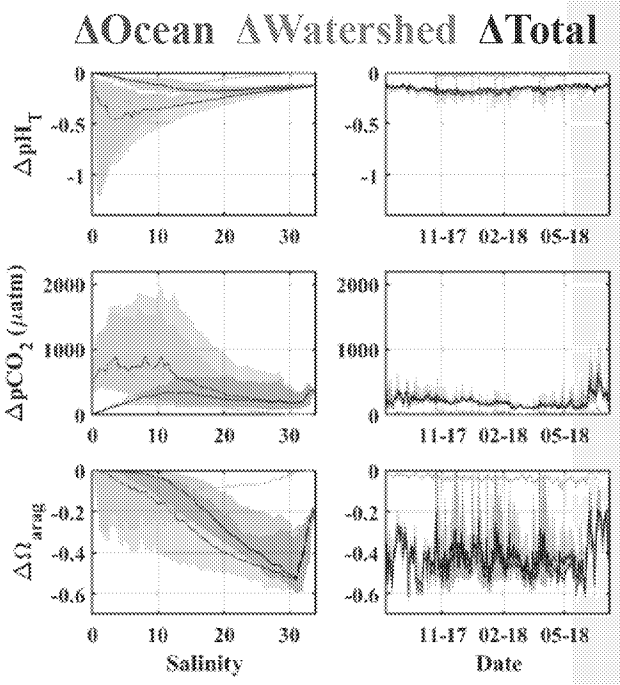
Approach:

- Combined continuous monitoring data with targeted synoptic sampling of coastal ocean, estuary, and watershed biogeochemistry.
- Parsed out present-day impacts of climate change and anthropogenic land use to estuary acidification dynamics.
- Identified acidification "hotspots" in time and space.

Results:

- Publications/presentations: 2019 ASLO Meeting; 2020 EPA Numeric Nutrient Criteria Webinar; Publication and EPA Report on OA monitoring in 7 NEPs; Manuscript on climate change and watershed impacts.
- Ongoing work: Supporting OR DEQ with development of ocean acidification and dissolved oxygen assessment method; Analysis of threshold exceedances for endemic organisms.

Future Directions: Assessment of acidification drivers and biological impacts across all NEP OA monitoring sites.



Partners: Tillamook Estuaries Partnership, EPA Office of Water, Region 10, Oregon Department of Environmental Quality

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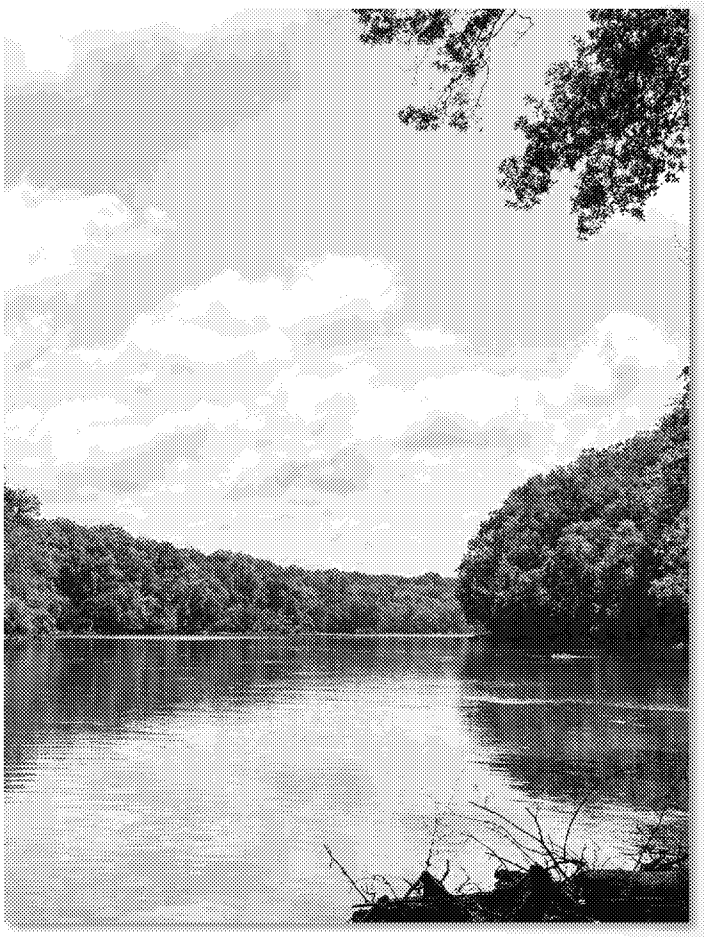
Evaluating Dissolved Oxygen Variability and Effects

Issue: Dissolved oxygen is spatially and temporally variable, making it difficult to characterize and to associated impacts with causes.

Approach:

- Evaluate time series of bottom water oxygen and biophysical drivers using continuous wavelet transforms to relate drivers and responses.
- Collect continuous DO time series at New England sites with nutrient restoration efforts.
- Currently evaluating ecosystem metabolism and DO effects at sites, while building new analysis methods.

Results: Article submitted (Duvall et al., *in review*)



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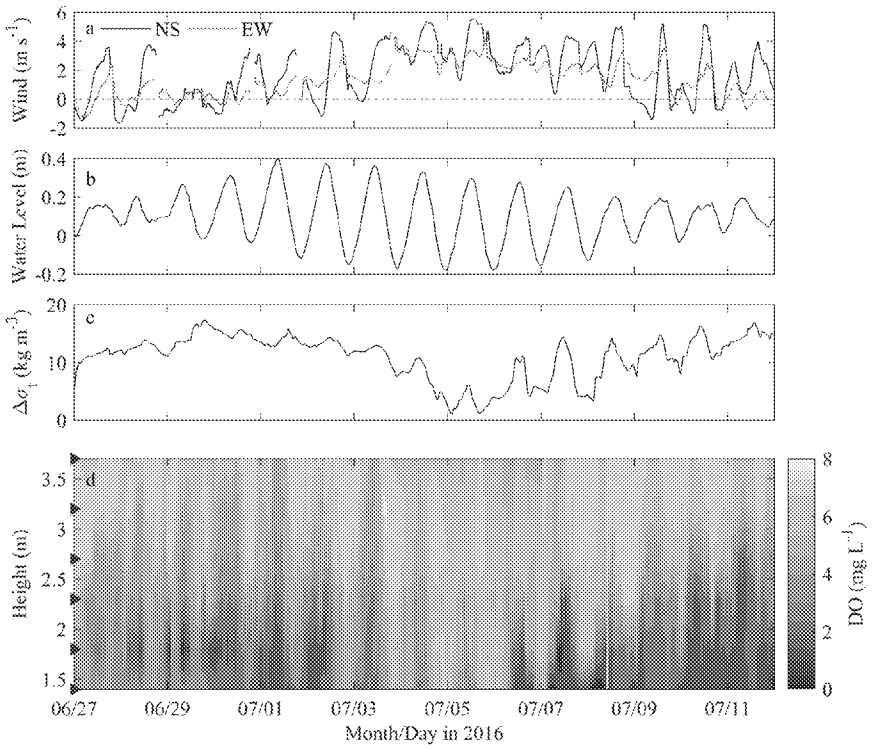
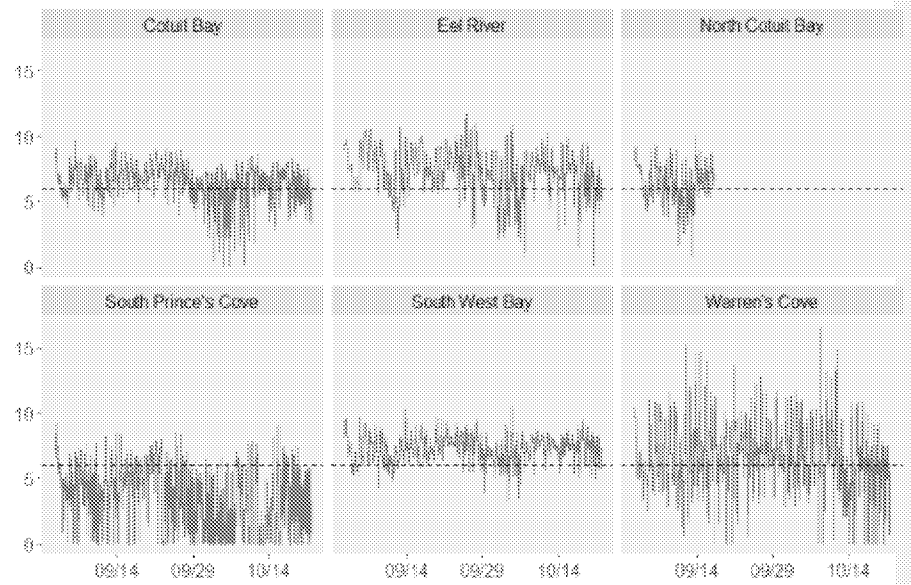
Evaluating Dissolved Oxygen Variability and Effects



Complex patterns of DO in Pensacola Bay, FL are related to physical and biological drivers using continuous wavelet transforms. From Duvall et al. (in review)



Dissolved oxygen in shallow Cape Cod estuaries during fall 2020. Data from J. Hagy

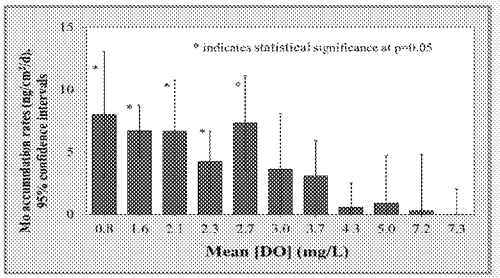
ED_006247N_00002427-00018

Using Molybdenum (Mo) in Sediments to Establish Relationship Between Nitrogen Loading and Frequency of Hypoxia

Issue: Managers need integrated measures to assess frequency of hypoxia and relate to nitrogen loading.

Approach: To establish hypoxic threshold of nitrogen loading…

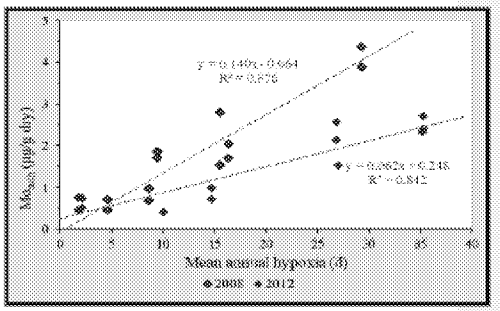
- Determine quantitative relationship between Mo in surface sediments and mean annual duration of hypoxia in field sediments.
- Use relationship to map occurrence, duration of hypoxia; relate to N load estimated from land use model, normalized for dilution and tidal flushing.
- Derive limit to N loading based on reference/threshold approach.



Status:

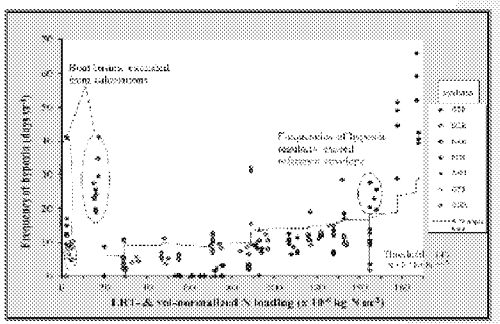
Publications/presentations:

- Boothman W. S. and Coiro L. L. (2009) Laboratory Determination of Molybdenum Accumulation Rates as a Measure of Hypoxic Conditions. *Estuaries and Coasts* **32**(4), 642-653
- Boothman, W.S., Coiro, L.L., Abdelrhman, M., and Nelson, W.G., "Assessing the prevalence of hypoxia via Mo accumulation in coastal sediments: the influence of N loading and local residence time," Coastal and Estuarine Research Federation, 22nd Biennial Conference, San Diego, November 2013



Ongoing work:

- Boothman W. S., Coiro L. L., and Moran, S. B (in prep) Molybdenum accumulation in sediments: a quantitative indicator of hypoxic water conditions in Narragansett Bay, RI. *Estuarine and Coastal Shelf Science*.



Future Directions:

- Use of molybdenum accumulation in sediments to develop hypoxia-based limits for nitrogen loading to coastal embayments.
- Develop a modern history of hypoxia in Narragansett Bay.

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Monitoring Seagrass with Satellites

Issue: Monitoring of seagrass change is difficult and infrequent.

Approach: Quantify seagrass with machine learning and satellite data

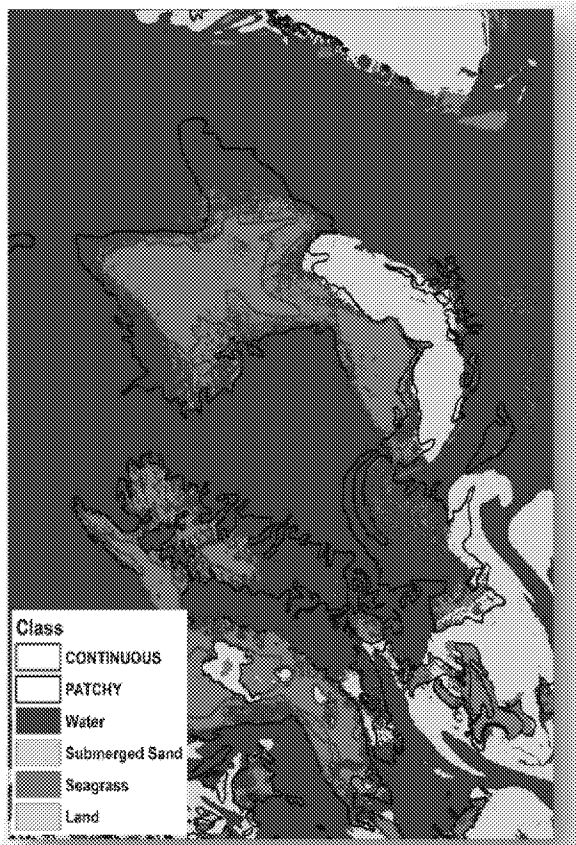
- Semi-automated method to quantify seagrass area, leaf area, and carbon.
- Use of free government satellites include Landsat and Sentinel-2.
- Use of commercial satellites including WorldView and Planet Scope.
- Developing solutions for quality control such as sediment, glint, and organic matter flags.

Partners: Old Dominion University, NASA Commercial Smallsat Data Acquisition Program, Maxar, Planet, National Geospatial Intelligence Agency, EPA Regions 1, 2, 3, and Chesapeake Bay Program SAV Workgroup

Status:

Publications: Methods published (3 papers, 3 conf. proceed., tech report) and time series analysis and broad geographic examples are ongoing.
Future directions: Transition from research to applications. Improved automation and broader applicability including more location types and different water conditions.

Deep Convolutional Neural Network classification of Back Sound, NC with WorldView-2 satellite.



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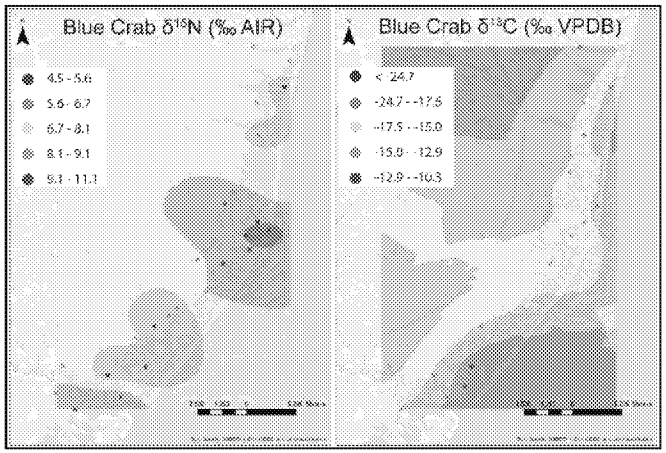
The Role of Eutrophication in Coastal Wetland Fragmentation, Barnegat Bay, New Jersey

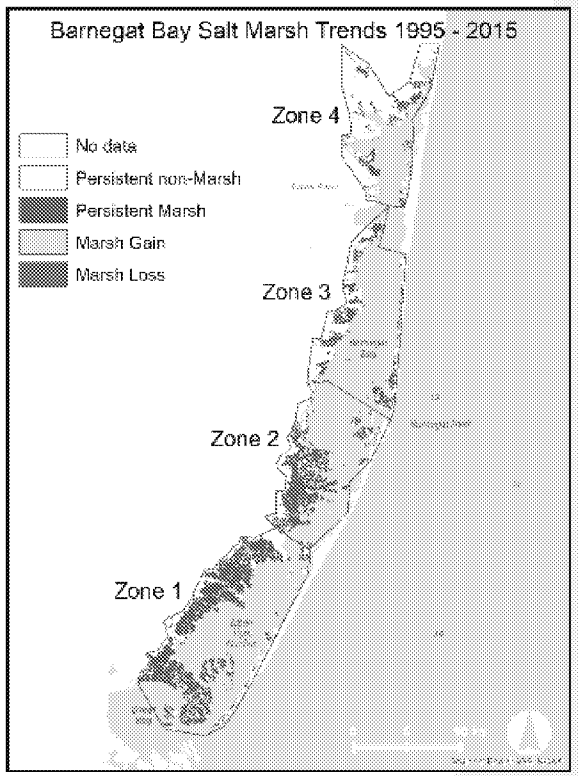
Issue: Local managers are concerned that nutrient driven eutrophication is causing salt marsh fragmentation which, in turn, is affecting coastal food webs.

Approach: By integrating biogeochemical indicators, remote sensing technologies, stable isotope analyses, and nutrient stoichiometry, coastal marsh fragmentation and linkages with eutrophication will be documented.

Status:

- Manuscript in preparation on remote sensing observations.
- Manuscript in preparation on stable isotope work.
- Archival and modern shells are being processed for shell bound nitrogen content and isotope composition.





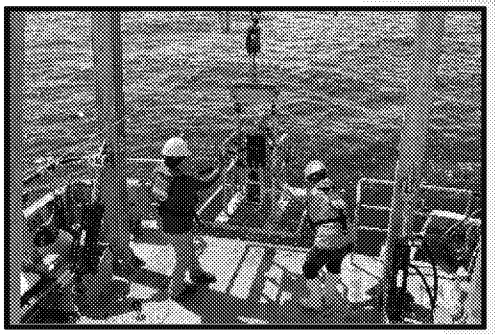
Partners: Region 2, Barnegat Bay Partnership, & NRCS Soil Science Division

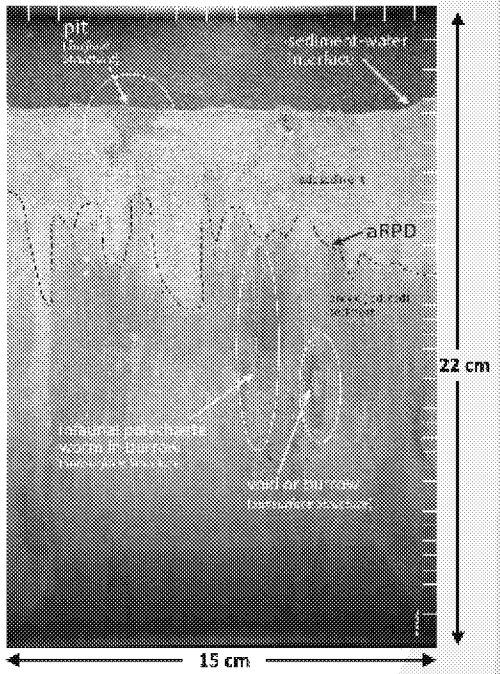
ED_006247N_00002427-00021

Development of a Consistent Methodology for Assessments using Sediment Profile Imagery (SPI)

Issue: There is a need for consistency in Sediment profile imagery (SPI) analysis and interpretation for biological assessment applications.

Approach: Research uses a combination of methods and tools to evaluate the benthic community responses to stressors in marine and freshwater systems; SPI data collected from these and past studies to be assembled into an image and feature reference library to facilitate consistency in SPI data analysis and interpretation.





Status:

Presentations: CERF'19, CERF'21; IAGLR '19; Papers in preparation

SPI surveys completed in Lake Ontario (2018), Pensacola Bay (2019), Three Bays (2020); Analysis ongoing; Additional SPI surveys planned for Lake Erie (Summer 2022).

Ongoing work: Development of a guidance document, incorporating the image reference library, to achieve greater comparability and reduce variation in environmental assessments using sediment profile cameras, with a focus on image analysis.

Partners: Great Lakes National Program Office/EPA R5, Gulf of Mexico Division/ EPA R4, Pensacola and Perdido Bays Estuary Program (FL), Nutrients Solutions-Driven Research Pilot (MA)

ED_006247N_00002427-00022

Further Development of DNA Metabarcoding of Nutrient-Indicator Biota to Improve Temporal Monitoring for Changing Nutrient Conditions

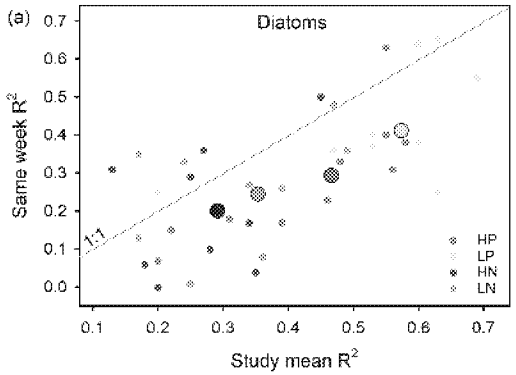
Issue: Temporal variability and antecedent nutrient conditions could confound nutrient biota relationships and affect monitoring and assessment outcomes.

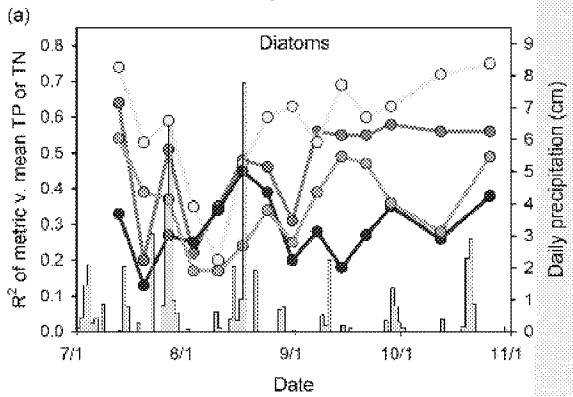
Approach: Characterizing how diatom and bacterial assemblages integrate nutrient effects over time can strengthen interpretations of monitoring results and inform decision making.

- Document weekly variability in nutrients and use DNA metabarcoding to characterize biota at 25 stream sites.
- Identify what factors affect temporal variability
- Summarize how this variability might affect nutrient-biota relationships and monitoring and assessment outcomes.

Status: 2 journal articles (published/in press) and 2 in preparation, 7 presentations.

Future Directions: Effects of nutrient concentration and ratios on ecosystems and DNA metabarcoding indicators. Analysis of NARS DNA metabarcoding with focus on regional differences in indicators and nutrient effects.





Partners: EPA Office of Water; EPA Office of Wetlands, Oceans, and Watersheds; EPA Region 5; USDA-Natural Resources Conservation Service; USACE Louisville District; Ohio EPA; 3 Ohio Soil and Water Conservation Districts

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Nutrient Dosing Studies in Stream Mesocosms

Issue: Developing the rationale for nutrient reduction goals in TMDLs by using dose-response studies in experimental streams to make better linkages among nutrients, periphyton, and macroinvertebrates.

Approach: Stream mesocosm nutrient studies.

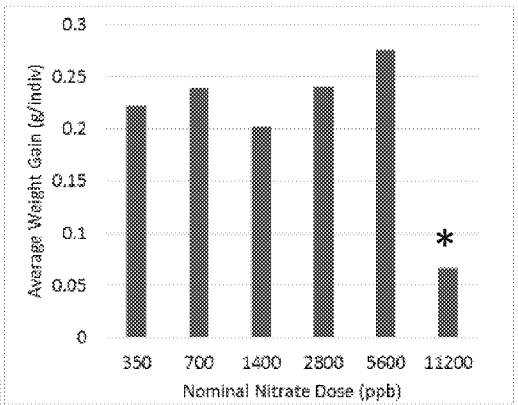
1) Nitrate Study – Nitrate doses 350, 700, 1400, 2800, 5600, 11200 ppb. Phosphate held at 60 ppb.
2) Phosphate Study – Phosphate doses 15, 40, 100, 300, 600, 1200 ppb; Nitrate held at 100 ppb.
3) N+P Study – N|P doses: 240|40, 500|60, 750|90, 1500|180, 2500|300, 3300|400.
4) N:P ratio – P Threshold Study – 2x2 factorial – Low and High N:P ratio x above and below phosphate threshold.

Status:

- Ongoing work: Testing completed, papers in presentation.
- Future directions: Analysis of stream mesocosm results to understand effects on indicators developed using DNA barcoding.

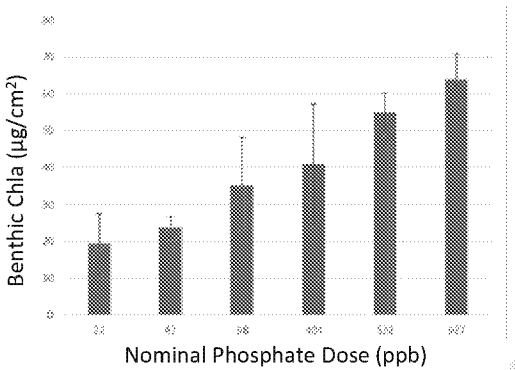
Partners: Regions 5 and 8, and Ohio EPA; EPA OW-OST, OWOW

Example Dose-Responses



1) Bivalve wt. gain vs NO_3 dose

2) Benthic Chlorophyll vs P dose



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Using Weight-of-Evidence to Combine Diverse Data to Inform Nutrient Criteria Development

Issue: States face challenges integrating diverse sources of evidence (e.g., analysis of field samples and/or experiments; literature-based evidence) when developing numeric nutrient criteria (NNC).

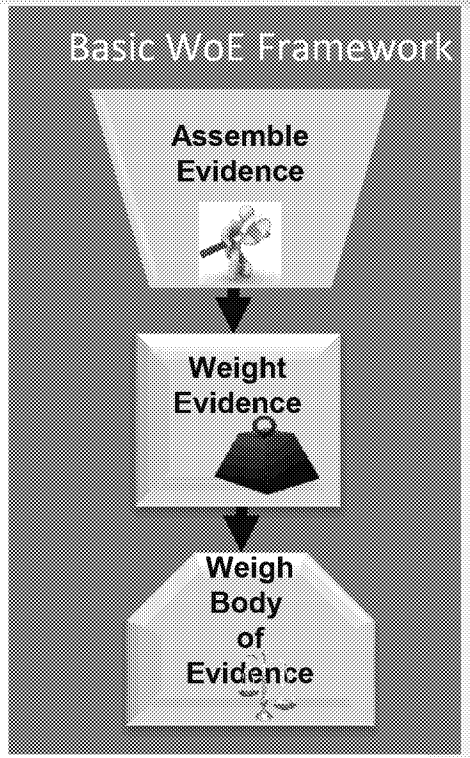
Approach: Develop materials with definitions, best practices, and examples to show how a weight-of-evidence (WoE) approach can be used to combine diverse data under a variety of evidence, resource, and time constraints to produce defensible and transparent nutrient criteria.

Status:

Publications: Ridley et al. 2021. Application of weight of evidence approaches for decision making related to protecting aquatic life from excess nutrients. Ecological Society of America.

Ongoing work: Summarizing WoE methods for evidence assembly, evidence weighting, and weighing bodies of evidence for NNC (including visual communication options); developing examples of how to select and apply appropriate WoE methods in situations inspired by real states; presenting results to states.

Future directions: Publish EPA report; develop online materials.



Partners: Office of Water, Office of Science and Technology, Health and Ecological Criteria Division; state water quality managers (e.g., ME, CO, AR)

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December 1-2, 2021

Research Focused on Vulnerability to and Recovery from Excess Nutrients

Kate Schofield, Ph.D.

Center for Public Health and Environmental Assessment (CPHEA)

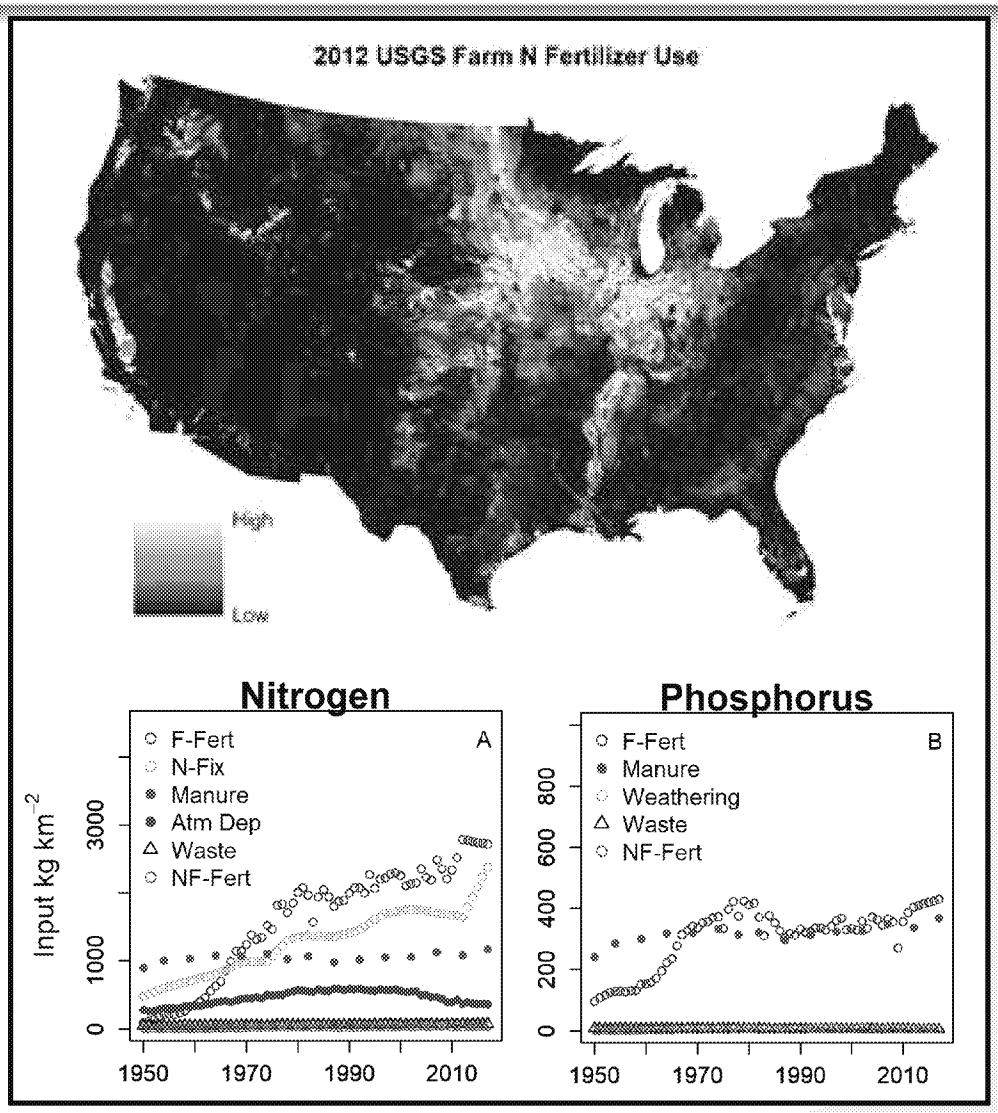
ED_006247N_00002427-00026

National Nutrient Inventories

Issue: Limited resources need to be leveraged efficiently and effectively to prioritize watersheds for restoration and target management actions to achieve nutrient reduction goals.

Approach:

1. Develop nitrogen and phosphorus inventories to track point and non-point source pollution across the United States at multiple scales (primarily 1987-2017).
2. Use empirical models to relate shifts in inventories and other environmental factors to spatiotemporal variability in surface water and groundwater quality.
3. Work with partners to develop management-relevant metrics, based on inventories and models, to communicate with stakeholders and improve prioritization of watershed restoration actions.



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Drivers of Lake Ontario Nearshore Phosphorus (P)

Issue: Need to understand and predict nuisance and toxic algae blooms in the Great Lakes.

Approach: Application of a nutrient mathematical model to understand sources of P, an important driver of nearshore algae in the Great Lakes.

Status:

- Publications/presentations: Presentation at the *State of Lake Ontario Conference*; peer-reviewed article in the *Journal of Great Lakes Research.*
- Ongoing work: Extend to other Great Lakes; explore drivers of Great Lakes algae, limitations of existing models, and potential model improvements.
- Future directions: Investigate impact of climate change on P and algae; collaborate with ecologists to improve HABs/*Cladophora* modeling in the Great Lakes.

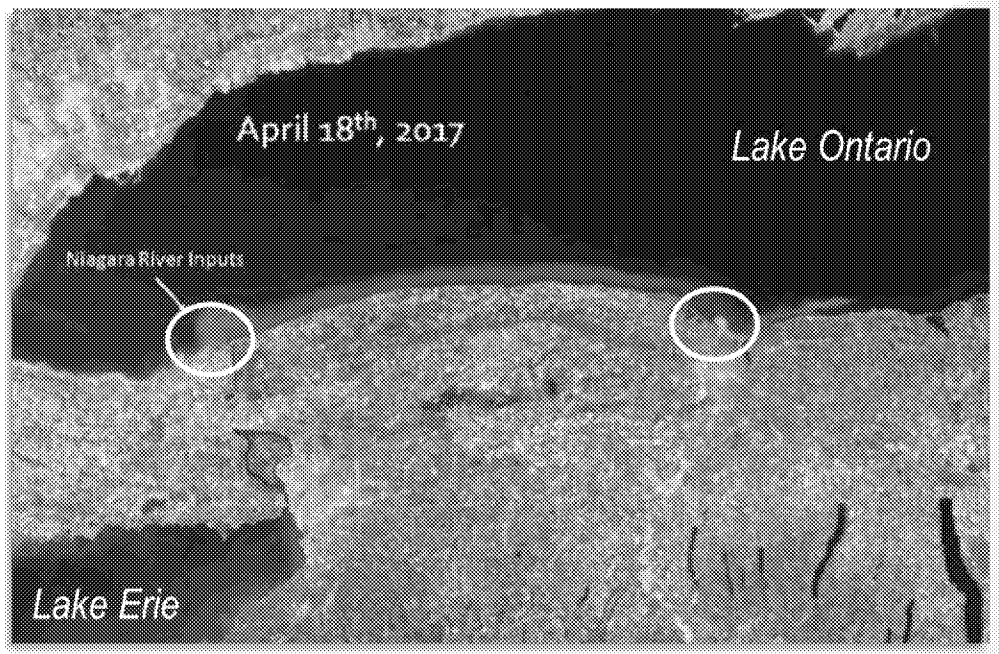
Partners: USEPA Great Lakes National Program Office and Region 2, State of New York, University of Buffalo.

ED_006247N_00002427-00028

Drivers of Lake Ontario Nearshore Phosphorus (P)

Methods: A mathematical model was developed and applied to explore interbasin (from Lake Erie) and intrabasin (local Lake Ontario rivers) P loading to southwestern nearshore areas of Lake Ontario.

Results: The Niagara River is the dominant P source for the southwestern nearshore of the lake. However, the Genesee River strongly impacts the adjacent beach where significant *Cladophora* blooms have been reported; other local rivers may have similar impacts on the very nearshore areas. Uncertainty of Niagara River loading estimates and insufficient daily/weekly tributary load estimates limit accurate nearshore P concentration and ultimately *Cladophora* bloom predictions.



Publications:

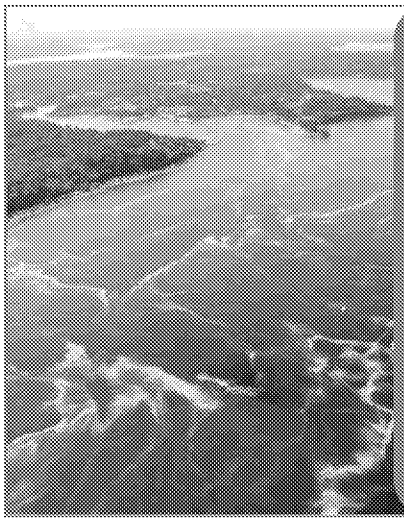
Pauer et al. 2021. A modeling study to determine the contribution of interbasin versus intrabasin phosphorus loads on the southwestern nearshore of Lake Ontario. *Journal of Great Lakes Research*.

ED_006247N_00002427-00029

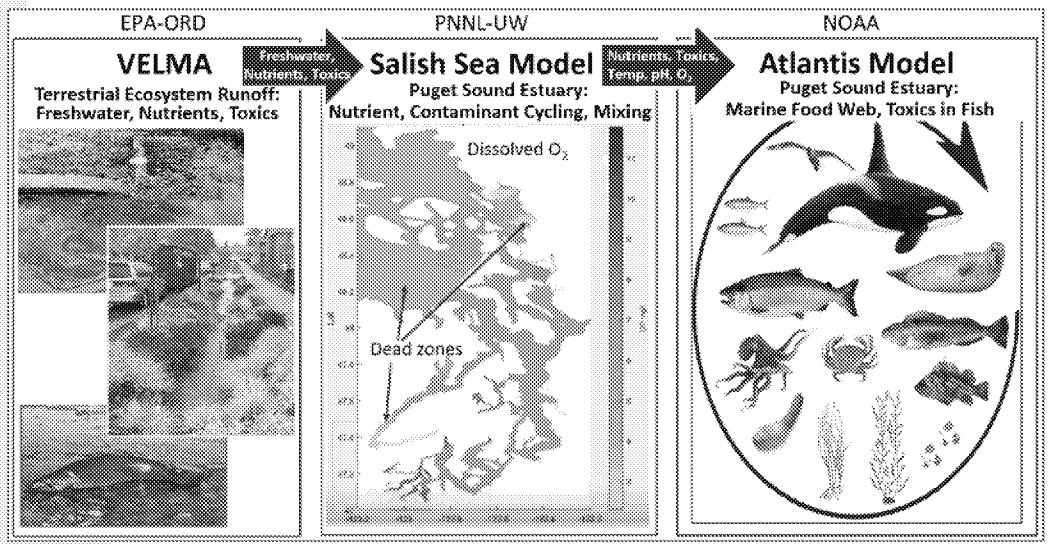
A Puget Sound Whole-Basin Decision Support Framework for Modeling Biophysical Controls and Transfers of Water, Nutrients, and Contaminants Across Terrestrial-Marine Boundaries

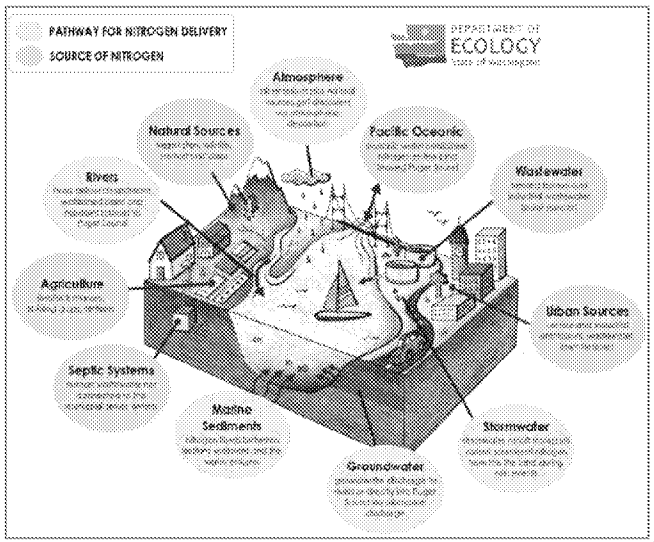
Issue: The Puget Sound National Estuary is experiencing major declines in endangered salmonids, orca, and supporting food web species. No integrated terrestrial-marine modeling frameworks exist to support whole-ecosystem recovery planning.

Approach: Develop and apply a coupled terrestrial-marine modeling framework to identify and prioritize nutrient and contaminant reduction strategies for accelerating recovery of the Puget Sound ecosystem.



Partners: Pacific Northwest National Laboratory; University of Washington; NOAA; EPA Region 10; tribal, community, state and federal members of the Puget Sound Partnership.





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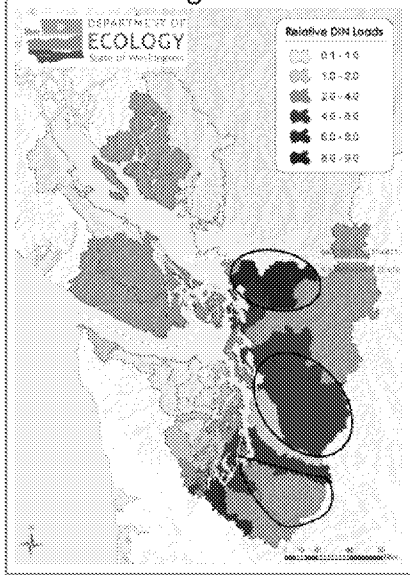
A Puget Sound Whole-Basin Decision Support Framework for Modeling Biophysical Controls and Transfers of Water, Nutrients, and Contaminants Across Terrestrial-Marine Boundaries

Status:

Publications/presentations:

- Barnhart et al. 2021. Modeling the hydrologic effects of watershed-scale green roof implementation in the Pacific Northwest, United States. Journal of Environmental Management 277:111418.
- McKane et al. 2020. An integrated multi-model decision support framework for evaluating ecosystem-based management options for coupled human-natural systems. Pp. 255-274 in: Ecosystem-based Management, Ecosystem Services and Aquatic Biodiversity: Theory, Tools, and Applications. Springer Nature.
- McKane et al. 2021. Model analysis and visualization of 6PPD-quinone fate and transport in Longfellow Creek watershed, Seattle, USA. EMCON 2021, The 7th International Conference on Emerging Contaminants.

Amounts, sources of nitrogen loads to Puget Sound are highly variable



"River loads contribute the second largest local input of inorganic nitrogen to Puget Sound (after wastewater loading). There are about 15 major rivers that discharge to Puget Sound."

https://www.arcgis.com/apps/MapSeries/index.html?appid=fb7dd54271f44aa0b1f08efd7efc4e30

Nooksack River N Loads
- Main sources: ag, CAFO, N dep
  - Annual DIN load (kg/day) 4,175
  - Summer DIN load (kg/day) 1,065

Snohomish River N Loads
- Main sources: ag, urban, alder
  - Annual DIN load (kg/day) 5,945
  - Summer DIN load (kg/day) 1,600

Nisqually River N Loads
- Main sources: septic, alder
  - Annual DIN load (kg/day) 1,425
  - Summer DIN load (kg/day) 440

Ongoing Work: Proof-of-concept applications of ORD's VELMA watershed model for quantifying land use and climate impacts on runoff of water, nutrients, and contaminants for 3 of 15 major river sub-basins draining to the Puget Sound estuary.

Future Directions: Apply whole-basin (13,700 mi^2) alternative future scenarios to the coupled VELMA/Salish Sea Model/Atlantis framework. Engage stakeholders and decision makers in prioritizing pollutant reduction and climate mitigation strategies for accelerating Puget Sound ecosystem recovery.

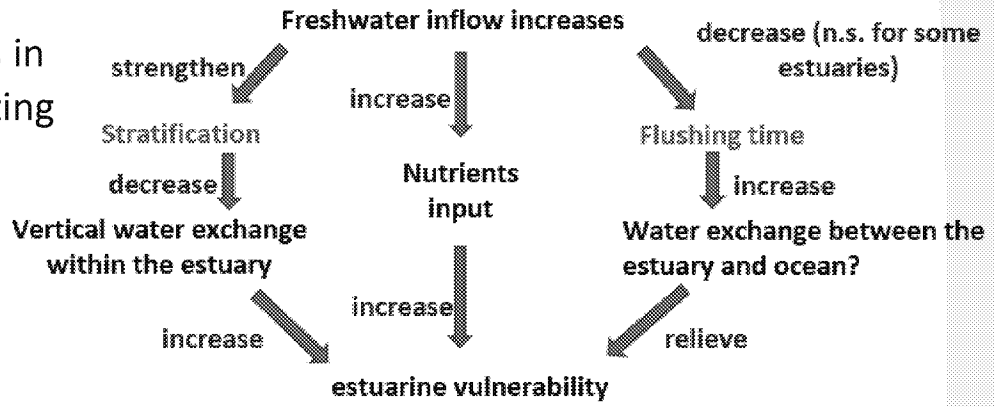
ED_006247N_00002427-00031

Assessing the Sensitivity and Resilience of Estuaries to Nutrient Loading

Issue: Analysis of estuarine response to decreases in loading, within national framework of factors affecting sensitivity to nutrient loading.

Approach:

- Classification framework for estuarine sensitivity to nutrient loads.
- Compile national database of factors affecting sensitivity of estuaries to nutrient loads (inter- and intra-annual variation in stratification indices, flushing time).
- Combine sensitivity and loading measures to generate exposure indices.
- Compile national databases of nutrient response endpoints (chlorophyll, submerged aquatic vegetation (SAV), sediment particle-size to total organic carbon).
- Analyze endpoint responses for selected systems with documented nutrient load changes.



Status:

- Publications/presentations: Databases in Estuary Data Mapper (epa.gov/edm); 5 presentations 2019-21.
- Ongoing work: Invited manuscript on nationwide estuarine classification framework (in revision).
- Future directions: Incorporate data on chlorophyll time series from remote sensing into analysis of estuarine responses; meta-analysis of changes in SAV coverage over time; Evaluate climate change effects.

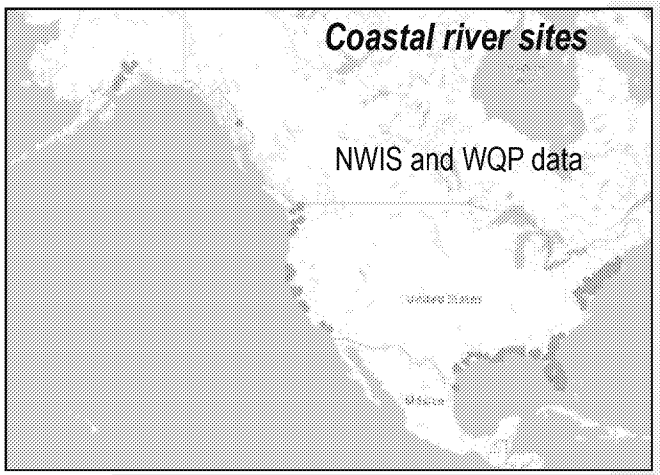
ED_006247N_00002427-00032

Vulnerability to Land-Based Sources of Acidification in U.S. Estuaries

Issue: Characterizing sensitivity of U.S. estuaries to land-based sources of acidification.

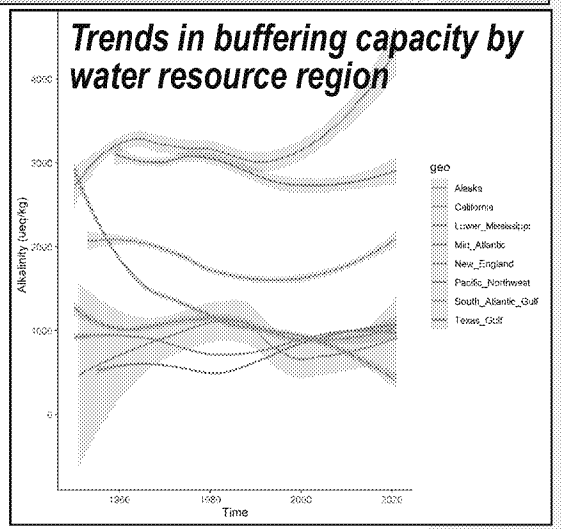
Approach:

- Synthesize existing coastal/riverine pH, alkalinity, temperature datasets.
- Quantify sensitivity of coastal waters to CO2 addition/removal via calculation of "buffer" factors.
- Trend analysis of acidification sensitivities and potential land-based drivers (e.g., changes in nutrient loading, land cover).
- Nationwide classification system for estuarine acidification vulnerability and trends.



Status:

Presentation: 2020 EPA Numeric Nutrient Criteria Webinar Series.
Ongoing Work: Manuscript preparation on sensitivity of U.S. estuarine waters to acidification.



Future Directions:

- Updated carbon and alkalinity export budget for conterminous U.S.
- Suitability analysis of carbon dioxide removal and "blue carbon" strategies, including coastal alkalinity enhancement.

Partners: EPA Office of Water, EPA Region 10.

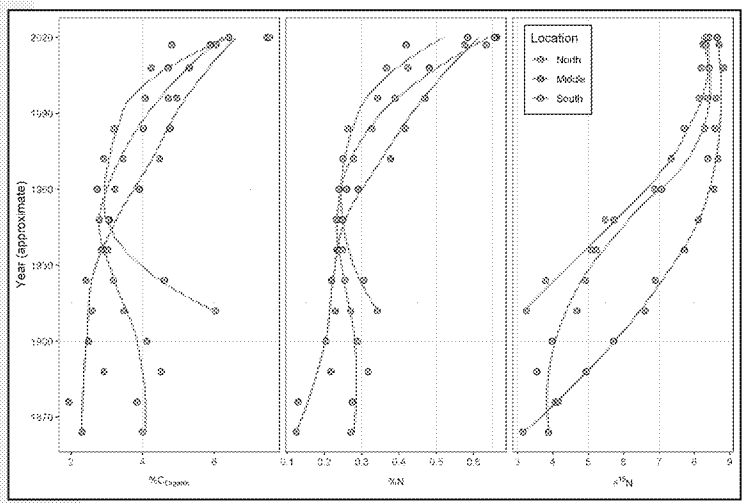
ED_006247N_00002427-00033

Assessing Ecosystem Responses to Reductions in Point and Non-Point Source Nitrogen Across Spatial and Temporal Scales

Issue: Coastal ecosystem response to management-led nutrient reductions is not well known, particularly for estuary-scale and non-point source reductions.

Approach: To document recovery, frequent water quality measurements and ecological assessments are undertaken in ***Narragansett Bay***, RI, which has seen an 82% reduction in sewage nitrogen loads since 2008, and in ***Wickford Harbor***, RI, where local homes and businesses have been converting from septic to sewer system over the past three years.

Partners: EPA Region 1, the Town of North Kingstown, the North Kingstown Free Library, Narragansett Bay Estuary Program, RI Department of Environmental Management.



Status:

- Dissolved oxygen impairments in the Wickford Harbor coves have been identified and the linkages between hypoxia and extensive benthic macroalgae will be addressed.
- Core data reflect clear changes in trophic state in the coves and are consistent with records of geomorphic perturbations.
- Nearby Little Narragansett Bay may be included in future research as it similarly has water quality impairments, with low dissolved oxygen and extensive benthic macroalgal cover.

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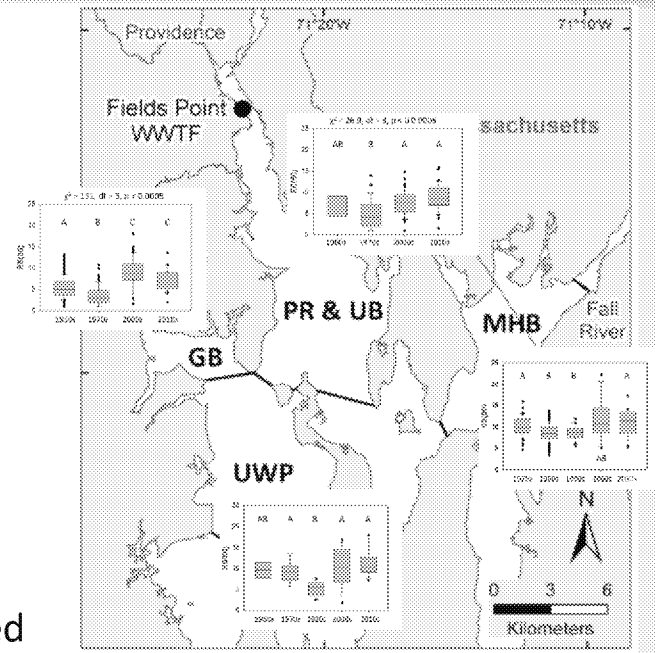
Trends of Benthic Invertebrate Response in Narragansett Bay

Issue: Need to document biological responses to nutrient-related stressors and resulting management actions.

