

**Community Advisory Council
October 12, 2023
Action Items/Notes**

Final

Note: This was a hybrid meeting, held virtually through Zoom and in-person in Berkner Hall, room B.

A video recording of the Zoom meeting is available.

These notes are in the following order:

1. Attendance
2. Correspondence and Handouts
3. Administrative Items
4. Vision and Strategy for the Lab
5. Groundwater Update
6. Agenda Setting
7. Community Comment

1. Attendance

Members/Alternates Present: See Attached Sheets.

Others Present: B. Barth, B. Dorsch, A. Engel, P. Genzer, S. Gonzalez, K. Green, J. Hill, R. Hodgkin, R. Howe, D. Manning, R. McKay, J. Milligan, A. Morocho, D. Paquette, C. Polanish, V. Racaniello, J. Remien, J. Wanless

2. Correspondence and Handouts

Items numbered one and two were e-mailed to Members on October 5, 2023. Items numbered three and four were e-mailed to Members on October 12, 2023.

1. Draft agenda October 2023 meeting
2. Draft notes from the September 2023 meeting
3. Copy of presentation: Vision and Strategy for the Lab
4. Copy of presentation: Groundwater Update

3. Administrative Items

The meeting was called to order at 6:35 p.m.

Reed Hodgkin, CAC Facilitator, welcomed everyone to the October CAC meeting. He went over the ground rules and draft agenda for the evening.

Amy Engel, Manager - Community Engagement, welcomed the CAC to the meeting.

Sal Gonzalez, Office of Educational Programs, displayed to the in-person audience a list of all those participating virtually.

Approval of minutes:

The May 2023 CAC action items and notes were approved with none opposed and one abstention.

The September 2023 CAC action items and notes were approved with none opposed and four abstentions.

4. Vision and Strategy for the Lab - John Hill, Laboratory Deputy Director for Science and Technology

John Hill gave the CAC some background information on himself. He spoke about Brookhaven's enduring priorities and science initiatives. He said these initiatives will evolve as the Nation's needs evolve and the new BNL management team will work with the rest of the team to create a new strategic vision for the Lab. He emphasized that the current priority at BNL is the Electron Ion Collider (EIC) and the vision going forward.

Hill spoke about microelectronics and why they are important. He said, right now, 95% of the microchips are manufactured in Taiwan and the Lab is working to bring that technology back to the US. If current trends continue, microchips will use a significant fraction of the world's energy production by 2035, so it is important to make chips much more energy efficient. He said the latest transistors being made are so small that they are creating issues. To improve the existing technology, it is necessary to understand the science behind these tiny structures. To do that, you need very intense, very focused x-ray beams produced by a synchrotron. He then said the Lab's National Synchrotron Light Source II (NSLS II) is a world leader in nanoscale x-ray imaging.

Hill said with the science that the Lab can deliver and the challenges it can tackle, this promises to be BNL's most exciting decade yet.

5. Groundwater Update - Bill Dorsch, Environmental Protection Division

Bill Dorsch gave the CAC an update on the groundwater plume and treatment systems status, performance, progress, and recommendations. He gave them an overview of the remediation systems and spoke about per- and polyfluoroalkyl substances