Approach: Analyze qualitative and quantitative data to examine environmental patterns over time. 1. Assemble all available benthic invertebrate data in the Bay (1951-2015). 2. Subset by area. 3. Statistically analyze for decadal patterns. 4. Assemble environmental and management information to explain patterns.



Partners: EPA OW; RI Dept of Environmental Management

Status:

Publications/Presentations: Pelletier et al. 2021. Benthic macroinvertebrate community response to environmental changes over seven decades in an urbanized estuary in the northeastern United States. Marine Environmental Research 169:105323.

Pelletier et al. 2021. Seven decades of benthic community change in an urbanized estuary: a historical ecology approach. CERF 26th Biennial Conference.

Ongoing Work: Additional data have been collected in the Bay to capture recent management changes.

Future Directions: Analysis will focus on (1) more recent decades (more consistent data collection and increased availability of associated environmental data) and (2) interacting climate and management changes.

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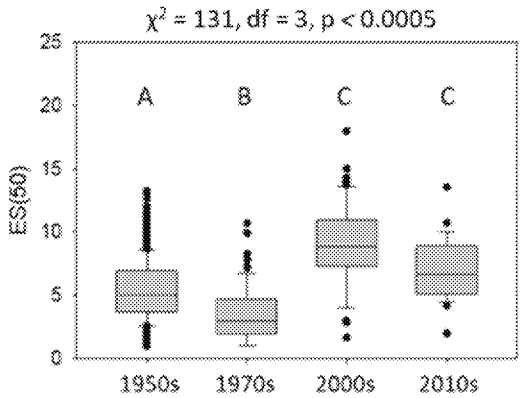
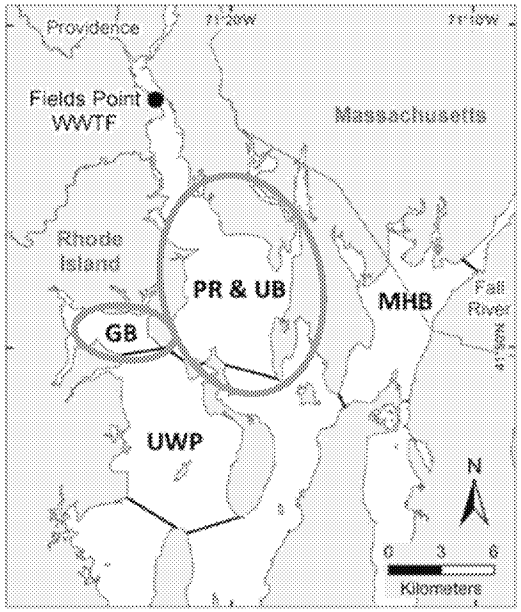
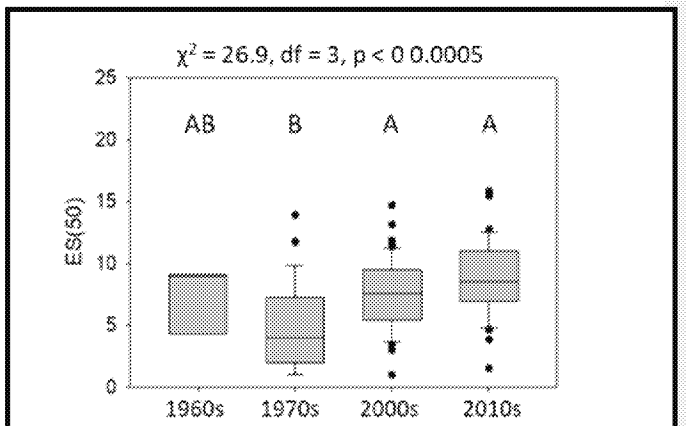
Trends of Benthic Invertebrate Response in Narragansett Bay: Sewage and Eutrophication



Greenwich Bay (GB)
(1951-2015)





Providence River & Upper Bay (PR & UB)
(1967-2015)

- Low diversity in the 1970s corresponds to when Fields Point, the largest WWTF in the bay, was releasing raw sewage.
- Clean Water Act upgrades completed in the early 1990s and CSO diversion tunnels completed in the late 2000s and mid-2010s, along with implementation of biological controls in the mid-2010s, led to improved condition.
- The benthic community reflected the decline and eventual improvement of the sewage treatment facility.

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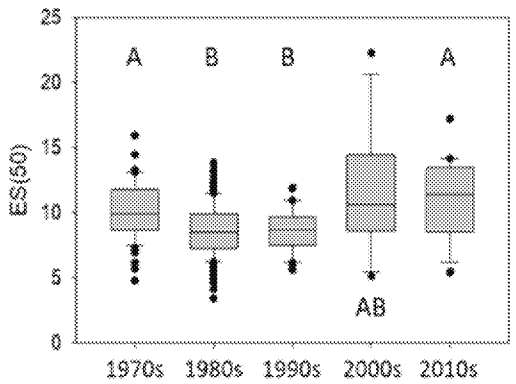
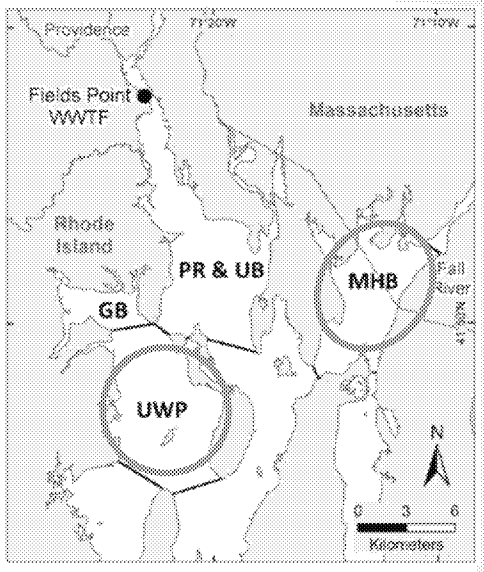
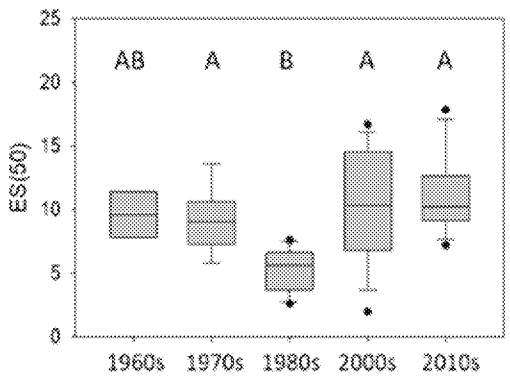
Trends of Benthic Invertebrate Response in Narragansett Bay: Temperature and Climate



Mount Hope Bay (MHB) (1975-2015)

- A dip in diversity in the 1980s and 1990s in MHB was due to a dramatic increase in cooling water, which led to plummeting fish stocks.
- In 2011, a cooling tower went on-line to remove the thermal stress to the bay.
- Observed benthic impact due to food web changes.





Upper West Passage (1967-2014)

- A similar diversity decrease in UWP corresponded to an ecosystem shift in Narragansett Bay.
- After 1980 there was a loss of the winter-spring bloom, and shifts in the phytoplankton, zooplankton and fish communities.
- Recovery of the benthos by 2000 was aided by cooler temperatures and a ctenophore that decreased grazing copepod populations.
- Cooler temperatures promoted winter-spring blooms, while low numbers of zooplankton populations allowed these blooms to persist and senesce, providing a source of labile carbon to the benthos.

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Questions?

Charge Question 1

Nutrient pollution is the most widespread water quality problem facing the United States, with far-ranging consequences for environmental condition, economic prosperity, and human health and well-being. Current SSWR in Research Area 5 focuses on nutrient-related impacts in watersheds and waterbodies to support determining protective endpoints for aquatic life in different water body types.

What suggestion(s)/ recommendation(s) does the Subcommittee have on ORD's implementation of this research area and on

a) any new or emerging sensitive aquatic life endpoints, and

b) methods, sensors, and/or nutrient indicators for assessing aquatic life endpoints, particularly under changing climate conditions?

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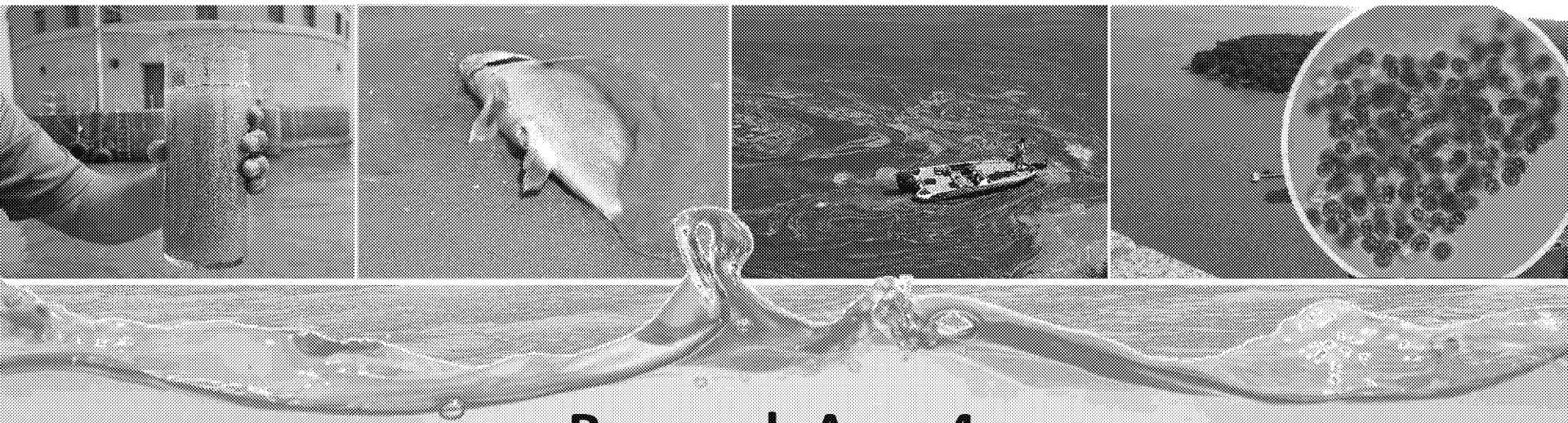
EPA

Office of Research and Development

SAFE AND SUSTAINABLE WATER RESOURCES RESEARCH PROGRAM



Research Area 4:

Assessment and Management of HABs

BOSC SSWR Subcommittee Meeting on Nutrients and HABs

December 1-2, 2021

This document has been reviewed in accordance with U.S. Environmental Protection Agency policy and approved for publication.

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EPA

Office of Research and Development

BOSC Meeting SSWR Nutrients and HABs
December 1-2, 2021

HABs Background and Research Overview

Nicholas Dugan, Ph.D.

Center for Environmental Solutions and Emergency Response (CESER)

HABs Overview

- Freshwater HABs occur when, most commonly, cyanobacteria become dense or toxic enough that it results in negative environmental or health effects.
- Cyanobacteria have the potential to produce toxins and other irritating metabolites.
- The most commonly reported cyanotoxins in the U.S. are microcystins, nodularins, cylindrospermopsins, anatoxins, and saxitoxins.
- Exposure is usually through direct contact with contaminated water, ingestion of contaminated water, or potentially from inhaling contaminated aerosols or from eating contaminated fish.

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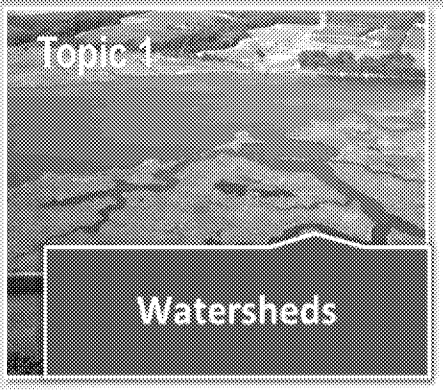
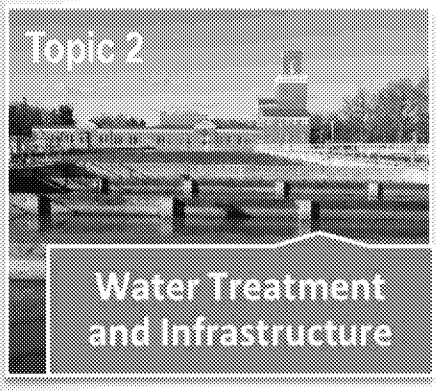
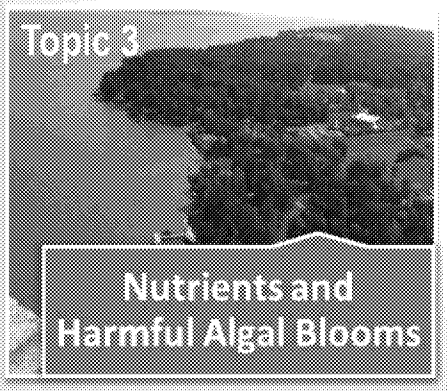
ORD's Safe and Sustainable Water Resources (SSWR) Research Program







HABs Research Legislative Drivers

- HAB and Hypoxia Research and Control Act
- Clean Water Act
- Safe Drinking Water Act

Research Area Coordination Team

- **Topic Lead:** Anne Rea, ORD
- **Coordinator:** Scot Hagerthey, ORD (Brenda Rashleigh)
- **Program Office (Office of Water):** Lesley D'Anglada, OST and Katie Foreman, OGWDW
- **Region:** Rochelle Labiosa, R10
- **State:** Robert Newby, New Jersey
- **Output Leads (ORD):** 1 Elizabeth Hilborn (CPHEA), 2 Nick Dugan, (CESER), 3 Blake Schaeffer (CEMM)

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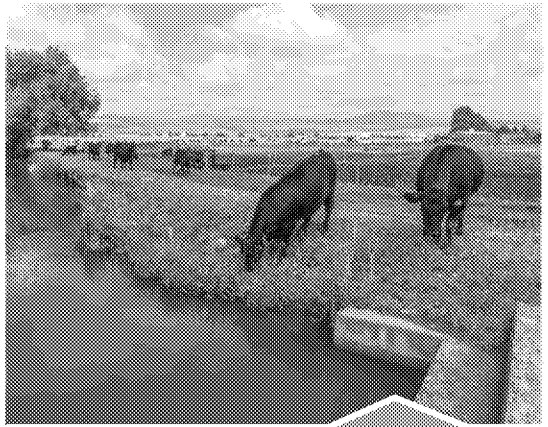
ORD's Nutrients and HABs Research

Research Area 4: Assessment and Management of HABs

Research Area 5: Science to Support Nutrient-Related Water Quality Goals



Research Area 6: Nutrient Reduction Strategies and Assessment

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Program/Region/State Research Needs

- **Tools** to predict toxic bloom occurrence, characterize bloom development, increase the effectiveness of cyanotoxin monitoring techniques.
- **Economic analyses** of HAB/cyanotoxin impacts and source water protection activities.
- **Evaluate management actions** in watersheds and source water reservoirs to help prevent and mitigate HABs and to support guidance on treatment technologies for HABs/cyanotoxins.
- **Epidemiological and toxicological studies** on existing and emerging cyanotoxins for aquatic life and human health.
- **New threshold information synthesis** on toxin, toxin mixtures, and novel exposure pathways for humans and domestic and wild animals can inform guidance to adequately communicate the risks of HABs events.
- **Ambient water sensors** to help determine which practices are best suited to reduce nutrient loadings and lead to reduced HABs.

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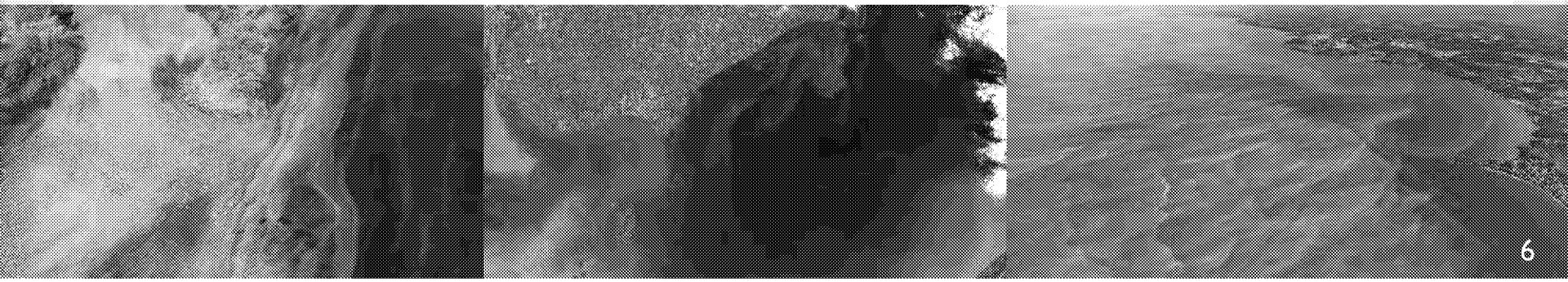
HABs Research

Research is organized into three subareas:

1. Assessing Adverse Health Outcomes from Exposure to HABs

2. Research to Support Managing HABs and Their Impacts in Ambient and Drinking Water

3. Developing Tools to Support HABs Risk Characterization and Assessment



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Assessing Health Outcomes

Overview:

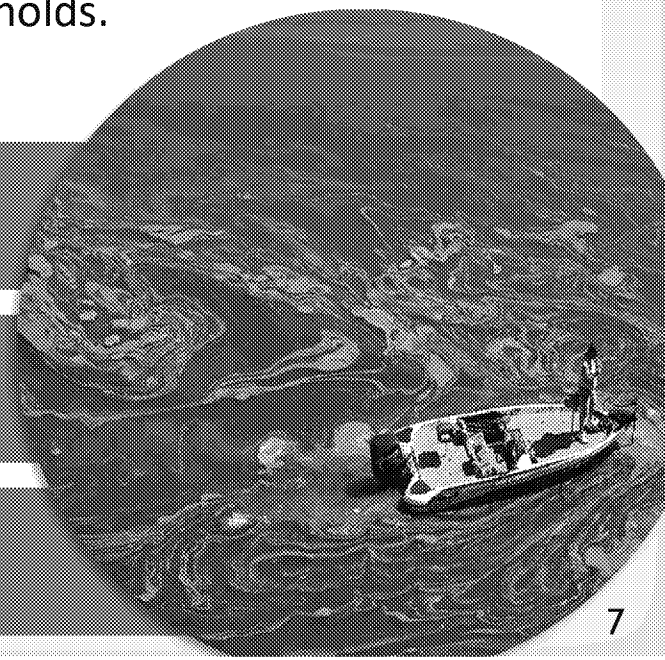
- The toxicity and epidemiology of HABs need better characterization.
- ORD is assessing potential impacts using multiple whole organism toxicity studies, in vitro, primary human liver cells, and tissue model approaches.
- Results of this work can support the work done by Program Offices and Regions in the development of guidelines and tools such as health advisories and water quality criteria, response and risk communication during HAB events, fish consumption advisories, and the designation of aquatic life and environmental health thresholds.

Research Products:

Assessing the impact of HABs and their associated toxins on human health.

Assessing the impact of HABs and their associated toxins on animal health.

Exploring the chemical, physical, and biological characteristics of HABs associated with adverse health outcomes.



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Assessing Health Outcomes

Research Highlights:

Human health impacts

- Evaluating the effects of cyanobacteria on human 3D skin tissue models.
- Evaluating health effects among residents that are associated with the presence of cyanotoxins in their drinking water.

August, 2014 Lake Erie CyanoHAB —Toledo, OH drinking water intake

CyanoHAB in Ohio

- Characterizing and providing dose-response assessment of toxicity from inhalation of aerosols containing cyanotoxin.
- Comparing toxicity of ten microcystin congeners—liver toxins with various potencies and mechanisms of action—found in U.S. freshwater.

Characteristics associated with adverse health outcomes

- Developing a method to detect cyanotoxins in fish tissue; informs the development of fish consumption advisories.

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Supporting the Management of HABs and Their Impacts

Overview:

- Develop and disseminate basic science and best practices to mitigate HABs.
- Reduce the risk of ecosystem harm, recreational exposure, and the ingestion of contaminated drinking water.
- Inform the development of water body management plans, design and purchase of supplies and equipment, and the operation of drinking water treatment facilities.

Research Products:

Exploring source water interventions that could mitigate HABs.

Researching drinking water treatment options to reduce the risk of ingestion exposure.

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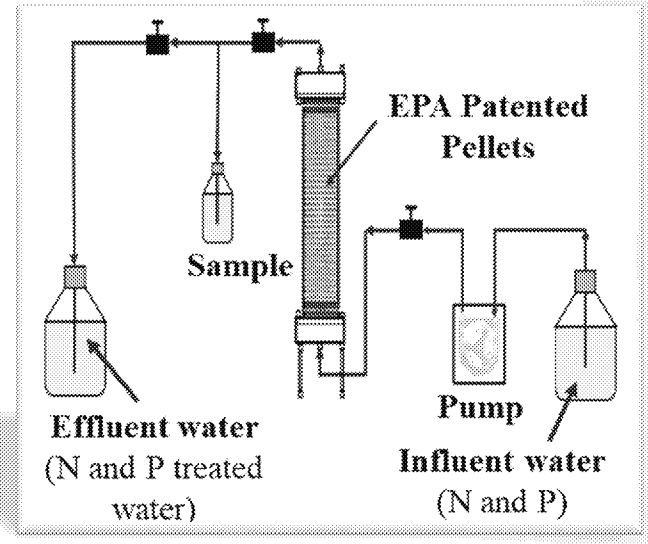
Supporting the Management of HABs and Their Impacts

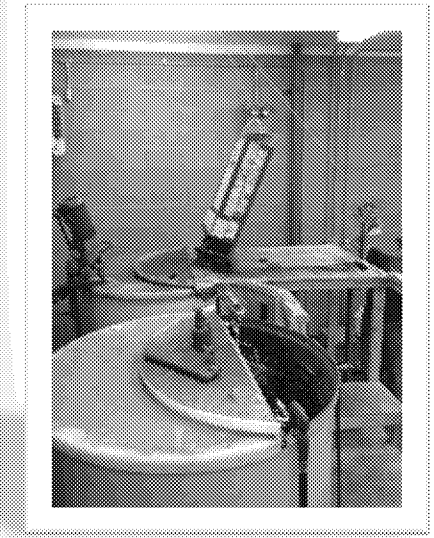
Research Highlights:

Source water

- Test biological bloom control measures.
- Use metabolic signals to guide the timing of bloom control measures.
- Develop and test a low cost engineered media to remove nitrogen and phosphorous from wastewater.



Evaluation of N and P removal media for water and wastewater



Drinking water treatment

- Evaluate how algicide exposure affects cyanobacterial responses to water treatment.
- Develop an accessible laboratory procedure to screen the best powdered activated carbon (PAC) and best optimal dose.
- Evaluate efficient methods of quantifying toxins in water treatment waste streams.

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Tools to Support HABs Risk Characterization and Assessment

Overview:

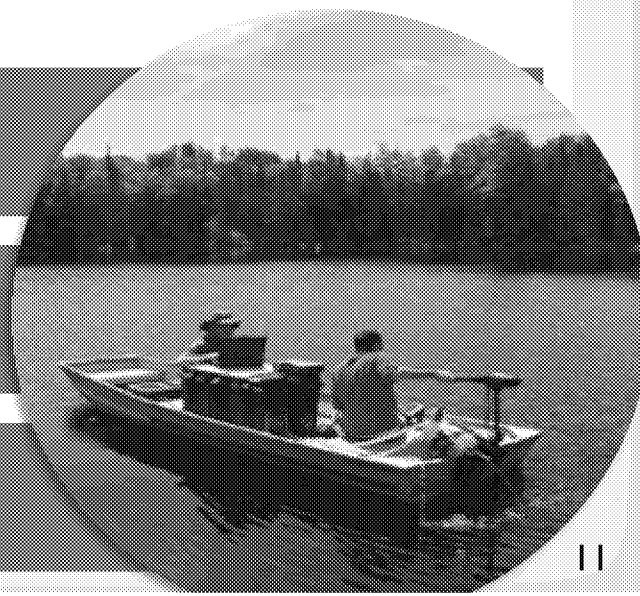
- HAB environmental risk characterization quantifies environmental drivers, such as nutrients and temperature, that impact algal biomass and occurrence of toxins.
- Research strategy ranges from single point samples, to high frequency sensors, to satellite imagery.
- Results to characterize the onset, temporal frequency, spatial extent, and magnitude of HABs in rivers, streams, lakes, and reservoirs to help prioritize limited resources.

Research Products:

Conducting monitoring to improve HAB assessment and characterization.

Developing HAB models, software, and tools.

Characterizing the development, intensity, and spatial extent HABs.



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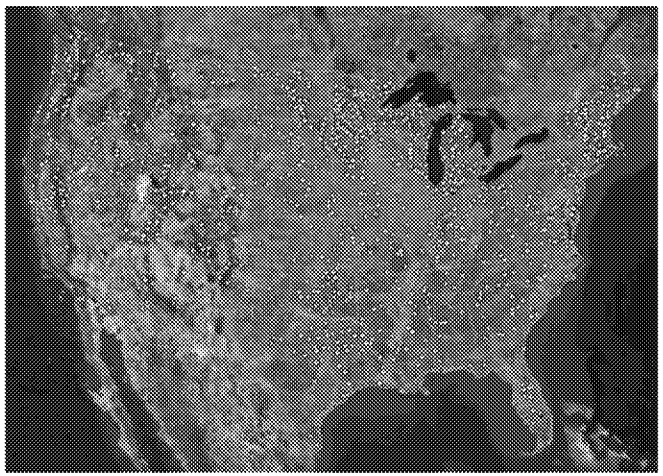
Tools to Support HABs Risk Characterization and Assessment

Research Highlights:

Models, software, and tools

Created the CyAN app from collaborative work with NASA, NOAA, and USGS to quickly inform decisions regarding recreational and drinking water safety related to cyanobacterial blooms. Available as an Android app and currently developing CyANWeb for all web-based devices.

Satellite data is used to map the location of cyanobacterial blooms.



Monitoring

Developed method for early detection of algal toxin production using qPCR.

HABs characterization

Machine learning models combined with genomic and environmental drivers to predict toxins and biomass.

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EPA

Office of Research and Development

BOSC Meeting SSWR Nutrients and HABs
December 1-2, 2021

HAB Toxicity

Elizabeth Hilborn, DVM, MPH, DACVPM

Center for Public Health and Environmental Assessment (CPHEA)

ED_006247N_00002428-00014

Assessing Risk: Toxicity

Health Effects of HABs:

Toxicology:

- Compared toxicity of ten microcystin congeners with mouse model—liver toxins with various potencies and mechanisms of action— found in U.S. freshwater.
- Evaluated the effects of eight microcystin congeners on primary human liver cells.
- Will characterize and providing dose-response assessment of toxicity from inhalation of aerosols containing cyanotoxin.

August 2014 Lake Erie CyanoHAB
Toledo, OH drinking water intake

- Evaluated toxicity of golden algae and cyanobacteria toxins to aquatic organisms.
- Evaluated the effects of cyanobacteria on human 3D skin tissue models.

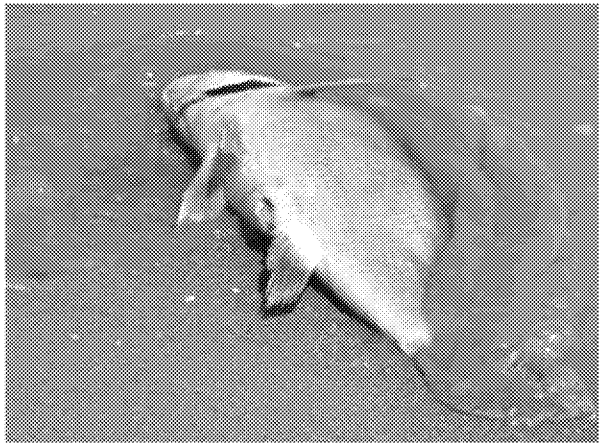
ED_006247N_00002428-00015

Assessing Risk: Adverse Observed Effects

Health Effects of HABs:

Human health effects associated with cyanobacteria and cyanotoxin exposures.

- Effects associated with recreational exposures.
- Effects associated with drinking water exposures (Output 4.3 cross link).



Investigating phenomena potentially associated with adverse health outcomes.

- Developing a method to detect cyanotoxins in fish tissue; informs the development of fish consumption advisories.
- Working to characterize aerosols associated with cyanobacteria blooms.

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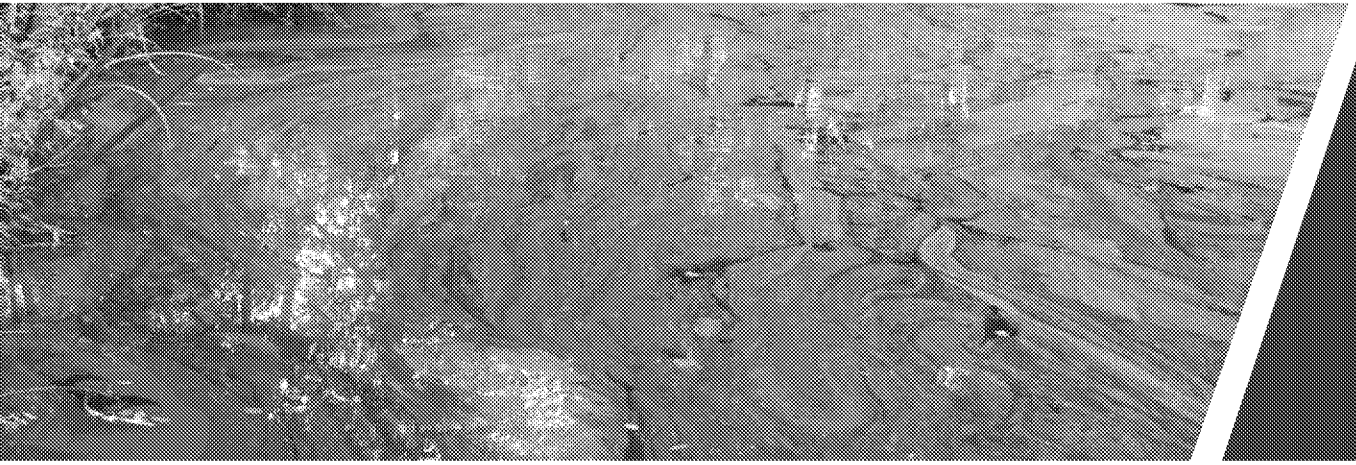
United States
Environmental Protection
Agency

Assessing Risk: Toxicity



ED_006247N_00002428-00017

Acute Effects of Ten Microcystin Congeners

Acute toxicity effects of microcystin congeners dosed orally in mice

Issue: Need mammalian toxicity data on microcystin congeners

Approach:

Part 1: At 7mg/kg, mice given single oral dose of one of 10 microcystin congeners.

- Monitor clinical signs; necropsy
- Determine comparative toxicity

Relative toxicity based on mammalian in vivo:
LA>LR>LY>YR>LW>LF>WR>RR

Part 2: Mice dosed orally. Dose-response acute toxicity of MCLR, MCLA, MCRR, MCLY, MCYR.

Results used to determine NOAELs and LOAELs

Status: Chernoff et al. Toxins (Basel). 2020 Jun 18;12(6)

Chernoff et al. Toxins (Basel). 2021 Jan 24;13(2)

Future Plans: Comparison of 10 microcystin congeners given IP; facilitate research for mode of action; subacute toxicity of anatoxin-*a* in mice.

ED_006247N_00002428-00018

Effects of Microcystin Hydrophobicity on Cytotoxicity

Acute toxicity effects of microcystin congeners in primary human hepatocytes

Issue: Data gaps in toxic effects of microcystin congeners on human cells.

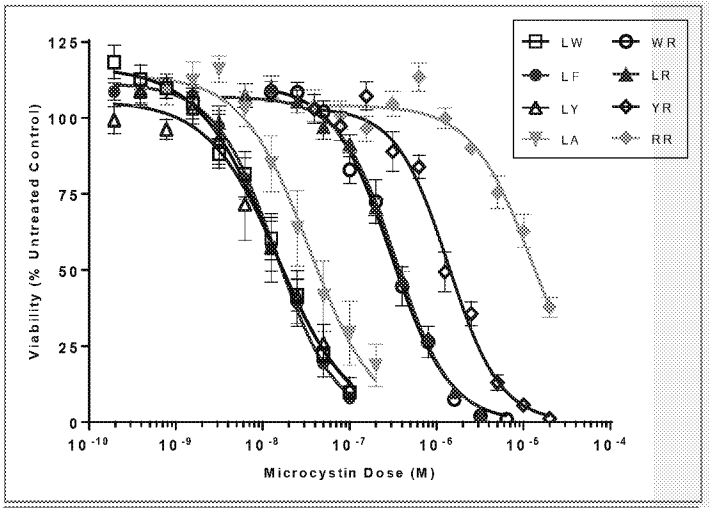
Approach: Compare toxicity of multiple hydrophobic and hydrophilic microcystin congeners in human hepatocytes

- Determine EC50s of eight microcystin congeners through cell viability testing.
- Evaluate the effects of congeners on reactive oxygen species (ROS), protein phosphatase (PP2A) activity, and glutathione (GSH) activity.
- Assess the effects of congener hydrophobicity on cytotoxicity.

Status/Ongoing Activities:

- Results presented at International Conference on Harmful Algae and International Society for the Study of Xenobiotics conferences.
- Manuscript in preparation.
- Ongoing toxicity testing of microcystin congeners in human 3D liver cultures.

Future Plans: Assessing cyanotoxins in human 3D colon cultures.



Viability (EC50)

LW ≈ LF ≈ LY > LA > WR ≈ LR > YR > RR

More Toxic — Less Toxic

Hydrophobicity (Amino Acids)

LF ≈ LW > LY > LA > WR = LR > YR > RR

More Hydrophobic — Less Hydrophobic

ED_006247N_00002428-00019

Effects of Cyanobacteria Human Skin Tissue

Normal Human 3D skin tissue model exposed to cyanobacteria

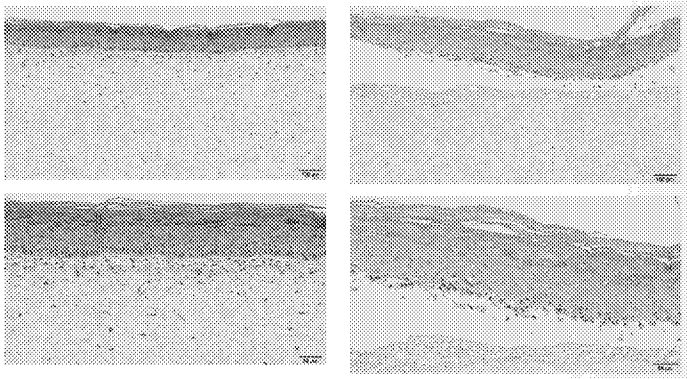
Issue: Dermal effects of exposure to cyanobacteria is limited.

Approach: Evaluate the inflammatory effects of cyanobacteria and their components to normal human skin tissue using an in vitro 3-D (organoid) normal human skin tissue model.

- Conducting a validated skin irritation test.
- Skin will be exposed to microcystin congeners, cyanobacteria, environmental water samples.
- Will assess cell proliferation/viability; histological changes; cytokines/Lymphokines/soluble receptors; gene expression (mRNA) profile.

Status/Ongoing Activities: Ongoing characterization of the toxicological and immunological responses of normal human skin following exposure to cyanobacteria and their metabolites.

GRO cytokine/chemokine production of skin tissue following exposure to microcystin



Normal skin tissue **Damaged skin tissue**

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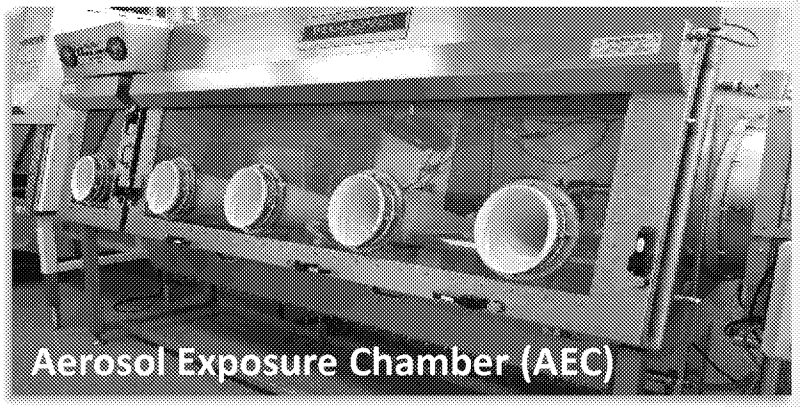
Toxicity of Cyanotoxin Aerosols

Dose-response assessment of toxicity from inhalation of aerosols containing cyanotoxin

Issue: Need experimental inhalation exposures to cyanotoxins.

Approach:

- Expose mice to aerosols containing cyanotoxin within an AEC.
- Examine toxicity of microcystins and anatoxins in nasal cavity, liver, respiratory epithelium.
- Characterize inflammatory response of serum proteins.
- Identify biomarkers using RNA sequencing.
- Develop dose-response model using identified biomarkers quantified by gene expressions for a few toxin species.


Aerosol Exposure Chamber (AEC)

Status/Ongoing Activities:

- Experiment: Ongoing and expecting to complete some results within FY22.
- Completed: Chamber test, protocol approval, decon test, in-house sequencing test, pipeline setup of RNA sequence analysis.

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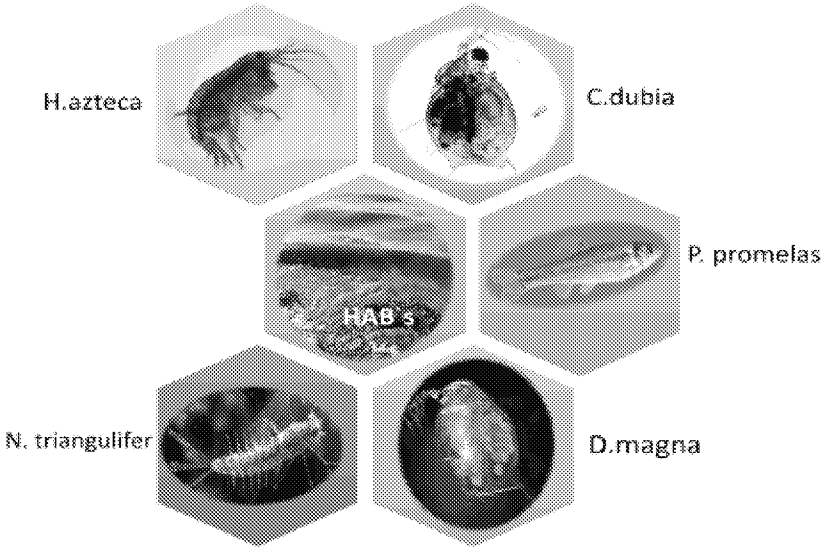
Aquatic Ecotoxicity of Cyanotoxins and Algal Toxins

Acute and chronic toxicity testing

Issue: Little information about toxicity to aquatic organisms.

Approach: Conducted acute and chronic toxicity tests with *C. dubia*, *P. promelas*, *H. azteca*, and *N. triangulifer* by exposing them to microcystins and to golden algae (*P. parvum*).



Status/Ongoing Activities:

- LC50s could not be calculated because no lethality found up to 75 ug/L total microcystins.
- *N. triangulifer* most sensitive to *P. parvum* extract.
- Outstanding: Develop method to measure prymnesin (toxin).

ED_006247N_00002428-00022

United States
Environmental Protection
Agency

Assessing Risk: Adverse Observed Effects

ED_006247N_00002428-00023

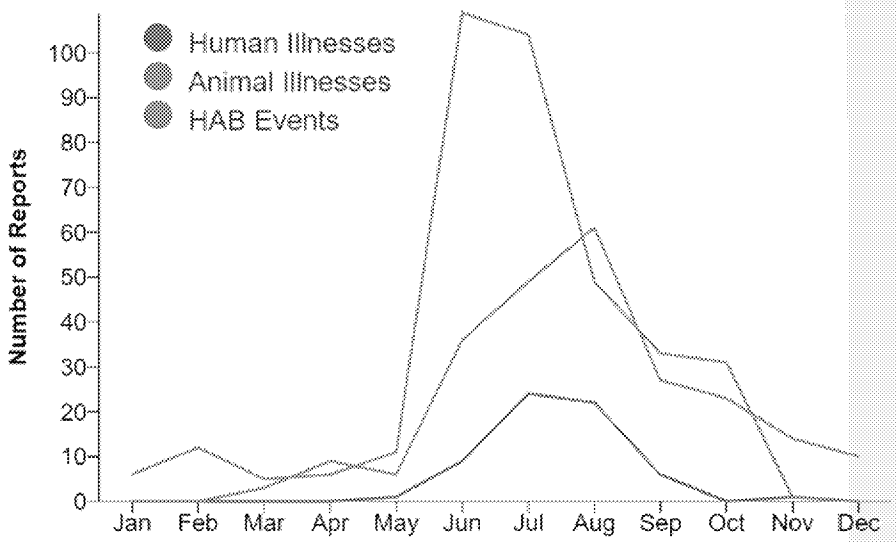
Characterize HAB-Associated Health Effects

Surveillance for HAB-associated illness

Issue: People and animals are exposed to poorly characterized aquatic environments.

Approach: Collaborate with Centers for Disease Control and Prevention One Health Harmful Algal Blooms System.

- Characterize human and animal illnesses.
- Characterize environmental evidence.
- Characterize acuity and health care usage.



Status/Ongoing Activities:

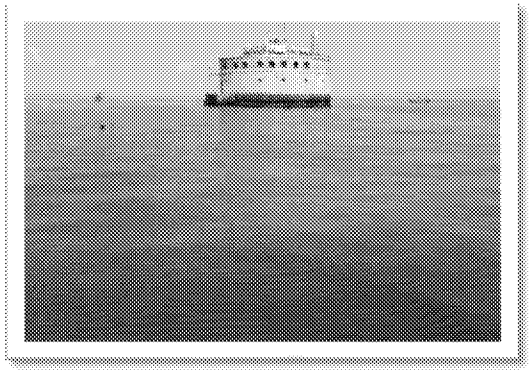
- First two years of surveillance summarized and published.
- MMWR December 18, 2020/69(50);1889–1894

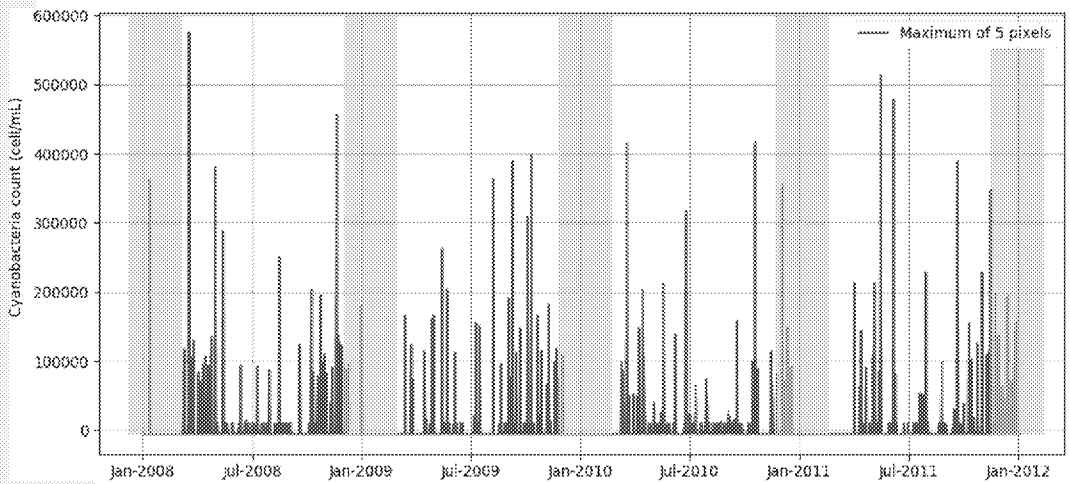
ED_006247N_00002428-00024

Characterize HAB-Associated Health Effects

Illness associated with satellite-determined cyanobacteria blooms

Issue: People uncommonly reported as exposed to cyanobacteria and cyanotoxins in drinking water.





Approach: Identify remotely-sensed cyanobacteria blooms near drinking water intake.

- Characterize human illnesses reported from emergency room visits among population served.
- Control for weather, temperature, time, air pollution, day of week.
- Increased ER visits for respiratory illness were detected two days after bloom at intake.

Status/Ongoing Activities:

Published: Wu et al. Environmental Health 20:83. 2021

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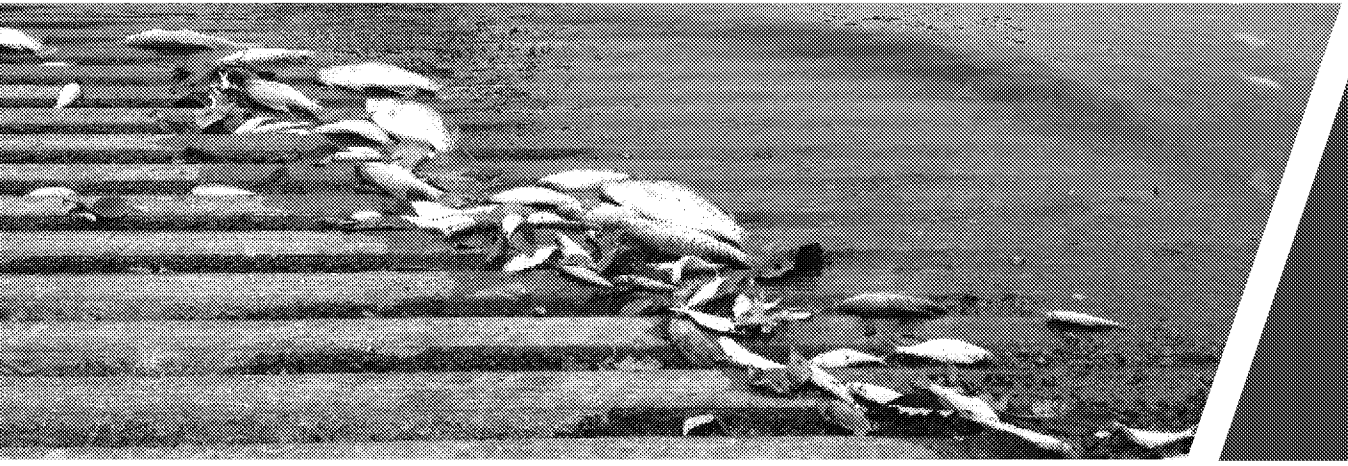
United States Environmental Protection Agency

Assessing Risk: Investigating phenomena potentially associated with adverse health outcomes



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Characterization of Cyanotoxin Aerosols

Assessment of ambient aerosolized microcystins

Issue: Human nasal exposure to microcystins has been documented–little evidence for ambient aerosolized toxin concentrations.

Approach: Assess aerosolized microcystins adjacent to blooming ponds.

- Select ponds with differing microcystin concentrations.
- Monitor water quality and air daily over ten days.
- Measure local weather conditions.
- Analyze air filters using different methods.

Status/Ongoing Activities:

- Sample collection is complete.
- Analysis is ongoing.

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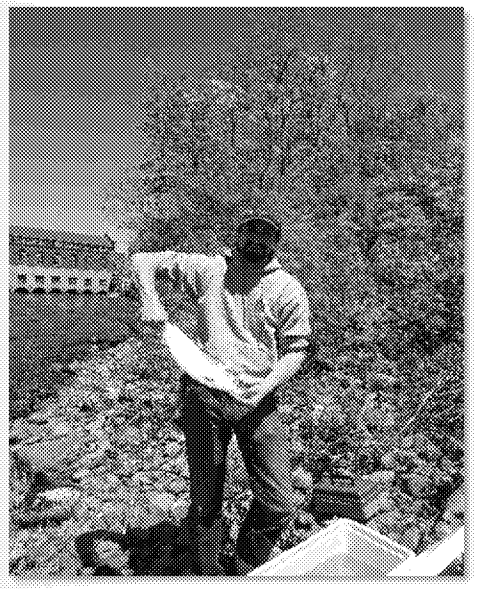
Characterization of Toxins in Fish Tissue

Assessment of toxins in fish tissue



Issue: Cyanobacteria toxins are detected in different species of fish.

Approach: Adapt a total microcystin method used for water to tissues using 2-methoxy-3-methyl-4-phenylbutyric acid (MMPB) derivatization method.

- Spike fish homogenates with microcystin standards and assess spike recovery.
- Test this method on fish collected from water bodies experiencing algal blooms.

Status/Ongoing Activities:

- MMPB method appears to be performing well in a variety of spiked fish tissues, spanning a range of lipid content.
- Samples of fish collected from blooming water bodies in FL, UT, NJ, and CT were analyzed with the MMPB method.
- Detection of total microcystin were found in fillets from fish collected in FL, UT, and CT.

ED_006247N_00002428-00028

Toxicity of Cyanobacteria Species (*Microcystis aeruginosa*)

Environmental conditions affect cyanobacteria physiology and toxicity

Issue: Toxins are released as bacteria age and degrade.

Approach: Compare *Microcystis* cells from culture and from lake under different conditions using flow cytometry, microscopy, and hyperspectral imaging.

Status/Ongoing Activities:

- Fluorescence indicator of viability.
- Detecting Microcystis physiology modifications with fluorescence equipment.

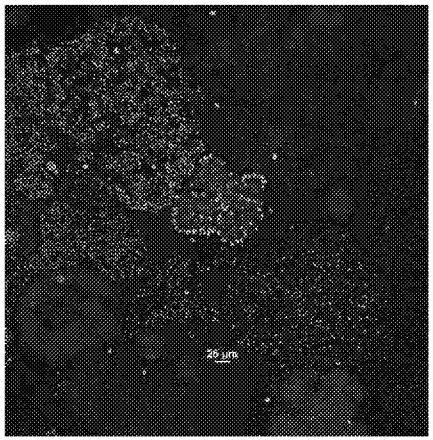
Future research

- Link fluorescence response with toxin release
- Study Microcystis toxicity with lab techniques

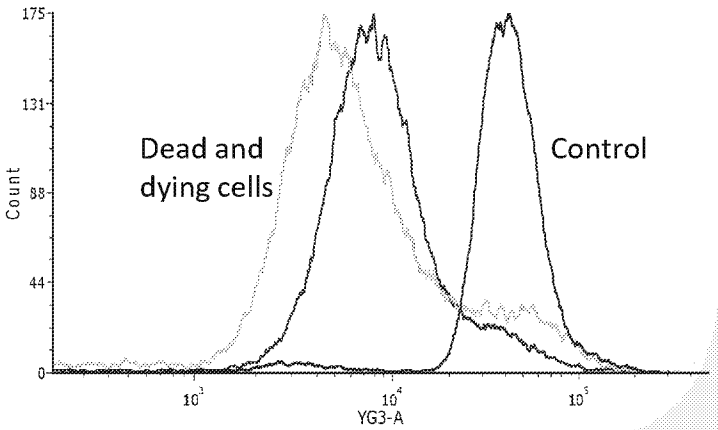
Fluorescence Microscopy

Lake Microcystis

Death & Dying (dull green)



Flow Cytometry *Microcystis* culture



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BOSC Meeting SSWR Nutrients and HABs
December 1-2, 2021

Predicting and Forecasting HABs

Blake Schaeffer, Ph.D.

Center for Environmental Measurement and Modeling (CEMM)

ED_006247N_00002428-00030

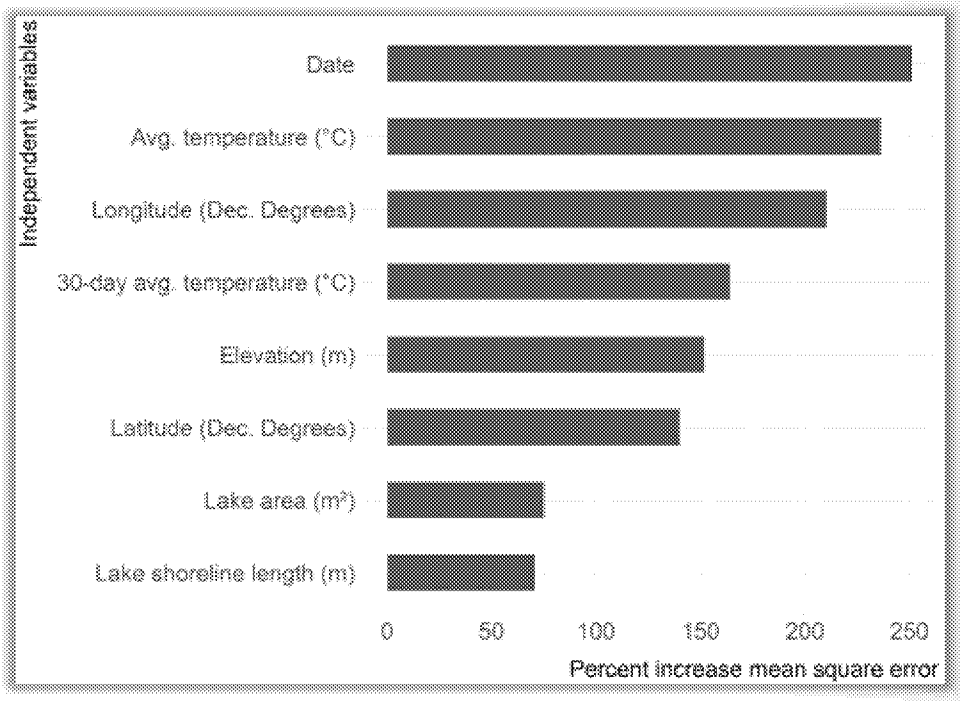
Predictive Model of Lake Photic Zone Temperature

Issue: Warming lake temperature is linked to cyanobacteria bloom dynamics.

Approach: Random forest model of lake photic zone temperature.

Status/Ongoing Activities:

- Kreakie et al. 2021. *Frontiers in Environmental Science,* 451.
- Ongoing: Back casted daily lake photic zone temperature (1983-2017).
- Future: Forecast changes with various climate change predictions.



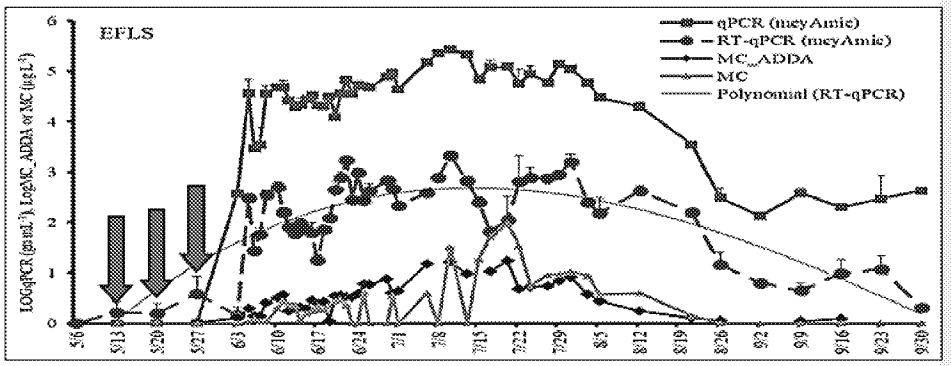
Variable importance plot for lake photic zone temperature.

ED_006247N_00002428-00031

Molecular Approaches for CyanoHABs and Toxins

Issue: Methods needed to characterize and predict cyanoHAB dynamics and associated toxins in the context of phytoplankton ecology.

Approach: DNA sequence-based characterization, RNA-sequence based function analysis and qPCR/RT-qPCR based quantification and early warning of cyanotoxin production.



Early signals (blue arrows) and correlations of mcy gene abundance and transcripts with microcystin concentrations.

Status/Ongoing Activities:

- Three published manuscripts.
- Ongoing: Three manuscripts in preparation.
- Future: Long-term prediction and validation of early warning of toxins and threshold of molecular biomarker signals.

Partners: EPA Regions 7 and 10, OR DEQ, WA DoE.

ED_006247N_00002428-00032

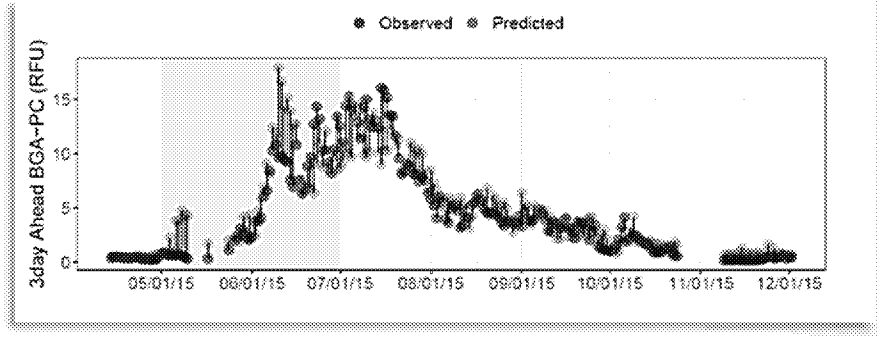
Inland Reservoir High Frequency Modeling

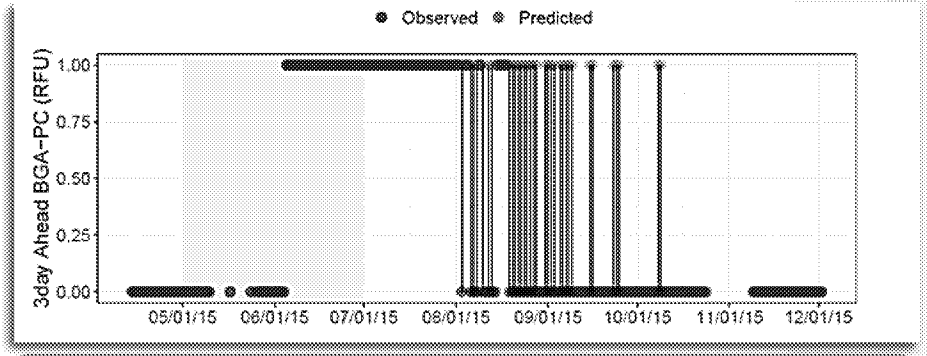
Issue: Managing the risk posed by CyanoHABs on inland reservoirs.

Approach: Use a high-frequency sonde and discrete data with gradient boosted regression and decision trees.

Status/Ongoing Activities:

- Manuscript in preparation.
- Ongoing: Continued model development.
- Future: Model access to partners and stakeholders, addition of weather, high-frequency nutrient data, and molecular markers.





Model validation with the magnitude response represented on the top and a binary threshold approach on the bottom.

Partners: Clermont County, OH, East Fork of the Little Miami River cooperative.

ED_006247N_00002428-00033

Ohio River Risk Characterization for CyanoHABs

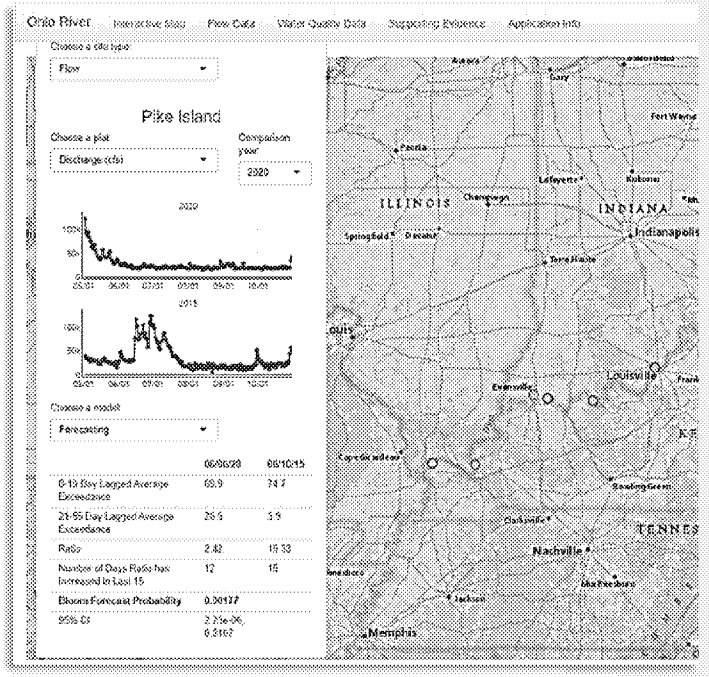
Issue: Managing cyanoHAB risk in the Ohio River.

Approach: Two probabilistic risk models, one for bloom forecasting and another for predicting bloom persistence.

Status/Ongoing Activities:

- Several presentations to partners, stakeholders, and scientific communities. Development of an online tool, manuscript in EPA clearance.
- Ongoing: Actively used to monitor and manage the Ohio River.
- Future: Update the models on an annual basis with new data for the river.

Partners: Ohio River Valley Water Sanitation Commission (ORSANCO) EPA Regions 3, 4 and 5, NWS-Ohio River Forecast Center, and USACE



Screen shot of interactive Shinyapp accessible by the QR code below.

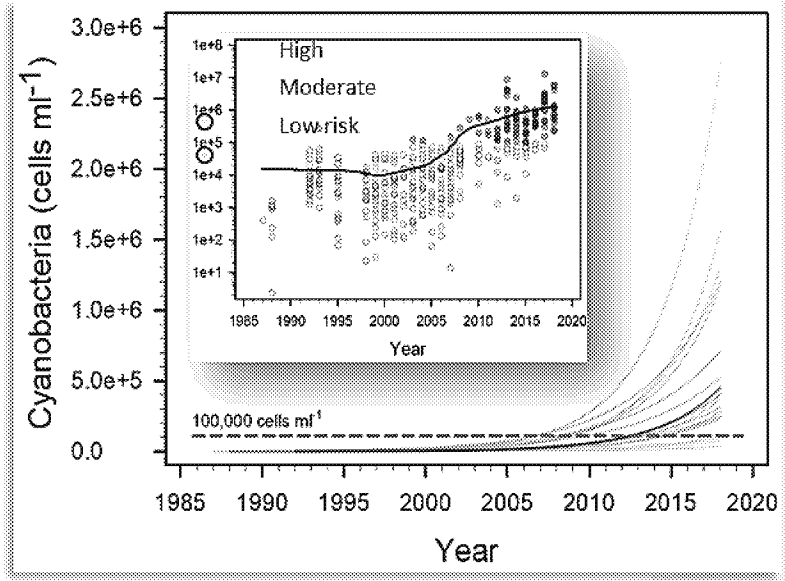
CyanoHABs in Warming Waters

Issue: How cyanHABs may change in response to climate.

Approach: 27–32 years of monitoring data from 20 temperate reservoirs located in Indiana, Kentucky, and Ohio.

Status/Ongoing Activities:

- Smucker et al. 2021. *Global Change Biology* 27: 2507–2519. Six presentations to stakeholders and scientific communities.
- Ongoing: Draft manuscript on satellite-derived estimates of cyanobacteria in reservoirs trends and relationships with field-based measures of eutrophication.
- Future: Remote sensing to examine frequencies and durations, and potential for fuller taxonomic and limnological analysis.



CyanoHAB high health risk events across 20 reservoirs rapidly increased within a decade at different rates and magnitudes.

Partners: U.S. Army Corps of Engineers Louisville District

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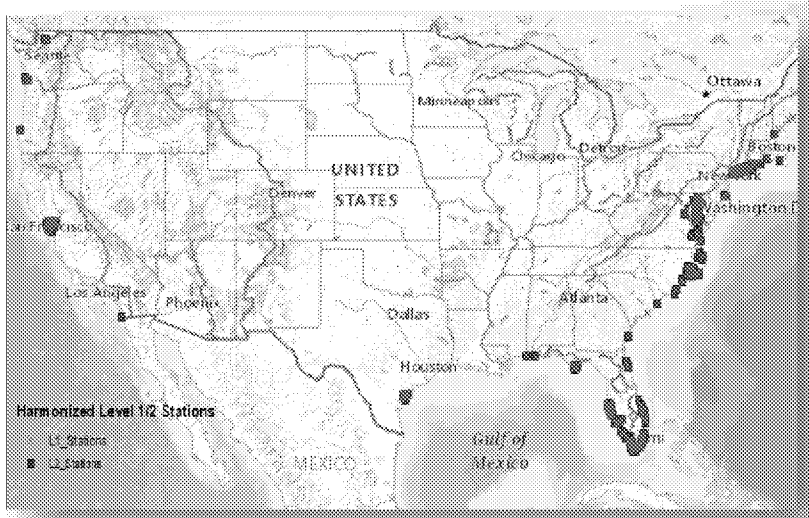
Mapping CyanoHAB Probabilities in Coastal Systems

Issue: CyanoHABs detected in coastal systems in the U.S., with cyanotoxins in shellfish at levels of concern for human health.

Approach: Multi-density neural networks to estimate chlorophyll in estuaries from Sentinel-2 missions with to develop logistic models predicting probability of cyanoHABs.



Locations of paired chlorophyll to Sentinel-2 observations.

Status/Ongoing Activities:

- EstuarySat database of > 123,000 matched observations.
- CERF presentation and draft manuscript in progress.
- Ongoing: Evaluating atmospheric corrections and post-calibration of cyanoHAB metrics to measures related to human health thresholds.
- Future: Predictive logistic regression models published in EPA Estuary Data Mapper.

Partners: NEPs, NERRs

ED_006247N_00002428-00036

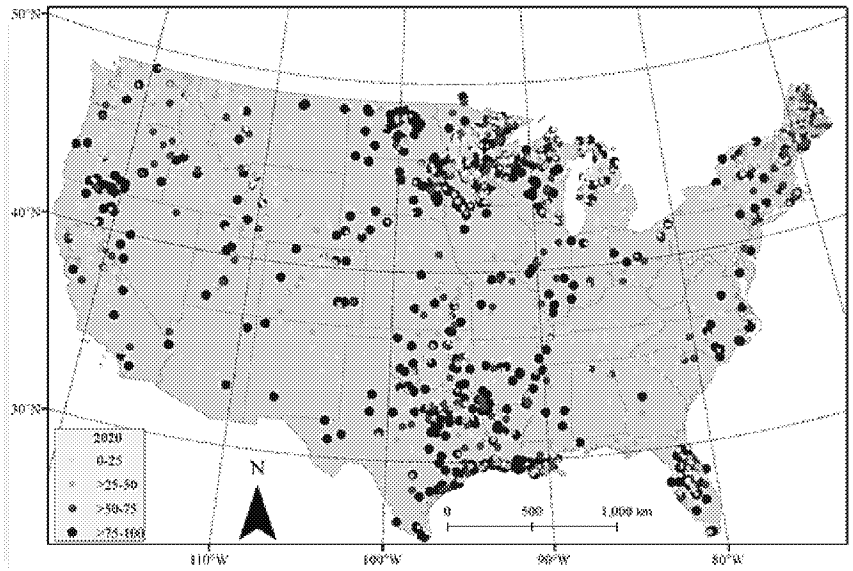
Cyanobacteria Assessment Network (CyAN)

Issue: Limited resources available to cover broad spatial and temporal scales to monitor cyanobacteria.

Approach: Satellites quantify spatial extent, temporal frequency, and magnitude.

Status/Ongoing Activities:

- 25+ publications, 200+ presentations, 85+ media events.
- Ongoing: 1 manuscript in review, and 4 in prep.
- Future: Potential for Sentinel-2 higher resolution chlorophyll.



2020 spatial extent of satellite detected cyanoHABs across <2,000 lakes. CyAN is accessible through the QR code.

Partners: EPA Office of Water and Regions 1-10, states, local groups

ED_006247N_00002428-00037

Modeling Anthropogenic and Environmental Influences

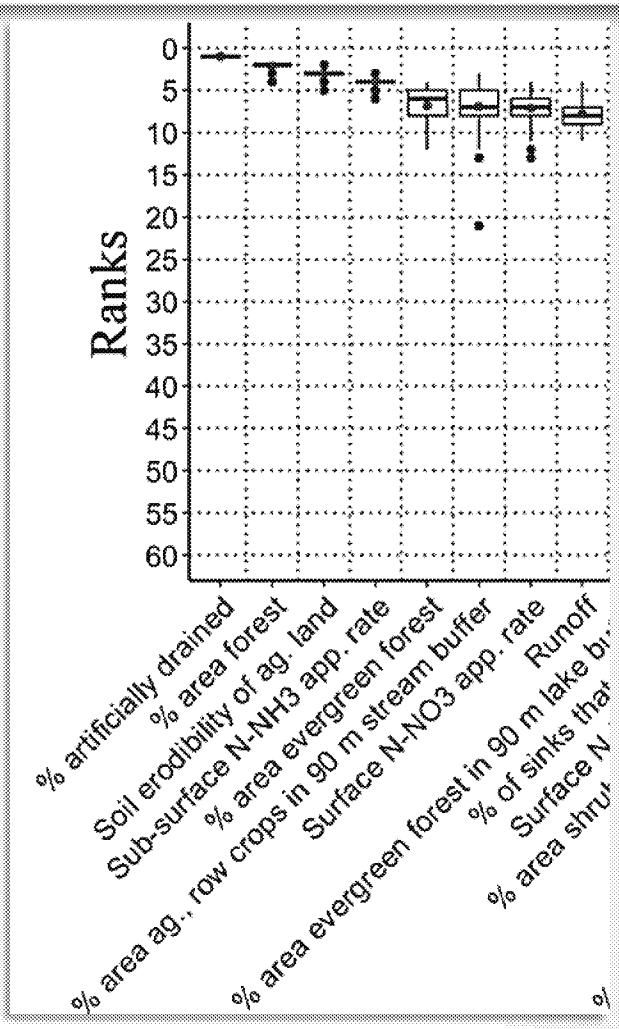
Issue: Identification of top drivers that either promote or deter cyanobacteria bloom development for 369 northcentral U.S. freshwater lakes or reservoirs.

Approach: Identify primary drivers for cyanobacteria bloom development.

Status/Ongoing Activities:

- Iames et al. 2021. *Water Resources Research.*
- Future: Use of these techniques to rank primary drivers for cyanobacteria development in estuarine systems in USA.

Partners: EPA Office of Water



Distribution of predictor variable of importance.

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Predict Risk from CyanoHAB and Microcystin Toxins

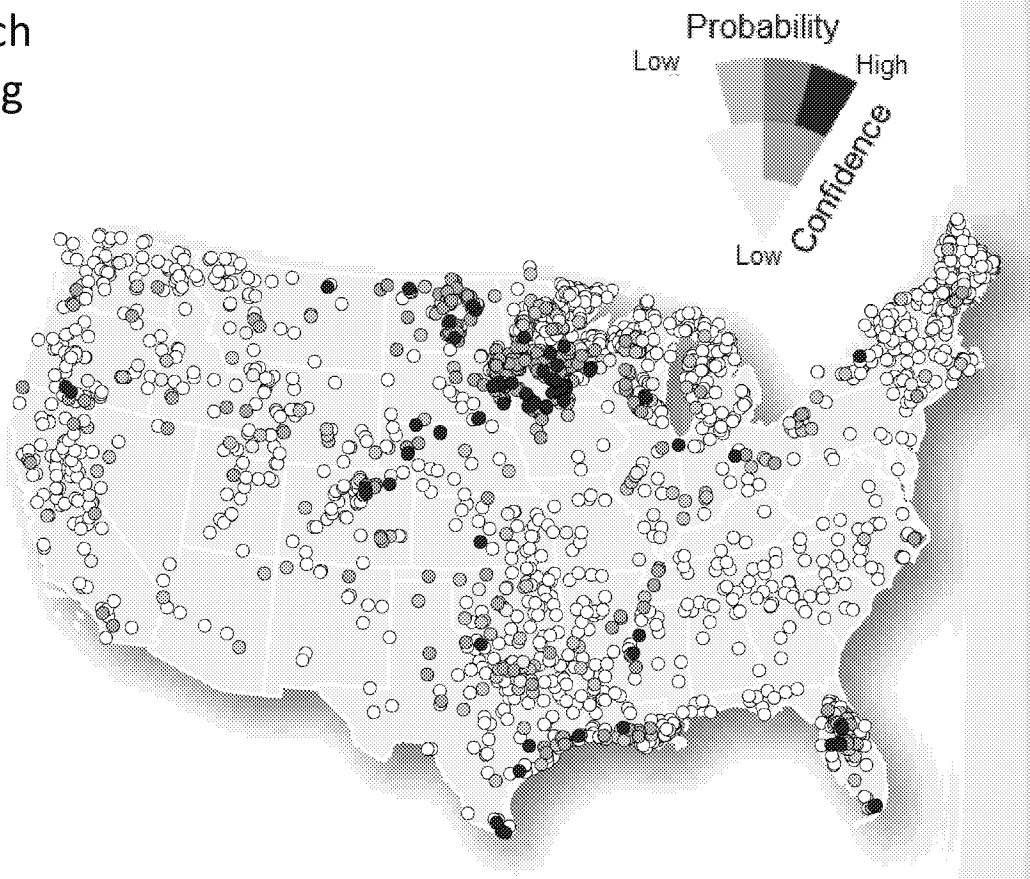
Issue: Tools are needed to prioritize which lakes are more likely to require monitoring for cyanoHABs.

Approach: Model the probability of exceeding thresholds for cyanobacteria and microcystin by combining satellite imagery and national field survey data for large lakes in the contiguous US.

Status/Ongoing Activity:

- Manuscript in EPA clearance.
- 17 external and internal EPA presentations.
- Future: Evaluate regional and local watershed drivers of cyanoHABs risk.

Partners: EPA Regions 10, 8, 7, and 4



Probability of exceeding 0.2 µg/L microcystin in 2,192 satellite-monitored lakes

ED_006247N_00002428-00039

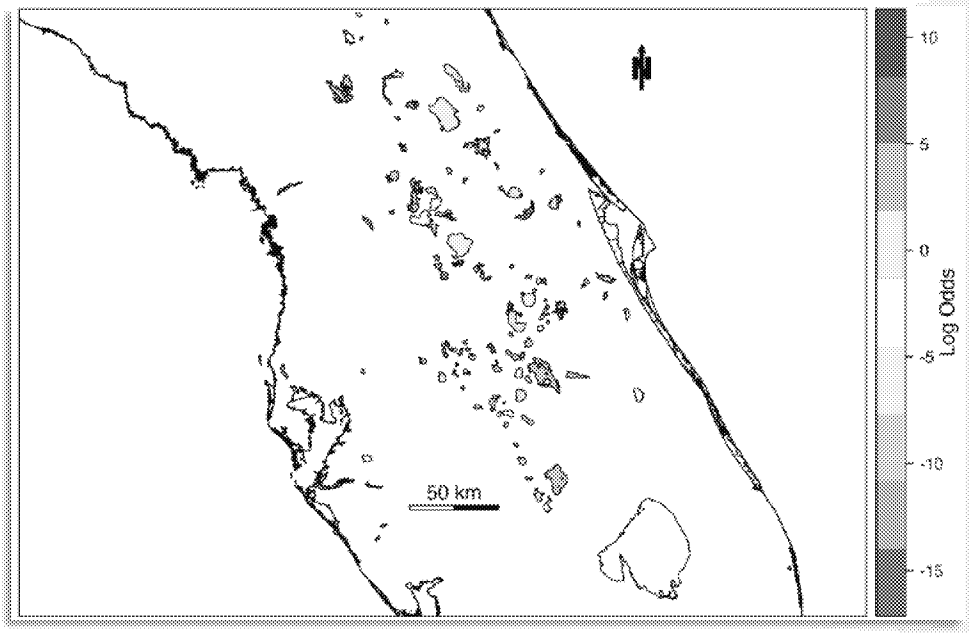
Forecasting CyanoHAB Biomass

Issue: Developing forecast capability remains a major priority.

Approach: Spatio-temporal Bayesian hierarchical model (INLA) with 88% accuracy based on holdout data.

Status/Ongoing Activities:

- Myer et al. 2020. Frontiers in Environmental Science.
- Ongoing: Apply model at a broader regional scale and assess performance.
- Future: Apply model at U.S. scale and assess performance.



Lakes with relatively higher log-odds of a high-risk cyanobacteria bloom are indicated with warm colors, while cool colors represent lakes with relatively lower log-odds of high-risk blooms.

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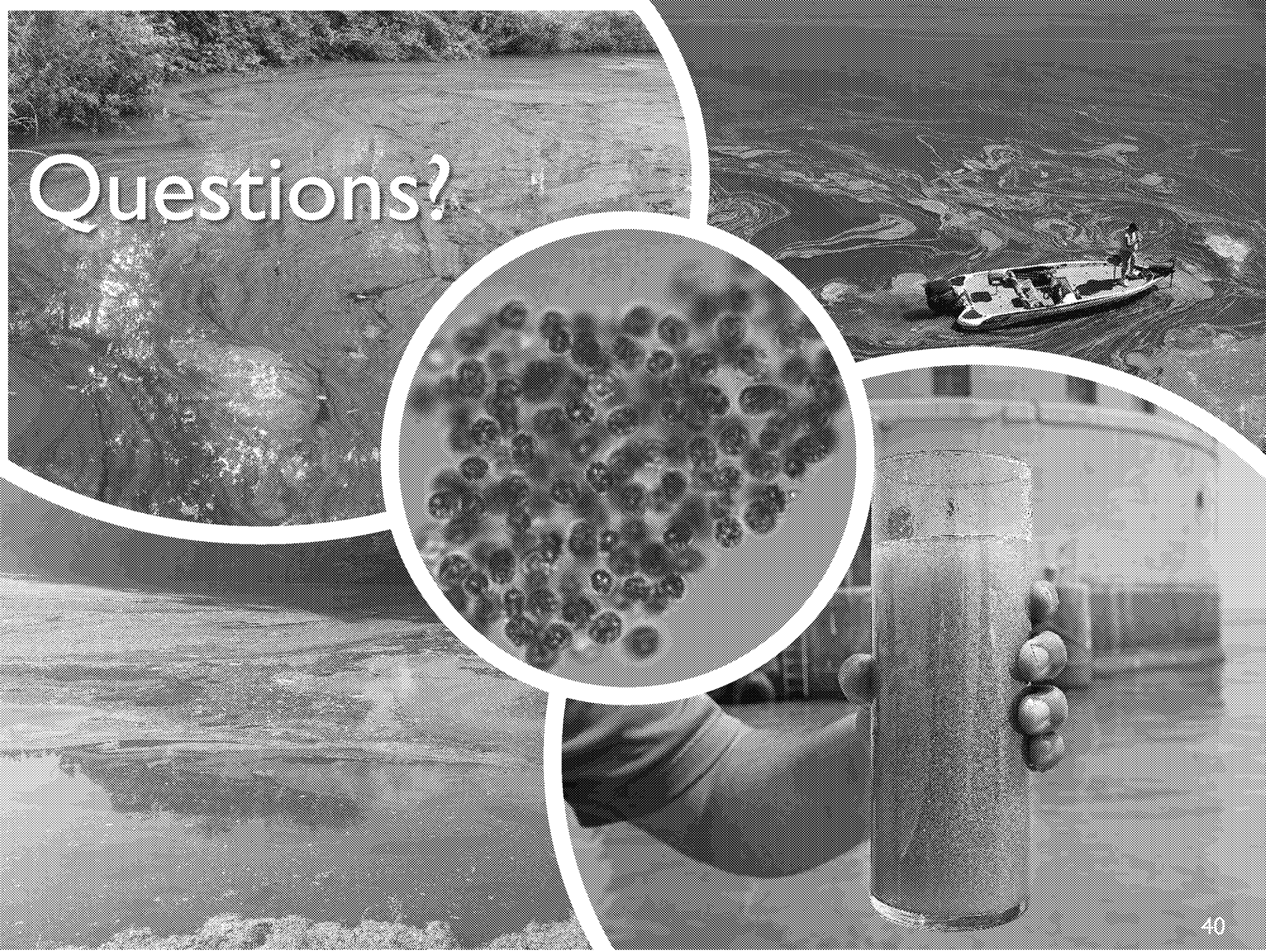
Questions?



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Charge Question 3

Harmful algal blooms are complex ecological processes that are affected by a variety of factors, including nutrient availability, water temperature, weather patterns, solar irradiation, limnology, and competing microorganisms. Much is still unknown regarding the human and environmental health effects of toxins produced during blooms.

What suggestion(s)/ recommendation(s) does the Subcommittee have on ORD's implementation of the HABs portfolios, particularly in

a) determining the toxicity of HABs, and

b) developing the capacity to forecast HAB events to prevent or mitigate exposure?

ED_006247N_00002428-00042

Appointment

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Sent: 8/16/2021 1:20:38 PM
To: Tracy, Tom [Tracy.Tom@epa.gov]; Scott Ahlstrom [Scott.Ahlstrom@CorixTexas.com]; ahlmai[Ex. 6]Jerad Bales [jdbales@cuahsi.org]; Carr, Steve [scarr@lacsd.org]; sfc95823[Ex. 6] cole.david@deq.state.or.us; jb_doohan[Ex. 6]jducoste@ncsu.edu; Elizabeth Fassman-Beck [elizabethfb@sccwrp.org]; Hitzhusen, Fred [Hitzhusen.1@osu.edu]; Kate Lajtha [kate.lajtha@oregonstate.edu]; miclorah[Ex. 6]mmlorah@usgs.gov; John Lowenthal [john.lowenthal@cardno-gs.com]; eastmeetswest1[Ex. 6]Joseph V Rodricks [JRodricks@ramboll.com]; Tim Verslycke [tverslycke@gradientcorp.com]; stevew@sccwrp.org; John R White [jrwhite@lsu.edu]; ljohnson@d.umn.edu; VanDrunick, Suzanne [vanDrunick.Suzanne@epa.gov]; Williams, Joe [Williams.Joe@epa.gov]; Rea, Anne [Rea.Anne@epa.gov]; Trentacoste, Emily [trentacoste.emily@epa.gov]; canden.byrd@icf.com; Lass, Taylor [Lass.Taylor@epa.gov]; Steve Carr [Ex. 6]
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Subject: BOSC SSWR Virtual Meeting
Attachments: Untitled Attachment; Untitled Attachment; BoSC Charge Questions_Nutrients and HABs_Dec 1-2 2021.pdf; SSWR BOSC Nutrients and HABs Agenda.pdf; BOSC_SSWR_RA6 FINAL.pdf; BOSC_SSWR_RA5 FINAL.pdf; BOSC_SSWR_RA4_FINAL.pdf
Location: Zoom - Connection Info Below - Open "The Entire Series"

Start: 12/1/2021 5:00:00 PM
End: 12/1/2021 10:00:00 PM
Show Time As: Tentative

Recurrence: Daily
every day from 12:00 PM to 5:00 PM

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[Ex. 6]

Meeting ID: [Ex. 6]
Passcode: [Ex. 6]

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Location: Zoom - Connection Info Below - Open "The Entire Series"

Start: 12/1/2021 5:00:00 PM
End: 12/1/2021 10:00:00 PM

Recurrence: (none)

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From: Tracy, Tom [Tracy.Tom@epa.gov]
Sent: 8/16/2021 1:20:38 PM
To: Tracy, Tom [Tracy.Tom@epa.gov]; Scott Ahlstrom [Scott.Ahlstrom@CorixTexas.com]; ahlmail[Ex. 6]Jerad Bales [jdbales@cuahsi.org]; Carr, Steve [scarr@lacsd.org]; sfc95823[Ex. 6] cole.david@deq.state.or.us; jb_doohan[Ex. 6]jducoste@ncsu.edu; Elizabeth Fassman-Beck [elizabethfb@sccwrp.org]; Hitzhusen, Fred [Hitzhusen.1@osu.edu]; Kate Lajtha [kate.lajtha@oregonstate.edu]; miclorah[Ex. 6]mmlorah@usgs.gov; John Lowenthal [john.lowenthal@cardno-gs.com]; eastmeetswest1[Ex. 6]Joseph V Rodricks [JRodricks@ramboll.com]; Tim Verslycke [tverslycke@gradientcorp.com]; stevew@sccwrp.org; John R White [jrwhite@lsu.edu]; ljohnson@d.umn.edu; VanDrunick, Suzanne [vanDrunick.Suzanne@epa.gov]; Williams, Joe [Williams.Joe@epa.gov]; Rea, Anne [Rea.Anne@epa.gov]; Trentacoste, Emily [trentacoste.emily@epa.gov]; canden.byrd@icf.com; Lass, Taylor [Lass.Taylor@epa.gov]; Steve Carr[Ex. 6]
CC: Ross, Mary [Ross.Mary@epa.gov]; Doa, Maria [Doa.Maria@epa.gov]; Penalva-Arana, Carolina [Penalva-Arana.Carolina@epa.gov]; Hawkins, CherylA [Hawkins.CherylA@epa.gov]; COLE David * DEQ [david.cole@deq.state.or.us]; Rodan, Bruce [rodan.bruce@epa.gov]; Frey, Christopher [Frey.Christopher@epa.gov]; Cascio, Wayne [cascio.wayne@epa.gov]; Hagerthey, Scot [Hagerthey.Scot@epa.gov]; Rashleigh, Brenda [Rashleigh.Brenda@epa.gov]; Russell, Marc [Russell.Marc@epa.gov]; Thurston, Hale [Thurston.Hale@epa.gov]; Hilborn, Elizabeth [Hilborn.E@epa.gov]; Dugan, Nicholas [Dugan.Nicholas@epa.gov]; Schaeffer, Blake [Schaeffer.Blake@epa.gov]; Brown, Cheryl A. [Brown.Cheryl@epa.gov]; Schofield, Kate [Schofield.Kate@epa.gov]; Golden, Heather [Golden.Heather@epa.gov]; Yuan, Yongping [Yuan.Yongping@epa.gov]; Compton, Jana [Compton.Jana@epa.gov]; Nietch, Christopher [Nietch.Christopher@epa.gov]; Grimm, Ann [Grimm.Ann@epa.gov]; Smucker, Nathan [Smucker.Nathan@epa.gov]; Garmestani, Ahjond [Garmestani.Ahjond@epa.gov]; Boothman, Warren [Boothman.Warren@epa.gov]; Ridley, Caroline [Ridley.Caroline@epa.gov]; Nestlerode, Janet [Nestlerode.Janet@epa.gov]; Oczkowski, Autumn [Oczkowski.Autumn@epa.gov]; Pacella, Stephen [Pacella.Stephen@epa.gov]; Hagy, Jim [Hagy.Jim@epa.gov]; Handler, Amalia [Handler.Amalia@epa.gov]; Brooks, J. Renee [Brooks.Reneej@epa.gov]; Weitzman, Julie [weitzman.julie@epa.gov]; Pauer, James [Pauer.James@epa.gov]; Lazorchak, Jim [Lazorchak.Jim@epa.gov]; Murray, Regan [Murray.Regan@epa.gov]; Keeley, Ann [Keeley.Ann@epa.gov]; Best-Wong, Benita [Best-Wong.Benita@epa.gov]; Ohanian, Edward [Ohanian.Edward@epa.gov]; Pollard, Amina [Pollard.Amina@epa.gov]; Nagle, Deborah [Nagle.Deborah@epa.gov]; Goodin, John [Goodin.John@epa.gov]; Sawyers, Andrew [Sawyers.Andrew@epa.gov]; Wood, Robert [Wood.Robert@epa.gov]; Connors, Sandra [Connors.Sandra@epa.gov]; Miller, Wynne [Miller.Wynne@epa.gov]; Guilaran, Yu-Ting [Guilaran.Yu-Ting@epa.gov]; Morton, Michael [Morton.Michael@epa.gov]; Chamberlain, Eliodora [Chamberlain.Eliodora@epa.gov]; Daniels, Jason [Daniels.Jason@epa.gov]; Varnado, Miriam [Varnado.Miriam@epa.gov]; Thomas, Dana [Thomas.Dana@epa.gov]; Euling, Susan [Euling.Susan@epa.gov]; Gallagher, Kathryn [Gallagher.Kathryn@epa.gov]; Oliver, Jacques [Oliver.Jacques@epa.gov]; DAnglada, Lesley [DAnglada.Lesley@epa.gov]; Pelletier, Peg [Pelletier.Peg@epa.gov]; Lehmann, Sarah [Lehmann.Sarah@epa.gov]; Flahive, Katie [Flahive.Katie@epa.gov]; Corona, Joel [Corona.Joel@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Newman, Sharon [Newman.Sharon@epa.gov]; Zahreddine, Phil [Zahreddine.Phil@epa.gov]; Smith, Bernicel [Smith.Bernicel@epa.gov]; Rose, Bob [Rose.Bob@epa.gov]; Wall, Tom [Wall.Tom@epa.gov]; Scozzafava, MichaelE [Scozzafava.MichaelE@epa.gov]; Yusuf, Istanbul [Yusuf.Istanbul@epa.gov]; McKane, Bob [Mckane.Bob@epa.gov]; Foreman, Katherine [Foreman.Katherine@epa.gov]; McLain, Jennifer L. [Mclain.Jennifer@epa.gov]

Subject: BOSC SSWR Virtual Meeting
Attachments: Untitled Attachment; Untitled Attachment; BoSC Charge Questions_Nutrients and HABs_Dec 1-2 2021.pdf; SSWR BOSC Nutrients and HABs Agenda.pdf; BOSC_SSWR_RA6 FINAL.pdf; BOSC_SSWR_RA5 FINAL.pdf; BOSC_SSWR_RA4_FINAL.pdf
Location: Zoom - Connection Info Below - Open "The Entire Series"

Start: 12/1/2021 5:00:00 PM
End: 12/1/2021 10:00:00 PM
Show Time As: Tentative

Recurrence: Daily
every day from 12:00 PM to 5:00 PM
Required Attendees: Scott.Ahlstrom@CorixTexas.com; ahlmail[Ex. 6]jdbales@cuahsi.org; scarr@lacsd.org; sfc95823[Ex. 6] cole.david@deq.state.or.us; jb_doohan[Ex. 6]jducoste@ncsu.edu; elizabethfb@sccwrp.org;

Hitzhusen.1@osu.edu; kate.lajtha@oregonstate.edu; miclorah[Ex. 6]mmlorah@usgs.gov; john.lowenthal@cardno-gs.com; eastmeetswest1[Ex. 6]JRodricks@ramboll.com; tverslycke@gradientcorp.com; stevew@sccwrp.org; jrwhite@lsu.edu; ljohnson@d.umn.edu; VanDrunick, Suzanne; Williams, Joe; Rea, Anne; Trentacoste, Emily; canden.byrd@icf.com; Lass, Taylor; Steve Carr

Optional Attendees: Ross, Mary; Doa, Maria; Penalva-Arana, Carolina; Hawkins, CherylA; COLE David * DEQ; Rodan, Bruce; Frey, Christopher; Wayne Cascio; Hagerthey, Scot; Rashleigh, Brenda; Russell, Marc; Thurston, Hale; Hilborn, Elizabeth; Dugan, Nicholas; Schaeffer, Blake; Brown, Cheryl A.; Kate Schofield; Golden, Heather; Yuan, Yongping; Compton, Jana; Nietch, Christopher; Grimm, Ann; Smucker, Nathan; Garmestani, Ahjond; Boothman, Warren; Ridley, Caroline; Nestlerode, Janet; Oczkowski, Autumn; Pacella, Stephen; Hagy, Jim; Handler, Amalia; Brooks, J. Renee; Weitzman, Julie; Pauer, James; Lazorchak, Jim; Murray, Regan; Keeley, Ann; Best-Wong, Benita; Ohanian, Edward (Ohanian.Edward@epa.gov); Amina Pollard (Pollard.Amina@epa.gov); Nagle, Deborah; Goodin, John; Sawyers, Andrew; McLain, Jennifer L.; Wood, Robert; Connors, Sandra; Miller, Wynne; Guilaran, Yu-Ting; Morton, Michael; Eliodora Chamberlain (Chamberlain.Eliodora@epa.gov); Jason Daniels (Daniels.Jason@epa.gov); Varnado, Miriam; Thomas, Dana; Euling, Susan; Gallagher, Kathryn; Oliver, Jacques; DAnglada, Lesley; Pelletier, Peg; Lehmann, Sarah; Flahive, Katie; Corona, Joel; Lan, Alexis; Newman, Sharon; Zahreddine, Phil; Smith, Bernicel; Rose, Bob; Wall, Tom; Scozzafava, MichaelE; Yusuf, Istanbul; McKane, Bob; Foreman, Katherine

[Ex. 6]

Meeting ID: [Ex. 6]
Passcode: [Ex. 6]

Appointment

From: Frey, Christopher [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=B977974633144C458C3D2A3F4F62BF0B-FREY, H]
Sent: 4/7/2021 3:34:40 PM
To: Morris-McLawhorn, Bridgette R [bmorris@ncdenr.gov]

Subject: Accepted: Meet and Greet with NCDEQ Secretary Dionne Delli-Gatti
Location: Microsoft Teams

Start: 5/18/2021 3:00:00 PM
End: 5/18/2021 3:30:00 PM
Show Time As: Busy

Appointment

From: Tracy, Tom [Tracy.Tom@epa.gov]
Sent: 9/28/2021 8:48:10 PM
To: Paul Gilman [PGilman@covanta.com]; ljohnson@d.umn.edu; jt@pnnl.gov; Paula Olsiewski [olsiewski@outlook.com]; Joseph V Rodricks [JRodricks@ramboll.com]; James Stevens [Ex. 6] Rubin, Isadore Leslie [lrubi01@emory.edu]; Matthew Naud [Ex. 6] Courtney Flint [Courtney.Flint@usu.edu]; ca.geffen@pnnl.gov; Kari Cutting [Ex. 6] sfc95823 [Ex. 6] Viney P Aneja [vpaneja@ncsu.edu]; Waters, Katrina M [Katrina.Waters@pnnl.gov]; Sandy Smith [Ex. 6] Kari@cecnd.net; Watkins, Tim [Watkins.Tim@epa.gov]; Impellitteri, Christopher [Impellitteri.Christopher@epa.gov]; Gilliland, Alice [Gilliland.Alice@epa.gov]; Voit, Jim [Voit.Jim@epa.gov]; Mills, Marc [mills.marc@epa.gov]; McCord, James [mccord.james@epa.gov]; Shoemaker, Jody [shoemaker.jody@epa.gov]; Phelps, Lara [Phelps.Lara@epa.gov]; Liberatore, Hannah [Liberatore.Hannah@epa.gov]; Guiseppi-Elie, Annette [Guiseppi-Elie.Annette@epa.gov]; Thomas, Russell [Thomas.Russell@epa.gov]; Judson, Richard [Judson.Richard@epa.gov]; Wetmore, Barbara [wetmore.barbara@epa.gov]; Conley, Justin [Conley.Justin@epa.gov]; Ward-Caviness, Cavin [ward-caviness.cavin@epa.gov]; Owens, Beth [Owens.Beth@epa.gov]; Kraft, Andrew [Kraft.Andrew@epa.gov]; Thayer, Kris [thayer.kris@epa.gov]; Sayles, Gregory [Sayles.Gregory@epa.gov]; Speth, Thomas [Speth.Thomas@epa.gov]; Linak, Bill [Linak.Bill@epa.gov]; Shields, Erin [Shields.Erin@epa.gov]; Potter, Phillip [potter.phillip@epa.gov]; Krause, Max [krause.max@epa.gov]; Acheson, Carolyn [Acheson.Carolyn@epa.gov]; Rainer Lohmann [rlohmann@uri.edu]; mmlorah@usgs.gov; stevew@sccwrp.org; Kate Lajtha [Kate.lajtha@oregonstate.edu]; Bart Croes [Ex. 6] mtkleinm@uci.edu; Rohr, Annette [arohr@epri.com]; Gennings, Chris [chris.gennings@mssm.edu]; jmcpartland@edf.org; Solomon, Gina [gina.solomon@ucsf.edu]; Rick_Becker@americanchemistry.com; Barrett Ristroph [barrett@ristrophlaw.com]; Kelly, James (MDH) <james.kelly@state.mn.us> [Kelly]; James.kelly@state.mn.us; Carr, Steve [scarr@lacsd.org]; James.kelly@state.mn.us; Tim Verslycke [tverslycke@gradientcorp.com]; Monica Schoch-Spana [mschoch1@jhu.edu]; lrivers@ncsu.edu; Scheckel, Kirk [Scheckel.Kirk@epa.gov]; Rick Becker [Ex. 6]
CC: Lass, Taylor [Lass.Taylor@epa.gov]; canden.byrd@icf.com; Trentacoste, Emily [trentacoste.emily@epa.gov]; Ross, Mary [Ross.Mary@epa.gov]; Doa, Maria [Doa.Maria@epa.gov]; Hawkins, CherylA [Hawkins.CherylA@epa.gov]; Penalva-Arana, Carolina [Penalva-Arana.Carolina@epa.gov]; Burden, Susan [Burden.Susan@epa.gov]; Rodan, Bruce [rodan.bruce@epa.gov]; Cascio, Wayne [Cascio.Wayne@epa.gov]; Frey, Christopher [Frey.Christopher@epa.gov]; Matthew Naud [matt@adapt.city]; Matthew Naud [mnaud@Recycle.com]; Munns, Wayne [Munns.Wayne@epa.gov]; Barrett Ristroph [Ex. 6] Maurice, Charles [maurice.charles@epa.gov]; Offenberg, John [Offenberg.John@epa.gov]; Tolaymat, Thabet [Tolaymat.Thabet@epa.gov]; O'Farrell, Thomas [OFarrell.Thomas@epa.gov]

Subject: BOSC EC Virtual Mtg - Topic: PFAS
Attachments: Agenda and Charge Questions_Updated.pdf
Location: ZOOM - Connection Info Below

Start: 9/29/2021 4:00:00 PM
End: 9/29/2021 9:00:00 PM
Show Time As: Tentative

Recurrence: Daily
every day from 12:00 PM to 5:00 PM
Required Attendees: PGilman@covanta.com; ljohnson@d.umn.edu; jt@pnnl.gov; Paula Olsiewski; Joseph V Rodricks; JLS.paradoxfound [Ex. 6] Rubin, Isadore Leslie; Matthew Naud; Courtney Flint; ca.geffen@pnnl.gov; Kari Cutting; sfc95823 [Ex. 6] 'Viney Aneja'; Waters, Katrina M; Sandy Smith; Kari@cecnd.net; Watkins, Tim; Christopher Impellitteri; Gilliland, Alice; Voit, Jim; Mills, Marc; McCord, James; Shoemaker, Jody; Phelps, Lara; Liberatore, Hannah; Guiseppi-Elie, Annette; Thomas, Russell; Judson, Richard; Wetmore, Barbara; Conley, Justin; Ward-Caviness, Cavin; Owens, Beth; Kraft, Andrew; Thayer, Kris; Sayles, Gregory; Speth, Thomas; Linak, Bill; Shields, Erin; Potter, Phillip; Krause, Max; Acheson, Carolyn; rlohmann@uri.edu; mmlorah@usgs.gov; Steve Weisberg; kate.lajtha@oregonstate.edu; Bart Croes; Michael T. Kleinman; Rohr, Annette; Gennings, Chris; jmcpartland@edf.org; gina.solomon@ucsf.edu; Becker, Rick; Barrett Ristroph; Kelly, James (MDH) <james.kelly@state.mn.us>; Carr, Steve; James.kelly@state.mn.us; Tim Verslycke; Monica Schoch-Spana; Louie Rivers; Scheckel, Kirk; Rick Becker

Optional Attendees: Lass, Taylor; canden.byrd@icf.com; Trentacoste, Emily; Ross, Mary; Doa, Maria; Hawkins, CherylA; Penalva-Arana, Carolina; Burden, Susan; Rodan, Bruce; Wayne Cascio; Frey, Christopher; matt@adapt.city; Matthew Naud; Munns, Wayne; ebristroph Ex. 6 Maurice, Charles; Offenberg, John; Tolaymat, Thabet; O'Farrell, Thomas

Ex. 6

Meeting ID: Ex. 6
Passcode: Ex. 6

All presentations can be found on the BOSC internet site.

BOSC Executive Committee PFAS Meeting

Charge Questions and Agenda

Introduction

The mission of the U.S. EPA's Office of Research and Development (ORD) is to provide the best available science and technology to inform and support public health and environmental decision-making at federal, state, tribal, and local levels. This leading-edge research addresses critical environmental challenges and anticipates future science needs.

The September 29-30, 2021, meeting of the BOSC Executive Committee will include a review of ORD's implementation of PFAS research and development. ORD is currently implementing a broad PFAS research and development program that spans ORD's national research programs. The program includes research to:

- Develop methods and approaches for measuring PFAS,
- Better understand risks to human health and the environment from PFAS, and
- Identify and evaluate approaches for addressing PFAS in the environment.

The purpose of this review is to receive the Executive Committee's feedback on the charge questions below.

Question 1 – "Total PFAS" Methods

Many stakeholders have identified a need for validated "total PFAS" methods, such as total organic fluorine (TOF) or total oxidizable precursor (TOP) methods, to quantitatively measure a non-specific amount of PFAS in environmental samples. EPA has expanded the scientific foundation for identifying and quantifying PFAS in the environment through the development of validated analytical methods for specific PFAS and the use of non-targeted analysis methods. ORD researchers are working to develop validated TOF methods for wastewater and air emissions.

Please comment on the implementation of ORD's PFAS methods research. In addition, what suggestions and recommendations can the Executive Committee offer on the utility of "total PFAS" methods and other analytical approaches for identifying "total PFAS" in environmental samples?

Question 2 – Human Health Effects

Due to the large number of PFAS in commerce and the environment, there is an emerging consensus on the need to use grouping- or category-based approaches to assess and address potential PFAS toxicity. While structure-based categories are most common, there is no clear consensus method for categorizing PFAS, and ORD researchers are evaluating other features (e.g., chemical and physical properties, toxicokinetic properties, toxicity mechanisms) for use in categorizing PFAS for human health risk assessment and risk mitigation purposes.

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Please comment on the implementation of ORD's research on the human health effects from PFAS. In addition, what suggestions and recommendations can the Executive Committee offer on common category characteristics that would maximize the utility of the resulting PFAS groupings for the broadest set of decision contexts?

Question 3 – Treatment Field Studies

Data on the efficacy and costs of different approaches for removing PFAS from the environment and managing PFAS and PFAS-containing materials are needed to inform federal, state, tribal, and local decisions on drinking water and wastewater treatment, contaminated site clean-up and remediation, and end-of-life materials management. ORD is working to increase our understanding of approaches for addressing PFAS in the environment through analytical method development, laboratory-based studies, pilot-scale studies, and field studies.

Please comment on the implementation of ORD's PFAS treatment research. In addition, what suggestions and recommendations can the Executive Committee offer for working and communicating with communities in potential field study locations?

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BOSC Executive Committee PFAS Meeting

Day 1 – September 29

Time (EDT)	Topic	Speakers
11:30 – 12:00	Sign-on and Technology Check	
12:00 – 12:15	Welcome, Opening Remarks and Member Introductions	Tom Tracy (DFO), Lucinda Johnson (BOSC EC Vice Chair)
12:15 – 12:30	ORD Welcome	Chris Frey
12:30 – 12:45	Overview of Charge Questions and Meeting Format	Susan Burden
	PFAS Overview	
12:45 – 1:00	An Introduction to PFAS	Tim Watkins
1:00 – 1:15	ORD's PFAS Research and Development Portfolio	Susan Burden
	Charge Question 1 – Total PFAS Methods	
1:15 – 1:30	Analytical Methods Overview	Chris Impellitteri
1:30 – 1:45	"Total PFAS" Methods	Alice Gilliland
1:45 – 2:45	**Charge Question 1 – Breakout Rooms**	
	Breakout Room 1 – Water Methods	
	Analytical methods for PFAS measurement in environmental samples (aqueous)	Jim Voit
	Analytical method for PFAS in environmental media: CWA-1633	Marc Mills
	Non-targeted analysis of water	James McCord
	Development of adsorbable organic fluorine screening method with detection by combustion ion chromatography	Jody Shoemaker
	Breakout Room 2 – Air Methods	
	Other Test Method 45 (OTM-45)	Lara Phelps
	Additional source air methods under development	Lara Phelps
	Wet deposition of PFAS	John Offenberg
	Total organic fluorine analysis for PFAS in air	Hannah Liberatore
2:45 – 2:55	BREAK	
2:55 – 3:15	**Clarifying Questions on Charge Question 1 Content**	**Lucinda Johnson**
	Charge Question 2 – Human Health Effects	
3:15 – 3:30	Overview: Human Health Effects Research	Annette Guiseppi-Elie
3:30 – 3:45	ORD's Tiered Toxicity Testing Strategy for PFAS	Rusty Thomas

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3:45 – 4:40 **Charge Question 2 – Breakout Rooms**

Breakout Room 1 – Toxicity Testing

New approach methods – toxicity ..... Richard Judson

New approach methods – toxicokinetics ..... Barbara Wetmore

In vivo toxicity testing ..... Justin Conley

PFAS and multimorbidity: Using electronic health records to probe systemic effects ..... Cavin Ward-Caviness

Breakout Room 2 – Assessments

Human health toxicity assessment for PFBS ..... Beth Owens

Draft IRIS assessments for PFBA, PFHxA, PFDA, PFHxS, PFNA, and their related salts ..... Andrew Kraft

Systematic evidence maps to characterize available evidence for 9000 PFAS ..... Kris Thayer

4:40 – 5:00 **Clarifying Questions on Charge Question 2 Content ..... Lucinda Johnson**

5:00 – 6:00 BOSC Executive Committee Deliberations ..... Lucinda Johnson

6:00 Adjourn

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BOSC Executive Committee PFAS Meeting

Day 2 – September 30

Time (EDT)	Topic	Speakers
11:30 – 12:00	Sign-on and Technology Check	
12:00 – 12:15	Welcome Back	Tom Tracy (DFO), Lucinda Johnson (BOSC EC Vice Chair)
	Charge Question 3 – Treatment Field Studies	
12:15 – 12:30	Overview: PFAS Treatment and Destruction Research	Greg Sayles
12:30 – 12:45	EPA PFAS Innovative Treatment Team Findings on PFAS Destruction Technologies	Tim Watkins
12:45 – 1:45	**Charge Question 3 – Breakout Rooms**	
	Breakout Room 1 – Bench- and Pilot-Scale Studies	
	Drinking water treatment	Tom Speth
	Thermal treatment of PFAS	Bill Linak
	Non-combustion technologies for PFAS destruction	Max Krause
	Mechanochemical destruction of PFAS	Erin Shields
	Breakout Room 2 – Field Studies	
	Waste management	Thabet Tolaymat
	Land application of biosolids	Kirk Scheckel
	Field-scale thermal treatment	Phillip Potter
	Source characterization	Marc Mills
1:45 – 2:05	**Clarifying Questions on Charge Question 3 Content**	**Lucinda Johnson**
2:05 – 2:20	**ORD Wrap-up Presentation**	**Susan Burden**
2:20 – 2:30	BREAK	
2:30 – 3:00	Public Comment	Tom Tracy
3:00 – 5:00	BOSC Executive Committee Deliberations	Lucinda Johnson
5:00	Adjourn	

ED_006247N_00002884-00005

Appointment

From: Ray Wassel [rwassel@nas.edu]
Sent: 6/9/2021 4:03:21 PM
To: Ray Wassel [rwassel@nas.edu]; Orme-Zavaleta, Jennifer [Orme-Zavaleta.Jennifer@epa.gov]; Frey, Christopher [Frey.Christopher@epa.gov]; dgreenbaum@healtheffects.org; Trentacoste, Emily [trentacoste.emily@epa.gov]; 'Janet McGovern' [jmcgovern@healtheffects.org]

Subject: Anticipatory Research Committee Info Gathering
Location: Zoom

Start: 6/11/2021 7:00:00 PM
End: 6/11/2021 7:30:00 PM
Show Time As: Busy

-----Original Appointment-----
From: Wassel, Ray <RWassel@nas.edu>
Sent: Wednesday, June 9, 2021 11:54 AM
To: Wassel, Ray; dgreenbaum@healtheffects.org; Trentacoste, Emily; 'Janet McGovern'
Subject: Anticipatory Research Committee Info Gathering
When: Friday, June 11, 2021 3:00 PM-3:30 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Zoom

Hi there,

Ray Wassel is inviting you to a scheduled Zoom meeting.

Topic: Anticipatory Research Committee Info Gathering
Time: Jun 11, 2021 03:00 PM Eastern Time (US and Canada)

Join from PC, Mac, Linux, iOS or Android:
Ex. 6
Password: Ex. 6

Or iPhone one-tap :
US: Ex. 6
Or Telephone:
Dial(for higher quality, dial a number based on your current location) :
US: Ex. 6
Ex. 6
Meeting ID: Ex. 6
Password: Ex. 6
International numbers available: Ex. 6

Would you like to test your Zoom connection? Please click on the link below.
Ex. 6

Appointment

From: Tracy, Tom [Tracy.Tom@epa.gov]
Sent: 8/5/2021 2:21:15 PM
To: Tracy, Tom [Tracy.Tom@epa.gov]; ljohnson@d.umn.edu; jt@pnnl.gov; Paula Olsiewski [olsiewski@outlook.com]; Joseph V Rodricks [JRodricks@ramboll.com]; James Stevens [Ex. 6] Matthew Naud [Ex. 6]; ca.geffen@pnnl.gov; Kari Cutting [Ex. 6] sfc95823 [Ex. 6] Viney P Aneja [vpaneja@ncsu.edu]; Waters, Katrina M [Katrina.Waters@pnnl.gov]; Sandy Smith [Ex. 6] Kari@cecnd.net; Watkins, Tim [Watkins.Tim@epa.gov]; Impellitteri, Christopher [Impellitteri.Christopher@epa.gov]; Gilliland, Alice [Gilliland.Alice@epa.gov]; Voit, Jim [Voit.Jim@epa.gov]; Mills, Marc [mills.marc@epa.gov]; McCord, James [mccord.james@epa.gov]; Shoemaker, Jody [shoemaker.jody@epa.gov]; Phelps, Lara [Phelps.Lara@epa.gov]; Liberatore, Hannah [Liberatore.Hannah@epa.gov]; Guiseppi-Elie, Annette [Guiseppi-Elie.Annette@epa.gov]; Thomas, Russell [Thomas.Russell@epa.gov]; Judson, Richard [Judson.Richard@epa.gov]; Wetmore, Barbara [wetmore.barbara@epa.gov]; Conley, Justin [Conley.Justin@epa.gov]; Ward-Caviness, Cavin [ward-caviness.cavin@epa.gov]; Owens, Beth [Owens.Beth@epa.gov]; Kraft, Andrew [Kraft.Andrew@epa.gov]; Thayer, Kris [thayer.kris@epa.gov]; Sayles, Gregory [Sayles.Gregory@epa.gov]; Speth, Thomas [Speth.Thomas@epa.gov]; Linak, Bill [Linak.Bill@epa.gov]; Shields, Erin [Shields.Erin@epa.gov]; Potter, Phillip [potter.phillip@epa.gov]; Krause, Max [krause.max@epa.gov]; Acheson, Carolyn [Acheson.Carolyn@epa.gov]; Rainer Lohmann [rlohmann@uri.edu]; mmlorah@usgs.gov; stevew@sccwrp.org; Kate Lajtha [kate.lajtha@oregonstate.edu]; Bart Croes [Ex. 6] mtkleinm@uci.edu; Rohr, Annette [ARohr@epri.com]; Gennings, Chris [chris.gennings@mssm.edu]; jmcpartland@edf.org; Solomon, Gina [gina.solomon@ucsf.edu]; Rick_Becker@americanchemistry.com; Barrett Ristroph [barrett@ristrophlaw.com]; Carr, Steve [SCarr@lacsd.org]; James.kelly@state.mn.us; Tim Verslycke [tverslycke@gradientcorp.com]; Monica Schoch-Spana [mschoch1@jhu.edu]; lrivers@ncsu.edu; Scheckel, Kirk [Scheckel.Kirk@epa.gov]; Rick Becker [Ex. 6] PGilman@covanta.com; Rubin, Isadore Leslie [lrubi01@emory.edu]; Courtney Flint [Courtney.Flint@usu.edu]
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Subject: BOSC EC Virtual Meeting
Attachments: 2021_BOSC_SSWR_Report_FINAL.pdf; 2021_BOSC_HS_Report_FINAL.pdf; BOSC EC Sept Mtg Agenda Final.pdf
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REPORT OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY BOARD OF SCIENTIFIC COUNSELORS SAFE AND SUSTAINABLE WATER RESOURCES SUBCOMMITTEE

RESPONSES TO CHARGE QUESTIONS

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August 24, 2021

A Federal Advisory Committee for the U.S. Environmental Protection Agency's Office of Research and Development

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LIST OF ACRONYMS

BMP	Best Management Practices
DBP	Disinfection byproducts
EPA	U.S. Environmental Protection Agency
LID	Low impact development
MSX	Multi-Species eXtension
NTM	Nontuberculous mycobacteria
ONPWS	Onsite Non-potable Water Systems
OPPP	Opportunistic premise plumbing pathogens
ORD	EPA's Office of Research and Development
OW	EPA's Office of Water
SCMs	Stormwater control measures
StRAP	Strategic Research Action Plan
SWMM	Storm Water Management Model
WRF	Water Research Federation

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CHARGE QUESTIONS AND CONTEXT

The SSWR Subcommittee was charged with addressing a series of questions about water treatment and infrastructure, focused on Research Areas 7, 8, 9, 10, and 11. Charge questions were as follows:

> Q.1. What suggestion(s)/recommendation(s) does the Subcommittee have on ORD's implementation of its drinking-water and distribution research, and in particular on how these research activities can be comprehensively integrated to ensure safe disinfectant levels, while minimizing or eliminating exposure to lead, opportunistic pathogens, and DBPs in small treatment and distribution systems and in disadvantaged communities?
>
> Q.2. Please comment on the implementation of ORD's water reuse research, and what suggestion(s)/ recommendation(s) does the Subcommittee have regarding SSWR's water reuse research for helping to innovatively augment water supplies and improve resiliency by identifying promising alternative water sources?
>
> Q.3. In addition to evaluating ORD's stormwater research activities, what suggestion(s)/recommendation(s) does the Subcommittee have to improve the utility of these research activities to provide integrated decision-support tools for stormwater management in disadvantaged communities?

The responses of the SSWR Subcommittee to the charge questions are contained in the following section.

SUBCOMMITTEE RESPONSES TO CHARGE QUESTIONS

Charge Question 1

> Q.1. What suggestion(s)/recommendation(s) does the Subcommittee have on ORD's implementation of its drinking-water and distribution research, and in particular on how these research activities can be comprehensively integrated to ensure safe disinfectant levels, while minimizing or eliminating exposure to lead, opportunistic pathogens, and DBPs in small treatment and distribution systems and in disadvantaged communities?

Narrative

The Safe Drinking Water Act is the Agency driver for this area of research, and the foci now are on lead and copper analysis and reduction, emerging microbial contaminants, disinfection byproducts (DBPs), and environmental justice. Goals include improved and new treatment strategies that states, consultants, tribes, and water system managers can use directly to reduce lead and copper levels at consumer's taps; improved better management practices (building and utilities) aimed at reducing risks associated with *Legionella* and opportunistic premise plumbing pathogens (OPPPs); more effective management of disinfectant residual and DBPs in distribution and premise plumbing systems while effectively reducing OPPPs; and the ultimate goal of providing the U.S. Environmental Protection Agency's (EPA's) Office of Water (OW), states, tribes, small systems, and underserved communities with updated information to fill research gaps impeding/preventing regulatory determinations. The goal of achieving safe disinfectant levels while minimizing health risks from these various sources of risk requires developing and applying a

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comprehensive model that includes risk profiles for each of these sources, and that describes their interdependence in quantitative terms. Such a model can serve as a guide to achieving the desired degree of safety.

Strengths

- EPA's Office of Research and Development (ORD) presented a portfolio of cutting edge, focused research on DBPs, pathogens, and heavy metals, that is timely and relevant.
- The team is both using and developing highly effective models to understand fate, transport, and transformation of chemicals of concern in drinking water.
- The subcommittee commends ORD research for collaborating closely and integrating the technology with small businesses. The subcommittee believes there is excellent communication and collaboration among different groups, such as among modelers, chemists, and risk assessment scientists.

Suggestions

- Although *Legionella* is part of the research agenda, other opportunistic pathogens do not appear to be, such as nontuberculous mycobacteria (NTMs) and Pseudomonas. There has been great improvement over last 10 years, but still a poor understanding of how it gets into small systems, storage tanks, and greater distribution systems. More research is needed into the effects of temperature, water quality, disinfectant, and growth over time. Lastly, several approaches supporting specific building water management strategies to control *Legionella* have been developed. However, current science lacks evidence identifying whether these approaches actually work. The subcommittee suggests increased research efforts to establish which specific building water management strategies effectively control Legionella.
- Increased attention should be given to research on the poorly understood health risks (toxicities and human exposure profiles) of some of the non-regulated DBPs.
- The desirable goal of reducing or preventing DBP formation requires researching the factors governing their creation and methods to control their influences.
- Continue research on lead forms and transformations in water, with emphasis on removing it and working with research teams to create effective filtration.
- Copper should have been mentioned in the charge question. In addition, other metals might need additional research such as arsenic or chromium.
- We heard about industry partnerships for technical development, and how successful these relationships are. However, we feel EPA should further prioritize and support these relationships, along with excellent and increased support for the small business grant program.
- The subcommittee suggests conducting further research on specific anthropogenic chemicals (e.g., pharmaceuticals and personal care products). The subcommittee believes development of the research plan requires systematic reviews and evidence mapping of existing literature that takes into account co-occurrence patterns, concentration levels, and health endpoints, with data from an increased number of sites.
- Residential structures and commercial buildings have unique plumbing characteristics. The subcommittee suggests research teams develop risk models describing likely lead or microorganism exposures, based on specific premise plumbing characteristics. Such models could help inform homeowners and building managers to make wise choices regarding plumbing materials and filtration devices for optimum health and well-being.
- The subcommittee believes EPA needs to focus on understanding the differential research needs of disadvantaged communities and the different water quality threats to different communities.

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Recommendations

The Subcommittee offers these recommendations to support the relevant Agency priorities:

Recommendation 1.1: Focus on developing a risk-based model integrating research findings on disinfectants, pathogens, and DBP risks, and, if relevant, on lead-related risks. This would involve optimizing and integrating existing models of individual components and would also show how changes in the risk of one component would affect the risks of the others. For example, EPA must optimize models of DBP formation (both regulated and unregulated) enabling the models to communicate with other models such as health risk models, especially for unregulated DBPs. Having the model created, even if it cannot yet be executed, would be a great tool for further research and data gap identification.

Recommendation 1.2: Focus on developing a more user friendly EPANET-MSX (Multi-Species eXtension) model that would include built-in DBP and disinfection models so users can apply them easily. EPANET is a tool used to address hydraulic issues (like mixing in storage tanks and residence time), and also fate and transport issues (for disinfectants, DBPs, natural organic matter, etc.). However, there is a need to make its application as simple as possible, especially for small systems. EPA should integrate these models with risk information in a decision support tool to better meet the needs of small systems and disadvantaged communities. Such a tool could easily highlight the risks of DBPs along with the benefits and costs of different strategies to reduce/prevent DBP formation.

Charge Question 2

> Q.2. Please comment on the implementation of ORD's water reuse research, and what suggestion(s)/ recommendation(s) does the Subcommittee have regarding SSWR's water reuse research for helping to innovatively augment water supplies and improve resiliency by identifying promising alternative water sources?

Narrative

ORD has chosen to bypass the largest reuse source, treated municipal wastewater, and focus their research on alternative reuse water sources. The subcommittee endorses this direction as municipal wastewater reuse research is saturated and EPA's investment there would not have a large impact on the field's direction. In contrast, ORD has correctly identified a dearth of research regarding several alternative sources, for which EPA's effort are potentially impactful.

However, the research plan could be improved by providing a more comprehensive vision for how the data ORD generates will help EPA prioritize a range of alternative sources. In absence of that integration, the agency is left with disjointed research on a range of chemical removal and pathogen disinfection processes.

Strengths

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- Addresses a need. The country has water deficiencies in a variety of regions across the country and developing new sustainable sources will benefit society. Even in areas where water is not in short supply, having a portfolio of alternatives adds to the nation's water security.
- The research on alternative disinfection and treatment strategies for chemical and microbial contaminants will add to our knowledge base.
- They have a clear idea of how this research will enhance EPA's Water Reuse Action Plan.
- They are well-integrated with other research entities in this field, particularly the Water Research Federation (WRF) and Integration with WRF and the National Blue Ribbon Commission on Onsite Non-potable Water Systems (ONPWS).

Suggestions

- As part of developing an integration strategy, ORD should continue four parallel/integrative activities: (1) Identify the volume potential for each reuse strategy, (2) Assess the unique chemical and biological contaminant characteristics of each water type, (3) Determine the chemical/biological treatment challenges for each of these types of water, and (4) Calculate the costs associated with those treatment technologies. Collectively, those activities will allow to better focus the national water reuse strategic plan.
- There will be several parts of the activities above where the information is presently unavailable and not being worked on by others. Those information needs form the basis for future research directions.
- An additional factor that EPA might consider is the energy cost of each of the potential reuse strategies. Besides providing the basis for lessening the national carbon footprint as part of a reuse strategy, there are particular areas where low-energy, low-cost treatment technologies would be particularly valuable, such as in agricultural settings and proven strategies around subsurface flow wetland treatment utilized in Europe.

Recommendations

The Subcommittee offers this recommendation to support the relevant Agency priorities:

Recommendation 2.1: The research vision should further define how the various individual research projects will be integrated into a synthesis product that will inform communities that must prioritize among a range of alternative water reuse sources.

Charge Question 3

> Q.3. In addition to evaluating ORD's stormwater research activities, what suggestion(s)/recommendation(s) does the Subcommittee have to improve the utility of these research activities to provide integrated decision-support tools for stormwater management in disadvantaged communities?

Narrative

Stormwater management involves a wide range of technical challenges. Based on a diverse portfolio of research activities, ORD has successfully advanced research to tackle many of these challenges. Different social, economic, and regulatory factors create regionally unique challenges to the design, operation,

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performance, and maintenance of stormwater management solutions. ORD has a history of conducting successful stormwater management research with and in disadvantaged communities across the country. While technical research questions on the performance of stormwater treatment systems to achieve certain objectives (e.g., water quality improvement, hydrologic mitigation) are generally relevant regardless of where the systems are installed, research questions pertaining to the full life cycle of stormwater management solutions require community-specific considerations. For example, prior work in disadvantaged communities has yielded valuable insight into community values and perspectives on stormwater management solutions, from siting to amenity priorities. These lessons learned have often emerged as an added benefit, rather than from stated initial goals of the research projects.

A potentially unique opportunity to advance ORD's stormwater management research in disadvantaged communities is in the topic area of system maintenance. Stormwater treatment systems in disadvantaged communities suffer disproportionally from lack of long-term maintenance, thereby compromising community acceptance and, potentially performance, over time. Research opportunities arise to document how the performance of stormwater treatment systems changes over time or what specific maintenance activities are effective on maintaining runoff management. Neither of these topics are rigorously studied to date.

Maintaining focus on programmatic goals, including research within disadvantaged communities, is challenged by competing demands and potentially shifting goal posts. For example, developing critical stakeholder, non-governmental organization, and community relationships to conduct research in disadvantaged communities, and delivering robust data sets from field-based research, each require long timelines often exceeding the duration of a Strategic Research Action Plan (StRAP) or the length of an administration. The growing recognition of ancillary benefits over and above technical solutions for mitigating stormwater sometimes results in competing priorities for implementation and diverts resources from projects to advance knowledge on how to plan for and achieve water resource protection goals.

Strengths

- ORD is pursuing initiatives that make up a diverse portfolio of research. Specific program strengths include:
    - A large network of field monitoring projects across the country, including work in many disadvantaged communities.
    - Investments to enhance the Storm Water Management Model (SWMM), the most widely used tool across the world for stormwater management planning.
    - A focus on aquifer recharge, which is essential for regions of the country expected to see drier climates.
    - Timely projects on pathogens that are informed by research in non-stormwater management sectors; for example, identifying better indicators of human health risk from fecal contamination and assessment techniques.

Suggestions

- ORD's stormwater management research portfolio covers a diverse array of well-developed technical questions which contributes to the strength of the program; however, activities appear to be siloed. ORD stakeholders, including the broader public, would benefit from better articulation of how

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research initiatives integrate into a cohesive overall approach to advancing stormwater management tools and technologies.

- Technical questions and approaches to data collection are regionally specific. Considerations of social and community benefits, ecosystem services, and environmental justice also need a regional approach. Consider documenting the process of developing and implementing regional research programs to synthesize into a national framework for promoting implementation of stormwater management solutions.
- Provide a more explicit explanation of how climate change impacts are being considered in the field and modeling programs. How these research questions contribute to evaluating and developing solutions for disproportionately impacted communities with failing infrastructure, which are often economically disadvantaged communities, is of particular interest.
- Contribute data from field monitoring programs to resources such as the National Stormwater Quality Database (characterizing untreated runoff/ stormwater quality) and the International Stormwater Best Management Practices (BMP) Database (for monitoring data from stormwater management technologies that may be called BMPs, stormwater control measures, or SCMs, low impact development, or LID, green infrastructure effectiveness, etc.). These freely available databases (www.bmpdatabase.org) are already supported by EPA and represent the largest repository of stormwater management monitoring data, yet the majority of existing ORD data are not yet included.
- Additional considerations from a programmatic perspective are to develop:
    - optimization tools to solve site-specific runoff problems with the type and location of stormwater management technologies.
    - appropriate metrics to interpret context-specific performance (especially with respect to receiving water goals, and translating between site-scale and regional technologies), and set operational standards over the lifecycle of the system. Metrics should be supported by standardized protocols for stormwater management monitoring.
    - design approaches to promote appropriate pollutant removal mechanisms to target specific pollutant types in stormwater, including optimizing use of novel materials.
    - investigations on issues of emerging concern as they relate to stormwater management, such as pollutants of emerging concern, climate change, road salt-related contamination, etc.
    - research projects to investigate the direct influence of specific maintenance activities on restoring or enhancing stormwater management technology performance.
    - SWMM's ability to accurately model hydrograph and pollutant transformations through stormwater management technologies (e.g., calibration and validation of the LID controls).
- Programmatic considerations for conducting stormwater management research in disadvantaged communities should include:
    - Developing integrated performance metrics and decision support tools for stormwater management systems with multiple benefits (e.g., stormwater treatment, recreation, amenity, ecosystem services).
    - Engaging with appropriate experts and local community stakeholders to develop and communicate program priorities and metrics for evaluating success.
    - Providing training for local partners to continue research after ORD has completed its scope. Continuing research is anticipated to engender community acceptance and long-term care (maintenance) of stormwater management facilities, as well as provide critically absent, industry-wide data on lifecycle performance.

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Recommendations

The Subcommittee offers these recommendations to support the relevant Agency priorities:

Recommendation 3.1: Develop new sensors or tools to enable remote performance monitoring of stormwater management technologies. This would reduce challenges of physically conducting monitoring and/or where funds or professional capability are not readily-available.

Recommendation 3.2: Implement research that considers the entire lifecycle of a stormwater system (including design, installation, maintenance, and decommissioning) in disadvantaged communities. Such research should address both biophysical/technical issues as well as community capacity (social, economic) with the objective of developing a decision framework.

SUMMARY LIST OF RECOMMENDATIONS

Charge Question 1: What suggestion(s)/recommendation(s) does the Subcommittee have on ORD's implementation of its drinking-water and distribution research, and in particular on how these research activities can be comprehensively integrated to ensure safe disinfectant levels, while minimizing or eliminating exposure to lead, opportunistic pathogens, and DBPs in small treatment and distribution systems and in disadvantaged communities?

- **Recommendation 1.1:** Focus on developing a risk-based model integrating research findings on disinfectants, pathogens, and DBP risks, and, if relevant, on lead-related risks. This would involve optimizing and integrating existing models of individual components and would also show how changes in the risk of one component would affect the risks of the others. For example, EPA must optimize models of DBP formation (both regulated and unregulated) enabling the models to communicate with other models such as health risk models, especially for unregulated DBPs. Having the model created, even if it cannot yet be executed, would be a great tool for further research and data gap identification.
-
- **Recommendation 1.2:** Focus on developing a more user friendly EPANET-MSX (Multi-Species eXtension) model that would include built-in DBP and disinfection models so users can apply them easily. EPANET is a tool used to address hydraulic issues (like mixing in storage tanks and residence time), and also fate and transport issues (for disinfectants, DBPs, natural organic matter, etc.). However, there is a need to make its application as simple as possible, especially for small systems. EPA should integrate these models with risk information in a decision support tool to better meet the needs of small systems and disadvantaged communities. Such a tool could easily highlight the risks of DBPs along with the benefits and costs of different strategies to reduce/prevent DBP formation.

Charge Question 2: Please comment on the implementation of ORD's water reuse research, and what suggestion(s)/ recommendation(s) does the Subcommittee have regarding SSWR's water reuse research for helping to innovatively augment water supplies and improve resiliency by identifying promising alternative water sources?

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- **Recommendation 2.1:** The research vision should further define how the various individual research projects will be integrated into a synthesis product that will inform communities that must prioritize among a range of alternative water reuse sources.

Charge Question 3: In addition to evaluating ORD's stormwater research activities, what suggestion(s)/recommendation(s) does the Subcommittee have to improve the utility of these research activities to provide integrated decision-support tools for stormwater management in disadvantaged communities?

- **Recommendation 3.1:** Develop new sensors or tools to enable remote performance monitoring of stormwater management technologies. This would reduce challenges of physically conducting monitoring and/or where funds or professional capability are not readily-available.
- **Recommendation 3.2:** Implement research that considers the entire lifecycle of a stormwater system (including design, installation, maintenance, and decommissioning) in disadvantaged communities. Such research should address both biophysical/technical issues as well as community capacity (social, economic) with the objective of developing a decision framework.

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APPENDIX A: MEETING AGENDA

Wednesday, May 26

Time (EDT)	Topic		Presenter
11:45-12:00	Sign on and Technology Check		
12:00-12:15	Welcome and Opening Remarks		Tom Tracy (DFO) Joseph Rodricks (SSWR BoSC Chair) Robert Blanz (SSWR BoSC Vice Chair)
12:15-12:30	ORD Welcome		Jennifer Orme-Zavaleta (ORD Acting Assistant Administrator)
12:30-12:40	SSWR Overview and Charge Questions		Suzanne van Drunick (SSWR National Program Director)
12:40-1:15	ORD Center and Grants Overview		Greg Sayles (Director, CESER) Rusty Thomas (Director, CCTE) Mary Ross (Director, OSAPE)
1:15-1:25	Water Treatment and Infrastructure		Chris Impellitteri (Associate NPD, WTI Topic Lead)
1:25-4:30	Overview of Research Area 7: *Drinking Water Treatment and Distribution Systems*		Hale Thurston (ACD, CESER)
	1:30-2:00	Output 1: Resources and tools for characterizing and mitigating lead and copper release in drinking water distribution systems and premise plumbing	Darren Lytle (ORD, CESER) BoSC Q&A
	2:00-2:30	Output 2: Best practices, tools, and information for assessing and controlling pathogens and biostability in drinking water systems, managing disinfectant residuals, and minimizing DBPs	Eric Villegas (ORD, CEMM) BoSC Q&A
	2:30-3:00	Output 3: Analytical methods, occurrence, health effects, and treatment assessments to aid regulatory decision-making	Jane Ellen Simmons (ORD, CPHEA) BoSC Q&A
	3:00-3:15	Break	

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Thursday, May 27

Time (EDT)	Topic		Presenter
11:15-11:30	Sign on and Technology Check		
11:30-11:40	Welcome – Day 2		Tom Tracy (DFO) Joseph Rodricks (SSWR BOSC Chair) Robert Blanz (SSWR BOSC Vice Chair)
11:40-12:00	ORD Centers Overview		Tim Watkins (Director, CEMM) Jamie Strong (Associate Center Director, CPHEA)
12:00-1:30	Overview of Research Area 9: *Wastewater and Water Reuse*		Ann Grimm (ACD, CEMM)
	12:05-1:00	Output 1: Analytical methods, exposure and effects assessment processes, and tools for wastewater and fit-for-purpose water reuse Output 2: Treatment technologies for wastewater and fit-for-purpose water reuse	Jay Garland (Associate Director, CESER)
1:00-1:30	BoSC Discussion of Charge Question 2		Joseph Rodricks (SSWR BoSC Chair) Robert Blanz (SSWR BoSC Vice Chair)
1:30-1:45	Public Comments		Tom Tracy (DFO)
1:45-2:00	Break		
2:00-3:45	Overview of Research Area 10: *Stormwater Management*		Ann Grimm (ACD, CEMM)
	2:05-2:20	Output 2: Stormwater Management as a Resource for Enhanced Recharge, Capture, and Use (Informational only – no charge question)	John Johnston (ORD, CEMM) BoSC Q&A
	2:20-2:45	Output 1: Planning, Implementing, and Monitoring Stormwater Management Practices	Matt Hopton (ORD, CESER)
2:45-3:15	BoSC Discussion of Charge Question 3		Joseph Rodricks (SSWR BoSC Chair) Robert Blanz (SSWR BoSC Vice Chair)
3:15-3:30	Break		
3:30-4:30	Charge Question Breakout Groups (Committee members will be preassigned to specific charge questions)		BoSC & ORD
4:30-5:15	Charge Question Breakout Group Reports (15 mins each report)		Charge Question Leads

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Time (EDT)	Topic	Presenter
5:15-5:30	Next Steps	Joseph Rodricks (SSWR BoSC Chair) Robert Blanz (SSWR BoSC Vice Chair) Suzanne van Drunick (NPD, SSWR) Joe Williams (Principal Associate NPD, SSWR) Tom Tracy (DFO)
5:30	Adjourn	

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APPENDIX B: MATERIALS

Material Provided in Advance of the Meeting

- Meeting Agenda
- Charge Questions
- Presentations
- American Water Works Association – Public Comments
- March 8, 2021 Next Steps on Implementation of Executive Order 13985
- Zoom Virtual Participation Guide

Material Provided During or After the Meeting

- All Presentations
- Zoom Recordings

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BOSC
BOARD OF SCIENTIFIC COUNSELORS

REPORT OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY BOARD OF SCIENTIFIC COUNSELORS HOMELAND SECURITY SUBCOMMITTEE

RESPONSES TO CHARGE QUESTIONS

BOSC Homeland Security Subcommittee

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John Hopkins University Center for Health Security

Andrew DeGraca, P.E.
San Francisco Public Utilities

Edwin Roehl, Jr., M.S.
Advanced Data Mining International, LLC

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August 24, 2021

A Federal Advisory Committee for the U.S. Environmental Protection Agency's Office of Research and Development

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LIST OF ACRONYMS

AI	artificial intelligence
AnCOR	Analysis for Coastal Operational Resiliency
API	application programming interface
AWS	Amazon Web Services
BOSC	EPA Board of Scientific Counselors
COTS	commercial off-the-shelf
COVID-19	Coronavirus Disease 2019
CBRN	chemical, biological, radiological, and nuclear
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CESER	EPA Center for Environmental Solutions and Emergency Response
DWMM	disaster waste and materials management
EPA	U.S. Environmental Protection Agency
ESAM	Environmental Sampling and Analytical Methods
ESF-10	Emergency Support Function #10
GIS	Geographic Information System
HEART	Homeland Security Emergency Action and Research Times
HSRP	EPA Homeland Security Research Program
IAFC	International Association of Fire Chiefs
NASTTPO	National Association of SARA Title III Program Officials
NIMBY	Not in My Back Yard
NRF	National Response Framework
ORD	EPA Office of Research and Development
OSC	on-scene coordinator
RADAR	RemediAtion Data Repository
RCRA	Resource Conservation and Recovery Act
SBIR	Small Business Innovation Research
SERF	Stormwater Emergency Response Framework
STAR	Science to Achieve Results
StRAP	Strategic Research Action Plan
SWMM	Storm Water Management Model
TOTS	Trade Off Tool for Sampling

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INTRODUCTION

The U.S. Environmental Protection Agency's (EPA's) Homeland Security Research Program (HSRP) addresses science gaps related to remediation of environmental contamination that threatens public health and welfare, as well as science gaps related to environmental quality before, during, and after a disaster. HSRP helps EPA carry out its homeland security and emergency response mission by working closely with its partners to understand the potential threats and consequences of hazardous substance, oil, and chemical, biological, radiological, and nuclear (CBRN) releases. HSRP coordinates with partners and stakeholders to conduct the research necessary to provide decision makers with the information they need for their communities and environments to rapidly recover after a disaster.

HSRP is focused on addressing two primary research objectives:

- Advance EPA capabilities to respond to wide-area contamination incidents; and
- Improve the ability of water utilities to prevent, prepare for, and respond to water contamination that threatens public health.

Research to address HSRP partner needs is organized into seven research areas. The research areas are descriptive of the program and align with EPA's response decisions supporting recovery under the National Response Framework (NRF), specifically with respect to EPA's lead role under Emergency Support Function #10 - Oil and Hazardous Materials Response Annex (ESF-10). EPA can also respond, under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or Oil Pollution Act authorities as appropriate. These response decisions are highly interdependent, with one decision impacting other decisions. The research areas are designed to reflect and support this interdependent system of activities through coordination across the program in support of HSRP's objectives.

HSRP research areas are: (1) Contaminant Fate, Transport, and Exposure, (2) Contaminant Detection/Environmental Sampling and Analysis, (3) Wide-Area Decontamination, (4) Water Treatment and Infrastructure Decontamination, (5) Oil Spill Response, (6) Waste Management, and (7) Tools to Support Systems-based Decision-Making.

The Board of Scientific Counselors (BOSC) Homeland Security (HS) Subcommittee reviewed HSRP program planning in 2019, through its Strategic Research Action Plan (StRAP). The BOSC HS Subcommittee is now charged to review program implementation under each of the research areas. The previous BOSC HS Subcommittee implementation review in 2020 was focused on two research areas: Research Area 4 - Water Treatment Infrastructure Decontamination and Research Area 5 - Oil Spill Response. The focus of the current BOSC review is on research implementation to support wide area incident response, to enhance and inform capabilities for response and remediation of areas contaminated by acute incidents, such as natural disasters or acts of terrorism.

CHARGE QUESTIONS AND CONTEXT

The HS Subcommittee was charged with addressing a series of questions about research implementation to support wide area incident response, focused on Research Areas 1, 2, 3, 6, and 7. Charge questions were as follows:

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Q.1. What suggestion(s) or recommendation(s) does the Subcommittee have on balancing/enhancing the use of widely available capabilities with the incorporation of innovative new approaches and technologies to address HS priority sampling and analysis needs?

Q.2. What suggestion(s) or recommendation(s) does the Subcommittee have with respect to ensuring that the decontamination capabilities developed by the program contribute to reliable and field-usable decontamination capabilities, balancing specialized technologies with commercial off the shelf (COTS) equipment?

Q.3. What suggestion(s) or recommendation(s) does the Subcommittee have on the current and planned direction of HSRP's research to provide products that contribute to reliable and field-usable capabilities for waste management in responding to HS incidents and other disasters (hurricanes, wildland fires, tornadoes, etc.)?

Q.4. What suggestion(s) or recommendation(s) does the Subcommittee have on the current and planned direction of HSRP's research to provide products that contribute to reliable and field-usable integrated decision-support tools and ensure applicability to economically, socially, or environmentally disadvantaged communities?

The responses of the HS Subcommittee to the charge questions are provided in the following section.

SUBCOMMITTEE RESPONSES TO CHARGE QUESTIONS

Charge Question 1

Q.1. What suggestion(s) or recommendation(s) does the Subcommittee have on balancing/enhancing the use of widely available capabilities with the incorporation of innovative new approaches and technologies to address HS priority sampling and analysis needs?

Narrative

The HS Subcommittee recognized the importance of finding or optimizing the balance between sampling and analysis approaches and technologies based on widely available materials/methods and more innovative solutions, but also recognized that unguided "balance" can be subjective or misdirected, or if balance was the primary objective, not the effectiveness of a solution, non-optimal solutions might be selected by pursuing balance. The Subcommittee elected to address the more fundamental question raised by Charge Question 1: "What process and what considerations should be used to arrive sampling and analysis solutions that optimize the balance between use of available and innovative approaches in the context of specific solution requirements and available resources?"

HSRP has a strong program for engaging partners to define research and development needs in the sampling and analysis area. However, the Subcommittee found that the approach for making decisions about how solutions are selected, specifically how choices that balance available and innovated methods are made, is not clear. This limitation is reflected in the charge question itself, which asks how best to balance use of widely available and more innovative solutions, instead of asking the more relevant question, "which solutions offer the ideal balance between meeting specific requirements for a solution, and the cost and time available to develop the solution?" More specifically, the EPA PARTNER Process

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appropriately engages partners/users to identify needs and the general gap between the intended future state and the current state required to meet the need. What appears to be missing is a clearly articulated, structured analysis that matches a carefully developed list of requirements for a solution, e.g., sampling criteria, analytical criteria, environmental robustness, or applicability, against potential solutions from an array that includes widely available materials/methods and those requiring research and development. Such an analysis is the optimal approach to determine and justify what the ideal balance is between widely available solutions and more innovative approaches that may require resources not available to EPA or require a timeline unsupportable by the current HSRP planning cycle.

Strengths

- EPA's research focus has been on developing practical (field deployable, fit to purpose, Geographic Information System, or GIS integration, leverages existing COTS) response tools as needed. This is mission appropriate and effective. Innovation is employed when needs gaps are identified that require research to overcome.
- EPA has developed a set of impressive, practical, and useful tools (Environmental Sampling and Analytical Methods, or ESAM, Trade Off Tool for Sampling, or TOTS, etc.). These tools were originally innovative but have now progressed, through various enhancements, to widely available capabilities. Widely available capabilities are the goal of research programs. For example, ESAM provides one-stop shopping for sampling and analysis, and to date there have been over 191,000 page views, and 160 countries are using this resource.
- EPA tool enhancements include elements that will help with the management of real events (implementation costs, sample site GIS, etc.).
- EPA leverages existing commercially available platforms to build new tools (virtual reality game engine framework for sample collection training application) in a cost effective and more timely manner.
- EPA has demonstrated a strong ability to effectively respond to emergencies or emerging issues (anthrax, Ebola, Coronavirus Disease 2019, or COVID-19, fentanyl, etc.).
- EPA has a strong, resourceful an entrepreneurial research staff that continue to develop beneficial tools and information, despite significant limitations imposed by COVID-19.

Suggestions

- Detail barriers (non-monetary) to innovation and rapid deployment (especially this) and briefing EPA's Office of Research and Development (ORD) leadership or engaging them in a solution. The Subcommittee heard about slow adoption of drones, of new software, etc. What other barriers are there, and what is the opportunity cost to partners if these issues are not addressed?
- Assess the completeness, timeliness, and effectiveness of HSRP's approach to identifying COTS and other technologies (U.S. Department of Defense, U.S. Department of Homeland Security, or DHS, industry) and what could improve the approach, e.g., a network of experts to engage and consult with.
- Assess the effectiveness of processes in place for moving innovations from development to field use. For example, what is that process for rapidly operationalizing something in a real-time emergency response scenario?
- Evaluate how effectively HSRP builds first responder familiarity with the sampling and analysis tools and methods used in emergencies. Determine if there is a need for EPA to enhance its efforts in this area, initially via key professional associations and its large members (cities, utilities, waste management companies, regulators).

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Recommendations

The Subcommittee offers these recommendations to support the relevant Agency priorities:

Recommendation 1.1: Engage critical end user professional associations* to both increase awareness of capabilities and inform the balance between off-the-shelf and more innovative solutions based on field needs and requirements defined by responders. This could involve:

- Initial research planning including goal development and project
- Ongoing research (peer review - Project Advisory Committee)
- Tool and information outreach

*Professional associations might include **water** (American Water Works Association), **wastewater** (Water Environment Federation), **mass transit** (American Public Transportation Association), **landfill operators** (Solid Waste Association of North America), laboratories (Association of Public Health Laboratories or American Council of Independent Laboratories), and others (State Emergency Response Commissions and Local Emergency Response Personnel).

Recommendation 1.2: Develop and articulate a formal process for a structured analysis to select solutions with the greatest impact in the context of available resources (time, funding) based on a comparison of a prioritized list of performance requirements for a solution (e.g., sampling criteria, analytical criteria, environmental robustness or applicability), against an array of potential solutions that includes widely available materials/methods and those requiring research and development. Identify barriers to innovation and engage leadership in finding solutions.

Charge Question 2

> Q.2. What suggestion(s) or recommendation(s) does the Subcommittee have with respect to ensuring that the decontamination capabilities developed by the program contribute to reliable and field-usable decontamination capabilities, balancing specialized technologies with commercial off the shelf (COTS) equipment?

Narrative

HSRP has made significant strides in meeting its mission to provide accurate, timely, and value-added solutions to stakeholders. Their dedication to developing off-the-shelf products and modifying their application for use in decontamination from the bench-scale to field-scale is notable.

Strengths

- HSRP has conducted exemplary work developing data, products, and tools for responders using COTS. HSRP publishes an informative online magazine documenting these tools for regions and program offices, the Homeland Security Emergency Action and Research Times (HEART).
- HSRP has developed significant technical applications, such as the Decontamination Selection Tool and Stormwater Emergency Response Framework (SERF), providing value for planning, and increasing public capacity to conduct self-rescue and self-decontamination. These efforts are critical to ensure the provision of appropriate guidance for the use of appropriate existing tools and methods.

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- The Subcommittee recognizes HSRP's strong record of effectively conducting operational research and implementing practical solutions, and is impressed with the extent to which HSRP dedicates resources to leveraging partnerships such as the Idaho National Laboratory to examine material variability.
- Considerable progress has been made to ensure HSRP research associates gain field-level experience through participation in actual responses in support of the EPA Center for Environmental Solutions and Emergency Response (CESER) mission. Further, this field-level experience provides a vehicle to ascertain impressions of solution effectiveness from stakeholders.
- Successful stakeholder capacity-building efforts in the field of emergency management have been made through utilizing stakeholders to train their peers (train-the-trainer). Consideration should be given to using similar peer-to-peer methods to engage stakeholders and to inform them of these useful tools and resources.
- HSRP has a strong focus on assessing customer need and developing practical solutions that are field-deployable and a good balance between research and development.
- HSRP has developed an effective method of maintaining support with deployed responses. HSRP should ensure this effective method of communication and provision of support so accurate response plan development continues.

Suggestions

- Successful efforts have been made in the emergency response community through utilizing stakeholders to train a broad and diverse population of stakeholders (train-the-trainer). HSRP should consider utilizing peer-training (train-the-trainer) for stakeholders to train a broad and diverse population of additional stakeholders, including vulnerable and marginalized populations, and to inform them of tools and resources developed for informed decision-making during emergency response.
- HSRP has a strong record of effectively conducting research from the bench-scale to pilot-scale and ultimately to field-scale. While all research is conducted within the certain constraints, consideration should be given to leveraging partnerships with other public and private entities to scale-up projects, widening test variables such as material variation, environmental conditions, and other conditions.
- There are recognized similarities between various decontamination methods, including the commonalities among some pesticides and certain chemical warfare agents. HSRP should consider leveraging decontamination studies of common pesticide contamination to inform on decontamination methods for chemical warfare agents.
- HSRP should continue partner engagement and publication and dissemination of methods and planning models. They should continue to focus on innovation that seeks to use COTS creatively or research integration of COTS for new purposes.

Recommendations

The Subcommittee offers these recommendations to support the relevant Agency priorities:

Recommendation 2.1: HSRP has developed significant technical applications; however, they should develop a complimentary social science research program that produces data, analyses, and knowledge that can be used to assess and improve the field effectiveness of HRSP-produced

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decontamination capabilities by understanding the critical role community members play in implementation. Among many others, this might include studying the public's willingness and ability to purchase off-the-shelf products from offers in their community.

Recommendation 2.2: HSRP should provide additional resources and supporting research to bolster the public's ability to perform self-rescue and self-decontamination, ensuring inclusion of vulnerable and marginalized populations. During a community-scale disaster, these efforts could result in lives saved.

Recommendation 2.3: The Subcommittee recommends HSRP dedicate resources to ensure information about developed tools and resources is effectively communicated to responders and the concerned public, including vulnerable and marginalized populations. HSRP has implemented the online magazine HEART, but efforts should be made to ensure this resource is effectively distributed. Communication of this information may include conference presentations (e.g., National Association of SARA Title III Program Officials, or NASTTPO, the International Association of Fire Chiefs, or IAFC, Hot Zone, etc.), public outreach, and social media outlets (see also, Recommendation 1.2).

Charge Question 3

> Q.3. What suggestion(s) or recommendation(s) does the Subcommittee have on the current and planned direction of HSRP's research to provide products that contribute to reliable and field-usable capabilities for waste management in responding to HS incidents and other disasters (hurricanes, wildland fires, tornadoes, etc.)?

Narrative

Deliberate pre-incident planning of waste management in anticipation of CBRN disasters is essential to waste minimization and safe handling. This concept is the driver of HSRP modeling, laboratory experiments, and field-scale activities related to waste management. Decontamination and waste management responses to CBRN incidents will vary with contaminant types, location, spatial distribution, and the availability of remediating resources. The decontamination approaches used dictate the types of wastes and amounts generated and how they should be handled and disposed. Waste characterization is core to all waste management activities including minimization, on-site and off-site treatment, transport, and disposal. Operationally relevant focus areas related to waste management include social science considerations related to implementation challenges, waste and materials management planning and response tools, waste treatment, and decision making.

CBRN disaster response decision making is enabled by web-based support tools. Originally, the tools were standalone solutions that addressed particular needs. HSRP is currently migrating legacy tools and databases, plus developing new ones, to https://cloud.gov/ where government agencies and stakeholders will access them through a common dashboard. User and tool access to supporting information and data will be through a new online RemediAtion Data Repository (RADAR).

Another new research area considers social issues in disaster waste and materials management (DWMM) in determining how to dispose of wastes in ways that do not further disadvantage overburdened populations. Staff are currently reviewing literature to identify relevant documents, social variables, and case studies, and holding interviews or focus groups to identify DWMM decision points and conflicts for

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different waste streams. Results are expected to aid state and local capabilities in avoiding or mitigating conflicts during a response.

HSRP performs laboratory research to develop sampling, analysis, and decontamination methods, which are then field tested to determine efficacy and needed improvements. The development of waste handling methods is generally more speculative. Smaller scale incidents can be addressed with ad hoc waste management solutions such as the semi-permeable bags used in the Analysis for Coastal Operational Resiliency (AnCOR) field test; however, a truly wide area, urban incident could require new approaches not yet fully considered. For all these incidents, it will be critical to characterize the waste to inform decisions about waste transport and disposal and to evaluate the effectiveness of waste treatment. Ultimately decisions come down to distance necessary for transportation of waste and the costs associated with moving that waste from one location to another (the underlying cause of Not in My Back Yard, or NIMBY). Further, the availability of tools to manage wide-scale contamination all-hazards incidents is important, but these tools must be well integrated, supported, and updated frequently. Simulating wide-area incidents at full scale would disrupt local populations and be prohibitively expensive; therefore, HSRP is developing a virtual reality-based software tool to simulate wide-area CBR incidents to identify technology gaps, train response personnel, and evaluate alternative response strategies whenever needed. The functionality of each tool is developed between EPA principal investigators and intended end-users. In some instances, tool development and maintenance is contracted out. Alternatively, tools are developed internally and can involve post-doctoral researchers and interns, potentially with some sharing of intellectual property.

Responding to the struggle to keep stakeholders engaged is important because waste management is not a day-to-day priority for them. There might be local concerns about accepting waste from these events. The waste management plans are developed at the local level and there could be environmental justice implications. Early and broad stakeholder engagement will elevate challenges to location usage issues and waste acceptance and even laboratory selection by developing consensus on staging, analysis, and disposal locations, prior to actual need. Stakeholders should include federal, state, and local governmental agencies plus private partners such as stadiums, hospital parking lots, park owners, etc.

The future research directions shown by HSRP point to a need for greater technical diversity among its research contributors. For example, software projects are a growing part of HSRP's portfolio and resources are limited. Advanced knowledge/skills in this area could benefit HSRP's software processes in terms quality and costs. This could be obtained from industry-leading advisors via consulting and/or BOSC membership. Additionally, competitive hiring constraints might be mitigated by looking into other hiring authorities (e.g., Title 42), partnering with commercial entities (possibly through Small Business Innovation Research, or SBIR, funding), and via academia through the EPA Science to Achieve Results (STAR) program.

Also, there are apparent knowledge gaps and opportunities in decontamination and waste management for wide-area incidents. For example, combined chemical and biological decontamination and waste volume reduction (for disposal efficiency) from some waste streams should be feasible. Knowledge from leading industrial, chemical, and mechanical engineers and scientists experienced in developing large scale combined chemical and mechanical processes in industries, e.g., mining and pulp and paper, could be transformative. Advisors could be identified through relevant professional societies.

Strengths

- Clarity of research direction and relationships to needs.

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- HSRP staff gain experience and expertise in collaborations with state, federal, and foreign agencies in exercises and, invaluably, actual incidents such as Ebola, Fukushima (Japan), and the Novichok poisonings (United Kingdom).
- Integration of computer-based planning tools and databases. Migrating legacy tools and developing new tools for deployment on https://cloud.gov/ to improve access.
- Use of widely available materials and equipment to develop CBRN remediation techniques.
- Leveraging GIS and visualization technology in tools. Investigating virtual reality approaches for data visualization and training.
- Anticipatory field research that supports international concerns related to carcass disposal.
- Beginning social science research on issues such as effectively communicating with locals and getting them involved in cleanup. It is exciting for all scientists to be thinking about social science aspects.
- Use of interns and post-doctoral students to develop necessary software tools for waste management and disposal modeling and calculations.

Suggestions

- Waste management plans should consider competing uses of facilities (buildings, parking lots, roads, etc.) identified in local response plans (emergency shelters, food/water distribution, etc.). Consideration must be given to who has the authority to designate or take control of these needed staging areas. It is important to have a pre-established incident command structure predetermined.
- Expand efforts to explore reuse or recycling of disinfected and cleaned personal protection equipment.
- Resolve barriers to accepting demolition materials at the Resource Conservation and Recovery Act (RCRA) Subtitle D facilities without testing and limiting long-term liability.
- Involve the U.S. Department of Transportation to ensure treated contaminated waste can be safely transported.
- Social consideration research needs to clarify what outcome it seeks, make a strong case for the impact, choose something specific to focus on that meets a specifically defined need, bring in social scientists who might have immediate knowledge about the research, and clearly define the product that stakeholders can and will use.
- Before the Configured Fireside Simulator is pursued any further, resolve all software licensing and use issues to ensure it can be broadly used similar to other tools HSRP has developed.

Recommendations

The Subcommittee offers these recommendations to support the relevant Agency priorities:

Recommendation 3.1: Establish clear priorities for research and development of solutions for environmental cleanup challenges in wide urban settings from the large list of those challenges: methods to sample the waste such that they meet criteria (e.g., temperature, preservation, size) for laboratory acceptance for analysis; building trust and social relationships in resilience and remediation work; social impact of remediation activities; decontaminating the surfaces and media when the effectiveness might vary depending on surface characteristics and environmental conditions; potential impact to the material (especially critical equipment and high value structures) from decontamination; guiding individuals or privately hired contractors in their efforts to clean-up their properties; managing the large amount of data from wide-area cleanup; and fate and transport of biological agents in urban settings.

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Recommendation 3.2: Develop early engagement plans for meeting with local stakeholders to develop staging and disposal plans for CBRN events prior to actual incidents. This will elevate challenges to location usage issues and waste acceptance and even laboratory selection by developing consensus on staging, analysis, and disposal locations, prior to actual need. Stakeholders should include federal, state, and local governmental agencies plus private partners such as stadiums, hospital parking lots, park owners, etc.

Recommendation 3.3: Develop a set of non-traditional solutions for meeting staffing needs, overcoming knowledge gaps for consideration in the development of the next StRAP. This might include partnerships, consultants, advisors, or unique ways of hiring or leveraging other EPA employees.

Charge Question 4

> Q.4. What suggestion(s) or recommendation(s) does the Subcommittee have on the current and planned direction of HSRP's research to provide products that contribute to reliable and field-usable integrated decision-support tools and ensure applicability to economically, socially, or environmentally disadvantaged communities?

Narrative

To advance the capabilities of EPA as well as state, tribal, and local partners to prepare for, respond to, and recover from incidents involving large-scale contaminated areas and water systems, HSRP/CESER has developed tools to support systems-based decision making (HSRP STRAP 2019–2022). The response community, for instance, benefits from tools and models that:

- Facilitate rapid assessment, including access to emerging technologies that enable responders to survey, detect, and monitor the event in the case of a wide-area incident;
- Provide metrics and decision support to inform decision makers readily and rapidly on appropriate technologies for characterizing or remediating environments contaminated with various CBRN agents, thus improving the timeliness of the recovery process;
- Consider the timeframes and costs (both social and economic) associated with viable remediation approaches, and maintain flexibility given the complex, dynamic, and uncertain character of a wide-area incident; and
- Enable stakeholders to assess their community environmental resilience to disaster.

Strengths

- HSRP manifests a development culture in which user input comes early and often. There is a feedback loop that gathers user comments on reliability and field usability of tools and products to drive improvements. This user-centric, continuous development culture is very positive.
    - Ex: HSRP researchers have incorporated artificial intelligence (AI) in decision-support tools in a way that respects the fact that their main customers, the on-scene coordinators (OSCs), "don't want to have a computer telling them what to do. Using it for recommendations seems more acceptable."

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- HSRP has more fully adopted a social science/human factors perspective. By working systematically to understand both product end users and the broader social contexts in which they operate, HSRP is well equipped to develop decision-support tools that are behaviorally realistic, and are thus, "field usable," and that can also apply to disadvantaged communities.
    - Ex: HSRP systematically surveyed OSCs to understand the social networks in which OSCs operate so that products address the interpersonal and organizational dynamics that underlie successful cleanup (e.g., public trust).
- Over the past few years, the HS Subcommittee has witnessed a marked improvement in the software tool and product development capability in the program. Modern development methods employing up-to-date application hosting platforms deliver highly useful software, and often, 'voice of the customer' is captured to ensure that end-user feedback makes it back to those who need to hear it so the software can be continuously improved. Among notable achievements:
    - Adoption of Cloud.gov platform on Amazon Web Services (AWS): This will lend to interoperability, and more young developers will be engaged by using modern development platforms.
    - Intention to go "open source when possible" and on the advancement of AI, machine learning, neural network modeling principles.
    - Google Partnership: Tapping into wealth of technical expertise is to be encouraged further.
    - Emerging data and application programming interface (API) standards: Partner engagement should inform future developments.
    - HSRP's simulation tools capture/convey the complexity of managing low-probability, high-consequence events. These products constitute the most efficient way to plan, evaluate, and assess the response to events; they also represent the future of training first responder personnel. HSRP has successfully integrated dispersion modeling, fate and transport, and human actions (treatment, remediation, waste removal, cleanup etc.).
- AnCOR is a great example of a long-term effort from bench-to-field and of integration and partnership (e.g., EPA, DHS, U.S. Coast Guard). The full spectrum of tools and approaches comes together in a systems approach. A process of starting at that bench, and then building out to an ultimate test in the field, leads to a realistic assessment of capability, gaps, etc. The anthrax fate part of the Storm Water Management Model (SWMM) in a field study with surrogates is commendable.
- RADAR on Cloud.gov will be the single place to find tools and data. This will increase adoption and consumption of both by stakeholders, remediating a prior statement that it was difficult for end-users to find things, especially during a crisis.

Suggestions

- Incorporate the potential social costs (e.g., the disproportionate exposure of specific disadvantaged groups to potentially hazardous materials) of waste staging/storing location suitability, into the all-hazards waste logistics tool, putting environmental justice-related data alongside factors such as land use and soil types.
- Recruit more to 'build the bench.' The HSRP team is highly talented, deeply engaged, and delivers excellent and innovative research. At the same time, research opportunities might go unmet due to lack of staff. In addition, conducting future HSRP hires with diversity and inclusivity principles in mind can foster an environment conducive to innovation and ensure that the workforce is even more representative of the populations that they seek to protect.
- Break procurement logjams that prevent very talented people from simply getting the tools they need (or even scare off prospective hires). The right technologies are being used to do the science, but researchers are often hamstrung due to the lack of flexibility or appropriately modern lab and

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computing tools. For example: a researcher should not be forced to do AI and machine learning on an elderly, 10-year-old PC. Modern, high-performance hardware is quite inexpensive.

- Migrate legacy application development 'ways of working' to new ways and platforms. Using modern "dev platforms" and tools like Python and GitHub for code versioning and repository, etc., are exactly what young developers would be expecting to find in a professional work environment. It will also be easier to maintain and improve application code by keeping it in a modern code repository.
- Balance automation through integration and AI with customer-driven decision making. Using it for recommendations seems more acceptable.
- Evaluate opportunities to establish a longer time horizon; the 4-year funding cycle is too short for meaningful development.

Recommendations

The Subcommittee offers these recommendations to support the relevant Agency priorities:

Recommendation 4.1: To maintain an edge in the development of reliable and field-usable integrated decision-support tools, take the following steps that to help ensure that HSRP staff (current and future) have access to modern lab equipment, computing resources, and other technical inputs:

- Create and deliver to management a report on the threat to the research activities that is posed by aging technology components, including lab equipment, PCs, etc., because it is unacceptable to run critical research on legacy equipment; and
- Restart the stalled "3-year tech refresh program" to ensure that all staffers have appropriately recent end-user computing resources.

Recommendation 4.2: Expand the universe of HSRP state/local partners beyond emergency management, public health, and water utility associations to include groups/leaders (e.g., state directors for minority health or health equity) who can provide unique insights into environmental health challenges of disadvantaged populations.

SUMMARY LIST OF RECOMMENDATIONS

Charge Question 1: What suggestion(s) or recommendation(s) does the Subcommittee have on balancing/enhancing the use of widely available capabilities with the incorporation of innovative new approaches and technologies to address HS priority sampling and analysis needs?

- **Recommendation 1.1:** Engage critical end user professional associations* to both increase awareness of capabilities and inform the balance between off-the-shelf and more innovative solutions based on field needs and requirements defined by responders. This could involve:
    - Initial research planning including goal development and project
    - Ongoing research (peer review - Project Advisory Committee)
    - Tool and information outreach

  *Professional associations might include water (American Water Works Association), wastewater (Water Environment Federation), mass transit (American Public Transportation Association), landfill operators (Solid Waste Association of North America), laboratories (Association of Public Health Laboratories or American Council of Independent Laboratories), and others (State Emergency Response Commissions and Local Emergency Response Personnel).

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- **Recommendation 1.2:** Develop and articulate a formal process for a structured analysis to select solutions with the greatest impact in the context of available resources (time, funding) based on a comparison of a prioritized list of performance requirements for a solution (e.g., sampling criteria, analytical criteria, environmental robustness or applicability), against an array of potential solutions that includes widely available materials/methods and those requiring research and development. Identify barriers to innovation and engage leadership in finding solutions.

Charge Question 2: What suggestion(s) or recommendation(s) does the Subcommittee have with respect to ensuring that the decontamination capabilities developed by the program contribute to reliable and field-usable decontamination capabilities, balancing specialized technologies with commercial off the shelf (COTS) equipment?

- **Recommendation 2.1:** HSRP has developed significant technical applications; however, they should develop a complimentary social science research program that produces data, analyses, and knowledge that can be used to assess and improve the field effectiveness of HRSP-produced decontamination capabilities by understanding the critical role community members play in implementation. Among many others, this might include studying the public's willingness and ability to purchase off-the-shelf products from offers in their community.
- **Recommendation 2.2:** HSRP should provide additional resources and supporting research to bolster the public's ability to perform self-rescue and self-decontamination, ensuring inclusion of vulnerable and marginalized populations. During a community-scale disaster, these efforts could result in lives saved.
- **Recommendation 2.3:** The Subcommittee recommends HSRP dedicate resources to ensure information about developed tools and resources is effectively communicated to responders and the concerned public, including vulnerable and marginalized populations. HSRP has implemented the online magazine HEART, but efforts should be made to ensure this resource is effectively distributed. Communication of this information may include conference presentations (e.g., National Association of SARA Title III Program Officials, or NASTTPO, the International Association of Fire Chiefs, or IAFC, Hot Zone, etc.), public outreach, and social media outlets (see also, Recommendation 1.2).

Charge Question 3: What suggestion(s) or recommendation(s) does the Subcommittee have on the current and planned direction of HSRP's research to provide products that contribute to reliable and field-usable capabilities for waste management in responding to HS incidents and other disasters (hurricanes, wildland fires, tornadoes, etc.)?

- **Recommendation 3.1:** Establish clear priorities for research and development of solutions for environmental cleanup challenges in wide urban settings from the large list of those challenges: methods to sample the waste such that they meet criteria (e.g., temperature, preservation, size) for laboratory acceptance for analysis; building trust and social relationships in resilience and remediation work; social impact of remediation activities; decontaminating the surfaces and media when the effectiveness might vary depending on surface characteristics and environmental conditions; potential impact to the material (especially critical equipment and high value structures) from decontamination; guiding individuals or privately hired contractors in their efforts to clean-up their properties; managing the large amount of data from wide-area cleanup; and fate and transport of biological agents in urban settings.
- **Recommendation 3.2:** Develop early engagement plans for meeting with local stakeholders to develop staging and disposal plans for CBRN events prior to actual incidents. This will elevate challenges to location usage issues and waste acceptance and even laboratory selection by

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developing consensus on staging, analysis, and disposal locations, prior to actual need. Stakeholders should include federal, state, and local governmental agencies plus private partners such as stadiums, hospital parking lots, park owners, etc.

- **Recommendation 3.3:** Develop a set of non-traditional solutions for meeting staffing needs, overcoming knowledge gaps for consideration in the development of the next StRAP. This might include partnerships, consultants, advisors, or unique ways of hiring or leveraging other EPA employees.

Charge Question 4: What suggestion(s) or recommendation(s) does the Subcommittee have on the current and planned direction of HSRP's research to provide products that contribute to reliable and field-usable integrated decision-support tools and ensure applicability to economically, socially, or environmentally disadvantaged communities?

- **Recommendation 4.1:** To maintain an edge in the development of reliable and field-usable integrated decision-support tools, take the following steps that to help ensure that HSRP staff (current and future) have access to modern lab equipment, computing resources, and other technical inputs:
    - Create and deliver to management a report on the threat to the research activities that is posed by aging technology components, including lab equipment, PCs, etc., because it is unacceptable to run critical research on legacy equipment; and
    - Restart the stalled "3-year tech refresh program" to ensure that all staffers have appropriately recent end-user computing resources.
- **Recommendation 4.2:** Expand the universe of HSRP state/local partners beyond emergency management, public health, and water utility associations to include groups/leaders (e.g., state directors for minority health or health equity) who can provide unique insights into environmental health challenges of disadvantaged populations.

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APPENDIX A: MEETING AGENDA

Monday, May 17, 2021

Time	Agenda Activity	Presenter
12:00 - 12:10	Introduction and FACA rules Welcome and Opening Remarks Introduction of BOSC HS Subcommittee Members	Tom Tracy, Designated Federal Officer Paula Olsiewski, BOSC Homeland Security (HS) Subcommittee Chair
12:10 - 12:25	ORD Welcome – 10 min CESER Welcome – 5 min	Jennifer Orme-Zavaleta, PhD ORD Principal Deputy Assistant Administrator for Science Chris Frey, PhD ORD DAA for Science Policy Greg Sayles, Director Center for Environmental Solutions and Emergency Response (CESER)
12:25 - 12:50	Homeland Security Research Program Overview	Shawn Ryan, HS National Program Director Sang Don Lee, HS Principal Assoc. NPD
12:50 - 13:10	**CQ1: Overview of Sampling and Analysis Research** ***Additional Resource:*** Sampling & Analysis Webpage	Sarah Taft, CESER
13:10 – 13:20	Break (10 min)	
Lightning session for Characterization		
13:20 - 14:45	*1-Environmental Sampling & Analytical Methods Program (ESAM) Video (Play YouTube Video by host) - 8 min* *Additional Resources:* ESAM Webpage, ESAM Webinar	*Kathy Hall*, CESER
	2-Trade-Off Tool for Sampling (PI screen share Demo) - 15 min	Tim Boe, CESER
	3-Development of Sampling and Analysis Methods for Outdoor Environments (Video in slide) - 8 min *Additional Resource: B. anthracis* Story	*Worth Calfee*, CESER
	4-Resuspension of B. anthracis Surrogates on Underground Subway Surfaces - 8 min	*John Archer*, CESER
	5-Development of Activity-Based Aggressive-Air Contained Sampling System - 8 min	*John Archer, CESER*
	6-Bio-Agent Analytical Methods Development - 8 min	*Sanjiv Shah, CESER*
	7-Bio-Sampling Training Simulator (PI screen share Video) - 15 min *Additional Resources:* Virtual Reality Story, Virtual Reality Webinar	*Tim Boe*, CESER
	8-Fentanyl Sampling and Analysis - 8 min	*Stuart Willison*, CESER

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Time	Agenda Activity	Presenter
	9-Innovative Sampling Methods for HS Chemicals (Video in slide) - 8 min	*Lukas Oudejans*, CESER
14:45 - 14:55	Break (10 min)	
14:55 – 15:10	*10-Sampling and Analysis Plan Resources - 5 min*	*Erin Silvestri*, CESER
	11-Data Visualization/Management (PI screen share Demo) - 10 min	*Timothy Boe, CESER*
15:10 – 15:50	**Partners Round Table**	Larry Kaelin, EPA Office of Emergency Management (OEM) Leroy Mickelsen, EPA OEM Jim Mitchell, EPA Region 5
15:50 – 16:00	Break (10 min)	
16:00 – 17:00	Additional Q&A, Discussion, and Subcommittee Worktime	

Tuesday, May 18, 2021

Time	Agenda Activity	Presenter
13:00 - 13:15	**CQ2: Overview of Wide Area Decontamination Research** ***Additional Resource:*** *Wide-area Remediation Webpage*	Lance Brooks, CESER
	Lightning session for Decontamination	
13:15 – 13:45	Biological Decontamination 1- Soil Decontamination for Non-spore agents -10 min 2- Material compatibility of Sporicides Neutralization of Ricin Toxin - 10 min 3- Personnel Decontamination Systems - 10 min *Additional Resource:* Ricin Webinar	Worth Calfee, CESER Joe Wood, CESER John Archer, CESER
13:45 – 14:10	Chemical Decontamination 4- Personnel Chemical Decontamination Line Options for the Responder – 5 min 5- Surface Decontamination Methods for Pesticides – 5 min 6- Decontamination of persistent Chemical Warfare Agents & DeconST (PI screen share for demo) – 15 min *Additional Resources:* Pesticide Story, CWA Webinar, Fentanyl Story, DeconST Webinar	John Archer, CESER Lukas Oudejans, CESER
14:10 – 14:40	Radiological Decontamination 5- Integrated Wash-down, Treatment, and Emergency Reuse System (IWATERS) - 10 min 6- Roofing Material Decontamination - 10 min 7- Integrated Rad Remediation Decision Support - 10 min	Matthew Magnuson, CESER Kathy Hall, CESER Tim Boe, CESER
	Break (15 min)	
14:40 – 15:10	8- Stormwater & Washdown Research -15 min (PI screen share for videos) 9- Supporting CBRN Cleanup Decisions -15 min (PI screen share for demo)	Anne Mikelonis, CESER Tim Boe, CESER

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Time	Agenda Activity	Presenter
15:10 – 15:50	**Partners Round Table**	Mark Durno, Region 5 Jason Musante, Region 9 Scott Hudson, EPA OEM
15:50 – 16:00	Break (10 min)	
16:00 – 17:00	Additional Q&A, Discussion, and Subcommittee Worktime	

Wednesday, May 19, 2021

Time	Agenda Activity	Presenter
13:00 - 13:20	**CQ3: Overview of Waste Management Research** ***Additional Resource:*** Waste Management Webpage	Emily Snyder, CESER
	Lightning session for Waste Management	
13:20 – 14:20	*1-Configured Fireside Simulator – Simulations for Treatment of Biologically and Chemically Contaminated Waste - 10 min* *2-Biological Waste Treatment: A Scalable Approach-AnCOR - 10 min* *3-Carcass Management: Assessment of Methods to Support Outbreaks of Foreign Animal Disease (ASFv example) - 10 min* *4-Demo of Waste Staging and Logistics Tools - 20 min (PI screen share for demo)* *5-Social Considerations of Disaster Waste Management - 10 min* *Additional Resources:* I-WASTE Webinar, Waste Tools Story	*Paul Lemieux*, CESER *Paul Lemieux* *Paul Lemieux* *Tim Boe*, CESER *Keely Maxwell*, CESER
14:20 – 15:00	**Partners Round Table**	Alan G. Woodard, Ph.D., NY Dept. of Environmental Conservation Catherine Young, EPA Region 1 Gary Flory, VA Dept. of Environmental Quality Kim M. Kirkland, EPA Office of Land and Emergency Management
15:00 – 15:10	Break (10 min)	
15:10 – 16:00	Additional Q&A, Discussion, and Subcommittee Worktime	

Thursday, May 20, 2021

Time	Agenda Activity	Presenter
12:00 – 12:15	**CQ4: Overview of HSRP Systems and Resilience Tools**	Sang Don Lee, HS Principal Assoc.
	Lightning session for Systems and Resilience Tools	
12:15 - 13:00	**Systems Tools** **1-Simulation for Evaluating Decision Making Following a Large-Scale Incident** *(Video in slide) - 10 min* **2-Evaluating the Use of Commercial-off-the-shelf (COTS) Three-dimensional (3D) Engines** *(Video in slide) - 10 min*	*Tim Boe*, CESER

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Time	Agenda Activity	Presenter
	3-Tool Integration/Dashboard - *10 min* **4-Remediation Data Repository** *(PI screen share Demo) - 15 min*	
13:00 – 13:30	**Resilience Tools** **5-Social science of decontamination & environmental cleanups** - *10 min* **6-Environmental Resilience Tools Wizard** *(PI screen share Demo) - 10 min* **7-Equitable Resilience Builder** - *10 min*	*Keely Maxwell*, CESER
13:30 – 13:45	Break (15 min)	
13:45 – 14:25	**Analysis for Coastal Operational Resiliency (AnCOR) Field Study with Partners** *(Videos in slide)* ***Additional Resources:*** AnCOR Webpage, AnCOR Story	Shannon Serre, EPA OEM Worth Calfee, CESER
14:25 – 14:45	**Operational Testing and Evaluation of Chemical Remediation Activities (OTECRA) Field Study with Partners**	Larry Kaelin, EPA OEM Lukas Oudejans, CESER
14:45 – 15:05	**Managing Research during Emerging Challenges** ***Additional Resource:*** COVID-19 Research Webpage	Shawn Ryan, HS National Program Director Sang Don Lee, HS Principal Assoc.
15:05 – 15:20	Break (15 min)	
15:20 – 16:00	Questions and Answers; Final Remarks	
16:00 - 17:00	Subcommittee Worktime	

ED_006247N_00003020-00021

APPENDIX B: MATERIALS

Material Provided in Advance of the Meeting

- Meeting Agenda
- Charge Questions
- Zoom Virtual Participation Guide

Material Provided During or After the Meeting

- Homeland Security Research Program – Links to Products
- Homeland Security Research Program – Meeting Presentation
- COAB Meeting 2021 Homeland Security Research Program Partner – Homeland Security Research Program FY20-21 Annual Update Presentation
- 2012 Partner Process Fact Sheet
- 2021 Decontamination and Waste Management Tools: HEART (Homeland Security Emergency Action and Research Times for Regions and Program Offices)

ED_006247N_00003020-00022

AGENDA
U.S. Environmental Protection Agency
Board of Scientific Counselors Executive Committee Public Meeting
Tuesday, September 14, 2020 from 3:00 p.m. – 5:30 p.m. EDT

Welcome and Introductory Remarks

3:00 p.m.	Convene Meeting	Thomas Tracy, Designated Federal Officer
3:05 p.m.	Welcome	Bruce Rodan, Associate Director for Science
3:10 p.m.	Welcome and Introduction of BOSC EC Members	Paul Gilman, EC Chair Lucinda Johnson, EC Vice Chair
3:15 p.m.	Review Meeting Agenda and Process	Paul Gilman, EC Chair Lucinda Johnson, EC Vice Chair
3:20 p.m.	Public Comment	Registered Speakers

Deliberation on Homeland Security Subcommittee Draft Report

3:25 p.m.	Homeland Security (HS) Subcommittee Draft Report	Paula Olsiewski, HS SC Chair Justin Teeguarden, HS SC Vice Chair
3:45 p.m.	HS National Program Director and Center Comment	Shawn Ryan, HS NPD Sang Don Lee, HS Principal Associate NPD Greg Sayles, CESER Center Director
4:00 p.m.	BOSC EC Deliberation	Paul Gilman, EC Chair

Deliberation on Safe and Sustainable Water Resources Subcommittee Draft Report

4:20 p.m.	Safe and Sustainable Water Resources (SSWR) Draft Report	Joseph Rodricks, SSWR SC Chair
4:40 p.m.	SSWR National Program Director and Center Comment	Suzanne van Drunick, SSWR NPD Greg Sayles, CESER Center Director Alice Gilliland, CEMM Acting Center Director Jamie Strong, CPHEA Associate Director for Health and Ecology
5:00 p.m.	BOSC EC Deliberation	Paul Gilman, EC Chair

Closing Remarks

5:20 p.m.	Concluding Comments	Bruce Rodan, Associate Director for Science Paul Gilman, EC Chair
5:30 p.m.	Adjourn Meeting	Thomas Tracy, Designated Federal Officer

Appointment

From: rwillis@rossstrategic.com [rwillis@rossstrategic.com]
Sent: 9/14/2021 12:37:53 AM
To: rwillis@rossstrategic.com; Frey, Christopher [Frey.Christopher@epa.gov]; Alisha.bartling@santeeoep.com; Best-Wong, Benita [Best-Wong.Benita@epa.gov]; Bloom, David [Bloom.David@epa.gov]; jerry.cain@choctaw.org; Chu, Ed [Chu.Ed@epa.gov]; marvin@wabanaki.com; Dombrowski, John [Dombrowski.John@epa.gov]; lgover@campo-nsn.gov; Ben Grumbles [ben.grumbles@maryland.gov]; karihedin@fdlrez.com; Keigwin, Richard [Keigwin.Richard@epa.gov]; keogh@adeq.state.ar.us; keyack.michael@azdeq.gov; Jim Macy [jim.macy@nebraska.gov]; pmcdonnell@pa.gov; cnaha@kewa-nsn.us; Noga, Vaughn [Noga.Vaughn@EPA.GOV]; todd.parfitt@wyo.gov; Phillips, Victoria (DEP) [Victoria.phillips@mass.gov]; andrew.putnam@state.co.us; reecemc@dhec.sc.gov; Shaw, Betsy [Shaw.Betsy@epa.gov]; Simon, Nigel [Simon.Nigel@epa.gov]; Szaro, Deb [Szaro.Deb@epa.gov]; scott.thompson@deq.ok.gov; gwagner@3rivers.net; Sarah Abramowitz [sabramowitz@rossstrategic.com]; Abunassar, Elias [Abunassar.Elias@epa.gov]; Allen, Vince [Allen.Vince@epa.gov]; Renee Baecker [baeckerr@dhec.sc.gov]; barela.rebeca@azdeq.gov; Battin, Andrew [Battin.Andrew@epa.gov]; Benson, Sheila [Benson.Sheila@epa.gov]; Berrios, Lisa [Berrios.Lisa@epa.gov]; kathy.bishop@maryland.gov; Blake-Coleman, Wendy [Blake-Coleman.Wendy@epa.gov]; Blancato, Jerry [Blancato.Jerry@epa.gov]; alicia.boss@nebraska.gov; Judith.Branscum@adeq.state.ar.us; Cacho, Julia [Cacho.Julia@epa.gov]; Campbell, Jennie [Campbell.Jennie@epa.gov]; Comer, Lisa [Comer.Lisa@epa.gov]; Curtis, Mary [Curtis.Mary@epa.gov]; Deloach, Anthony [DeLoach.Anthony@epa.gov]; Douglas, Racquel [Douglas.Racquel@epa.gov]; Kristen Durance [kdurance@rossstrategic.com]; Dwyer, Connie [Dwyer.Connie@epa.gov]; Edwards, Crystal [Edwards.Crystal@epa.gov]; Alec Ege [aege@rossstrategic.com]; Evans, Ron [Evans.Ron@epa.gov]; Natasha.Fulton@nau.edu; Beth Graves [bgraves@ecos.org]; Halstead, Amanda [halstead.amanda@epa.gov]; Harbour, Shana [Harbour.Shana@epa.gov]; Henderson, Austin [Henderson.Austin@epa.gov]; Hill, Teresa [Hill.Teresa@epa.gov]; Hindin, David [Hindin.David@epa.gov]; Houyoux, Marc [Houyoux.Marc@epa.gov]; Harry Hunsicker, III [harry.hunsicker@maryland.gov]; Ingram, Amir [Ingram.Amir@epa.gov]; Davies, James [Davies.James@epa.gov]; Nancy-John@cherokee.org; Chelsea Jones [chelsea-jones@cherokee.org]; Jones, Doug [jones.doug@epa.gov]; Kadeli, Lek [Kadeli.Lek@epa.gov]; Kaye, Barry [Kaye.Barry@epa.gov]; Krul, Cassandra [krul.cassandra@epa.gov]; Lindsay, Jane [lindsay.jane@epa.gov]; Paulina Lopez-Santos [plopezsantos@ecos.org]; Matthews, Lisa [Matthews.Lisa@epa.gov]; McCabe, Erin [mccabe.erin@epa.gov]; Melcer, Allen [melcer.allen@epa.gov]; Mixon, Edward [Mixon.Edward@epa.gov]; Moutoux, Nicole [Moutoux.Nicole@epa.gov]; Nicholas, David [Nicholas.David@epa.gov]; Jody Paessler [jody.paessler1@wyo.gov]; james.purvis@maryland.gov; krakouskas@ecos.org; Rawls, Whitney [rawls.whitney@epa.gov]; Reed, Kristen [Reed.Kristen@epa.gov]; Reim, Heather [hreim@pa.gov]; Rey, Dominique [Rey.Dominique@epa.gov]; Richardson, RobinH [Richardson.RobinH@epa.gov]; Robbins, Chris [Robbins.Chris@epa.gov]; Rosner, Sheryl [Rosner.Sheryl@epa.gov]; Saunders-Gadri, Linda [Saunders-Gadri.Linda@epa.gov]; lydia.scheer@nau.edu; Schmeider, Alayna [aschmeider@pa.gov]; Simon, Harvey [Simon.Harvey@epa.gov]; Sharon.Smith@deq.ok.gov; Snyder, Jessica [Snyder.Jessica@epa.gov]; shastaub@pa.gov; Dana Stefan [dstefan@rossstrategic.com]; St. Fleur, Marilyn [StFleur.Marilyn@epa.gov]; thompsonb@adeq.state.ar.us; Thompson, Patricia [thompson.patricia@epa.gov]; Tunis, Catherine [Tunis.Catherine@epa.gov]; Wayland, Richard [Wayland.Richard@epa.gov]; dwelsh@ecos.org; Jason-White@cherokee.org; Wilson, Rita [Wilson.Rita@epa.gov]; Wintrob, Paul [Wintrob.Paul@epa.gov]; Wood, Priscilla [Wood.Priscilla@epa.gov]; Young, Margo [Young.Margo@epa.gov]

Subject: E-Enterprise Leadership Council (EELC) Conference Call
Location: Microsoft Teams Meeting

Start: 9/14/2021 4:30:00 PM
End: 9/14/2021 6:00:00 PM
Show Time As: Busy

-----Original Appointment-----
From: Robert Willis <rwillis@rossstrategic.com>
Sent: Thursday, January 14, 2021 8:01 PM

To: Robert Willis; Alisha.bartling@santeeoep.com; Best-Wong, Benita; Bloom, David; jerry.cain@choctaw.org; Chu, Ed; marvin@wabanaki.com; Dombrowski, John; lgover@campo-nsn.gov; Ben Grumbles; karihedin@fdlrez.com; Keigwin, Richard; keogh@adeq.state.ar.us; keyack.michael@azdeq.gov; Jim Macy; pmcdonnell@pa.gov; cnaha@kewa-nsn.us; Noga, Vaughn; todd.parfitt@wyo.gov; Phillips, Victoria (DEP); andrew.putnam@state.co.us; reecemc@dhec.sc.gov; Shaw, Betsy; Simon, Nigel; Szaro, Deb; scott.thompson@deq.ok.gov; gwagner@3rivers.net; Sarah Abramowitz; Abunassar, Elias; Allen, Vince; Renee Baecker; barela.rebeca@azdeq.gov; Battin, Andrew; Benson, Sheila; Berrios, Lisa; kathy.bishop@maryland.gov; Blake-Coleman, Wendy; Blancato, Jerry; alicia.boss@nebraska.gov; Judith.Branscum@adeq.state.ar.us; Cacho, Julia; Campbell, Jennie; Comer, Lisa; Curtis, Mary; Deloach, Anthony; Douglas, Racquel; Kristen Durance; Dwyer, Connie; Edwards, Crystal; Alec Ege; Evans, Ron; Natasha.Fulton@nau.edu; Beth Graves; Halstead, Amanda; Harbour, Shana; Henderson, Austin; Hill, Teresa; Hindin, David; Houyoux, Marc; Harry Hunsicker, III; Ingram, Amir; Davies, James; Nancy-John@cherokee.org; Chelsea Jones; Jones, Doug; Kadeli, Lek; Kaye, Barry; Krul, Cassandra; Lindsay, Jane; Paulina Lopez-Santos; Matthews, Lisa; McCabe, Erin; Melcer, Allen; Mixon, Edward; Moutoux, Nicole; Nicholas, David; Jody Paessler; james.purvis@maryland.gov; krakouskas@ecos.org; Rawls, Whitney; Reed, Kristen; Reim, Heather; Rey, Dominique; Richardson, RobinH; Robbins, Chris; Rosner, Sheryl; Saunders-Gadri, Linda; lydia.scheer@nau.edu; Schmeider, Alayna; Simon, Harvey; Sharon.Smith@deq.ok.gov; Snyder, Jessica; shastaub@pa.gov; Dana Stefan; St. Fleur, Marilyn; thompsonb@adeq.state.ar.us; Thompson, Patricia; Tunis, Catherine; Wayland, Richard; dwelsh@ecos.org; Jason-White@cherokee.org; Wilson, Rita; Wintrob, Paul; Wood, Priscilla; Young, Margo
Subject: E-Enterprise Leadership Council (EELC) Conference Call
When: Tuesday, September 14, 2021 9:30 AM-11:00 AM (UTC-08:00) Pacific Time (US & Canada).
Where: Microsoft Teams Meeting

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Appointment

From: Tracy, Tom [Tracy.Tom@epa.gov]
Sent: 10/19/2021 1:26:45 PM
To: Tracy, Tom [Tracy.Tom@epa.gov]; Anthony Bahinski [anthony.x.bahinski@gsk.com]; Rick_Becker@americanchemistry.com; Rick Becker [Ex. 6] Colberg, Juan [juan.colberg@pfizer.com]; nane nane [Ex. 6]; Richard Di Giulio, Ph.D. [richd@duke.edu]; Gennings, Chris [chris.gennings@mssm.edu]; daleejohnson Ex. 6 jubergconsulting [Ex. 6]; juleen.lam@csueastbay.edu; Malloy, Timothy [Malloy@law.ucla.edu]; jmcpartland@edf.org; Rose, Jane [rose.jl@pg.com]; Solomon, Gina [gina.solomon@ucsf.edu]; ps24@columbia.edu; ponisseril Somasundaran [Ex. 6] James Stevens [Ex. 6]; dvorhees@healtheffects.org; djvorhees [Ex. 6]; Waters, Katrina M [katrina.waters@pnnl.gov]; weisel@eohsi.rutgers.edu; Dionisio, Kathie [Dionisio.Kathie@epa.gov]; Lass, Taylor [Lass.Taylor@epa.gov]; canden.byrd@icf.com; Trentacoste, Emily [trentacoste.emily@epa.gov]; Guiseppi-Elie, Annette [Guiseppi-Elie.Annette@epa.gov]
CC: Ross, Mary [Ross.Mary@epa.gov]; Doa, Maria [Doa.Maria@epa.gov]; Hawkins, CherylA [Hawkins.CherylA@epa.gov]; Penalva-Arana, Carolina [Penalva-Arana.Carolina@epa.gov]; Cascio, Wayne [cascio.wayne@epa.gov]; Frey, Christopher [Frey.Christopher@epa.gov]; Rodan, Bruce [rodan.bruce@epa.gov]

Subject: BOSC CSS/HERA Virtual Meeting
Attachments: BOSC CSS/HERA Virtual Meeting; BOSC CSS/HERA Virtual Meeting; CSSBOSC_Nov2021_Agenda_Final.pdf; CSSBOSC_Nov2021_ChargeQuestions_Final.pdf
Location: ZOOM - Connection Info Below

Start: 11/4/2021 4:00:00 PM
End: 11/4/2021 9:00:00 PM
Show Time As: Tentative

Recurrence: Daily
every day from 12:00 PM to 5:00 PM
Required Attendees: Anthony Bahinski; Rick_Becker@americanchemistry.com; Rick Becker; juan.colberg@pfizer.com; jcolberg1 [Ex. 6] richd@duke.edu; Gennings, Chris; daleejohnson Ex. 6 jubergconsulting [Ex. 6] juleen.lam@csueastbay.edu; Malloy@law.ucla.edu; jmcpartland@edf.org; rose.jl@pg.com; gina.solomon@ucsf.edu; ps24@columbia.edu; Somsomasundaran [Ex. 6] JLS.paradoxfound [Ex. 6] dvorhees@healtheffects.org; djvorhees [Ex. 6] katrina.waters@pnnl.gov; weisel@eohsi.rutgers.edu; Dionisio, Kathie; Lass, Taylor; canden.byrd@icf.com; Trentacoste, Emily; Guiseppi-Elie, Annette
Optional Attendees: Ross, Mary; Doa, Maria; Hawkins, CherylA; Penalva-Arana, Carolina; Wayne Cascio; Frey, Christopher; Rodan, Bruce

Ex. 6

Meeting ID: [Ex. 6]
Passcode: [Ex. 6]

Appointment

To: Tracy, Tom [Tracy.Tom@epa.gov]; Anthony Bahinski [anthony.x.bahinski@gsk.com]; Rick_Becker@americanchemistry.com; Rick Becker; Ex. 6 juan.colberg@pfizer.com; jcolberg1; Ex. 6 richd@duke.edu; Gennings, Chris [chris.gennings@mssm.edu]; daleejohnson Ex. 6 jubergconsulting; Ex. 6 Malloy@law.ucla.edu; jmcpartland@edf.org; rose.jl@pg.com; gina.solomon@ucsf.edu; ps24@columbia.edu; Somsomasundaran; Ex. 6 JLS.paradoxfound; Ex. 6 dvorhees@healtheffects.org; djvorhees; Ex. 6 weisel@eohsi.rutgers.edu; Dionisio, Kathie [Dionisio.Kathie@epa.gov]; Lass, Taylor [Lass.Taylor@epa.gov]; canden.byrd@icf.com; Trentacoste, Emily [trentacoste.emily@epa.gov]; Guiseppi-Elie, Annette [Guiseppi-Elie.Annette@epa.gov]; katrina.waters@pnnl.gov; juleen.lam@csueastbay.edu

CC: Ross, Mary [Ross.Mary@epa.gov]; Doa, Maria [Doa.Maria@epa.gov]; Hawkins, CherylA [Hawkins.CherylA@epa.gov]; Penalva-Arana, Carolina [Penalva-Arana.Carolina@epa.gov]; Cascio, Wayne [cascio.wayne@epa.gov]; Rodan, Bruce [rodan.bruce@epa.gov]; Compton, Kathleen [compton.kathleen@epa.gov]; Frey, Christopher [Frey.Christopher@epa.gov]; Clifford Weisel [cpweisel@eohsi.rutgers.edu]

Subject: BOSC CSS/HERA Virtual Meeting
Location: ZOOM - Connection Info Below

Start: 11/4/2021 4:00:00 PM
End: 11/4/2021 9:00:00 PM
Show Time As: Tentative

Recurrence: (none)

Required Attendees: Tracy, Tom; Anthony Bahinski; Rick_Becker@americanchemistry.com; Rick Becker; juan.colberg@pfizer.com; jcolberg1; Ex. 6 richd@duke.edu; Gennings, Chris; daleejohnson Ex. 6 jubergconsulting; Ex. 6 juleen.lam@csueastbay.edu; Malloy@law.ucla.edu; jmcpartland@edf.org; rose.jl@pg.com; gina.solomon@ucsf.edu; ps24@columbia.edu; Somsomasundaran; Ex. 6 JLS.paradoxfound; Ex. 6 dvorhees@healtheffects.org; djvorhees; Ex. 6 weisel@eohsi.rutgers.edu; Dionisio, Kathie; Lass, Taylor; canden.byrd@icf.com; Trentacoste, Emily; Guiseppi-Elie, Annette; katrina.waters@pnnl.gov

Optional Attendees: Ross, Mary; Doa, Maria; Hawkins, CherylA; Penalva-Arana, Carolina; Wayne Cascio; Rodan, Bruce; Compton, Kathleen; Frey, Christopher; Clifford Weisel

-----Original Appointment-----
From: Tracy, Tom <Tracy.Tom@epa.gov>
Sent: Tuesday, August 24, 2021 12:21 PM
To: Tracy, Tom; Anthony Bahinski; Rick_Becker@americanchemistry.com; Rick Becker; juan.colberg@pfizer.com; jcolberg1; Ex. 6 richd@duke.edu; Gennings, Chris; daleejohnson Ex. 6 jubergconsulting; Ex. 6 juleen.lam@csueastbay.edu; Malloy@law.ucla.edu; jmcpartland@edf.org; rose.jl@pg.com; gina.solomon@ucsf.edu; ps24@columbia.edu; Somsomasundaran; Ex. 6 JLS.paradoxfound; Ex. 6 dvorhees@healtheffects.org; djvorhees; Ex. 6 weisel@eohsi.rutgers.edu; Dionisio, Kathie; Lass, Taylor; canden.byrd@icf.com; Trentacoste, Emily; Guiseppi-Elie, Annette; katrina.waters@pnnl.gov
Cc: Ross, Mary; Doa, Maria; Hawkins, CherylA; Penalva-Arana, Carolina; Compton, Kathleen
Subject: BOSC CSS/HERA Virtual Meeting
When: Thursday, November 4, 2021 12:00 PM-5:00 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Connection Information Coming Soon

Appointment

To: Tracy, Tom [Tracy.Tom@epa.gov]; Anthony Bahinski [anthony.x.bahinski@gsk.com]; Rick_Becker@americanchemistry.com; Rick Becker [rick_becker Ex. 6 juan.colberg@pfizer.com; jcolberg1 Ex. 6 richd@duke.edu; Gennings, Chris [chris.gennings@mssm.edu]; daleejohnson Ex. 6 jubergconsulting Ex. 6 juleen.lam@csueastbay.edu; Malloy@law.ucla.edu; jmcpartland@edf.org; rose.jl@pg.com; gina.solomon@ucsf.edu; Somsomasundaran Ex. 6 JLS.paradoxfound Ex. 6 dvorhees@healtheffects.org; djvorhees Ex. 6 weisel@eohsi.rutgers.edu; Dionisio, Kathie [Dionisio.Kathie@epa.gov]; Lass, Taylor [Lass.Taylor@epa.gov]; canden.byrd@icf.com; Trentacoste, Emily [trentacoste.emily@epa.gov]; Guiseppi-Elie, Annette [Guiseppi-Elie.Annette@epa.gov]; katrina.waters@pnnl.gov; ps24@columbia.edu

CC: Ross, Mary [Ross.Mary@epa.gov]; Doa, Maria [Doa.Maria@epa.gov]; Hawkins, CherylA [Hawkins.CherylA@epa.gov]; Penalva-Arana, Carolina [Penalva-Arana.Carolina@epa.gov]; Cascio, Wayne [cascio.wayne@epa.gov]; Rodan, Bruce [rodan.bruce@epa.gov]; Frey, Christopher [Frey.Christopher@epa.gov]; Clifford Weisel [cpweisel@eohsi.rutgers.edu]

Subject: BOSC CSS/HERA Virtual Meeting
Location: ZOOM - Connection Info Below

Start: 11/5/2021 4:00:00 PM
End: 11/5/2021 9:00:00 PM
Show Time As: Tentative

Recurrence: (none)

Required Attendees: Tracy, Tom; Anthony Bahinski; Rick_Becker@americanchemistry.com; Rick Becker; juan.colberg@pfizer.com; jcolberg1 Ex. 6 richd@duke.edu; Gennings, Chris; daleejohnson Ex. 6 jubergconsulting Ex. 6 juleen.lam@csueastbay.edu; Malloy@law.ucla.edu; jmcpartland@edf.org; rose.jl@pg.com; gina.solomon@ucsf.edu; ps24@columbia.edu; Somsomasundaran Ex. 6 JLS.paradoxfound Ex. 6 dvorhees@healtheffects.org; djvorhees Ex. 6 weisel@eohsi.rutgers.edu; Dionisio, Kathie; Lass, Taylor; canden.byrd@icf.com; Trentacoste, Emily; Guiseppi-Elie, Annette; katrina.waters@pnnl.gov

Optional Attendees: Ross, Mary; Doa, Maria; Hawkins, CherylA; Penalva-Arana, Carolina; Wayne Cascio; Rodan, Bruce; Frey, Christopher; Clifford Weisel

-----Original Appointment-----
From: Tracy, Tom <Tracy.Tom@epa.gov>
Sent: Tuesday, August 24, 2021 12:21 PM
To: Tracy, Tom; Anthony Bahinski; Rick_Becker@americanchemistry.com; Rick Becker; juan.colberg@pfizer.com; jcolberg1 Ex. 6 richd@duke.edu; Gennings, Chris; daleejohnson Ex. 6 jubergconsulting Ex. 6 juleen.lam@csueastbay.edu; Malloy@law.ucla.edu; jmcpartland@edf.org; rose.jl@pg.com; gina.solomon@ucsf.edu; ps24@columbia.edu; Somsomasundaran Ex. 6 JLS.paradoxfound Ex. 6 dvorhees@healtheffects.org; djvorhees Ex. 6 weisel@eohsi.rutgers.edu; Dionisio, Kathie; Lass, Taylor; canden.byrd@icf.com; Trentacoste, Emily; Guiseppi-Elie, Annette; katrina.waters@pnnl.gov
Cc: Ross, Mary; Doa, Maria; Hawkins, CherylA; Penalva-Arana, Carolina
Subject: BOSC CSS/HERA Virtual Meeting
When: Friday, November 5, 2021 12:00 PM-5:00 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Connection Information Coming Soon

U.S. EPA Office of Research and Development
Board of Scientific Counselors Subcommittee
Chemical Safety for Sustainability and
Health and Environmental Risk Assessment National Research Programs
Virtual Meeting on November 4-5, 2021

Thursday November 4, 2021

TIME (EST)	AGENDA ACTIVITY	PRESENTER(S)
12:00 – 12:10	Meeting kick off/FACA rules/expectations/logistics	Tom Tracy (OSAPE) DFO
12:10 – 12:15	ORD Welcome	Wayne Cascio (ORD) Acting Principal Deputy Assistant Administrator for Science
12:15 – 12:25	Subcommittee Chair Opening Remarks and Introductions	Katrina Waters Chair
12:25 – 12:45	Chemical Safety for Sustainability Overview	Annette Guiseppi-Elie (ORD) Acting National Program Director, CSS
12:45 – 1:00	Summary of Feb 2021 NAMs-focused BOSC meeting	Kathie Dionisio (ORD) Principal Associate National Program Director, CSS
CSS SESSION 1: Integration and Utility of CSS Research		
1:00 – 1:10	Introduction to Charge Question 1	Annette Guiseppi-Elie (ORD) Acting National Program Director, CSS
1:10 – 1:40	The Development and Use of the Chemical Transformation Simulator for New and Existing Chemicals	Caroline Stevens (ORD/CEMM) & Marcy Card (OCSPP/OPPT)
1:40 – 2:10	The Use of Non-Targeted Analysis for Rapid and Emergency Response	Seth Newton (ORD/CCTE) & Christina Langlois-Miller (OLEM)
2:10 – 2:20	**BREAK**	
2:20 – 2:50	A Framework for Evaluating Engineered Nanomaterials within EPA's Pesticide Program	Chunming Su (ORD/CESER) & Andrew Byro (OCSPP/OPP)
2:50 – 3:45	BOSC Subcommittee Discussion and Question and Answer Session (with Presenters)	Katrina Waters Chair
3:45 – 4:45	BOSC Subcommittee Deliberations	Katrina Waters Chair
4:45	**ADJOURN**	

10/26/2021

U.S. EPA Office of Research and Development
Board of Scientific Counselors Subcommittee
Chemical Safety for Sustainability and
Health and Environmental Risk Assessment National Research Programs
Virtual Meeting on November 4-5, 2021

Friday November 5, 2021

TIME (EST)	AGENDA ACTIVITY	PRESENTER(S)
12:00 – 12:10	Public comments	Tom Tracy (OSAPE) DFO
12:10 – 12:15	BOSC Subcommittee Chair Opening Remarks	Katrina Waters Chair
CSS SESSION 2: Solutions-Driven Research to Meet Partner Needs		
12:15 – 12:25	Introduction to Charge Question 2	Annette Guiseppi-Elie (ORD) Acting National Program Director, CSS
12:25 – 12:55	Cross-Governmental Collaboration: Characterization of Emissions and Exposure due to 3D Printing	Todd Luxton (ORD/CESER)
12:55 – 1:25	Regional Collaboration: Evaluating Chemical Toxicity on Listed Species (R10 RARE project)	Dan Villeneuve (ORD/CCTE) & Mark Jankowski (R10)
1:25 – 1:55	Program Office Collaboration: Biosolids Evaluations	Caroline Ring (ORD/CCTE) & David Tobias (OW)
1:55 – 2:50	BOSC Subcommittee Discussion and Question and Answer Session (with Presenters)	Katrina Waters Chair
2:50 – 3:00	**BREAK**	
3:00 – 3:30	Application of Cost Effectiveness and Value of Information Analyses in Evaluating the Utility of Toxicity-Testing Methodologies	Paul Price (ORD)
CLOSING		
3:30 – 3:45	Closing statement and response	Annette Guiseppi-Elie (ORD) Acting National Program Director, CSS
3:45 – 4:45	BOSC Subcommittee Deliberations	Katrina Waters Chair
4:45	**ADJOURN**	

CCTE = Center for Computational Toxicology and Exposure
CEMM = Center for Environmental Measurement and Modeling
CESER = Center for Environmental Solutions and Emergency Response
CSS = Chemical Safety for Sustainability
OLEM = Office of Land and Emergency Management
OCSPP = Office of Chemical Safety and Pollution Prevention
OPP = Office of Pesticide Programs
OPPT = Office of Pollution Prevention and Toxics
ORD = Office of Research and Development
OSAPE = Office of Science Advisor, Policy and Engagement
OW = Office of Water
R10 = EPA Region 10

10/26/2021

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Charge Questions

The November 2021 meeting will focus only on the Chemical Safety for Sustainability (CSS) National Research Program.

Introduction: The November 2021 meeting of the CSS-HERA Subcommittee of the Board of Scientific Counselors (BOSC) will review implementation of the CSS portfolio with specific emphasis on partner-focused solutions-driven examples. The February 2021 meeting covered most of the CSS portfolio involved in the development and application of New Approach Methodologies (NAMs). This meeting transitions to presenting on solution-driven translation and knowledge research across the CSS portfolio. The focus of the review is on the implementation of research and development that was outlined at the strategic level in the CSS Strategic Research Action Plan for FY19-22, as previously reviewed by the BOSC.

Charge Question 1

A portion of the CSS portfolio focuses on development of databases, tools, and strategic frameworks to support decision making by partners. These products often demonstrate an integration of multiple lines of research. Building on the case study examples, what suggestion(s) or recommendation(s) does the Subcommittee offer to strengthen integration and utility of CSS research products?

Charge Question 2

A primary goal of the CSS program is to conduct solutions-driven research, and to translate research to meet partner and stakeholder needs. As one implementation strategy to achieve this goal, research products may be planned and implemented in collaboration with partners. Noting the examples presented in Session 2, please provide specific suggestions to further strengthen the solutions-driven aspect of the CSS portfolio to best meet partner and stakeholder needs.

Appointment

From: Tracy, Tom [Tracy.Tom@epa.gov]
Sent: 8/16/2021 1:20:38 PM
To: Tracy, Tom [Tracy.Tom@epa.gov]; Scott Ahlstrom [Scott.Ahlstrom@CorixTexas.com]; ahlmail[Ex. 6]Jerad Bales [jdbales@cuahsi.org]; Carr, Steve [scarr@lacsd.org]; sfc95823[Ex. 6]cole.david@deq.state.or.us; jb_doohan[Ex. 6] jducoste@ncsu.edu; Elizabeth Fassman-Beck [elizabethfb@sccwrp.org]; Hitzhusen, Fred [Hitzhusen.1@osu.edu]; Kate Lajtha [kate.lajtha@oregonstate.edu]; miclorah[Ex. 6]mmlorah@usgs.gov; John Lowenthal [john.lowenthal@cardno-gs.com]; eastmeetswest1[Ex. 6] Joseph V Rodricks [JRodricks@ramboll.com]; Tim Verslycke [tverslycke@gradientcorp.com]; stevew@sccwrp.org; John R White [jrwhite@lsu.edu]; ljohnson@d.umn.edu; VanDrunick, Suzanne [vanDrunick.Suzanne@epa.gov]; Williams, Joe [Williams.Joe@epa.gov]; Rea, Anne [Rea.Anne@epa.gov]; Trentacoste, Emily [trentacoste.emily@epa.gov]; canden.byrd@icf.com; Lass, Taylor [Lass.Taylor@epa.gov]; Steve Carr[Ex. 6]
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Subject: BOSC SSWR Virtual Meeting
Attachments: Untitled Attachment; Untitled Attachment; BoSC Charge Questions_Nutrients and HABs_Dec 1-2 2021.pdf; SSWR BOSC Nutrients and HABs Agenda.pdf; BOSC_SSWR_RA6 FINAL.pdf; BOSC_SSWR_RA5 FINAL.pdf; BOSC_SSWR_RA4_FINAL.pdf
Location: Zoom - Connection Info Below - Open "The Entire Series"

Start: 12/1/2021 5:00:00 PM

End: 12/1/2021 10:00:00 PM
Show Time As: Tentative

Recurrence: Daily
every day from 12:00 PM to 5:00 PM

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Optional Attendees: Ross, Mary; Doa, Maria; Penalva-Arana, Carolina; Hawkins, CherylA; COLE David * DEQ; Rodan, Bruce; Frey, Christopher; Wayne Cascio; Hagerthey, Scot; Rashleigh, Brenda; Russell, Marc; Thurston, Hale; Hilborn, Elizabeth; Dugan, Nicholas; Schaeffer, Blake; Brown, Cheryl A.; Kate Schofield; Golden, Heather; Yuan, Yongping; Compton, Jana; Nietch, Christopher; Grimm, Ann; Smucker, Nathan; Garmestani, Ahjond; Boothman, Warren; Ridley, Caroline; Nestlerode, Janet; Oczkowski, Autumn; Pacella, Stephen; Hagy, Jim; Handler, Amalia; Brooks, J. Renee; Weitzman, Julie; Pauer, James; Lazorchak, Jim; Murray, Regan; Keeley, Ann; Best-Wong, Benita; Ohanian, Edward (Ohanian.Edward@epa.gov); Amina Pollard (Pollard.Amina@epa.gov); Nagle, Deborah; Goodin, John; Sawyers, Andrew; McLain, Jennifer L.; Wood, Robert; Connors, Sandra; Miller, Wynne; Guilaran, Yu-Ting; Morton, Michael; Eliodora Chamberlain (Chamberlain.Eliodora@epa.gov); Jason Daniels (Daniels.Jason@epa.gov); Varnado, Miriam; Thomas, Dana; Euling, Susan; Gallagher, Kathryn; Oliver, Jacques; DAnglada, Lesley; Pelletier, Peg; Lehmann, Sarah; Flahive, Katie; Corona, Joel; Lan, Alexis; Newman, Sharon; Zahreddine, Phil; Smith, Bernicel; Rose, Bob; Wall, Tom; Scozzafava, MichaelE; Yusuf, Istanbul; McKane, Bob; Foreman, Katherine; Gleason, Tim; Latham, Michelle; Detenbeck, Naomi; Sabo, Robert; Ravenscroft, John; Akhter, Shamima; Heberling, Matthew; Jarvis, Brandon; Duvall, Melissa; Webb, Laura; Schaff, Steve; Rodgers-Jenkins, Crystal; Gardenier, George; Greene, Rick; Lu, Jingrang; King, Whitney; Clark, Christopher

[Ex. 6]

Meeting ID: [Ex. 6]
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Appointment

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Location: Zoom - Connection Info Below - Open "The Entire Series"

Start: 12/2/2021 5:00:00 PM
End: 12/2/2021 10:00:00 PM

Recurrence: (none)

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Appointment

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Subject: Meeting (ScheduledMeeting)/Thread Id:
Ex. 6
Ex. 6 /+140285 Ex. 6 Simon, Nigel,teamsvisitor:06805b71e64847a89735f0d392f82a5d,Kari Jacobson (Gu...

Start: 9/14/2021 4:24:12 PM
End: 9/14/2021 5:43:01 PM
Show Time As: Busy

Recurrence: (none)

Required Attendees: +140285 Ex. 6 Simon, Nigel; teamsvisitor:06805b71e64847a89735f0d392f82a5d; Kari Jacobson; Battin, Andrew; Shaw, Betsy; Phillips, Victoria (DEP); Nicholas, David; Comer, Lisa; Halstead, Amanda; Plastino, Michael; krakouskas (Guest); Blake-Coleman, Wendy; Matthews, Lisa; Frey, Christopher; Drinkard, Andrea; Greiner, Diana; Dombrowski, John; Kaye, Barry; Monger, Jon; teamsvisitor:7333d4e816794448a9528c3404952f04; Rey, Dominique; Simon, Harvey; teamsvisitor:7a51b23a7e7c4e59a1e36a0a42b07cec; Snyder, Jessica; teamsvisitor:62d6b0e800eb4e8da6b3562a3700aeb7; teamsvisitor:42343fac65824278acc6857df9269201; Evans, Ron; Dana Stefan; rwillis@rossstrategic.com; Application 207a6836-d031-4764-a9d8-c1193f455f21; Curtis, Mary; Harbour, Shana; Szaro, Deb; reecemc@dhec.sc.gov; teamsvisitor:a372ffdbcf3d47398f6bec617814e2ec; Putnam, Andrew; Rawls, Whitney; teamsvisitor:6a85bff5bf5d4d2899cec03b7bf66dd5; teamsvisitor:2e1c2ee0259d40b5acad3c972d99c937; Harry Hunsicker, III; Noga, Vaughn; Bloom, David; Melcer, Allen; teamsvisitor:312996278cea4ebbbc7899dfdc239849; Amin, Faisal; Campbell, Jennie; teamsvisitor:9dd10550a73d4a8a9c27957066133d59; teamsvisitor:d99bea10e7694395bf1335b90aa06059; Forrest, Stephen; Mixon, Edward; McCabe, Janet; Horn, Bevin; Stucky, Marie; Abunassar, Elias; Best-Wong, Benita; Gerald

Wagner; Rosner, Sheryl; Chu, Ed; McDonnell, Patrick; teamsvisitor:9922b80362d64fe18d99e05e6c1cf319; Kristen Durance; Application 9e133cac-5238-4d1e-aaa0-d8ff4ca23f4e; Application b102ccd8-1925-448b-90a7-b083aba25074; Application d123a3e6-7f0a-4bbd-91f2-6d0ad1707297

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Appointment

From: Rakosnik, Delaney [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=274573739A9F446883072599086EDEDD-RAKOSNIK, D]
on behalf of Goffman, Joseph [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=23474D598E8D4EDFA9214A5991F2935B-GOFFMAN, JO]
Sent: 8/20/2021 6:58:37 PM
To: Goffman, Joseph [Goffman.Joseph@epa.gov]; Carbonell, Tomas [Carbonell.Tomas@epa.gov]; Enobakhare, Rosemary [Enobakhare.Rosemary@epa.gov]; Weaver, Susannah [Weaver.Susannah@epa.gov]; Tsirigotis, Peter [Tsirigotis.Peter@epa.gov]; Culligan, Kevin [culligan.kevin@epa.gov]; Utech, Dan [Utech.Dan@epa.gov]; Gunning, Paul [Gunning.Paul@epa.gov]; Grundler, Christopher [grundler.christopher@epa.gov]; smontoya@partnershipproject.org; moberhoffne[Ex. 6]; kgerbert@partnershipproject.org; Paul.Billings@lung.org; Laura.Bender@lung.org; mwalker@cleanair.org; ssmith@catf.us; dschroeder@catf.us; lydiacardona@greenlatinos.org; markmagana@greenlatinos.org; jennis@earthjustice.org; lpagel@earthworksaction.org; pzalzal@edf.org; ptomcik@momscleanairforce.org; rwinn@edf.org; ddoniger@nrdc.org; mahyar.sorour@sierraclub.org; andres.restrepo@sierraclub.org; camilla.feibelman@sierraclub.org
CC: Cortez Russell, Loni [Russell.Loni@epa.gov]; Campbell, Ann [Campbell.Ann@epa.gov]; Cassady, Alison [Cassady.Alison@epa.gov]

Subject: Meeting with the Methane Partners Campaign
Location: Microsoft Teams (link below)

Start: 9/3/2021 4:30:00 PM
End: 9/3/2021 5:15:00 PM
Show Time As: Busy

Required Attendees: Carbonell, Tomas; Enobakhare, Rosemary; Weaver, Susannah; Tsirigotis, Peter; Culligan, Kevin; Utech, Dan; Gunning, Paul; Grundler, Christopher; smontoya@partnershipproject.org; moberhoffner[Ex. 6] kgerbert@partnershipproject.org; Paul.Billings@lung.org; Laura.Bender@lung.org; mwalker@cleanair.org; ssmith@catf.us; dschroeder@catf.us; lydiacardona@greenlatinos.org; markmagana@greenlatinos.org; jennis@earthjustice.org; lpagel@earthworksaction.org; pzalzal@edf.org; ptomcik@momscleanairforce.org; rwinn@edf.org; ddoniger@nrdc.org; mahyar.sorour@sierraclub.org; andres.restrepo@sierraclub.org; camilla.feibelman@sierraclub.org; Weaver, Susannah
Optional Attendees: Cortez Russell, Loni; Campbell, Ann; Cassady, Alison

---

Microsoft Teams meeting

Join on your computer or mobile app
Click here to join the meeting

Or call in (audio only)
[Ex. 6] United States, Washington DC

Phone Conference ID: [Ex. 6]
Find a local number | Reset PIN

By participating in EPA hosted virtual meetings and events, you are consenting to abide by the agency's terms of use. In addition, you acknowledge that content you post may be collected and used in support of FOIA and eDiscovery activities.

Learn More | Meeting options

Appointment

From: Rakosnik, Delaney [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=274573739A9F446883072599086EDEDD-RAKOSNIK, D]
on behalf of Goffman, Joseph [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=23474D598E8D4EDFA9214A5991F2935B-GOFFMAN, JO]
Sent: 8/20/2021 6:58:37 PM
To: Goffman, Joseph [Goffman.Joseph@epa.gov]; Carbonell, Tomas [Carbonell.Tomas@epa.gov]; Enobakhare, Rosemary [Enobakhare.Rosemary@epa.gov]; Weaver, Susannah [Weaver.Susannah@epa.gov]; Tsirigotis, Peter [Tsirigotis.Peter@epa.gov]; Culligan, Kevin [culligan.kevin@epa.gov]; Utech, Dan [Utech.Dan@epa.gov]; Gunning, Paul [Gunning.Paul@epa.gov]; Grundler, Christopher [grundler.christopher@epa.gov]; smontoya@partnershipproject.org; moberhoffner Ex. 6 kgerbert@partnershipproject.org; Paul.Billings@lung.org; Laura.Bender@lung.org; mwalker@cleanair.org; ssmith@catf.us; dschroeder@catf.us; lydiacardona@greenlatinos.org; markmagana@greenlatinos.org; jennis@earthjustice.org; lpagel@earthworksaction.org; pzalzal@edf.org; ptomcik@momscleanairforce.org; rwinn@edf.org; ddoniger@nrdc.org; mahyar.sorour@sierraclub.org; andres.restrepo@sierraclub.org; camilla.feibelman@sierraclub.org
CC: Cortez Russell, Loni [Russell.Loni@epa.gov]; Campbell, Ann [Campbell.Ann@epa.gov]; Cassady, Alison [Cassady.Alison@epa.gov]; m.oberhoffner Ex. 6

Subject: Meeting with the Methane Partners Campaign
Location: Microsoft Teams (link below)

Start: 9/3/2021 4:30:00 PM
End: 9/3/2021 5:15:00 PM
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Required Attendees: Goffman, Joseph; Carbonell, Tomas; Enobakhare, Rosemary; Weaver, Susannah; Tsirigotis, Peter; Culligan, Kevin; Utech, Dan; Gunning, Paul; Grundler, Christopher; smontoya@partnershipproject.org; moberhoffner Ex. 6 kgerbert@partnershipproject.org; Paul.Billings@lung.org; Laura.Bender@lung.org; mwalker@cleanair.org; ssmith@catf.us; dschroeder@catf.us; lydiacardona@greenlatinos.org; markmagana@greenlatinos.org; jennis@earthjustice.org; lpagel@earthworksaction.org; pzalzal@edf.org; ptomcik@momscleanairforce.org; rwinn@edf.org; ddoniger@nrdc.org; mahyar.sorour@sierraclub.org; andres.restrepo@sierraclub.org; camilla.feibelman@sierraclub.org
Optional Attendees: Cortez Russell, Loni; Campbell, Ann; Cassady, Alison; m.oberhoffner Ex. 6

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on behalf of Goffman, Joseph [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=23474D598E8D4EDFA9214A5991F2935B-GOFFMAN, JO]
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CC: Cortez Russell, Loni [Russell.Loni@epa.gov]; Campbell, Ann [Campbell.Ann@epa.gov]; Cassady, Alison [Cassady.Alison@epa.gov]; m.oberhoffner Ex. 6 Conrad Schneider [cschneider@catf.us]

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on behalf of Goffman, Joseph [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=23474D598E8D4EDFA9214A5991F2935B-GOFFMAN, JO]
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Optional Attendees: Cortez Russell, Loni; Campbell, Ann; Cassady, Alison

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on behalf of Goffman, Joseph [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=23474D598E8D4EDFA9214A5991F2935B-GOFFMAN, JO]
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Subject: Meeting with the Methane Partners Campaign
Attachments: cidf_ksoy5igj0.pdf; cidf_ksoy5igj0.pdf
Location: Microsoft Teams (link below)

Start: 9/3/2021 4:30:00 PM
End: 9/3/2021 5:15:00 PM
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Optional Attendees: Cortez Russell, Loni; Campbell, Ann; Cassady, Alison

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Start: 9/2/2021 5:00:00 PM
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Optional Attendees: Cortez Russell, Loni; Campbell, Ann; Cassady, Alison; m.oberhoffner[Ex. 6] Conrad Schneider; Kim, Eunjung; Davis, Alison; Caitlin Miller

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on behalf of Goffman, Joseph [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=23474D598E8D4EDFA9214A5991F2935B-GOFFMAN, JO]
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Required Attendees: Caitlin Miller; Carbonell, Tomas; Enobakhare, Rosemary; Weaver, Susannah; Tsirigotis, Peter; Culligan, Kevin; Utech, Dan; Gunning, Paul; Grundler, Christopher; smontoya@partnershipproject.org; moberhoffner Ex. 6 kgerbert@partnershipproject.org; Paul.Billings@lung.org; Laura.Bender@lung.org; mwalker@cleanair.org; ssmith@catf.us; dschroeder@catf.us; lydiacardona@greenlatinos.org; markmagana@greenlatinos.org; jennis@earthjustice.org; lpagel@earthworksaction.org; pzalzal@edf.org; ptomcik@momscleanairforce.org; rwinn@edf.org; ddoniger@nrdc.org; mahyar.sorour@sierraclub.org; andres.restrepo@sierraclub.org; camilla.feibelman@sierraclub.org; Cozzie, David
Optional Attendees: Cortez Russell, Loni; Campbell, Ann; Cassady, Alison; m.oberhoffne Ex. 6 Conrad Schneider; Kim, Eunjung; Davis, Alison

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Appointment

From: Rakosnik, Delaney [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=274573739A9F446883072599086EDEDD-RAKOSNIK, D]
on behalf of Goffman, Joseph [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=23474D598E8D4EDFA9214A5991F2935B-GOFFMAN, JO]
Sent: 8/20/2021 6:58:37 PM
To: Goffman, Joseph [Goffman.Joseph@epa.gov]; Caitlin Miller [cmiller@earthjustice.org]; Carbonell, Tomas [Carbonell.Tomas@epa.gov]; Enobakhare, Rosemary [Enobakhare.Rosemary@epa.gov]; Weaver, Susannah [Weaver.Susannah@epa.gov]; Tsirigotis, Peter [Tsirigotis.Peter@epa.gov]; Culligan, Kevin [culligan.kevin@epa.gov]; Utech, Dan [Utech.Dan@epa.gov]; Gunning, Paul [Gunning.Paul@epa.gov]; Grundler, Christopher [grundler.christopher@epa.gov]; smontoya@partnershipproject.org; moberhoffner Ex. 6 kgerbert@partnershipproject.org; Paul.Billings@lung.org; Laura.Bender@lung.org; mwalker@cleanair.org; ssmith@catf.us; dschroeder@catf.us; lydiacardona@greenlatinos.org; markmagana@greenlatinos.org; jennis@earthjustice.org; lpagel@earthworksaction.org; pzalzal@edf.org; ptomcik@momscleanairforce.org; rwinn@edf.org; ddoniger@nrdc.org; mahyar.sorour@sierraclub.org; andres.restrepo@sierraclub.org; camilla.feibelman@sierraclub.org; Cozzie, David [Cozzie.David@epa.gov]; Caitlin Miller [cmiller@earthjustice.org]; Weaver, Susannah [Weaver.Susannah@epa.gov]; Tsirigotis, Peter [Tsirigotis.Peter@epa.gov]; Culligan, Kevin [culligan.kevin@epa.gov]; Grundler, Christopher [grundler.christopher@epa.gov]; smontoya@partnershipproject.org; moberhoffner Ex. 6 kgerbert@partnershipproject.org; Paul.Billings@lung.org; Laura.Bender@lung.org; mwalker@cleanair.org; ssmith@catf.us; dschroeder@catf.us; lydiacardona@greenlatinos.org; markmagana@greenlatinos.org; jennis@earthjustice.org; lpagel@earthworksaction.org; pzalzal@edf.org; ptomcik@momscleanairforce.org; rwinn@edf.org; ddoniger@nrdc.org; mahyar.sorour@sierraclub.org; andres.restrepo@sierraclub.org; camilla.feibelman@sierraclub.org
CC: Cortez Russell, Loni [Russell.Loni@epa.gov]; Campbell, Ann [Campbell.Ann@epa.gov]; Cassady, Alison [Cassady.Alison@epa.gov]; m.oberhoffner Ex. 6 Conrad Schneider [cschneider@catf.us]; Kim, Eunjung [Kim.Eun@epa.gov]; Davis, Alison [Davis.Alison@epa.gov]; Campbell, Ann [Campbell.Ann@epa.gov]; m.oberhoffner Ex. 6 Conrad Schneider [cschneider@catf.us]

Subject: Meeting with the Methane Partners Campaign
Attachments: cidf_ksoy5igj0.pdf; cidf_ksoy5igj0.pdf
Location: Microsoft Teams (link below)

Start: 9/2/2021 5:00:00 PM
End: 9/2/2021 5:45:00 PM
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Required Attendees: Caitlin Miller; Carbonell, Tomas; Enobakhare, Rosemary; Weaver, Susannah; Tsirigotis, Peter; Culligan, Kevin; Utech, Dan; Gunning, Paul; Grundler, Christopher; smontoya@partnershipproject.org; moberhoffner Ex. 6 kgerbert@partnershipproject.org; Paul.Billings@lung.org; Laura.Bender@lung.org; mwalker@cleanair.org; ssmith@catf.us; dschroeder@catf.us; lydiacardona@greenlatinos.org; markmagana@greenlatinos.org; jennis@earthjustice.org; lpagel@earthworksaction.org; pzalzal@edf.org; ptomcik@momscleanairforce.org; rwinn@edf.org; ddoniger@nrdc.org; mahyar.sorour@sierraclub.org; andres.restrepo@sierraclub.org; camilla.feibelman@sierraclub.org; Cozzie, David
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Sent: 10/22/2021 6:59:49 PM
To: Goffman, Joseph [Goffman.Joseph@epa.gov]; Gunning, Paul [Gunning.Paul@epa.gov]; Carbonell, Tomas [Carbonell.Tomas@epa.gov]; Banks, Julius [Banks.Julius@epa.gov]; DeFigueiredo, Mark [DeFigueiredo.Mark@epa.gov]; Korinna Garfield [kgarfield@catf.us]
CC: Schmeltz, Rachel [Schmeltz.Rachel@epa.gov]; Ann Weeks [aweeks@catf.us]; Ben Grove [bgrove@catf.us]; Kurt Waltzer [kwaltzer@catf.us]; Collins, Al [Al_Collins@oxy.com]; Scott Anderson [SAnderson@edf.org]

Subject: Clear Air Task Force re: GHG Reporting Rules Update
Attachments: External meeting request - CATF.docx
Location: Microsoft Teams

Start: 11/4/2021 5:45:00 PM
End: 11/4/2021 6:15:00 PM
Show Time As: Busy

Required Attendees: Goffman, Joseph; Gunning, Paul; Carbonell, Tomas; Banks, Julius; DeFigueiredo, Mark; Korinna Garfield
Optional Attendees: Schmeltz, Rachel; Ann Weeks; Ben Grove; Kurt Waltzer; Collins, Al; Scott Anderson

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[SEQ CHAPTER \h \r 1]External Meeting Request Form for OAR

Today's Date: 10/22/2021

Requesting Organization: Clean Air Task Force (CATF), Environmental Defense Fund (EDF), Oxy Low Carbon Ventures (Oxy).

Title of the Meeting: GHG Reporting Rules Update – Please Recognize ISO Emissions Methods

Purpose: To discuss an aspect of the upcoming update to the greenhouse gas reporting rules, concerning the inclusion of a reporting pathway for CO2-EOR operators that opt to use the International Organization for Standards (ISO) emissions accounting and tracking method.

Background: Given the January 2021 IRS rule, EPA should update the GHGRP to include a reporting pathway for any CO2-EOR operators that use the ISO 27916:2019 standard to demonstrate secure geologic storage of CO2. This is necessary to ensure coverage in the GHGRP for those entities that may be sequestering significant amounts of carbon via EOR, as well as to ensure continued transparency of and public confidence in the 45Q program.

Earliest possible date for the meeting: As soon as possible.

Last possible date for the meeting: Sometime within the timeline for EPA's development of priorities for GHGRP rule changes, and with enough time to allow EPA to consider and incorporate our requested action.

Is the meeting urgent and if so, why: Yes, we understand EPA is already working on the GHGRP update.

Requested Time Length: 1 hour.

Invitees: Joseph Goffman, other EPA/OAR staff working on the Greenhouse Gas Reporting Rule Update.

External Participants (to include email addresses):

CATF: Ben Grove ([HYPERLINK "mailto:bgrove@catf.us"]); Alan Masinter (amasinter@catf.us); Kurt Waltzer (kwaltzer@catf.us)

EDF: Scott Anderson ([HYPERLINK "mailto:sanderson@edf.org"]); Nichole Saunders (nsaunders@edf.org); Ben Levitan (blevitan@edf.org)

Oxy Low Carbon Ventures: Al Collins (al_collins@oxy.com)

Teleconference Required: Telephone option for the video conference would be excellent.

Video Conference Required: Yes.

Point of Contact for the Meeting: Korinna Garfield ([HYPERLINK "mailto:kgarfield@catf.us"]); Ben Grove (bgrove@catf.us)

Appointment

From: Rakosnik, Delaney [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=274573739A9F446883072599086EDEDD-RAKOSNIK, D]
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From: Levy, Maxwell [Levy.Maxwell@epa.gov]
Sent: 10/29/2021 6:40:38 PM
To: Levy, Maxwell [Levy.Maxwell@epa.gov]; Carbonell, Tomas [Carbonell.Tomas@epa.gov]; Goffman, Joseph [Goffman.Joseph@epa.gov]; Enobakhare, Rosemary [Enobakhare.Rosemary@epa.gov]; lpagel@earthworksaction.org; Margie Alt [malt@cacampaign.com]
CC: Kim, Eunjung [Kim.Eun@epa.gov]; Culligan, Kevin [culligan.kevin@epa.gov]; Cozzie, David [Cozzie.David@epa.gov]; Davis, Alison [Davis.Alison@epa.gov]; Millett, John [Millett.John@epa.gov]; Paul Billings [Paul.Billings@lung.org]; Bob Bingaman [bob.bingaman@sierraclub.org]; Rachel Cleetus [RCleetus@ucsusa.org]; mjohnson@nhmamd.org

Subject: Stakeholder Briefing: Methane Partners + CAC
Location: Microsoft Teams Meeting

Start: 11/1/2021 5:30:00 PM
End: 11/1/2021 6:00:00 PM
Show Time As: Busy

Required Attendees: Carbonell, Tomas; Goffman, Joseph; Enobakhare, Rosemary; lpagel@earthworksaction.org; Margie Alt <malt@cacampaign.com>
Optional Attendees: Kim, Eunjung; Culligan, Kevin; Cozzie, David; Davis, Alison; Millett, John

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Subject: Stakeholder Briefing: Methane Partners + CAC
Location: Microsoft Teams Meeting

Start: 11/1/2021 5:30:00 PM
End: 11/1/2021 6:00:00 PM
Show Time As: Busy

Required Attendees: Levy, Maxwell; Carbonell, Tomas; Goffman, Joseph; Enobakhare, Rosemary; lpagel@earthworksaction.org; Margie Alt
Optional Attendees: Kim, Eunjung; Culligan, Kevin; Cozzie, David; Davis, Alison; Millett, John; Paul Billings; Bob Bingaman; Rachel Cleetus; mjohnson@nhmamd.org; Kim Alfred; jeisenfeld@earthworksaction.org

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on behalf of Goffman, Joseph [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=23474D598E8D4EDFA9214A5991F2935B-GOFFMAN, JO]
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Subject: Clear Air Task Force re: GHG Reporting Rules Update
Attachments: External meeting request - CATF.docx
Location: Microsoft Teams

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End: 11/4/2021 6:15:00 PM
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From: Weisbord, Carson [Carson.Weisbord@icf.com]
Sent: 6/10/2021 4:14:00 AM
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Subject: Meeting (ScheduledMeeting)/Thread Id:

Ex. 6

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End: 6/9/2021 10:44:29 PM
Show Time As: Busy

Recurrence: (none)

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Appointment

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Recurrence: (none)

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[6/15/2021 7:02:22 PM (UTC)] +1313418[redacted] (2) left.
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Appointment

From: Lesley Stobert [lstobert@scainc.com]
Sent: 10/19/2021 1:26:44 AM
To: Shoaff, John [Shoaff.John@epa.gov]; Reddick, Lorraine [Reddick.Lorraine@epa.gov]; +1419410[redacted] teamsvisitor:d386bbbd7cd84f8580e4be14c75f304e; Clay Pope [pope@texstrat.us]; Kim, Eunjung [Kim.Eun@epa.gov]; +1832454[redacted] Hooper, Daniel [hooper.daniel@epa.gov]; +1703966[redacted] scican.org [info@scican.org]; Application 9e133cac-5238-4d1e-aaa0-d8ff4ca23f4e; teamsvisitor:2921aea333a14c82a03e3a8de193251f; Wood, Anna [Wood.Anna@epa.gov]; teamsvisitor:88a7fc44095c43428352579fe7d8b2e0; teamsvisitor:10b10692fe304ef9aaa85a8537635bb2; Shaw, Betsy [Shaw.Betsy@epa.gov]; teamsvisitor:3554ee6c39634885a53d6c983beccfd1; Figueroa, Veronica L - Bartow [Veronica.Figueroa@mosaicco.com]; +1907367[redacted](1); White, Johne [White.Johne@epa.gov]; Dickerson, Phil [Dickerson.Phil@epa.gov]; +1989339[redacted] teamsvisitor:db7b23165a7843f28941c50d9a5e7b77; Kelsey Tamborrino [ktamborrino@politico.com]; teamsvisitor:104a89e2d82a49f3865f93092b2c4b62; Koerber, Mike [Koerber.Mike@epa.gov]; teamsvisitor:08d5d2b717f64441a7bafc5428f61cd6; robert.hodanbosi@epa.ohio.gov; Kocchi, Suzanne [Kocchi.Suzanne@epa.gov]; Daniel, Shawn L:(BSC) [Shawn.Daniel@exeloncorp.com]; Campbell, Ann [Campbell.Ann@epa.gov]; teamsvisitor:58930125cf284680b27038621a9c6568; Nunez, Alejandra [Nunez.Alejandra@epa.gov]; Goffman, Joseph [Goffman.Joseph@epa.gov]; Weinstock, Larry [Weinstock.Larry@epa.gov]; teamsvisitor:6681a7e272c74ee6bea9065b79ef678e; Deb Brown [Deb.Brown@lung.org]; Robinson, Maria - Rep. (HOU) [Maria.Robinson@mahouse.gov]; Steinbauer, Gary [GSteinbauer@babstcalland.com]; jason.howanitz@jcdh.org; +1202834[redacted] Saltman, Tamara [Saltman.Tamara@epa.gov]; teamsvisitor:ceb94d63ca7047129ac4becc555e47c5; natalene.cummings@fcpotawatomi-nsn.gov; teamsvisitor:b2a071e57b5242d498c37c11a682d7e2; teamsvisitor:3d65ea68c7b74b70838aea6d70efa7cd; teamsvisitor:732fe1614faa459b885c6dec61af36d6; Cronmiller, Rae E. [rae.cronmiller@nreca.coop]; +1518358[redacted] mkeogh@4cleanair.org; teamsvisitor:4125fb3c4c204b5ebbe04b4461edee97; LESLIE RITTS [LSRITTS@RITTSLAW.onmicrosoft.com]; dgreenbaum@healtheffects.org; jkinsman@eei.org; Morgan, Ruthw [morgan.ruthw@epa.gov]; Application 9cd07db6-fab5-438c-8e34-44117fac7650; +1907367[redacted](2); teamsvisitor:0e183898be7a4f81969b1c668fd4a2fd; Hoekzema, Andrew [ahoekzema@capcog.org]; Bahnfleth, William P [wbahnfleth@psu.edu]; Application ab5d1521-415b-4380-82e4-af803fb8bf2d; Spratlin, William [william.spratlin@aptim.com]; Application d29ade6f-9257-45cb-883c-01ad3a6f6d20; Broome, Shannon S. [SBroome@hunton.com]; teamsvisitor:f6b97ad214f5445280c0cabaf2fece05; Kelley Green; teamsvisitor:2a02ff50d4894b78b4649a4c8990a22c; Margaret Overton [moverton@scainc.com]; Application 207a6836-d031-4764-a9d8-c1193f455f21; teamsvisitor:2226bf695dea4772895febdf1888ee35; Edwards, Jonathan [Edwards.Jonathan@epa.gov]; Henning, Julie [henning.julie@epa.gov]; Ted Steichen [SteichenT@api.org]; Chartier, Daniel [Daniel.Chartier@nreca.coop]; teamsvisitor:c212855ddb3647789e8a83eaf9ab447d; Tim_hunt@afandpa.org; Massey, Eric [Eric.Massey@aps.com]; rmeyers@crowell.com; Sara Hayes [SHayes@aceee.org]; teamsvisitor:326d041daf9848798e2f83f1305f2b93; Korinna Garfield [kgarfield@catf.us]; gjones@printing.org; Lesley Stobert [lstobert@scainc.com]; Duncan McCook; Jefferson, Catrice [Jefferson.Catrice@epa.gov]; Sullivan, Vicky [Vicky.Sullivan@duke-energy.com]; Application d123a3e6-7f0a-4bbd-91f2-6d0ad1707297; teamsvisitor:ac2359d0c4f34f009d13a5ca6e372549; Kris Ray; teamsvisitor:336a607efddb4bc4aca345eecb3ec1a7; Lubetsky, Jonathan [Lubetsky.Jonathan@epa.gov]

Subject: Meeting (ScheduledMeeting)/Thread Id: 1[redacted] John,Reddick, Lorraine,+141941[redacted]teamsvisitor:d386bbbd7cd84f8580e4be14c75f304e...

Start: 10/18/2021 4:53:00 PM
End: 10/18/2021 8:17:21 PM
Show Time As: Busy

Recurrence: (none)

Required Attendees: Shoaff, John; Reddick, Lorraine; +141941[redacted] teamsvisitor:d386bbbd7cd84f8580e4be14c75f304e; Clay Pope; Kim, Eunjung; +1832454[redacted] Hooper, Daniel; +17039663862; scican.org; Application 9e133cac-5238-4d1e-aaa0-d8ff4ca23f4e; teamsvisitor:2921aea333a14c82a03e3a8de193251f; Wood, Anna;

teamsvisitor:88a7fc44095c43428352579fe7d8b2e0; teamsvisitor:10b10692fe304ef9aaa85a8537635bb2; Shaw, Betsy; teamsvisitor:3554ee6c39634885a53d6c983beccfd1; Figueroa, Veronica L - Bartow; +1907367 Ex. 6 (1); White, Johne; Dickerson, Phil; +1989339 Ex. 6 ; teamsvisitor:db7b23165a7843f28941c50d9a5e7b77; Kelsey Tamborrino; teamsvisitor:104a89e2d82a49f3865f93092b2c4b62; Koerber, Mike; teamsvisitor:08d5d2b717f64441a7bafc5428f61cd6; robert.hodanbosi@epa.ohio.gov; Kocchi, Suzanne; Daniel, Shawn L:(BSC); Campbell, Ann; teamsvisitor:58930125cf284680b27038621a9c6568; Nunez, Alejandra; Goffman, Joseph; Weinstock, Larry; teamsvisitor:6681a7e272c74ee6bea9065b79ef678e; Deb Brown; Robinson, Maria - Rep. (HOU); Steinbauer, Gary; jason.howanitz@jcdh.org; +1202834 Ex. 6 Saltman, Tamara; teamsvisitor:ceb94d63ca7047129ac4becc555e47c5; natalene.cummings@fcpotawatomi-nsn.gov; teamsvisitor:b2a071e57b5242d498c37c11a682d7e2; teamsvisitor:3d65ea68c7b74b70838aea6d70efa7cd; teamsvisitor:732fe1614faa459b885c6dec61af36d6; Cronmiller, Rae E.; +1518358 Ex. 6 ; mkeogh@4cleanair.org; teamsvisitor:4125fb3c4c204b5ebbe04b4461edee97; LESLIE RITTS; dgreenbaum@healtheffects.org; jkinsman@eei.org; Morgan, Ruthw; Application 9cd07db6-fab5-438c-8e34-44117fac7650; +1907367 Ex. 6 (2); teamsvisitor:0e183898be7a4f81969b1c668fd4a2fd; Hoekzema, Andrew; Bahnfleth, William P; Application ab5d1521-415b-4380-82e4-af803fb8bf2d; Spratlin, William; Application d29ade6f-9257-45cb-883c-01ad3a6f6d20; Broome, Shannon S.; teamsvisitor:f6b97ad214f5445280c0cabaf2fece05; Kelley Green; teamsvisitor:2a02ff50d4894b78b4649a4c8990a22c; Margaret Overton; Application 207a6836-d031-4764-a9d8-c1193f455f21; teamsvisitor:2226bf695dea4772895febdf1888ee35; Edwards, Jonathan; Henning, Julie; Ted Steichen; Chartier, Daniel; teamsvisitor:c212855ddb3647789e8a83eaf9ab447d; Tim_hunt@afandpa.org; Massey, Eric; rmeyers@crowell.com; Sara Hayes; teamsvisitor:326d041daf9848798e2f83f1305f2b93; Korinna Garfield; gjones@printing.org; Lesley Stobert; Duncan McCook; Jefferson, Catrice; Sullivan, Vicky; Application d123a3e6-7f0a-4bbd-91f2-6d0ad1707297; teamsvisitor:ac2359d0c4f34f009d13a5ca6e372549; Kris Ray; teamsvisitor:336a607efddb4bc4aca345eecb3ec1a7; Lubetsky, Jonathan

Start Time (UTC): 10/18/2021 4:53:00 PM
End Time (UTC): 10/18/2021 8:17:21 PM
Duration: 03:24:20.5099165

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[10/18/2021 8:12:12 PM (UTC)] Reddick.Lorraine@epa.gov left.
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Appointment

From: Kelly Poole [kpoole@ecos.org]
Sent: 9/16/2021 9:59:57 PM
To: Kelly Poole [kpoole@ecos.org]; rebecca.doig@state.ma.us; rletterm@idem.in.gov; dglatt@nd.gov; juliet.bryan-powell@ct.gov; steven.hagood@tceq.texas.gov; Bryce Bird [bbird@utah.gov]; Vehr, Nancy [nancy.vehr1@wyo.gov]; linda.miller@dep.state.nj.us; Karen Shaler [SHALERK@michigan.gov]; grant.cope@dtsc.ca.gov; chuck.mueller@dnr.state.ga.us; pmcdonnell@pa.gov; scott.thompson@deq.ok.gov; kendal.stegmann@deq.ok.gov; dwelsh@ecos.org; Lance R. LeFleur [llefleur@adem.alabama.gov]; Richard Dunn [richard.dunn@dnr.ga.gov]; joseph.fontaine@des.nh.gov; Babbidge, Tracy [tracy.babbidge@ct.gov]; Dowd, Michael (DEQ) [michael.dowd@deq.virginia.gov]; lwb@adem.alabama.gov; jared.snyder@dec.ny.gov; ecos@ecos.org; thelenm2@michigan.gov; Cabrera.misael@azdeq.gov; Gail Good [gail.good@wisconsin.gov]; robert.girard@ct.gov; husain.waheed@maryland.gov; paul.baldauf@dep.nj.gov; James.Boylan@dnr.ga.gov; Beth Graves [bgraves@ecos.org]; louise.hughes@ncdenr.gov; Alice.Edwards@alaska.gov; julie.armitage@illinois.gov; keogh@adeq.state.ar.us; Mary Douglas [mdouglas@4cleanair.org]; Ben Grumbles [ben.grumbles@maryland.gov]; Nicole.lugli@ct.gov; Michelle B. Walker [Michelle.B.Walker@tn.gov]; craig.wright@des.nh.gov; reecemc@dhec.sc.gov; zack.barthel@maryland.gov; steven.flint@dec.ny.gov; jon.niermann@tceq.texas.gov; alicia.boss@nebraska.gov; george.aburn [george.aburn@maryland.gov]; Grandchamp, Laurie (DEM) [laurie.grandchamp@dem.ri.gov]; jess.byrne@deq.idaho.gov; mkeogh@4cleanair.org; Todd Parfitt [todd.parfitt@wyo.gov]; Elliott Bickerstaff [ebickerstaff@mdeq.ms.gov]; Katie Dykes [Katie.Dykes@ct.gov]; Leo Henning [leo.henning@ks.gov]; james.kenney@state.nm.us; nkruger@4cleanair.org; thornberg.carol@deq.state.or.us; jeffrey.underhill@des.nh.gov [Jeffrey.Underhill@des.nh.gov]; kelley.clemons@tn.gov; missy.newman@dnr.mo.gov; gregory.patterson@delaware.gov; Christine Kirby [Christine.Kirby@state.ma.us]; david.paylor@deq.virginia.gov; betsey.wingfield@ct.gov; Jeffrey Fretwell [jeffrey.fretwell@maryland.gov]; tommy.wells@dc.gov; Michael Pjetraj [michael.pjetraj@ncdenr.gov]; Glenn Keith [glenn.keith@state.ma.us]; justin.buckler@dnr.mo.gov; caldera.stephanie@deq.state.or.us; ali.mirzakhalili@state.or.us; christopher.j.skoglund@des.nh.gov; ann.lowery@state.ma.us; brandy.valdezmurphy@state.co.us; sharlett.mena@ecy.wa.gov; Hurst, A Dale [ADH@adem.alabama.gov]; Fitzsimmons, Catharine [DNR] [catharine.fitzsimmons@dnr.iowa.gov]; Heidi.Hales@vermont.gov; glovato@ndep.nv.gov; olaguerj@michigan.gov; lisa.nissley@maryland.gov; michael.m.fitzgerald@des.nh.gov; tiffany.floyd@deq.idaho.gov; jennifer.alexander@dnr.mo.gov; jim.rizk@tceq.texas.gov; luke.wisniewski@maryland.gov; kyra.moore@dnr.mo.gov; richard.whitman@deq.state.or.us; serena.mcilwain@calepa.ca.gov; jsloan@csg.org; martin.suuberg@mass.gov; melanie.loyzim@maine.gov; marilyn.turnbow@ecy.wa.gov; Read, Hastings [Hastings.Read@FloridaDEP.gov]; holly.lamers@wisconsin.gov; Karen Mongoven [kmongoven@4cleanair.org]; ed.galbraith@dnr.mo.gov; Richard.Waters [Richard.Waters@dnr.mo.gov]; laura.factor@epa.ohio.gov; michael.abraczinskas@ncdenr.gov; Sponseller, Bart A - DNR [bart.sponseller@wisconsin.gov]; stuart.clark@ecy.wa.gov; sushma.masemore@ncdenr.gov; ed.tormey@dnr.iowa.gov; darcy.bybee@dnr.mo.gov; mark.wert@state.ma.us; robert.hodanbosi@epa.ohio.gov; rebecca.roose@state.nm.us; doug.elliott@vermont.gov; Paulina Lopez-Santos [plopezsantos@ecos.org]; david.bizot@wisconsin.gov; karen.hays@dnr.state.ga.us; Elaine Boyd [elaine.boyd@tn.gov]; Scott.G.Mandirola@wv.gov; kathy.bishop@maryland.gov; eileen.murphy@dec.ny.gov; Sinclair, Jaimeson [Jaimeson.Sinclair@ct.gov]; carmen.colon@ct.gov; Marc Cone [mcone@marama.org]; Jerah.Sheets@dnr.iowa.gov; Jim Macy [jim.macy@nebraska.gov]; dolehantym@michigan.gov; bryan.johnston@la.gov; Hays, Karen [karen.hays@dnr.ga.gov]; MIRZAKHALILI Ali * DEQ [ali.mirzakhalili@deq.state.or.us]; Mena, Sharlett (ECY) [mesh461@ecy.wa.gov]; scla461@ecy.wa.gov; Kirby, Christine (DEP) [christine.kirby@mass.gov]; Turnbow, Marilyn (ECY) [matu461@ecy.wa.gov]; Simon, Karl [Simon.Karl@epa.gov]; Shaw, Betsy [Shaw.Betsy@epa.gov]; Edwards, Jonathan [Edwards.Jonathan@epa.gov]; Carbonell, Tomas [Carbonell.Tomas@epa.gov]; Shoaff, John [Shoaff.John@epa.gov]; Goffman, Joseph [Goffman.Joseph@epa.gov]; Tsirigotis, Peter [Tsirigotis.Peter@epa.gov]; Gill, Sonam [Gill.Sonam@epa.gov]; campbell.ann@epa; Kim, Eunjung [Kim.Eun@epa.gov]; Nunez, Alejandra [Nunez.Alejandra@epa.gov]; Dunham, Sarah [Dunham.Sarah@epa.gov]; Bowles, Jack [Bowles.Jack@epa.gov]; Katims, Casey [Katims.Casey@epa.gov]; Grundler, Christopher [grundler.christopher@epa.gov]

Subject: ECOS Air Committee + EPA OAR Quarterly Call
Attachments: invite.ics
Location: Ex. 6

Start: 9/20/2021 4:00:00 PM
End: 9/20/2021 5:00:00 PM

Show Time As: Busy

Recurrence: (none)

You have been invited to the following event.

ECOS Air Committee + EPA OAR Quarterly Call

When Mon Sep 20, 2021 12pm – 1pm Eastern Time - New York

Where Ex. 6

Calendar goffman.joseph@epa.gov

Who
- Kelly Poole - organizer
- rebecca.doig@state.ma.us
- rletterm@idem.in.gov
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- steven.hagood@tceq.texas.gov
- bbird@utah.gov
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- katims.casey@epa.gov
- grundler.christopher@epa.gov

more details »
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Meeting ID: Ex. 6
Passcode: Ex. 6
Find your local number: Ex. 6

Going (goffman.joseph@epa.gov)? **Yes** - **Maybe** - **No** more options »

Invitation from Google Calendar

You are receiving this courtesy email at the account goffman.joseph@epa.gov because you are an attendee of this event.

To stop receiving future updates for this event, decline this event. Alternatively you can sign up for a Google account at https://calendar.google.com/calendar/ and control your notification settings for your entire calendar.

Forwarding this invitation could allow any recipient to send a response to the organizer and be added to the guest list, or invite others regardless of their own invitation status, or to modify your RSVP. Learn More.

Organizer: Kelly Poole : kpoole@ecos.org

Subject: ECOS Air Committee + EPA OAR Quarterly Call

Location:

Ex. 6

Ex. 6

Start Time: 2021-09-20T16:00:00Z

End Time: 2021-09-20T17:00:00Z

Attendees: rebecca.doig@state.ma.us : rebecca.doig@state.ma.us, rletterm@idem.in.gov : rletterm@idem.in.gov, dglatt@nd.gov : dglatt@nd.gov, juliet.bryan-powell@ct.gov, juliet.bryan-powell@ct.gov, steven.hagood@tceq.texas.gov : steven.hagood@tceq.texas.gov, bbird@utah.gov : bbird@utah.gov, Nancy Vehr, nancy.vehr1@wyo.gov, linda.miller@dep.state.nj.us : linda.miller@dep.state.nj.us, shalerk@michigan.gov : shalerk@michigan.gov, grant.cope@dtsc.ca.gov, grant.cope@dtsc.ca.gov, chuck.mueller@dnr.state.ga.us, chuck.mueller@dnr.state.ga.us, pmcdonnell@pa.gov, pmcdonnell@pa.gov, scott.thompson@deq.ok.gov : scott.thompson@deq.ok.gov, kendal.stegmann@deq.ok.gov : kendal.stegmann@deq.ok.gov, dwelsh@ecos.org : dwelsh@ecos.org, llefleur@adem.alabama.gov, llefleur@adem.alabama.gov, richard.dunn@dnr.ga.gov, richard.dunn@dnr.ga.gov, joseph.fontaine@des.nh.gov, joseph.fontaine@des.nh.gov, tracy.babbidge@ct.gov, tracy.babbidge@ct.gov, michael.dowd@deq.virginia.gov, michael.dowd@deq.virginia.gov, lwb@adem.alabama.gov, lwb@adem.alabama.gov, jared.snyder@dec.ny.gov : jared.snyder@dec.ny.gov, ecos@ecos.org : ecos@ecos.org, thelenm2@michigan.gov, thelenm2@michigan.gov, cabrera.misael@azdeq.gov, cabrera.misael@azdeq.gov, gail.good@wisconsin.gov, gail.good@wisconsin.gov, robert.girard@ct.gov : robert.girard@ct.gov, husain.waheed@maryland.gov : husain.waheed@maryland.gov, paul.baldauf@dep.nj.gov : paul.baldauf@dep.nj.gov, james.boylan@dnr.ga.gov : james.boylan@dnr.ga.gov, bgraves@ecos.org : bgraves@ecos.org, louise.hughes@ncdenr.gov, louise.hughes@ncdenr.gov, alice.edwards@alaska.gov, alice.edwards@alaska.gov, julie.armitage@illinois.gov, julie.armitage@illinois.gov, keogh@adeq.state.ar.us, keogh@adeq.state.ar.us, mdouglas@4cleanair.org : mdouglas@4cleanair.org, ben.grumbles@maryland.gov : ben.grumbles@maryland.gov, nicole.lugli@ct.gov : nicole.lugli@ct.gov, michelle.b.walker@tn.gov, michelle.b.walker@tn.gov, craig.wright@des.nh.gov, craig.wright@des.nh.gov, reecemc@dhec.sc.gov : reecemc@dhec.sc.gov, zack.barthel@maryland.gov : zack.barthel@maryland.gov, steven.flint@dec.ny.gov : steven.flint@dec.ny.gov, jon.niermann@tceq.texas.gov : jon.niermann@tceq.texas.gov, alicia.boss@nebraska.gov : alicia.boss@nebraska.gov, george.aburn@maryland.gov : george.aburn@maryland.gov, laurie.grandchamp@dem.ri.gov : laurie.grandchamp@dem.ri.gov, jess.byrne@deq.idaho.gov : jess.byrne@deq.idaho.gov, mkeogh@4cleanair.org : mkeogh@4cleanair.org, Todd Parfitt, todd.parfitt@wyo.gov, ebickerstaff@mdeq.ms.gov : ebickerstaff@mdeq.ms.gov, Kelly Poole : kpoole@ecos.org, katie.dykes@ct.gov, katie.dykes@ct.gov, leo.henning@ks.gov : leo.henning@ks.gov, james.kenney@state.nm.us : james.kenney@state.nm.us, nkruger@4cleanair.org, nkruger@4cleanair.org,

thornberg.carol@deq.state.or.us

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<b>Dial by your location Ex. 6 US (San Jose)
    Ex. 6 US (Tacoma) Ex. 6 US (Houston) Ex. 6 US (Washington DC)
    Ex. 6 US (Chicago Ex. 6 US (New York)
Meeting ID: Ex. 6 Passcode: Ex. 6 Find your local number: Ex. 6

-::~:~::~::~:~::-
Do not edit this section of the description.

View your event at

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-::~:~::~::~:~::-

Appointment

From: Chavez, Laura [Laura.Chavez@tetratech.com]
Sent: 5/28/2021 9:02:27 PM
To: Chavez, Laura [Laura.Chavez@tetratech.com]; Lau, Patrick [Lau.Patrick@epa.gov]; Kealey,Chelsea (ECCC) [chelsea.kealey@ec.gc.ca]; Shimamura, Monica [Shimamura.Monica@epa.gov]; dnewman@worldbiogasassociation.org; vicki_hollub@oxy.com; drew.shindell@duke.edu; olga.algayerova@un.org; fkrupp@edf.org; Goffman, Joseph [Goffman.Joseph@epa.gov]; helen.ryan [helen.ryan@ec.gc.ca]; Cathy McGirl [Cathy.McGirl@tetratech.com]; Tremaine, Sam [Sam.Tremaine@tetratech.com]; Studer, Melissa [melissa.studer@tetratech.com]

Subject: A Call to Action on Methane: an international dialogue hosted by the GMI
Location: Microsoft Teams Meeting

Start: 6/3/2021 12:00:00 PM
End: 6/3/2021 2:30:00 PM
Show Time As: Busy

Recurrence: (none)

Don't forward this invitation. Go to Microsoft Teams to invite additional people.

Microsoft Teams

Join live event

Join as producer or presenter when it's time for the live event.
Do not forward this invite to the attendees.

Ex. 6 United States, Los Angeles (Toll)

Conference ID: Ex. 6

Local numbers | Reset PIN

Producer help | Presenter help | Learn more

Manage live event resources

Appointment

From: Tracy Fedkoe [TFedkoe@awma.org]
Sent: 6/3/2021 7:30:14 PM
To: Tracy Fedkoe [TFedkoe@awma.org]; dave.jordan@erm.com; DeLuca, Isabel [DeLuca.Isabel@epa.gov]; Vickie Patton [vpatton@edf.org]; Howard Feldman [Feldman@api.org]; mkeogh@4cleanair.org; Goffman, Joseph [Goffman.Joseph@epa.gov]

Subject: EPA Priorities Practice Session
Location: via Zoom webinar

Start: 6/8/2021 8:00:00 PM
End: 6/8/2021 8:45:00 PM
Show Time As: Tentative

Recurrence: (none)

Dear EPA Priorities Presenters,

Thanks for your patience with getting the practice session scheduled. We will cover the flow of the session, topics and timing of each presenter, and you can all practice sharing slides if needed.

You have all been set up as panelists in Zoom webinar, so you should have gotten an invitation from my Zoom account, but these sometimes don't make it, so I have copied your individual panelist links below.

I still need photos and short bios from Joseph, Howard and Miles. I can grab what is posted on your LinkedIn or website, just let me know.

Dave Please click this URL to join. Ex. 6

Ex. 6

Howard Please click this URL to join.

Ex. 6

Joseph Please click this URL to join.

Ex. 6

Isabel Please click this URL to join.

Ex. 6

Vickie Please click this URL to join.

Ex. 6

Miles Please click this URL to join.

Ex. 6

Talk to you next week!

Tracy Fedkoe
Director, Marketing and Project Management
Air & Waste Management Association
412-480-3377 cell

Appointment

From: Tracy Fedkoe [TFedkoe@awma.org]
Sent: 6/10/2021 11:56:44 AM
To: Tracy Fedkoe [TFedkoe@awma.org]; dave.jordan@erm.com; Goffman, Joseph [Goffman.Joseph@epa.gov]; mkeogh@4cleanair.org; Vickie Patton [vpatton@edf.org]; Howard Feldman [Feldman@api.org]
CC: DeLuca, Isabel [DeLuca.Isabel@epa.gov]

Subject: EPA Priorities Livestream Session
Attachments: EPA Priorities outline .xlsx
Location: Via Zoom webinar

Start: 6/14/2021 7:00:00 PM
End: 6/14/2021 9:30:00 PM
Show Time As: Busy

Recurrence: (none)

Hello EPA Priorities Presenters,

This is the official appointment for the livestream panel on **Monday, June 14 from 3:20 pm – 5:20 pm ET.** Please accept this appointment and join the session at least 15 minutes early for a last minute A/V check with slides.

I have attached a rough outline of how the session will run, but we can be flexible with the timing based on the length of Joe's presentation. Miles, Howard, and Vickie please plan for 15-18 minutes each and send any discussion question ideas to Dave in advance of the session.

Here are your individual panelist links to join the session. These are also sent from my Zoom account, which will also allow you to join 15-20 minutes early.

Dave Please click this URL to join. Ex. 6

Ex. 6

Joseph Please click this URL to join.

Ex. 6

Miles Please click this URL to join.

Ex. 6

Howard Please click this URL to join.

Ex. 6

Vickie Please click this URL to join. Ex. 6

Ex. 6

Here are the phone call details if something happens and you can't get to the meeting online, but using computer audio would be preferred.

Telephone:

Dial(for higher quality, dial a number based on your current location):

US: Ex. 6

Ex. 6

Webinar ID: Ex. 6

Passcode: Ex. 6

Let me know if you have any questions before the live session. I look forward to seeing you on Monday!

Tracy Fedkoe
Director, Marketing and Project Management
Air & Waste Management Association
412-480-3377 Cell

EPA Priorities Panel Outline

Monday, June 14, 3:20 pm - 5:20 pm ET

Time	Presentation
3:20	Session opening and welcome
3:23	Presentation (no slides)
3:53	Q & A for Joe Goffman
4:03	Introduction of Miles Keogh
4:04	Presentation with slides
4:22	Introduction of Howard Feldman
4:23	Presentation with slides
4:41	Introduction of Vickie Patton
4:42	Presentation (no slides)
5:00	Group discussion and Q & A
5:20	Session adjourn

Speaker	Notes
	Please include in the introduction: "This session will include four presenters, starting with Joe Goffman, US EPA Acting Assistant Administrator for Air and Radiation, followed by a short Q & A for Joe. We will then have three additional panelists and a group discussion/Q & A session for all three at the end of the session. Please use the Q & A box to enter your questions first for Joe, then the three panelists. If you see a similar question, please upvote it and do not repeat it."
Dave Jordan	
Joseph Goffman	
Dave Jordan/Joe Goffman	
Dave Jordan	
Miles Keogh	
Dave Jordan	
Howard Feldman	
Dave Jordan	
Vickie Patton	
Dave Jordan will moderate, and Miles, Howard and Vickie will participate in the discussion and answer audience questions.	

Appointment

From: Gill, Sonam [Gill.Sonam@epa.gov]
Sent: 6/14/2021 8:29:18 PM
To: Gill, Sonam [Gill.Sonam@epa.gov]; Katims, Casey [Katims.Casey@epa.gov]; Bowles, Jack [Bowles.Jack@epa.gov]; Goffman, Joseph [Goffman.Joseph@epa.gov]; Davis, Alison [Davis.Alison@epa.gov]; DeLuca, Isabel [DeLuca.Isabel@epa.gov]; Carbonell, Tomas [Carbonell.Tomas@epa.gov]; Donald Welsh [dwelsh@ecos.org]; chanson@ecos.org; lparisien@ecos.org; Kenney James NMENV [James.Kenney@state.nm.us]; dglatt@nd.gov; michael.abraczinskas@ncdenr.gov; Jay Barkley [jbarkley@mdeq.ms.gov]; dbeasley@mdeq.ms.gov; Kuehn, Elizabeth, NMENV [elizabeth.kuehn@state.nm.us]; Jeffrey Bland [jbland@mdeq.ms.gov]; alicia.boss@nebraska.gov; allan.brockenbrough@deq.virginia.gov; Brune, Jason W (DEC) [jason.brune@alaska.gov]; Denise Brunette [Denise.Brunett@mt.gov]; justin.buckler@dnr.mo.gov; Dennis Burling [dennis.burling@nebraska.gov]; chuck.brown@la.gov; bchalfant@pa.gov; Erin Chancellor [erin.chancellor@tceq.texas.gov]; Shellie Chard [shellie.chard@deq.ok.gov]; clarkl20@michigan.gov; grant.cope@dtsc.ca.gov; catherine.dickert@dec.ny.gov; ldorman@pa.gov; Dowd, Michael (DEQ) [michael.dowd@deq.virginia.gov]; donna.fisher@ks.gov; Laurie Fleet [laurie.fleet@tceq.texas.gov]; Melissa Fortenberry [mfortenberry@mdeq.ms.gov]; kevin.frederick@wyo.gov; kira.gillette@state.co.us; steve.goans [steve.goans@nebraska.gov]; nathan.graber@dec.ny.gov; Ben Grumbles [ben.grumbles@maryland.gov]; sean.hackett@state.co.us; lacey.hardin@tn.gov; thardy@mdeq.ms.gov; tony.hatton@ky.gov; Leo Henning [leo.henning@ks.gov]; robert.hodanbosi@epa.ohio.gov; jennifer.hower@state.nm.us; justin.hsu@maryland.gov; michelle.hunter_state.nm.us [michelle.hunter@state.nm.us]; james.f.jarrett@wv.gov; morgan.johnson@tceq.texas.gov; keogh@adeq.state.ar.us; shane.khoury@arkansas.gov; john.j.kim@illinois.gov; kinneyd@michigan.gov; Lloyd.kirk@deq.ok.gov; kklapkowski@pa.gov; luis.leyva@arb.ca.gov; ann.lowery@state.ma.us; cmaccartney@ecos.org; Jim Macy [jim.macy@nebraska.gov]; Scott.G.Mandirola@wv.gov; james.a.martin@wv.gov; pmcdonnell@pa.gov; serena.mcilwain@calepa.ca.gov; colin.mckee1@wyo.gov; tami.mcmullin@state.co.us; elena.melchert@hq.doe.gov; marian.mergist@la.gov; cmessemore@mdeq.ms.gov; madison.miller@deq.ok.gov; kyra.moore@dnr.mo.gov; jeremy.neustifter@state.co.us; missy.newman@dnr.mo.gov; jennifer.opila [jennifer.opila@state.co.us]; ona.papageorgiou@dec.ny.gov; todd.parfitt@wyo.gov; gregory.patterson@delaware.gov; david.paylor@deq.virginia.gov; margaret.pegues@wyo.gov; tbetz@pa.gov; scperry@pa.gov; preyes@ecos.org; jim.rizk@tceq.texas.gov; Krystal Rudolph [krudolph@mdeq.ms.gov]; David Salyers [david.salyers@tn.gov]; Schmeider, Alayna [aschmeider@pa.gov]; Melanie Scruggs [melanie.scruggs@tceq.texas.gov]; jesshirley@pa.gov; Joshua.Shodeinde@maryland.gov; Samuel Short [samuel.short@tceq.texas.gov]; sharon.smith@deq.ok.gov; jstefanko@pa.gov; laurie.stevenson@epa.ohio.gov; timakirataylor@live.com [timothya.taylor@state.co.us]; scott.thompson@deq.ok.gov; shtrostle@pa.gov; brandy.valdezmurphy@state.co.us; kara.valentine [kara.valentine@nebraska.gov]; Vehr, Nancy [nancy.vehr1@wyo.gov]; Michelle B. Walker [michelle.b.walker@tn.gov]; walkonsc@michigan.gov; Benjamin Way [ben.way@wyo.gov]; vickie.woods@ncdenr.gov; wyganta@michigan.gov; toby.baker@tceq.texas.gov; jared.blumenfeld@calepa.ca.gov; Elaine Boyd [elaine.boyd@tn.gov]; jess.byrne@deq.idaho.gov; Janet Coit [janet.coit@dem.ri.gov]; preston.cole@wisconsin.gov; bcrowell@dcnr.nv.gov; cdorrington2@mt.gov; John Duclos [john.duclos@des.nh.gov]; Richard Dunn [richard.dunn@dnr.ga.gov]; Katie Dykes [Katie.Dykes@ct.gov]; john.eunice@dnr.ga.gov; ed.galbraith@dnr.mo.gov; shawn.garvin@delaware.gov; terry.gray@dem.ri.gov; shawn.hamilton@floridadep.gov; keith.kawaoka@doh.hawaii.gov; keatleya@michigan.gov; keyack.michael@azdeq.gov; shawn.latourette@dep.nj.gov; walter.leonguerrero@epa.guam.gov; glovato@ndep.nv.gov; melanie.loyzim@maine.gov; shaun.mcgrath@state.co.us; eileen.murphy@dec.ny.gov; jp.oriol@dpnr.vi.gov; bpigott@idem.in.gov; emma.pokon@alaska.gov; brian.pontious@state.sd.us; reecemc@dhec.sc.gov; todd.rettig@illinois.gov; hunter.roberts@state.sd.us; jill.hunsakerryan@state.co.us; robert.scott@des.nh.gov; basil.seggos@dec.ny.gov; Kim Shelley [kshelley@utah.gov]; martin.suuberg@mass.gov; peter.tester@state.mn.us; ed.tormey@dnr.iowa.gov; kenneth.wagner@ee.ok.gov; Peter Walke [Peter.Walke@vermont.gov]; harold.d.ward@wv.gov; laura.watson@ecy.wa.gov; tommy.wells@dc.gov; katiejo.wheeler@dnr.mo.gov; whitman.richard@deq.state.or.us; Greg Young [Greg.young@tn.gov]; NMENV Garoutte Justin [Justin.Garoutte2@state.nm.us]; laura.bishop@state.mn.us; cbrown@mdeq.ms.gov; Jeffrey Fretwell [jeffrey.fretwell@maryland.gov]; tiffani.kavalec@epa.ohio.gov; scott.kudlas@deq.virginia.gov; ttomkins@mdeq.ms.gov; katrina.angarone@dep.nj.gov; Cabrera.misael@azdeq.gov; darsi.foss@wisconsin.gov; maggie.gendron@vermont.gov; Lance R. LeFleur [llefleur@adem.alabama.gov]; julie.moore@vermont.gov; trisha.oeth@state.co.us; Chris Wells [cwells@mdeq.ms.gov]
CC: Culligan, Kevin [Culligan.Kevin@epa.gov]; Cozzie, David [Cozzie.David@epa.gov]; tamera.thompson@deq.virginia.gov; Luke Esch [luke.esch1@wyo.gov]; Rodeheaver, J. Scott [J.Scott.Rodeheaver@wv.gov]; Crowder, Laura M [laura.m.crowder@wv.gov]; joshua.korth@state.co.us;

hodan.marta@azdeq.gov; Frank Thorwald [FrankThorwald@thorwaldgroup.com]; czecholinski.daniel@azdeq.gov; Dickman, David (DOEE) [david.dickman@dc.gov]; rholmes@mt.gov; jsloan@csg.org; Brody Burks [Brody.Burks@tceq.texas.gov]; Rentz, Nicole (DOEE) [nicole.rentz@dc.gov]; Garrison Kaufman - CDPHE [garrison.kaufman@state.co.us]; Michael.Hopkins@epa.ohio.gov; Megan Joyce [megan.joyce@deq.virginia.gov]; Gunning, Paul [Gunning.Paul@epa.gov]; Kendal Stegmann [Kendal.Stegmann@deq.ok.gov]; Jennifer Mattox - CDPHE [jennifer.mattox@state.co.us]

Subject: EPA Dialogue with ECOS OGC on Methane Rulemaking
Location: Microsoft Teams Meeting

Start: 6/29/2021 3:00:00 PM
End: 6/29/2021 4:30:00 PM
Show Time As: Busy

Required Attendees: Gill, Sonam; Katims, Casey; Bowles, Jack; Goffman, Joseph; Davis, Alison; DeLuca, Isabel; Carbonell, Tomas; Donald Welsh; Carolyn Hanson; lparisien@ecos.org; Kenney James NMENV; dglatt@nd.gov; NMENV Garoutte Justin; michael.abraczinskas@ncdenr.gov; jbarkley@mdeq.ms.gov; dbeasley@mdeq.ms.gov; elizabeth.kuehn@state.nm.us; laura.bishop@state.mn.us; jbland@mdeq.ms.gov; alicia.boss@nebraska.gov; allan.brockenbrough@deq.virginia.gov; cbrown@mdeq.ms.gov; jason.brune@alaska.gov; Denise Brunette; justin.buckler@dnr.mo.gov; dennis.burling@nebraska.gov; chuck.brown@la.gov; bchalfant@pa.gov; erin.chancellor@tceq.texas.gov; shellie.chard@deq.ok.gov; clarkl20@michigan.gov; grant.cope@dtsc.ca.gov; catherine.dickert@dec.ny.gov; ldorman@pa.gov; michael.dowd@deq.virginia.gov; donna.fisher@ks.gov; laurie.fleet@tceq.texas.gov; mfortenberry@mdeq.ms.gov; kevin.frederick@wyo.gov; jeffrey.fretwell@maryland.gov; kira.gillette@state.co.us; steve.goans@nebraska.gov; nathan.graber@dec.ny.gov; ben.grumbles@maryland.gov; sean.hackett@state.co.us; lacey.hardin@tn.gov; thardy@mdeq.ms.gov; tony.hatton@ky.gov; Leo Henning; robert.hodanbosi@epa.ohio.gov; jennifer.hower@state.nm.us; justin.hsu@maryland.gov; michelle.hunter_state.nm.us; james.f.jarrett@wv.gov; morgan.johnson@tceq.texas.gov; tiffani.kavalec@epa.ohio.gov; keogh@adeq.state.ar.us; shane.khoury@arkansas.gov; john.j.kim@illinois.gov; kinneyd@michigan.gov; Lloyd.kirk@deq.ok.gov; kklapkowski@pa.gov; scott.kudlas@deq.virginia.gov; luis.leyva@arb.ca.gov; ann.lowery@state.ma.us; cmaccartney@ecos.org; Jim Macy; Scott.G.Mandirola@wv.gov; james.a.martin@wv.gov; pmcdonnell@pa.gov; serena.mcilwain@calepa.ca.gov; colin.mckee1@wyo.gov; tami.mcmullin@state.co.us; elena.melchert@hq.doe.gov; marian.mergist@la.gov; cmessemore@mdeq.ms.gov; madison.miller@deq.ok.gov; kyra.moore@dnr.mo.gov; jeremy.neustifter@state.co.us; missy.newman@dnr.mo.gov; jennifer.opila@state.co.us; ona.papageorgiou@dec.ny.gov; todd.parfitt@wyo.gov; gregory.patterson@delaware.gov; david.paylor@deq.virginia.gov; margaret.pegues@wyo.gov; tbetz@pa.gov; scperry@pa.gov; preyes@ecos.org; jim.rizk@tceq.texas.gov; krudolph@mdeq.ms.gov; David Salyers; aschmeider@pa.gov; melanie.scruggs@tceq.texas.gov; jesshirley@pa.gov; Joshua.Shodeinde@maryland.gov; samuel.short@tceq.texas.gov; sharon.smith@deq.ok.gov; jstefanko@pa.gov; laurie.stevenson@epa.ohio.gov; timothya.taylor@state.co.us; scott.thompson@deq.ok.gov; ttomkins@mdeq.ms.gov; shtrostle@pa.gov; brandy.valdezmurphy@state.co.us; kara.valentine@nebraska.gov; nancy.vehr1@wyo.gov; michelle.b.walker@tn.gov; walkonsc@michigan.gov; Benjamin Way; vickie.woods@ncdenr.gov; wyganta@michigan.gov; katrina.angarone@dep.nj.gov; toby.baker@tceq.texas.gov; jared.blumenfeld@calepa.ca.gov; Elaine Boyd; jess.byrne@deq.idaho.gov; Cabrera.misael@azdeq.gov; Janet Coit; preston.cole@wisconsin.gov; bcrowell@dcnr.nv.gov; cdorrington2@mt.gov; john.duclos@des.nh.gov; Richard Dunn; Katie Dykes; john.eunice@dnr.ga.gov; darsi.foss@wisconsin.gov; ed.galbraith@dnr.mo.gov; shawn.garvin@delaware.gov; maggie.gendron@vermont.gov; terry.gray@dem.ri.gov; shawn.hamilton@floridadep.gov; keith.kawaoka@doh.hawaii.gov; keatleya@michigan.gov; keyack.michael@azdeq.gov; shawn.latourette@dep.nj.gov; Lance R. LeFleur; walter.leonguerrero@epa.guam.gov; glovato@ndep.nv.gov; melanie.loyzim@maine.gov; shaun.mcgrath@state.co.us; julie.moore@vermont.gov; eileen.murphy@dec.ny.gov; trisha.oeth@state.co.us; jp.oriol@dpnr.vi.gov; bpigott@idem.in.gov; emma.pokon@alaska.gov; brian.pontious@state.sd.us; reecemc@dhec.sc.gov; todd.rettig@illinois.gov; hunter.roberts@state.sd.us; jill.hunsakerryan@state.co.us; robert.scott@des.nh.gov; basil.seggos@dec.ny.gov; kshelley@utah.gov; martin.suuberg@mass.gov; peter.tester@state.mn.us; ed.tormey@dnr.iowa.gov; kenneth.wagner@ee.ok.gov; Peter Walke; harold.d.ward@wv.gov; laura.watson@ecy.wa.gov; Chris Wells; tommy.wells@dc.gov; katiejo.wheeler@dnr.mo.gov; whitman.richard@deq.state.or.us; Greg Young

Optional Attendees: Culligan, Kevin; Cozzie, David; tamera.thompson@deq.virginia.gov; Luke Esch; Rodeheaver, J. Scott; laura.m.crowder@wv.gov; joshua.korth@state.co.us; hodan.marta@azdeq.gov; Frank Thorwald; Jennifer Mattox - CDPHE; czecholinski.daniel@azdeq.gov; Dickman, David (DOEE); Holmes, Becky; jsloan@csg.org; Brody Burks; Rentz, Nicole (DOEE); Garrison Kaufman - CDPHE; Michael.Hopkins@epa.ohio.gov; megan.joyce@deq.virginia.gov; Gunning, Paul; Kendal Stegmann

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Appointment

From: Rakosnik, Delaney [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=274573739a9f446883072599086ededd-Rakosnik, D]
on behalf of Goffman, Joseph [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=23474D598E8D4EDFA9214A5991F2935B-GOFFMAN, JO]
Sent: 10/22/2021 6:59:49 PM
To: Goffman, Joseph [Goffman.Joseph@epa.gov]; Gunning, Paul [Gunning.Paul@epa.gov]; Banks, Julius [Banks.Julius@epa.gov]; DeFigueiredo, Mark [DeFigueiredo.Mark@epa.gov]; Korinna Garfield [kgarfield@catf.us]; Nunez, Alejandra [Nunez.Alejandra@epa.gov]; Kim, Eunjung [Kim.Eun@epa.gov]
CC: Schmeltz, Rachel [Schmeltz.Rachel@epa.gov]; Ann Weeks [aweeks@catf.us]; Ben Grove [bgrove@catf.us]; Kurt Waltzer [kwaltzer@catf.us]; Collins, Al [al_collins@oxy.com]; Scott Anderson [SAnderson@edf.org]; Alan Masinter [amasinter@catf.us]; Graham, Jenna (grahamj8) [grahamj8@mail.uc.edu]; nsaunders@edf.org; blevitan@edf.org; Grundler, Christopher [grundler.christopher@epa.gov]

Subject: Clear Air Task Force re: GHG Reporting Rules Update
Attachments: External meeting request - CATF.docx
Location: Microsoft Teams

Start: 11/4/2021 5:45:00 PM
End: 11/4/2021 6:15:00 PM
Show Time As: Busy

Required Attendees: Gunning, Paul; Banks, Julius; DeFigueiredo, Mark; Korinna Garfield; Nunez, Alejandra; Kim, Eunjung
Optional Attendees: Schmeltz, Rachel; Ann Weeks; Ben Grove; Kurt Waltzer; Collins, Al; Scott Anderson; Alan Masinter; Graham, Jenna (grahamj8); nsaunders@edf.org; blevitan@edf.org; Grundler, Christopher

External meeting request - CATF.d...

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Appointment

From: Levy, Maxwell [Levy.Maxwell@epa.gov]
Sent: 10/29/2021 6:40:38 PM
To: Levy, Maxwell [Levy.Maxwell@epa.gov]; Carbonell, Tomas [Carbonell.Tomas@epa.gov]; Goffman, Joseph [Goffman.Joseph@epa.gov]; Enobakhare, Rosemary [Enobakhare.Rosemary@epa.gov]; lpagel@earthworksaction.org; Margie Alt [malt@cacampaign.com]
CC: Kim, Eunjung [Kim.Eun@epa.gov]; Culligan, Kevin [culligan.kevin@epa.gov]; Cozzie, David [Cozzie.David@epa.gov]; Davis, Alison [Davis.Alison@epa.gov]; Millett, John [Millett.John@epa.gov]; Paul Billings [Paul.Billings@lung.org]; Bob Bingaman [bob.bingaman@sierraclub.org]; Rachel Cleetus [RCleetus@ucsusa.org]; mjohnson@nhmamd.org; Kim Alfred [kalfred@cacampaign.com]; jeisenfeld@earthworksaction.org; Shannon Heyck-Williams [HeyckWilliamsS@nwf.org]; Sara Chieffo [Sara_Chieffo@lcv.org]; Murrow, Derek [dmurrow@nrdc.org]; Alan Septoff [aseptoff@earthworksaction.org]; Carol Andress [candress@edf.org]

Subject: Stakeholder Briefing: Methane Partners + CAC
Location: Microsoft Teams Meeting

Start: 11/1/2021 5:30:00 PM
End: 11/1/2021 6:00:00 PM
Show Time As: Busy

Required Attendees: Levy, Maxwell; Carbonell, Tomas; Goffman, Joseph; Enobakhare, Rosemary; lpagel@earthworksaction.org; Margie Alt
Optional Attendees: Kim, Eunjung; Culligan, Kevin; Cozzie, David; Davis, Alison; Millett, John; Paul Billings; Bob Bingaman; Rachel Cleetus; mjohnson@nhmamd.org; Kim Alfred; jeisenfeld@earthworksaction.org; Shannon Heyck-Williams; Sara Chieffo; Murrow, Derek; Alan Septoff

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Appointment

From: Lesley Stobert [lstobert@scainc.com]
Sent: 10/19/2021 1:26:45 AM
To: Shoaff, John [Shoaff.John@epa.gov]; Reddick, Lorraine [Reddick.Lorraine@epa.gov]; +1419410 Ex. 6 teamsvisitor:d386bbbd7cd84f8580e4be14c75f304e; Clay Pope [pope@texstrat.us]; Kim, Eunjung [Kim.Eun@epa.gov]; +1832454 Ex. 6 Hooper, Daniel [hooper.daniel@epa.gov]; +1703966 Ex. 6 scican.org [info@scican.org]; Application 9e133cac-5238-4d1e-aaa0-d8ff4ca23f4e; teamsvisitor:2921aea333a14c82a03e3a8de193251f; Wood, Anna [Wood.Anna@epa.gov]; teamsvisitor:88a7fc44095c43428352579fe7d8b2e0; teamsvisitor:10b10692fe304ef9aaa85a8537635bb2; Shaw, Betsy [Shaw.Betsy@epa.gov]; teamsvisitor:3554ee6c39634885a53d6c983beccfd1; Figueroa, Veronica L - Bartow [Veronica.Figueroa@mosaicco.com]; +1907367 Ex. 6 1); White, Johne [White.Johne@epa.gov]; Dickerson, Phil [Dickerson.Phil@epa.gov]; +1989339 Ex. 6 teamsvisitor:db7b23165a7843f28941c50d9a5e7b77; Kelsey Tamborrino [ktamborrino@politico.com]; teamsvisitor:104a89e2d82a49f3865f93092b2c4b62; Koerber, Mike [Koerber.Mike@epa.gov]; teamsvisitor:08d5d2b717f64441a7bafc5428f61cd6; robert.hodanbosi@epa.ohio.gov; Kocchi, Suzanne [Kocchi.Suzanne@epa.gov]; Daniel, Shawn L:(BSC) [Shawn.Daniel@exeloncorp.com]; Campbell, Ann [Campbell.Ann@epa.gov]; teamsvisitor:58930125cf284680b27038621a9c6568; Nunez, Alejandra [Nunez.Alejandra@epa.gov]; Goffman, Joseph [Goffman.Joseph@epa.gov]; Weinstock, Larry [Weinstock.Larry@epa.gov]; teamsvisitor:6681a7e272c74ee6bea9065b79ef678e; Deb Brown [Deb.Brown@lung.org]; Robinson, Maria - Rep. (HOU) [Maria.Robinson@mahouse.gov]; Steinbauer, Gary [GSteinbauer@babstcalland.com]; jason.howanitz@jcdh.org; +1202834 Ex. 6 Saltman, Tamara [Saltman.Tamara@epa.gov]; teamsvisitor:ceb94d63ca7047129ac4becc555e47c5; natalene.cummings@fcpotawatomi-nsn.gov; teamsvisitor:b2a071e57b5242d498c37c11a682d7e2; teamsvisitor:3d65ea68c7b74b70838aea6d70efa7cd; teamsvisitor:732fe1614faa459b885c6dec61af36d6; Cronmiller, Rae E. [rae.cronmiller@nreca.coop]; +1518358 Ex. 6 mkeogh@4cleanair.org; teamsvisitor:4125fb3c4c204b5ebbe04b4461edee97; LESLIE RITTS [LSRITTS@RITTSLAW.onmicrosoft.com]; dgreenbaum@healtheffects.org; jkinsman@eei.org; Morgan, Ruthw [morgan.ruthw@epa.gov]; Application 9cd07db6-fab5-438c-8e34-44117fac7650; +19073673260 (2); teamsvisitor:0e183898be7a4f81969b1c668fd4a2fd; Hoekzema, Andrew [ahoekzema@capcog.org]; Bahnfleth, William P [wbahnfleth@psu.edu]; Application ab5d1521-415b-4380-82e4-af803fb8bf2d; Spratlin, William [william.spratlin@aptim.com]; Application d29ade6f-9257-45cb-883c-01ad3a6f6d20; Broome, Shannon S. [SBroome@hunton.com]; teamsvisitor:f6b97ad214f5445280c0cabaf2fece05; Kelley Green; teamsvisitor:2a02ff50d4894b78b4649a4c8990a22c; Margaret Overton [moverton@scainc.com]; Application 207a6836-d031-4764-a9d8-c1193f455f21; teamsvisitor:2226bf695dea4772895febdf1888ee35; Edwards, Jonathan [Edwards.Jonathan@epa.gov]; Henning, Julie [henning.julie@epa.gov]; Ted Steichen [SteichenT@api.org]; Chartier, Daniel [Daniel.Chartier@nreca.coop]; teamsvisitor:c212855ddb3647789e8a83eaf9ab447d; Tim_hunt@afandpa.org; Massey, Eric [Eric.Massey@aps.com]; rmeyers@crowell.com; Sara Hayes [SHayes@aceee.org]; teamsvisitor:326d041daf9848798e2f83f1305f2b93; Korinna Garfield [kgarfield@catf.us]; gjones@printing.org; Lesley Stobert [lstobert@scainc.com]; Duncan McCook; Jefferson, Catrice [Jefferson.Catrice@epa.gov]; Sullivan, Vicky [Vicky.Sullivan@duke-energy.com]; Application d123a3e6-7f0a-4bbd-91f2-6d0ad1707297; teamsvisitor:ac2359d0c4f34f009d13a5ca6e372549; Kris Ray; teamsvisitor:336a607efddb4bc4aca345eecb3ec1a7; Lubetsky, Jonathan [Lubetsky.Jonathan@epa.gov]

Subject: Meeting (ScheduledMeeting)/Thread Id: Ex. 6 Ex. 6 /Shoaff, John,Reddick, Lorraine,+1419410 Ex. 6 ,teamsvisitor:d386bbbd7cd84f8580e4be14c75f304e...

Start: 10/18/2021 4:53:00 PM
End: 10/18/2021 8:17:21 PM
Show Time As: Busy

Recurrence: (none)

Required Attendees: Shoaff, John; Reddick, Lorraine; +1419410 Ex. 6 teamsvisitor:d386bbbd7cd84f8580e4be14c75f304e; Clay Pope; Kim, Eunjung; +1832454 Ex. 6 Hooper, Daniel; +1703966 Ex. 6 scican.org; Application 9e133cac-5238-4d1e-aaa0-d8ff4ca23f4e; teamsvisitor:2921aea333a14c82a03e3a8de193251f; Wood, Anna;

teamsvisitor:88a7fc44095c43428352579fe7d8b2e0; teamsvisitor:10b10692fe304ef9aaa85a8537635bb2; Shaw, Betsy; teamsvisitor:3554ee6c39634885a53d6c983beccfd1; Figueroa, Veronica L - Bartow; +1907367 Ex. 6 (1); White, Johne; Dickerson, Phil; +1989339 Ex. 6 teamsvisitor:db7b23165a7843f28941c50d9a5e7b77; Kelsey Tamborrino; teamsvisitor:104a89e2d82a49f3865f93092b2c4b62; Koerber, Mike; teamsvisitor:08d5d2b717f64441a7bafc5428f61cd6; robert.hodanbosi@epa.ohio.gov; Kocchi, Suzanne; Daniel, Shawn L:(BSC); Campbell, Ann; teamsvisitor:58930125cf284680b27038621a9c6568; Nunez, Alejandra; Goffman, Joseph; Weinstock, Larry; teamsvisitor:6681a7e272c74ee6bea9065b79ef678e; Deb Brown; Robinson, Maria - Rep. (HOU); Steinbauer, Gary; jason.howanitz@jcdh.org; +1202834 Ex. 6 Saltman, Tamara; teamsvisitor:ceb94d63ca7047129ac4becc555e47c5; natalene.cummings@fcpotawatomi-nsn.gov; teamsvisitor:b2a071e57b5242d498c37c11a682d7e2; teamsvisitor:3d65ea68c7b74b70838aea6d70efa7cd; teamsvisitor:732fe1614faa459b885c6dec61af36d6; Cronmiller, Rae E.; +1518358 Ex. 6 mkeogh@4cleanair.org; teamsvisitor:4125fb3c4c204b5ebbe04b4461edee97; LESLIE RITTS; dgreenbaum@healtheffects.org; jkinsman@eei.org; Morgan, Ruthw; Application 9cd07db6-fab5-438c-8e34-44117fac7650; +1907367 Ex. 6 (2); teamsvisitor:0e183898be7a4f81969b1c668fd4a2fd; Hoekzema, Andrew; Bahnfleth, William P; Application ab5d1521-415b-4380-82e4-af803fb8bf2d; Spratlin, William; Application d29ade6f-9257-45cb-883c-01ad3a6f6d20; Broome, Shannon S.; teamsvisitor:f6b97ad214f5445280c0cabaf2fece05; Kelley Green; teamsvisitor:2a02ff50d4894b78b4649a4c8990a22c; Margaret Overton; Application 207a6836-d031-4764-a9d8-c1193f455f21; teamsvisitor:2226bf695dea4772895febdf1888ee35; Edwards, Jonathan; Henning, Julie; Ted Steichen; Chartier, Daniel; teamsvisitor:c212855ddb3647789e8a83eaf9ab447d; Tim_hunt@afandpa.org; Massey, Eric; rmeyers@crowell.com; Sara Hayes; teamsvisitor:326d041daf9848798e2f83f1305f2b93; Korinna Garfield; gjones@printing.org; Lesley Stobert; Duncan McCook; Jefferson, Catrice; Sullivan, Vicky; Application d123a3e6-7f0a-4bbd-91f2-6d0ad1707297; teamsvisitor:ac2359d0c4f34f009d13a5ca6e372549; Kris Ray; teamsvisitor:336a607efddb4bc4aca345eecb3ec1a7; Lubetsky, Jonathan

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Duration: 03:24:20.5099165

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Appointment

From: Maureen Mullen [mmullen@scainc.com]
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To: +1313717 Ex. 6 (1); Application 207a6836-d031-4764-a9d8-c1193f455f21; teamsvisitor:44efa65ce52848789e2c18658e80235d; Eric Miller [emiller@trucking.org]; Lightfoot, Jeanette [lightfoot.jeanette@epa.gov]; mmiyasato@aqmd.gov; Paff, Patricia [paff.patricia@epa.gov]; Caffrey, Cheryl [caffrey.cheryl@epa.gov]; Application 9e133cac-5238-4d1e-aaa0-d8ff4ca23f4e; Valderrama, Cristina [Valderrama.Cristina@epa.gov]; +1240475 Ex. 6 (1); +1513316 Ex. 6 Henning, Julie [henning.julie@epa.gov]; Wang, Alex [Wang.Alex@epa.gov]; Anderson, Robert (Bob.Anderson) [bob.anderson@chevron.com]; teamsvisitor:aaee9a20bbec45068d454d99ea114385; Chiu, Ann [Chiu.Ann@epa.gov]; Timothy A. French [TFrench@clpchicago.com]; Kelly, Brian [brian.kelly1@Wabtec.com]; Oswald, Kimberly [oswald.kimberly@epa.gov]; Robert O'Keefe [RO'Keefe@healtheffects.org]; Froman, Sarah [Froman.Sarah@epa.gov]; Dunham, Sarah [Dunham.Sarah@epa.gov]; Bunker, Amy [Bunker.Amy@epa.gov]; Clay Pope [pope@texstrat.us]; Hula, Aaron [Hula.Aaron@epa.gov]; teamsvisitor:1899a587d19d48b3a25d38813ab4a35b; Daniels, Jessica [daniels.jessica@epa.gov]; +1313418 Ex. 6 (1); +1313418 Ex. 6 (1); peg hanna [Peg.hanna@dep.nj.gov]; Shell, Michael [Shell.Michael@epa.gov]; Williams, Cynthia (.) [cwilli96@ford.com]; McCoy, Britney [McCoy.Britney@epa.gov]; Matt Barth; Rotondi, Joanne [joanne.rotondi@hoganlovells.com]; Simon, Karl [Simon.Karl@epa.gov]; Charmley, William [charmley.william@epa.gov]; searlesp@api.org; Kent Hoekman [kent.hoekman@dri.edu]; Galperin, Diana [Galperin.Diana@epa.gov]; Dave Cooke [DCooke@ucsusa.org]; +1202553 Ex. 6 (1); Julia Rege [Jrege@autosinnovate.org]; Rachel Muncrief [rachel@theicct.org]; +1586322 Ex. 6 Thomas Van Heeke [thomas.vanheeke@gm.com]; +1313590 Ex. 6 ; Chikasuye, Blair K [blair.chikasuye@hp.com]; +1313717 Ex. 6 (2); Snapp, Lisa [snapp.lisa@epa.gov]; +1734545 Ex. 6 (1); +1734545 Ex. 6 Tonachel, Luke [ltonachel@nrdc.org]; +1919257 Ex. 6 (1); Parsons, Christy [Parsons.Christy@epa.gov]; Elaine O'Grady [eogrady@nescaum.org]; Esqueda, Keesha N [KEESHA.ESQUEDA@FHR.COM]; sparker@iwpnews.com; Sarver, Benjamin [Sarver.Benjamin@epa.gov]; +1313418 Ex. 6 (2); +1734545 Ex. 6 (2); nkruger@4cleanair.org; teamsvisitor:d95bdd6ca45c420fac5a24d9a34c9295; Vu, Diep N. [dvu@marathonpetroleum.com]; Application 9cd07db6-fab5-438c-8e34-44117fac7650; Grace Olscamp [grace@healutah.onmicrosoft.com]; Application b102ccd8-1925-448b-90a7-b083aba25074; George Lin [LIN_GEORGE@cat.com]; Alex Guillen [aguillen@politico.com]; +1919257 Ex. 6 (2); Birgfeld, Erin [Birgfeld.Erin@epa.gov]; Dawn Reeves [dreeves@iwpnews.com]; Stilson, Susan [Stilson.Susan@epa.gov]; John Eichberger [jeichberger@fuelsinstitute.org]; rbrezny@meca.org; Maguire, Andrea [Maguire.Andrea@epa.gov]; Sze, Chien [Sze.Chien@epa.gov]; +1586930 Ex. 6 , +1202553 Ex. 6 (2); Michael Hartrick [Mhartrick@autosinnovate.org]; teamsvisitor:94a1310caf194292877cc5a6a581d7a8; Roberts, Sarah [Roberts.Sarah@epa.gov]; Chang, Ray [Chang.Ray@epa.gov]; Fronczak, Robert [rfronczak@aar.org]; teamsvisitor:88cd5beb971f4c67a255b43f77f6485c; Matthew W Spears [matthew.spears@cummins.com]; +1313418 Ex. 6 (3); Burke, Susan [Burke.Susan@epa.gov]; teamsvisitor:f4ed17ea73ea4f408ae1c9fb94b2e17d; Maureen Mullen [mmullen@scainc.com]; Burch, Julia [Burch.Julia@epa.gov]; teamsvisitor:109b91260848422e8f675806d9c0e7da; +1240475 Ex. 6 (2); +1313418 Ex. 6 (2); +1650888 Ex. 6 McDonald, Joseph [McDonald.Joseph@epa.gov]; Goffman, Joseph [Goffman.Joseph@epa.gov]; Nunez, Alejandra [Nunez.Alejandra@epa.gov]; +1313717 Ex. 6 (3); Corey, Richard@ARB [richard.corey@arb.ca.gov]; James Kliesch [james_kliesch@ahm.honda.com]; teamsvisitor:723b379e0ea94f04a1b17fe738501eb0; Russell Pildes [rpildes@nescaum.org]; Bunker, Byron [bunker.byron@epa.gov]; teamsvisitor:0ce48dfd23bb417fa358acbcec970cde; teamsvisitor:5ffa3b36c4fb4373886aab24282404ab; teamsvisitor:a524f3deb00e4d79b50a2409ffedb22b; Margaret Overton [moverton@scainc.com]; Application 556b15e7-452c-4773-b728-6313eaa47b77; Lynch-Sparks, Kaye [klynchsparks@NADA.org]; teamsvisitor:7c1e4a17eada4d4d97f5157902e06f69

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Show Time As: Busy

Recurrence: (none)

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[6/15/2021 2:17:40 PM (UTC)] snapp.lisa@epa.gov joined.
[6/15/2021 3:59:44 PM (UTC)] snapp.lisa@epa.gov left.
[6/15/2021 2:35:48 PM (UTC)] blair.chikasuye@hp.com joined.
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[6/15/2021 4:08:01 PM (UTC)] Stilson.Susan@epa.gov joined.
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[6/15/2021 7:29:50 PM (UTC)] teamsvisitor:7c1e4a17eada4d4d97f5157902e06f69 left.
[6/15/2021 6:07:31 PM (UTC)] Chiu.Ann@epa.gov joined.
[6/15/2021 8:10:23 PM (UTC)] Chiu.Ann@epa.gov left.
[6/15/2021 4:57:07 PM (UTC)] cwilli96@ford.com joined.
[6/15/2021 8:10:21 PM (UTC)] cwilli96@ford.com left.
[6/15/2021 2:11:08 PM (UTC)] mmullen@scainc.com joined.
[6/15/2021 8:11:32 PM (UTC)] mmullen@scainc.com left.
[6/15/2021 6:05:07 PM (UTC)] Ltonachel@nrdc.org joined.
[6/15/2021 8:11:35 PM (UTC)] Ltonachel@nrdc.org left.
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Appointment

From: Google Calendar [calendar-notification@google.com]
on behalf of Kelly Poole [kpoole@ecos.org]
Sent: 9/16/2021 9:57:53 PM
To: rebecca.doig@state.ma.us; rletterm@idem.in.gov; dglatt@nd.gov; juliet.bryan-powell@ct.gov; steven.hagood@tceq.texas.gov; Bryce Bird [bbird@utah.gov]; Vehr, Nancy [nancy.vehr1@wyo.gov]; linda.miller@dep.state.nj.us; Karen Shaler [SHALERK@michigan.gov]; grant.cope@dtsc.ca.gov; chuck.mueller@dnr.state.ga.us; pmcdonnell@pa.gov; scott.thompson@deq.ok.gov; kendal.stegmann@deq.ok.gov; dwelsh@ecos.org; Lance R. LeFleur [llefleur@adem.alabama.gov]; Richard Dunn [richard.dunn@dnr.ga.gov]; joseph.fontaine@des.nh.gov; Babbidge, Tracy [tracy.babbidge@ct.gov]; Dowd, Michael (DEQ) [michael.dowd@deq.virginia.gov]; lwb@adem.alabama.gov; jared.snyder@dec.ny.gov; ecos@ecos.org; thelenm2@michigan.gov; Cabrera.misael@azdeq.gov; Gail Good [gail.good@wisconsin.gov]; robert.girard@ct.gov; husain.waheed@maryland.gov; paul.baldauf@dep.nj.gov; James.Boylan@dnr.ga.gov; Beth Graves [bgraves@ecos.org]; louise.hughes@ncdenr.gov; Alice.Edwards@alaska.gov; julie.armitage@illinois.gov; keogh@adeq.state.ar.us; Mary Douglas [mdouglas@4cleanair.org]; Ben Grumbles [ben.grumbles@maryland.gov]; Nicole.lugli@ct.gov; Michelle B. Walker [Michelle.B.Walker@tn.gov]; craig.wright@des.nh.gov; reecemc@dhec.sc.gov; zack.barthel@maryland.gov; steven.flint@dec.ny.gov; jon.niermann@tceq.texas.gov; alicia.boss@nebraska.gov; george.aburn [george.aburn@maryland.gov]; Grandchamp, Laurie (DEM) [laurie.grandchamp@dem.ri.gov]; jess.byrne@deq.idaho.gov; mkeogh@4cleanair.org; Todd Parfitt [todd.parfitt@wyo.gov]; Elliott Bickerstaff [ebickerstaff@mdeq.ms.gov]; Katie Dykes [Katie.Dykes@ct.gov]; Leo Henning [leo.henning@ks.gov]; james.kenney@state.nm.us; nkruger@4cleanair.org; thornberg.carol@deq.state.or.us; jeffrey.underhill@des.nh.gov [Jeffrey.Underhill@des.nh.gov]; kelley.clemons@tn.gov; missy.newman@dnr.mo.gov; gregory.patterson@delaware.gov; Christine Kirby [Christine.Kirby@state.ma.us]; david.paylor@deq.virginia.gov; betsey.wingfield@ct.gov; Jeffrey Fretwell [jeffrey.fretwell@maryland.gov]; tommy.wells@dc.gov; Michael Pjetraj [michael.pjetraj@ncdenr.gov]; Glenn Keith [glenn.keith@state.ma.us]; justin.buckler@dnr.mo.gov; caldera.stephanie@deq.state.or.us; ali.mirzakhalili@state.or.us; christopher.j.skoglund@des.nh.gov; ann.lowery@state.ma.us; brandy.valdezmurphy@state.co.us; sharlett.mena@ecy.wa.gov; Hurst, A Dale [ADH@adem.alabama.gov]; Fitzsimmons, Catharine [DNR] [catharine.fitzsimmons@dnr.iowa.gov]; Heidi.Hales@vermont.gov; glovato@ndep.nv.gov; olaguerj@michigan.gov; lisa.nissley@maryland.gov; michael.m.fitzgerald@des.nh.gov; tiffany.floyd@deq.idaho.gov; jennifer.alexander@dnr.mo.gov; jim.rizk@tceq.texas.gov; luke.wisniewski@maryland.gov; kyra.moore@dnr.mo.gov; richard.whitman@deq.state.or.us; serena.mcilwain@calepa.ca.gov; jsloan@csg.org; martin.suuberg@mass.gov; melanie.loyzim@maine.gov; marilyn.turnbow@ecy.wa.gov; Read, Hastings [Hastings.Read@FloridaDEP.gov]; holly.lamers@wisconsin.gov; Karen Mongoven [kmongoven@4cleanair.org]; ed.galbraith@dnr.mo.gov; Richard.Waters [Richard.Waters@dnr.mo.gov]; laura.factor@epa.ohio.gov; michael.abraczinskas@ncdenr.gov; Sponseller, Bart A - DNR [bart.sponseller@wisconsin.gov]; stuart.clark@ecy.wa.gov; sushma.masemore@ncdenr.gov; ed.tormey@dnr.iowa.gov; darcy.bybee@dnr.mo.gov; mark.wert@state.ma.us; robert.hodanbosi@epa.ohio.gov; rebecca.roose@state.nm.us; doug.elliott@vermont.gov; Paulina Lopez-Santos [plopezsantos@ecos.org]; david.bizot@wisconsin.gov; karen.hays@dnr.state.ga.us; Elaine Boyd [elaine.boyd@tn.gov]; Scott.G.Mandirola@wv.gov; kathy.bishop@maryland.gov; eileen.murphy@dec.ny.gov; Sinclair, Jaimeson [Jaimeson.Sinclair@ct.gov]; carmen.colon@ct.gov; Marc Cone [mcone@marama.org]; Jerah.Sheets@dnr.iowa.gov; Jim Macy [jim.macy@nebraska.gov]; dolehantym@michigan.gov; bryan.johnston@la.gov; Hays, Karen [karen.hays@dnr.ga.gov]; MIRZAKHALILI Ali * DEQ [ali.mirzakhalili@deq.state.or.us]; Mena, Sharlett (ECY) [mesh461@ecy.wa.gov]; scla461@ecy.wa.gov; Kirby, Christine (DEP) [christine.kirby@mass.gov]; Turnbow, Marilyn (ECY) [matu461@ecy.wa.gov]; Simon, Karl [Simon.Karl@epa.gov]; Shaw, Betsy [Shaw.Betsy@epa.gov]; Edwards, Jonathan [Edwards.Jonathan@epa.gov]; Carbonell, Tomas [Carbonell.Tomas@epa.gov]; Shoaff, John [Shoaff.John@epa.gov]; Goffman, Joseph [Goffman.Joseph@epa.gov]; Tsirigotis, Peter [Tsirigotis.Peter@epa.gov]; Gill, Sonam [Gill.Sonam@epa.gov]; campbell.ann@epa; Kim, Eunjung [Kim.Eun@epa.gov]; Nunez, Alejandra [Nunez.Alejandra@epa.gov]; Dunham, Sarah [Dunham.Sarah@epa.gov]; Bowles, Jack [Bowles.Jack@epa.gov]; Katims, Casey [Katims.Casey@epa.gov]; Grundler, Christopher [grundler.christopher@epa.gov]

Subject: Invitation: ECOS Air Committee + EPA OAR Quarterly Call @ Mon Sep 20, 2021 12pm - 1pm (EDT) (nunez.alejandra@epa.gov)
Attachments: invite.ics
Location: Ex. 6

Start: 9/20/2021 4:00:00 PM
End: 9/20/2021 5:00:00 PM
Show Time As: Tentative

Recurrence: (none)

You have been invited to the following event.

ECOS Air Committee + EPA OAR Quarterly Call

When Mon Sep 20, 2021 12pm – 1pm Eastern Time - New York

Where **Ex. 6**

Calendar nunez.alejandra@epa.gov

Who
- Kelly Poole - organizer
- rebecca.doig@state.ma.us
- rletterm@idem.in.gov
- dglatt@nd.gov
- juliet.bryan-powell@ct.gov
- steven.hagood@tceq.texas.gov
- bbird@utah.gov
- Nancy Vehr
- linda.miller@dep.state.nj.us
- shalerk@michigan.gov
- grant.cope@dtsc.ca.gov
- chuck.mueller@dnr.state.ga.us
- pmcdonnell@pa.gov
- scott.thompson@deq.ok.gov
- kendal.stegmann@deq.ok.gov
- dwelsh@ecos.org
- llefleur@adem.alabama.gov
- richard.dunn@dnr.ga.gov
- joseph.fontaine@des.nh.gov
- tracy.babbidge@ct.gov
- michael.dowd@deq.virginia.gov
- lwb@adem.alabama.gov
- jared.snyder@dec.ny.gov
- ecos@ecos.org
- thelenm2@michigan.gov
- cabrera.misael@azdeq.gov
- gail.good@wisconsin.gov
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- gregory.patterson@delaware.gov
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- heidi.hales@vermont.gov
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- olaguerj@michigan.gov
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- laura.factor@epa.ohio.gov
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- mark.wert@state.ma.us
- robert.hodanbosi@epa.ohio.gov
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- jaimeson.sinclair@ct.gov
- carmen.colon@ct.gov
- mcone@marama.org
- Jerah Sheets
- jim.macy@nebraska.gov
- dolehantym@michigan.gov
- bryan.johnston@la.gov
- Hays, Karen
- MIRZAKHALILI Ali * DEQ

- Mena, Sharlett (ECY)
- Clark, Stuart (ECY)
- Kirby, Christine (DEP)
- Turnbow, Marilyn (ECY)
- simon.karl@epa.gov
- shaw.betsy@epa.gov
- edwards.jonathan@epa.gov
- carbonell.tomas@epa.gov
- shoaff.john@epa.gov
- goffman.joseph@epa.gov
- tsirigotis.peter@epa.gov
- gill.sonam@epa.gov
- campbell.ann@epa
- kim.eun@epa.gov
- nunez.alejandra@epa.gov
- dunham.sarah@epa.gov
- bowles.jack@epa.gov
- katims.casey@epa.gov
- grundler.christopher@epa.gov

more details »
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Ex. 6

Meeting ID: Ex. 6

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One tap mobile

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US (San Jose)
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Dial by your location

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US (Chicago)
US (New York)

Meeting ID: Ex. 6
Passcode: Ex. 6
Find your local number: Ex. 6

Going (nunez.alejandra@epa.gov)? **Yes** - **Maybe** - **No** more options »

Invitation from Google Calendar

You are receiving this courtesy email at the account nunez.alejandra@epa.gov because you are an attendee of this event.

To stop receiving future updates for this event, decline this event. Alternatively you can sign up for a Google account at https://calendar.google.com/calendar/ and control your notification settings for your entire calendar.

Forwarding this invitation could allow any recipient to send a response to the organizer and be added to the guest list, or invite others regardless of their own invitation status, or to modify your RSVP. Learn More.

Organizer: Kelly Poole : kpoole@ecos.org

Subject: ECOS Air Committee + EPA OAR Quarterly Call

Location:

Ex. 6

Ex. 6

Start Time: 2021-09-20T16:00:00Z

End Time: 2021-09-20T17:00:00Z

Attendees: rebecca.doig@state.ma.us : rebecca.doig@state.ma.us, rletterm@idem.in.gov : rletterm@idem.in.gov, dglatt@nd.gov : dglatt@nd.gov, juliet.bryan-powell@ct.gov, juliet.bryan-powell@ct.gov, steven.hagood@tceq.texas.gov : steven.hagood@tceq.texas.gov, bbird@utah.gov : bbird@utah.gov, Nancy Vehr, nancy.vehr1@wyo.gov, linda.miller@dep.state.nj.us : linda.miller@dep.state.nj.us, shalerk@michigan.gov : shalerk@michigan.gov, grant.cope@dtsc.ca.gov, grant.cope@dtsc.ca.gov, chuck.mueller@dnr.state.ga.us, chuck.mueller@dnr.state.ga.us, pmcdonnell@pa.gov, pmcdonnell@pa.gov, scott.thompson@deq.ok.gov : scott.thompson@deq.ok.gov, kendal.stegmann@deq.ok.gov : kendal.stegmann@deq.ok.gov, dwelsh@ecos.org : dwelsh@ecos.org, llefleur@adem.alabama.gov, llefleur@adem.alabama.gov, richard.dunn@dnr.ga.gov, richard.dunn@dnr.ga.gov, joseph.fontaine@des.nh.gov, joseph.fontaine@des.nh.gov, tracy.babbidge@ct.gov, tracy.babbidge@ct.gov, michael.dowd@deq.virginia.gov, michael.dowd@deq.virginia.gov, lwb@adem.alabama.gov, lwb@adem.alabama.gov, jared.snyder@dec.ny.gov : jared.snyder@dec.ny.gov, ecos@ecos.org : ecos@ecos.org, thelenm2@michigan.gov, thelenm2@michigan.gov, cabrera.misael@azdeq.gov, cabrera.misael@azdeq.gov, gail.good@wisconsin.gov, gail.good@wisconsin.gov, robert.girard@ct.gov : robert.girard@ct.gov, husain.waheed@maryland.gov : husain.waheed@maryland.gov, paul.baldauf@dep.nj.gov : paul.baldauf@dep.nj.gov, james.boylan@dnr.ga.gov : james.boylan@dnr.ga.gov, bgraves@ecos.org : bgraves@ecos.org, louise.hughes@ncdenr.gov, louise.hughes@ncdenr.gov, alice.edwards@alaska.gov, alice.edwards@alaska.gov, julie.armitage@illinois.gov, julie.armitage@illinois.gov, keogh@adeq.state.ar.us, keogh@adeq.state.ar.us, mdouglas@4cleanair.org : mdouglas@4cleanair.org, ben.grumbles@maryland.gov : ben.grumbles@maryland.gov, nicole.lugli@ct.gov : nicole.lugli@ct.gov, michelle.b.walker@tn.gov, michelle.b.walker@tn.gov, craig.wright@des.nh.gov, craig.wright@des.nh.gov, reecemc@dhec.sc.gov : reecemc@dhec.sc.gov, zack.barthel@maryland.gov : zack.barthel@maryland.gov, steven.flint@dec.ny.gov : steven.flint@dec.ny.gov, jon.niermann@tceq.texas.gov : jon.niermann@tceq.texas.gov, alicia.boss@nebraska.gov : alicia.boss@nebraska.gov, george.aburn@maryland.gov : george.aburn@maryland.gov, laurie.grandchamp@dem.ri.gov : laurie.grandchamp@dem.ri.gov, jess.byrne@deq.idaho.gov : jess.byrne@deq.idaho.gov, mkeogh@4cleanair.org : mkeogh@4cleanair.org, Todd Parfitt, todd.parfitt@wyo.gov, ebickerstaff@mdeq.ms.gov : ebickerstaff@mdeq.ms.gov, Kelly Poole : kpoole@ecos.org, katie.dykes@ct.gov, katie.dykes@ct.gov, leo.henning@ks.gov : leo.henning@ks.gov, james.kenney@state.nm.us : james.kenney@state.nm.us, nkruger@4cleanair.org, nkruger@4cleanair.org,

thornberg.carol@deq.state.or.us

<b>Join Zoom Meeting [redacted] Ex. 6 [redacted] Ex. 6 [redacted] >Meeting ID: [redacted] Ex. 6 [redacted] Passcode: [redacted] Ex. 6 [redacted] >One tap mobile< [redacted] Ex. 6 [redacted] US (San Jose) [redacted] Ex. 6 [redacted] US (Tacoma)

<b>Dial by your location [redacted] Ex. 6 [redacted] US (San Jose) [redacted] Ex. 6 [redacted] Ex. 6 [redacted] US (Tacoma) [redacted] Ex. 6 [redacted] US (Houston) [redacted] Ex. 6 [redacted] US (Washington DC)
    & [redacted] Ex. 6 [redacted] US (Chicago) [redacted] Ex. 6 [redacted] US (New York) [redacted] Ex. 6 [redacted] >Passcode: [redacted] Ex. 6 [redacted] Find your local number: [redacted] Ex. 6 [redacted]

-::~:~::~::~:~::-
Do not edit this section of the description.

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Ex. 6

-::~:~::~::~:~::-

Appointment

From: Morphew, Heather [morphew@law.ucla.edu]
on behalf of Horowitz, Cara [HOROWITZ@law.ucla.edu]
Sent: 9/16/2021 11:58:05 PM
To: Lienke, Jack [lienkej@mercury.law.nyu.edu]; Poloncarz, Kevin [KPoloncarz@cov.com]; Nunez, Alejandra [Nunez.Alejandra@epa.gov]; 'Vickie Patton' [vpatton@edf.org]; jack.lienke@nyu.edu

Subject: Hold- Yosemite Panel Taping

Start: 9/29/2021 4:00:00 PM
End: 9/29/2021 6:00:00 PM
Show Time As: Tentative

Recurrence: (none)

Appointment

From: Camren Butler [camren.butler@calawyers.org]
Sent: 10/13/2021 3:42:26 PM
To: Nicole Peeler [nicole.peeler@calawyers.org]; jack.lienke@nyu.edu; vpatton@edf.org; kpoloncarz@cov.com; Nunez, Alejandra [Nunez.Alejandra@epa.gov]
CC: DeLuca, Isabel [DeLuca.Isabel@epa.gov]

Subject: ELS Yosemite Live Q&A— The Biden Administration – A Breath of Fresh Air?
Attachments: image001.png; CLA Virtual Presenter Checklist.docx

Start: 10/14/2021 5:15:00 PM
End: 10/14/2021 5:45:00 PM
Show Time As: Tentative

Recurrence: (none)

Good morning everyone,

Thank you so much for participating in the 30th Annual Yosemite Conference! We appreciate your expertise and the generosity of your time. This session will be hosted through the Zoom Webinar platform and a CLA staff person will be on to assist you the day of your session. Please find your Zoom Webinar speaker links below and the CLA Virtual Presenter Checklist attached.

Please click on the speaker link next to your name at the date/time of this calendar invite, to join your session and get set up:

- Vicki: Ex. 6
  Ex. 6
- Kevin:
  Ex. 6
- Alejandra: Ex. 6
  Ex. 6
- Jack: Ex. 6
  Ex. 6

Please note: these links are unique to you and should only be used by the designated panelist.

Registration info:

- As a speaker/moderator, you have been registered automatically for the conference.
- You should have received an email from our virtual platform, Pheedloop, with your log in information.
  - If you did not receive an email from Pheedloop, please check your junk or spam folder.

- You will have access to the entire conference for up to 30 days after the conclusion of the conference. Please feel free to view any panels or participate in any of the social/networking events.

If you have any questions regarding your session or your registration, please email Camren Butler at camren.butler@calawyers.org.

Thank you,

Camren

--

Camren Butler | Section Manager
California Lawyers Association
400 Capitol Mall, Suite 650 | Sacramento, CA 95814
O: 916.516.1722 | camren.butler@calawyers.org
Pronouns: he/him

Appointment

From: Levy, Maxwell [Levy.Maxwell@epa.gov]
Sent: 10/19/2021 9:48:17 PM
To: Enobakhare, Rosemary [Enobakhare.Rosemary@epa.gov]; Cortez Russell, Loni [Russell.Loni@epa.gov]
CC: Hiltonkelley5011[Ex. 6]; pamela@akaction.org; Viola Waghiyi [vi@akaction.org]; miya@apen4ej.org; LaTricea Adams [president@blackmillennials4flint.org]; glinon@caleja.org; CEJCoalition[Ex. 6]; newbian8[Ex. 6]; nsheats@tesu.edu; blauderdale[Ex. 6] dmolina@cbecal.org; beverlylwright[Ex. 6] Beverly Wright [beverlyw@dscej.org]; moniqueh@dscej.org; mroberts [mroberts@comingcleaninc.org]; DianeT@environmentalhealth.org; djwil51[Ex. 6] ientomg[Ex. 6] jose.bravo.jta[Ex. 6] jose@just-transition.org; kwasserman@lvejo.org; ejcoalition.michigan[Ex. 6] jnwomack1[Ex. 6] Angelo Logan [alogan@oxy.edu]; tljslc[Ex. 6] AliM@nwf.org; newalphacdc[Ex. 6] Leownaconsulting[Ex. 6] huy@opalpdx.org; poder.austin[Ex. 6]; mychaljohnson[Ex. 6] jinewmexico[Ex. 6] Ana.parras[Ex. 6] parras.juan[Ex. 6] Harambee[Ex. 6] swilson2 [swilson2@umd.edu]; elizabeth@uprose.org; kerene@weact.org; peggy@weact.org; Na'Taki Jelks [nojelks@wawa-online.org]; wera1usa[Ex. 6] interfaith.earth[Ex. 6] drrobertbullard [drrobertbullard[Ex. 6]; scharoldmitchell[Ex. 6]; vmiller-travis@metgroup.com; ktegland[Ex. 6] ktegland51[Ex. 6]; Fine, Philip [Fine.Philip@epa.gov]; caitlin.weact[Ex. 6] Programs@blackmillennials4flint.org; Carlton Poindexter [[Ex. 6]; Efron, Brent [Efron.Brent@epa.gov]; Robinson, Victoria [Robinson.Victoria@epa.gov]; mmabson@earthjustice.org; Laura Sullivan [lsulliva@kettering.edu]; fstebb01@baker.edu; nayyirah.shariff[Ex. 6]; etmflint[Ex. 6] eyvonlewis[Ex. 6] lrey52[Ex. 6] mvillarreal@miunited.org; azuccaro@latinxflint.org; brownr23@msu.edu; cllj[Ex. 6] drmiller1225[Ex. 6] monica@wethepeopleofdetroit.com; donele@greendoorinitiative.org; laprisha@detroitenvironmentaljustice.org; drj@empower4people.org; smorduno[Ex. 6] t_landrum0[Ex. 6] nicholas.leonard@glelc.org; eini@miunited.org; vm1962[Ex. 6] dlqueentyree100[Ex. 6] communications@soulardarity.com; rhonda.anderson@sierraclub.org; hamtrilogy[Ex. 6] pmohai@umich.edu; Salah.Ali215[Ex. 6] simonesagovac[Ex. 6] jonwenu14[Ex. 6] Orr, Jeremy [jorr@nrdc.org]; cpyd442[Ex. 6] Dana Johnson [dana@weact.org]; arif@southbronxunite.org; Kim, Eunjung [Kim.Eun@epa.gov]; Carbonell, Tomas [Carbonell.Tomas@epa.gov]; Nunez, Alejandra [Nunez.Alejandra@epa.gov]; Epps-Price, Lena [Epps-Price.Lena@epa.gov]; Wood, Anna [Wood.Anna@epa.gov]; Ndoh, Tina [Ndoh.Tina@epa.gov]; Herbolsheimer, Courtney [herbolsheimer.courtney@epa.gov]; Cherepy, Andrea [Cherepy.Andrea@epa.gov]; Hoyt, Sarita [Hoyt.Sarita@epa.gov]; Wieder, Jessica [Wieder.Jessica@epa.gov]; McMichael, Nate [McMichael.Nate@epa.gov]; Bollerud, Erica [Bollerud.Erica@epa.gov]; Shoaff, John [Shoaff.John@epa.gov]; Lubetsky, Jonathan [Lubetsky.Jonathan@epa.gov]; shimekia@soulardarity.com; Lewis, Sheila [Lewis.Sheila@epa.gov]; Tejada, Matthew [Tejada.Matthew@epa.gov]; Abrahamian, Tanya [abrahamian.tanya@epa.gov]; Donez, Francisco [Donez.Francisco@epa.gov]

Subject: Canceled: Environmental Justice Leaders Monthly Engagement Call
Location: [Ex. 6]

Start: 6/16/2021 6:00:00 PM
End: 6/16/2021 7:30:00 PM
Show Time As: Free

Importance: High

Recurrence: Monthly
the third Wednesday of every 1 month(s) from 2:00 PM to 3:30 PM
Required Attendees: Enobakhare, Rosemary; Cortez Russell, Loni
Optional Attendees: Hiltonkelley5011[Ex. 6] pamela@akaction.org; Vi@akaction.org; miya@apen4ej.org; President@blackmillennials4flint.org; glinon@caleja.org; CEJCoalition[Ex. 6]; newbian8[Ex. 6] nsheats@tesu.edu; blauderdale[Ex. 6] dmolina@cbecal.org; beverlylwright[Ex. 6] beverlyw@dscej.org; moniqueh@dscej.org; mroberts@comingcleaninc.org; DianeT@environmentalhealth.org; djwil51[Ex. 6] ientomg[Ex. 6] jose.bravo.jta[Ex. 6] jose@just-transition.org; kwasserman@lvejo.org; ejcoalition.michigan[Ex. 6] jnwomack1[Ex. 6]; alogan@oxy.edu;

tljslc Ex. 6; AliM@nwf.org; newalphacd Ex. 6; Leownaconsultin Ex. 6; huy@opalpdx.org; poder.austin Ex. 6; mychaljohnson Ex. 6; jinewmexico Ex. 6; Ana.parras Ex. 6; parras.juan Ex. 6; Harambee Ex. 6; swilson2@umd.edu; elizabeth@uprose.org; kerene@weact.org; peggy@weact.org; Na'Taki Jelks; wera1usa Ex. 6; interfaith.earth Ex. 6; drrobertbullard Ex. 6; scharoldmitchell Ex. 6; vmiller-travis@metgroup.com; ktegland Ex. 6; ktegland51 Ex. 6; Fine, Philip; caitlin.weact Ex. 6; Programs@blackmillennials4flint.org; Carlton Poindexter; Efron, Brent; Robinson, Victoria; mmabson@earthjustice.org; lsulliva@kettering.edu; fstebb01@baker.edu; nayyirah.shariff Ex. 6; etmflint Ex. 6; eyvonlewis Ex. 6; lrey52 Ex. 6; mvillarreal@miunited.org; azuccaro@latinxflint.org; brownr23@msu.edu; cllj Ex. 6; drmiller1225 Ex. 6; monica@wethepeopleofdetroit.com; donele@greendoorinitiative.org; laprisha@detroitenvironmentaljustice.org; drj@empower4people.org; smorduno Ex. 6; t_landrum05 Ex. 6; nicholas.leonard@glelc.org; eini@miunited.org; vm1962 Ex. 6; dlqueentyree100 Ex. 6; communications@soulardarity.com; rhonda.anderson@sierraclub.org; hamtrilogy Ex. 6; pmohai@umich.edu; Salah.Ali215 Ex. 6; simonesagovac Ex. 6; jonwenu14 Ex. 6; jorr@nrdc.org; cpyd442 Ex. 6; Dana Johnson; arif@southbronxunite.org; Kim, Eunjung; Carbonell, Tomas; Nunez, Alejandra; Epps-Price, Lena; Wood, Anna; Ndoh, Tina; Herbolsheimer, Courtney; Cherepy, Andrea; Hoyt, Sarita; Wieder, Jessica; McMichael, Nate; Bollerud, Erica; Shoaff, John; Lubetsky, Jonathan; shimekia@soulardarity.com; Lewis, Sheila; Tejada, Matthew; Abrahamian, Tanya; Donez, Francisco

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(US East)
Meeting ID: Ex. 6

Appointment

From: Levy, Maxwell [Levy.Maxwell@epa.gov]
Sent: 10/19/2021 9:48:20 PM
To: Enobakhare, Rosemary [Enobakhare.Rosemary@epa.gov]; Cortez Russell, Loni [Russell.Loni@epa.gov]
CC: vmiller-travis@metgroup.com; miya@apen4ej.org; smorduno Ex. 6; Carbonell, Tomas [Carbonell.Tomas@epa.gov]; nicholas.leonard@glelc.org; simonesagovac Ex. 6 Hiltonkelley5011 Ex. 6; pamela@akaction.org; Viola Waghiyi [vi@akaction.org]; LaTricea Adams [president@blackmillennials4flint.org]; glinon@caleja.org; CEJCoalition Ex. 6 newbian8 Ex. 6; nsheats@tesu.edu; blauderdale Ex. 6 dmolina@cbecal.org; beverlylwright Ex. 6; Beverly Wright [beverlyw@dscej.org]; moniqueh@dscej.org; mroberts [mroberts@comingcleaninc.org]; DianeT@environmentalhealth.org; djwil51 Ex. 6 ientomg Ex. 6 jose.bravo.jta Ex. 6 jose@just-transition.org; kwasserman@lvejo.org; ejcoalition.michigan Ex. 6 jnwomack1 Ex. 6; Angelo Logan [alogan@oxy.edu]; tljsl Ex. 6 AliM@nwf.org; newalphacdc Ex. 6 Leownaconsulting Ex. 6 huy@opalpdx.org; poder.austin [poder.austin Ex. 6; mychaljohnson Ex. 6; jinewmexico Ex. 6; Ana.parras Ex. 6 parras.juan Ex. 6 Harambee Ex. 6 swilson2 [swilson2@umd.edu]; elizabeth@uprose.org; kerene@weact.org; peggy@weact.org; Na'Taki Jelks [nojelks@wawa-online.org]; wera1usa Ex. 6 interfaith.earth Ex. 6 drrobertbullard Ex. 6; scharoldmitchell Ex. 6; ktegland Ex. 6 ktegland51 Ex. 6 Fine, Philip [Fine.Philip@epa.gov]; caitlin.weact Ex. 6; Programs@blackmillennials4flint.org; Carlton Poindexter [Ex. 6; Efron, Brent [Efron.Brent@epa.gov]; Robinson, Victoria [Robinson.Victoria@epa.gov]; mmabson@earthjustice.org; Laura Sullivan [lsulliva@kettering.edu]; fstebb01@baker.edu; nayyirah.shariff Ex. 6; etmflint Ex. 6 eyvonlewis Ex. 6 lrey52 Ex. 6 mvillarreal@miunited.org; azuccaro@latinxflint.org; brownr23@msu.edu; cllj Ex. 6 drmiller1225 Ex. 6; monica@wethepeopleofdetroit.com; donele@greendoorinitiative.org; laprisha@detroitenvironmentaljustice.org; drj@empower4people.org; t_landrum05 Ex. 6 eini@miunited.org; vm1962 Ex. 6 dlqueentyree100 Ex. 6 communications@soulardarity.com; rhonda.anderson@sierraclub.org; hamtrilogy Ex. 6 pmohai@umich.edu; Salah.Ali215 Ex. 6 jonwenu14 Ex. 6 Orr, Jeremy [jorr@nrdc.org]; cpyd442 Ex. 6 Dana Johnson [dana@weact.org]; arif@southbronxunite.org; Kim, Eunjung [Kim.Eun@epa.gov]; Nunez, Alejandra [Nunez.Alejandra@epa.gov]; Epps-Price, Lena [Epps-Price.Lena@epa.gov]; Wood, Anna [Wood.Anna@epa.gov]; Ndoh, Tina [Ndoh.Tina@epa.gov]; Herbolsheimer, Courtney [herbolsheimer.courtney@epa.gov]; Cherepy, Andrea [Cherepy.Andrea@epa.gov]; Hoyt, Sarita [Hoyt.Sarita@epa.gov]; Wieder, Jessica [Wieder.Jessica@epa.gov]; McMichael, Nate [McMichael.Nate@epa.gov]; Bollerud, Erica [Bollerud.Erica@epa.gov]; Shoaff, John [Shoaff.John@epa.gov]; Lubetsky, Jonathan [Lubetsky.Jonathan@epa.gov]; shimekia@soulardarity.com; Lewis, Sheila [Lewis.Sheila@epa.gov]; Tejada, Matthew [Tejada.Matthew@epa.gov]; Abrahamian, Tanya [abrahamian.tanya@epa.gov]; Donez, Francisco [Donez.Francisco@epa.gov]

Subject: Canceled: Environmental Justice Leaders Monthly Engagement Call
Location: Ex. 6

Start: 10/20/2021 6:00:00 PM
End: 10/20/2021 7:30:00 PM
Show Time As: Free

Importance: High

Recurrence: Monthly
the third Wednesday of every 1 month(s) from 2:00 PM to 3:30 PM
Required Attendees: Enobakhare, Rosemary; Cortez Russell, Loni
Optional Attendees: vmiller-travis@metgroup.com; miya@apen4ej.org; smorduno Ex. 6 Carbonell, Tomas; nicholas.leonard@glelc.org; simonesagovac Ex. 6 Hiltonkelley5011 Ex. 6 pamela@akaction.org; Vi@akaction.org; President@blackmillennials4flint.org; glinon@caleja.org; CEJCoalition Ex. 6 newbian8 Ex. 6 nsheats@tesu.edu; blauderdale Ex. 6 dmolina@cbecal.org; beverlylwright Ex. 6 beverlyw@dscej.org; moniqueh@dscej.org; mroberts@comingcleaninc.org; DianeT@environmentalhealth.org; djwil51 Ex. 6 ientomg Ex. 6 jose.bravo.jta Ex. 6 jose@just-

transition.org; kwasserman@lvejo.org; ejcoalition.michigan[Ex. 6] jnwomack1[Ex. 6] alogan@oxy.edu; tljslc[Ex. 6] AliM@nwf.org; newalphacdc[Ex. 6] Leownaconsulting[Ex. 6] huy@opalpdx.org; poder.austin[Ex. 6]; mychaljohnson[Ex. 6] jinewmexico[Ex. 6] Ana.parras[Ex. 6] parras.juan[Ex. 6] Harambee[Ex. 6] swilson2@umd.edu; elizabeth@uprose.org; kerene@weact.org; peggy@weact.org; Na'Taki Jelks; wera1usa[Ex. 6]; interfaith.earth[Ex. 6] drrobertbullard[Ex. 6] scharoldmitchell[Ex. 6]; ktegland[Ex. 6] ktegland51[Ex. 6] Fine, Philip; caitlin.weact[Ex. 6] Programs@blackmillennials4flint.org; Carlton Poindexter; Efron, Brent; Robinson, Victoria; mmabson@earthjustice.org; lsulliva@kettering.edu; fstebb01@baker.edu; nayyirah.shariff[Ex. 6] etmflint[Ex. 6] eyvonlewis[Ex. 6] lrey52[Ex. 6] mvillarreal@miunited.org; azuccaro@latinxflint.org; brownr23@msu.edu; cllj[Ex. 6] drmiller1225[Ex. 6] monica@wethepeopleofdetroit.com; donele@greendoorinitiative.org; laprisha@detroitenvironmentaljustice.org; drj@empower4people.org; t_landrum05[Ex. 6] eini@miunited.org; vm1962[Ex. 6] dlqueentyree100[Ex. 6] communications@soulardarity.com; rhonda.anderson@sierraclub.org; hamtrilogy[Ex. 6]; pmohai@umich.edu; Salah.Ali215[Ex. 6] jonwenu14[Ex. 6] jorr@nrdc.org; cpyd442[Ex. 6] Dana Johnson; arif@southbronxunite.org; Kim, Eunjung; Nunez, Alejandra; Epps-Price, Lena; Wood, Anna; Ndoh, Tina; Herbolsheimer, Courtney; Cherepy, Andrea; Hoyt, Sarita; Wieder, Jessica; McMichael, Nate; Bollerud, Erica; Shoaff, John; Lubetsky, Jonathan; shimekia@soulardarity.com; Lewis, Sheila; Tejada, Matthew; Abrahamian, Tanya; Donez, Francisco

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Appointment

From: Levy, Maxwell [Levy.Maxwell@epa.gov]
Sent: 10/19/2021 9:48:21 PM
To: Cortez Russell, Loni [Russell.Loni@epa.gov]; Enobakhare, Rosemary [Enobakhare.Rosemary@epa.gov]
CC: Beverly Wright [beverlyw@dscej.org]; Efron, Brent [Efron.Brent@epa.gov]; monica@wethepeopleofdetroit.com; eini@miunited.org; mvillarreal@miunited.org; nayyirah.shariff[Ex. 6] lrey52[Ex. 6] drj@empower4people.org; pmohai@umich.edu; Orr, Jeremy [jorr@nrdc.org]; Tejada, Matthew [Tejada.Matthew@epa.gov]; etmflint[Ex. 6] vm1962[Ex. 6] Hiltonkelley5011[Ex. 6] pamela@akaction.org; Viola Waghiyi [vi@akaction.org]; miya@apen4ej.org; LaTricea Adams [president@blackmillennials4flint.org]; glinon@caleja.org; CEJCoalition[Ex. 6] newbian8 [n[Ex. 6]]; nsheats@tesu.edu; blauderdale[Ex. 6] dmolina@cbecal.org; beverlylwright[Ex. 6] moniqueh@dscej.org; mroberts [mroberts@comingcleaninc.org]; DianeT@environmentalhealth.org; djwil51[Ex. 6] ientomg[Ex. 6] jose.bravo.jta[Ex. 6]; jose@just-transition.org; kwasserman@lvejo.org; ejcoalition.michigan[Ex. 6] jnwomack1[Ex. 6] Angelo Logan [alogan@oxy.edu]; tljslc[Ex. 6]; AliM@nwf.org; newalphacdc[Ex. 6]; Leownaconsulting[Ex. 6] huy@opalpdx.org; poder.austin [poder.austin[Ex. 6]; mychaljohnson[Ex. 6] jinewmexico[Ex. 6] Ana.parras[Ex. 6] parras.juan[Ex. 6] Harambee[Ex. 6] swilson2 [swilson2@umd.edu]; elizabeth@uprose.org; kerene@weact.org; peggy@weact.org; Na'Taki Jelks [nojelks@wawa-online.org]; wera1usa[Ex. 6] interfaith.earth[Ex. 6] drrobertbullard [[Ex. 6]]; scharoldmitchell [[Ex. 6]]; vmiller-travis@metgroup.com; ktegland[Ex. 6] ktegland51[Ex. 6] Fine, Philip [Fine.Philip@epa.gov]; caitlin.weact[Ex. 6] Programs@blackmillennials4flint.org; Carlton Poindexter [[Ex. 6]]; Robinson, Victoria [Robinson.Victoria@epa.gov]; mmabson@earthjustice.org; Laura Sullivan [lsulliva@kettering.edu]; fstebb01@baker.edu; eyvonlewis[Ex. 6] azuccaro@latinxflint.org; brownr23@msu.edu; cll[Ex. 6] drmiller1225[Ex. 6] donele@greendoorinitiative.org; laprisha@detroitenvironmentaljustice.org; smorduno[Ex. 6]; t_landrum05[Ex. 6] nicholas.leonard@glelc.org; dlqueentyree100[Ex. 6] communications@soulardarity.com; rhonda.anderson@sierraclub.org; hamtrilogy[Ex. 6] Salah.Ali215[Ex. 6] simonesagovac[Ex. 6] jonwenu14[Ex. 6] cpyd442[Ex. 6] Dana Johnson [dana@weact.org]; arif@southbronxunite.org; Kim, Eunjung [Kim.Eun@epa.gov]; Carbonell, Tomas [Carbonell.Tomas@epa.gov]; Nunez, Alejandra [Nunez.Alejandra@epa.gov]; Epps-Price, Lena [Epps-Price.Lena@epa.gov]; Wood, Anna [Wood.Anna@epa.gov]; Ndoh, Tina [Ndoh.Tina@epa.gov]; Herbolsheimer, Courtney [herbolsheimer.courtney@epa.gov]; Cherepy, Andrea [Cherepy.Andrea@epa.gov]; Hoyt, Sarita [Hoyt.Sarita@epa.gov]; Wieder, Jessica [Wieder.Jessica@epa.gov]; McMichael, Nate [McMichael.Nate@epa.gov]; Bollerud, Erica [Bollerud.Erica@epa.gov]; Shoaff, John [Shoaff.John@epa.gov]; Lubetsky, Jonathan [Lubetsky.Jonathan@epa.gov]; shimekia@soulardarity.com; Lewis, Sheila [Lewis.Sheila@epa.gov]; Abrahamian, Tanya [abrahamian.tanya@epa.gov]; Donez, Francisco [Donez.Francisco@epa.gov]

Subject: Canceled: Environmental Justice Leaders Monthly Engagement Call
Location: [Ex. 6]

Start: 11/17/2021 7:00:00 PM
End: 11/17/2021 8:30:00 PM
Show Time As: Free

Importance: High

Recurrence: Monthly
the third Wednesday of every 1 month(s) from 2:00 PM to 3:30 PM
Required Attendees: Russell, Loni; Enobakhare, Rosemary
Optional Attendees: beverlyw@dscej.org; Efron, Brent; monica@wethepeopleofdetroit.com; eini@miunited.org; mvillarreal@miunited.org; nayyirah.shariff[Ex. 6] lrey52[Ex. 6] drj@empower4people.org; pmohai@umich.edu; jorr@nrdc.org; Tejada, Matthew; etmflint[Ex. 6] vm1962[Ex. 6] Hiltonkelley5011[Ex. 6] pamela@akaction.org; Vi@akaction.org; miya@apen4ej.org; President@blackmillennials4flint.org; glinon@caleja.org; CEJCoalition[Ex. 6]; newbian8[Ex. 6] nsheats@tesu.edu; blauderdale[Ex. 6] dmolina@cbecal.org; beverlylwright[Ex. 6] moniqueh@dscej.org; mroberts@comingcleaninc.org; DianeT@environmentalhealth.org; djwil51[Ex. 6]

ientomg Ex. 6 jose.bravo.jta Ex. 6 jose@just-transition.org; kwasserman@lvejo.org; ejcoalition.michigan Ex. 6 jnwomack1 Ex. 6 alogan@oxy.edu; tljslc Ex. 6 AliM@nwf.org; newalphacdc Ex. 6 Leownaconsulting Ex. 6 huy@opalpdx.org; poder.austin Ex. 6 mychaljohnson Ex. 6 ; jinewmexico Ex. 6 Ana.parras Ex. 6 parras.juan Ex. 6 Harambee Ex. 6 swilson2@umd.edu; elizabeth@uprose.org; kerene@weact.org; peggy@weact.org; Na'Taki Jelks; wera1usa Ex. 6 interfaith.earth Ex. 6 drrobertbullard Ex. 6 scharoldmitchell Ex. 6 vmiller-travis@metgroup.com; ktegland Ex. 6 ktegland51 Ex. 6 Fine, Philip; caitlin.weact Ex. 6 Programs@blackmillennials4flint.org; Carlton Poindexter; Robinson, Victoria; mmabson@earthjustice.org; lsulliva@kettering.edu; fstebb01@baker.edu; eyvonlewis Ex. 6 azuccaro@latinxflint.org; brownr23@msu.edu; cllj Ex. 6 drmiller1225 Ex. 6 donele@greendoorinitiative.org; laprisha@detroitenvironmentaljustice.org; smorduno Ex. 6 t_landrum05 Ex. 6 ; nicholas.leonard@glelc.org; dlqueentyree100 Ex. 6 communications@soulardarity.com; rhonda.anderson@sierraclub.org; hamtrilogy Ex. 6 Salah.Ali215 Ex. 6 simonesagovac Ex. 6 jonwenu14 Ex. 6 ; cpyd442 Ex. 6 Dana Johnson; arif@southbronxunite.org; Kim, Eunjung; Carbonell, Tomas; Nunez, Alejandra; Epps-Price, Lena; Wood, Anna; Ndoh, Tina; Herbolsheimer, Courtney; Cherepy, Andrea; Hoyt, Sarita; Wieder, Jessica; McMichael, Nate; Bollerud, Erica; Shoaff, John; Lubetsky, Jonathan; shimekia@soulardarity.com; Lewis, Sheila; Abrahamian, Tanya; Donez, Francisco

Maxwell Levy is inviting you to a scheduled ZoomGov meeting.

Join ZoomGov Meeting
Ex. 6

Meeting ID: Ex. 6
One tap mobile
Ex. 6 US (San Jose)
US

Dial by your location
Ex. 6 US (San Jose)
US
US (New York)
US (San Jose)
Meeting ID: Ex. 6
Find your local number: Ex. 6

Join by SIP
Ex. 6

Join by H.323
Ex. 6 (US West)
(US East)
Meeting ID: Ex. 6

Appointment

From: Vickie Patton [vpatton@edf.org]
Sent: 10/20/2021 3:40:58 PM
To: Nunez, Alejandra [Nunez.Alejandra@epa.gov]

Subject: Accepted: [EXTERNAL] Meeting with EDF re: Clean Transportation
Location: Microsoft Teams Meeting

Start: 10/20/2021 4:30:00 PM
End: 10/20/2021 5:00:00 PM
Show Time As: Busy

Recurrence: (none)

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Appointment

From: Longstreth, Ben [blongstreth@nrdc.org]
Sent: 3/9/2021 8:26:13 PM
To: Nunez, Alejandra [Nunez.Alejandra@epa.gov]

Subject: Accepted: Light-, Medium- and Heavy-duty Vehicle and Fuel Standards
Location: Microsoft Teams Meeting

Start: 3/19/2021 5:00:00 PM
End: 3/19/2021 5:30:00 PM
Show Time As: Busy

Recurrence: (none)

Appointment

From: Tonachel, Luke [Ltonachel@nrdc.org]
Sent: 3/9/2021 8:24:51 PM
To: Nunez, Alejandra [Nunez.Alejandra@epa.gov]

Subject: Accepted: Light-, Medium- and Heavy-duty Vehicle and Fuel Standards
Location: Microsoft Teams Meeting

Start: 3/19/2021 5:00:00 PM
End: 3/19/2021 5:30:00 PM
Show Time As: Busy

Recurrence: (none)

Appointment

From: Campbell, Ann [Campbell.Ann@epa.gov]
on behalf of Goffman, Joseph [Goffman.Joseph@epa.gov]
Sent: 3/16/2021 12:38:20 PM
To: Nunez, Alejandra [Nunez.Alejandra@epa.gov]; Dunham, Sarah [Dunham.Sarah@epa.gov]; Vickie Patton [vpatton@edf.org]; Chester France Ex. 6 pzalzal@edf.org; Kim, Eun [Kim.Eun@epa.gov]

Subject: Meeting with Environmental Defense Fund re: Air Standards for Light, Medium and Heavy Duty Vehicles
Attachments: RE: [EXTERNAL] FW: Clean Cars Meeting Request; External meeting request_March 15 2021.docx
Location: Microsoft Teams Meeting

Start: 3/30/2021 7:00:00 PM
End: 3/30/2021 7:30:00 PM
Show Time As: Tentative

Required Attendees: Nunez, Alejandra; Dunham, Sarah; Vickie Patton; Chester France; pzalzal@edf.org; Kim, Eun

RE: [EXTERNAL] FW: Clean Cars ... External meeting request_March 1...

Microsoft Teams meeting

Join on your computer or mobile app
Click here to join the meeting
Or call in (audio only)
Ex. 6 United States, Washington DC
Phone Conference ID: Ex. 6
Find a local number | Reset PIN
By participating in EPA hosted virtual meetings and events, you are consenting to abide by the agency's terms of use. In addition, you acknowledge that content you post may be collected and used in support of FOIA and eDiscovery activities.
Learn More | Meeting options

Appointment

From: Hwang, Roland [rhwang@nrdc.org]
Sent: 3/18/2021 9:02:05 PM
To: Nunez, Alejandra [Nunez.Alejandra@epa.gov]

Subject: Accepted: Light-, Medium- and Heavy-duty Vehicle and Fuel Standards with Natural Resources Defense Council
Location: Microsoft Teams Meeting

Start: 3/19/2021 5:00:00 PM
End: 3/19/2021 5:30:00 PM
Show Time As: Busy

Recurrence: (none)

Appointment

From: Kristin Brainerd [kristin.brainerd@caelp.org]
Sent: 8/4/2021 3:42:12 PM
To: Nunez, Alejandra [Nunez.Alejandra@epa.gov]

Subject: Accepted: Meeting with CAELP re: Future vehicle emission standards
Location: Microsoft Teams Meeting

Start: 8/4/2021 7:30:00 PM
End: 8/4/2021 8:00:00 PM
Show Time As: Busy

Recurrence: (none)

Appointment

From: Levy, Maxwell [Levy.Maxwell@epa.gov]
Sent: 8/20/2021 1:31:08 PM
To: Levy, Maxwell [Levy.Maxwell@epa.gov]; Enobakhare, Rosemary [Enobakhare.Rosemary@epa.gov]; Cortez Russell, Loni [Russell.Loni@epa.gov]
CC: Hiltonkelley5011[Ex. 6] pamela@akaction.org; Viola Waghiyi [vi@akaction.org]; miya@apen4ej.org; LaTricea Adams [president@blackmillennials4flint.org]; glinon@caleja.org; CEJCoalition[Ex. 6] newbian8[Ex. 6] nsheats@tesu.edu; blauderdale[Ex. 6] dmolina@cbecal.org; beverlylwrigh[Ex. 6] Beverly Wright [beverlyw@dscej.org]; moniqueh@dscej.org; mroberts [mroberts@comingcleaninc.org]; DianeT@environmentalhealth.org; djwil51[Ex. 6] ientomg[Ex. 6] jose.bravo.jta[Ex. 6] jose@just-transition.org; kwasserman@lvejo.org; ejcoalition.michigan[Ex. 6] jnwomack1[Ex. 6] Angelo Logan [alogan@oxy.edu]; tljslc[Ex. 6] AliM@nwf.org; newalphacdc[Ex. 6] Leownaconsulting[Ex. 6] huy@opalpdx.org; poder.austin[Ex. 6]; mychaljohnson[Ex. 6] jinewmexico[Ex. 6] Ana.parras[Ex. 6] parras.juan[Ex. 6] Harambee[Ex. 6] swilson2 [swilson2@umd.edu]; elizabeth@uprose.org; kerene@weact.org; peggy@weact.org; Na'Taki Jelks [nojelks@wawa-online.org]; wera1usa[Ex. 6] interfaith.earth[Ex. 6] drrobertbullard [Ex. 6]; scharoldmitchell [Ex. 6] vmiller-travis@metgroup.com; ktegland[Ex. 6] ktegland51[Ex. 6]; Fine, Philip [Fine.Philip@epa.gov]; caitlin.weact[Ex. 6] Programs@blackmillennials4flint.org; Carlton Poindexter [carltonpoindexter[Ex. 6]; Efron, Brent [Efron.Brent@epa.gov]; Robinson, Victoria [Robinson.Victoria@epa.gov]; mmabson@earthjustice.org; Laura Sullivan [lsulliva@kettering.edu]; fstebb01@baker.edu; nayyirah.sharif[Ex. 6]; etmflint[Ex. 6]; eyvonlewi[Ex. 6] lrey52[Ex. 6] mvillarreal@miunited.org; azuccaro@latinxflint.org; brownr23@msu.edu; cllj[Ex. 6] drmiller1225[Ex. 6]; monica@wethepeopleofdetroit.com; donele@greendoorinitiative.org; laprisha@detroitenvironmentaljustice.org; drj@empower4people.org; smorduno [Ex. 6]; t_landrum05[Ex. 6] nicholas.leonard@glelc.org; eini@miunited.org; vm1962[Ex. 6] dlqueentyree100[Ex. 6] communications@soulardarity.com; rhonda.anderson@sierraclub.org; hamtrilogy[Ex. 6] pmohai@umich.edu; Salah.Ali215[Ex. 6] simonesagovac[Ex. 6] jonwenu14[Ex. 6] Orr, Jeremy [jorr@nrdc.org]; cpyd442[Ex. 6] Dana Johnson [dana@weact.org]; arif@southbronxunite.org; Kim, Eunjung [Kim.Eun@epa.gov]; Carbonell, Tomas [Carbonell.Tomas@epa.gov]; Nunez, Alejandra [Nunez.Alejandra@epa.gov]; Epps-Price, Lena [Epps-Price.Lena@epa.gov]; Wood, Anna [Wood.Anna@epa.gov]; Ndoh, Tina [Ndoh.Tina@epa.gov]; Herbolsheimer, Courtney [herbolsheimer.courtney@epa.gov]; Cherepy, Andrea [Cherepy.Andrea@epa.gov]; Hoyt, Sarita [Hoyt.Sarita@epa.gov]; Wieder, Jessica [Wieder.Jessica@epa.gov]; McMichael, Nate [McMichael.Nate@epa.gov]; Bollerud, Erica [Bollerud.Erica@epa.gov]; Shoaff, John [Shoaff.John@epa.gov]; Lubetsky, Jonathan [Lubetsky.Jonathan@epa.gov]; shimekia@soulardarity.com; Lewis, Sheila [Lewis.Sheila@epa.gov]; Tejada, Matthew [Tejada.Matthew@epa.gov]; Abrahamian, Tanya [abrahamian.tanya@epa.gov]; Donez, Francisco [Donez.Francisco@epa.gov]

Subject: Canceled: Environmental Justice Leaders Monthly Engagement Call
Location: [Ex. 6]

Start: 6/16/2021 6:00:00 PM
End: 6/16/2021 7:30:00 PM
Show Time As: Free

Importance: High

Recurrence: Monthly
the third Wednesday of every 1 month(s) from 2:00 PM to 3:30 PM
Required Attendees: Enobakhare, Rosemary; Cortez Russell, Loni
Optional Attendees: Hiltonkelley5011[Ex. 6] pamela@akaction.org; Vi@akaction.org; miya@apen4ej.org; President@blackmillennials4flint.org; glinon@caleja.org; CEJCoalition[Ex. 6] newbian8[Ex. 6] nsheats@tesu.edu; blauderdale[Ex. 6] dmolina@cbecal.org; beverlylwright[Ex. 6] beverlyw@dscej.org; moniqueh@dscej.org; mroberts@comingcleaninc.org; DianeT@environmentalhealth.org; djwil51[Ex. 6] ientomg[Ex. 6] jose.bravo.jta[Ex. 6] jose@just-transition.org;

kwasserman@lvejo.org; ejcoalition.michigan[Ex. 6]jnwomack1[Ex. 6]; alogan@oxy.edu; tljslc[Ex. 6]AliM@nwf.org; newalphacdc[Ex. 6]; Leownaconsulting[Ex. 6]; huy@opalpdx.org; poder.austin[Ex. 6]; mychaljohnson[Ex. 6]jinewmexico[Ex. 6]Ana.parras[Ex. 6] parras.juan[Ex. 6]; Harambee[Ex. 6]swilson2@umd.edu; elizabeth@uprose.org; kerene@weact.org; peggy@weact.org; Na'Taki Jelks; wera1usa[Ex. 6]interfaith.earth[Ex. 6]; drrobertbullard[Ex. 6] scharoldmitchell[Ex. 6]; vmiller-travis@metgroup.com; ktegland[Ex. 6]ktegland51[Ex. 6]; Fine, Philip; caitlin.weact[Ex. 6]; Programs@blackmillennials4flint.org; Carlton Poindexter; Efron, Brent; Robinson, Victoria; mmabson@earthjustice.org; lsulliva@kettering.edu; fstebb01@baker.edu; nayyirah.shariff[Ex. 6] etmflint[Ex. 6]eyvonlewis[Ex. 6]lrey52[Ex. 6]mvillarreal@miunited.org; azuccaro@latinxflint.org; brownr23@msu.edu; cllj[Ex. 6]; drmiller1225[Ex. 6] monica@wethepeopleofdetroit.com; donele@greendoorinitiative.org; laprisha@detroitenvironmentaljustice.org; drj@empower4people.org; smorduno[Ex. 6]t_landrum05[Ex. 6]nicholas.leonard@glelc.org; eini@miunited.org; vm1962[Ex. 6]dlqueentyree100[Ex. 6]communications@soulardarity.com; rhonda.anderson@sierraclub.org; hamtrilogy[Ex. 6]; pmohai@umich.edu; Salah.Ali215[Ex. 6] simonesagovac[Ex. 6]jonwenu14[Ex. 6]jorr@nrdc.org; cpyd442[Ex. 6]; Dana Johnson; arif@southbronxunite.org; Kim, Eunjung; Carbonell, Tomas; Nunez, Alejandra; Epps-Price, Lena; Wood, Anna; Ndoh, Tina; Herbolsheimer, Courtney; Cherepy, Andrea; Hoyt, Sarita; Wieder, Jessica; McMichael, Nate; Bollerud, Erica; Shoaff, John; Lubetsky, Jonathan; shimekia@soulardarity.com; Lewis, Sheila; Tejada, Matthew; Abrahamian, Tanya; Donez, Francisco

Maxwell Levy is inviting you to a scheduled ZoomGov meeting.

Join ZoomGov Meeting
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One tap mobile
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Ex. 6 US (San Jose)
US
US (New York)
US (San Jose)
Meeting ID: Ex. 6
Find your local number: Ex. 6

Join by SIP
Ex. 6

Join by H.323
Ex. 6 (US West)
(US East)
Meeting ID: Ex. 6

Appointment

From: Amanda Hsiung [ahsiung@cacampaign.com]
Sent: 9/30/2021 9:28:35 PM
To: Amanda Hsiung [ahsiung@cacampaign.com]; Cassady, Alison [Cassady.Alison@epa.gov]; Utech, Dan [Utech.Dan@epa.gov]; Enobakhare, Rosemary [Enobakhare.Rosemary@epa.gov]; Kim Alfred [kalfred@cacampaign.com]; Margie Alt [malt@cacampaign.com]; Rose Garr [rgarr@cacampaign.com]; Jessica Ennis [jennis@earthjustice.org]; Marty Hayden [mhayden@earthjustice.org]; csantillana@earthjustice.org; Derek Murrow [dmurrow@nrdc.org]; ddoniger@nrdc.org; Jackie Wong [Jackie.Wong@nrdc.org]; jhamilton@ucsusa.org; Carol Andress [candress@edf.org]; Zachary Fabish [zachary.fabish@sierraclub.org]; Laura Kate Bender [laura.bender@lung.org]; Paul Billings [paul.billings@lung.org]; Anastasia Gordon [anastasia@weact.org]; thiggins@americanprogress.com; mjohnson@nhmamd.org; Matt Casale [mcasale@environmentamerica.org]; Shannon Heyck-Williams [heyckwilliamss@nwf.org]; rwinn@edf.org
CC: anastasia.weact Ex. 6

Subject: CAC | EPA
Location: Ex. 6

Start: 10/1/2021 4:00:00 PM
End: 10/1/2021 5:00:00 PM
Show Time As: Tentative

-----Original Appointment-----
From: Amanda Hsiung <ahsiung@cacampaign.com>
Sent: Tuesday, September 28, 2021 2:43 PM
To: Amanda Hsiung; Enobakhare, Rosemary; Kim Alfred; Margie Alt; Rose Garr; Jessica Ennis; Marty Hayden; csantillana@earthjustice.org; Derek Murrow; ddoniger@nrdc.org; Jackie Wong; jhamilton@ucsusa.org; Carol Andress; Zachary Fabish; Laura Kate Bender; Paul Billings; Anastasia Gordon; thiggins@americanprogress.com; mjohnson@nhmamd.org; Matt Casale; Shannon Heyck-Williams; rwinn@edf.org
Cc: anastasia.weact Ex. 6
Subject: CAC | EPA
When: Friday, October 1, 2021 12:00 PM-1:00 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Ex. 6

From: ahsiung@cacampaign.com
When: 12:00 PM - 1:00 PM October 1, 2021
Subject: CAC | EPA
Location: Ex. 6

Topic: EPA | CAC
Time: Oct 1, 2021 12:00 PM Eastern Time (US and Canada)

Join Zoom Meeting
Ex. 6

Meeting ID: Ex. 6

Passcode: Ex. 6

One tap mobile

Ex. 6

US (New York)
US (Washington DC)

Dial by your location

Ex. 6

US (New York)
US (Washington DC)
US (Chicago)
US (San Jose)
US (Tacoma)
US (Houston)

Meeting ID: Ex. 6

Passcode: Ex. 6

Find your local number: Ex. 6

Appointment

From: Utech, Dan [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=355649ab49d340e7ab667e52a9cee6a9-Utech, Dan]
Sent: 10/4/2021 1:47:43 PM
To: Wong, Jackie [Jackie.Wong@nrdc.org]

Subject: Accepted: Dan/Jackie Call
Location: Microsoft Teams Meeting

Start: 10/4/2021 8:30:00 PM
End: 10/4/2021 8:45:00 PM
Show Time As: Busy

Appointment

From: Utech, Dan [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=355649AB49D340E7AB667E52A9CEE6A9-UTECH, DAN]
Sent: 1/24/2021 3:44:37 PM
To: Lazarus, Richard [lazarus@law.harvard.edu]

Subject: Accepted: Meeting with Dan Utecht
Location: Ex. 6

Start: 1/24/2021 8:00:00 PM
End: 1/24/2021 8:30:00 PM

Recurrence: (none)

Appointment

From: Utech, Dan [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=355649ab49d340e7ab667e52a9cee6a9-Utech, Dan]
Sent: 4/12/2021 6:57:57 PM
To: Wong, Jackie [Jackie.Wong@nrdc.org]

Subject: Accepted: Dan/Jackie Call
Location: Microsoft Teams Meeting

Start: 4/13/2021 1:00:00 PM
End: 4/13/2021 1:30:00 PM
Show Time As: Busy

Appointment

From: Wong, Jackie [Jackie.Wong@nrdc.org]
Sent: 10/4/2021 1:46:56 PM
To: Utech, Dan [Utech.Dan@epa.gov]

Subject: Dan/Jackie Call
Location: Microsoft Teams Meeting

Start: 10/4/2021 8:30:00 PM
End: 10/4/2021 8:45:00 PM
Show Time As: Tentative

Recurrence: (none)

Microsoft Teams meeting

Join on your computer or mobile app
Click here to join the meeting

Join with a video conferencing device
Ex. 6
Video Conference ID: Ex. 6
Alternate VTC instructions

Or call in (audio only)
Ex. 6 United States, Brentwood
Phone Conference ID: Ex. 6
Find a local number | Reset PIN

Learn More | Meeting options

Appointment

From: Cassady, Alison [Cassady.Alison@epa.gov]
on behalf of Jeffrey Schub [jeff@coalitionforgreencapital.com]
Sent: 10/11/2021 1:56:49 PM
To: Utech, Dan [Utech.Dan@epa.gov]

Subject: FW: EPA/CGC Accelerator
Attachments: invite.ics
Location: Ex. 6

Start: 10/15/2021 8:00:00 PM
End: 10/15/2021 8:45:00 PM
Show Time As: Tentative

-----Original Appointment-----
From: Jeffrey Schub <jeff@coalitionforgreencapital.com>
Sent: Monday, October 11, 2021 8:46 AM
To: Jeffrey Schub; Bob Sussman; rehundt Ex. 6 Susan Tierney; Katherine Hamilton; Cassady, Alison
Subject: EPA/CGC Accelerator
When: Friday, October 15, 2021 4:00 PM-4:45 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Ex. 6

You have been invited to the following event.

EPA/CGC Accelerator

When Fri Oct 15, 2021 4pm – 4:45pm Eastern Time - New York

Where Ex. 6

Calendar cassady.alison@epa.gov

Who
- Jeffrey Schub - organizer
- Bob Sussman
- rehundt Ex. 6
- Susan Tierney
- Katherine Hamilton
- cassady.alison@epa.gov

more details »
Jeffrey Schub is inviting you to a scheduled Zoom meeting.

Join Zoom Meeting

Ex. 6

Meeting ID: Ex. 6

Passcode: Ex. 6

One tap mobile

Ex. 6 US (New York)

US (Washington DC)

Dial by your location

Ex. 6 US (New York)

US (Washington DC)

US (Chicago)

US (San Jose)

US (Tacoma)

US (Houston)

Meeting ID: Ex. 6

Find your local number: Ex. 6

Going (cassady.alison@epa.gov)? **Yes** - **Maybe** - **No** more options »

Invitation from Google Calendar

You are receiving this courtesy email at the account cassady.alison@epa.gov because you are an attendee of this event.

To stop receiving future updates for this event, decline this event. Alternatively you can sign up for a Google account at https://calendar.google.com/calendar/ and control your notification settings for your entire calendar.

Forwarding this invitation could allow any recipient to send a response to the organizer and be added to the guest list, or invite others regardless of their own invitation status, or to modify your RSVP. Learn More.

Organizer: Jeffrey Schub : jeff@coalitionforgreencapital.com

Subject: EPA/CGC Accelerator

Location: Ex. 6

Start Time: 2021-10-15T20:00:00Z

End Time: 2021-10-15T20:45:00Z

Attendees: Bob Sussman : Ex. 6 Jeffrey Schub : jeff@coalitionforgreencapital.com, rehundt Ex. 6 : rehundt Ex. 6 Susan Tierney, susan.tierney@analysisgroup.com, Katherine Hamilton : katherine@38northsolutions.com, cassady.alison@epa.gov : cassady.alison@epa.gov

Jeffrey Schub is inviting you to a scheduled Zoom meeting.

Join Zoom Meeting

Ex. 6

Meeting ID: Ex. 6

Passcode: Ex. 6

One tap mobile

Ex. 6 US (New York)

US (Washington DC)

Dial by your location

Ex. 6 US (New York)

US (Washington DC)

US (Chicago)

US (San Jose)

US (Tacoma)

US (Houston)

Meeting ID: Ex. 6

Find your local number: Ex. 6

-::~:~::~::~:~::-
Do not edit this section of the description.

View your event at

Ex. 6

-::~:~::~::~:~::-

Appointment

From: Lazarus, Richard [lazarus@law.harvard.edu]
Sent: 1/24/2021 3:38:12 PM
To: Utech, Dan [Utech.Dan@epa.gov]

Subject: Meeting with Dan Utecht
Location: Ex. 6

Start: 1/24/2021 8:00:00 PM
End: 1/24/2021 8:30:00 PM
Show Time As: Tentative

Recurrence: (none)

Join Zoom meeting

Ex. 6

Password: Ex. 6

Join by telephone (use any number to dial in)

Ex. 6

International numbers available:

Ex. 6

One tap mobile: Ex. 6 US (Washington DC)

Join by SIP conference room system
Meeting ID: Ex. 6
Ex. 6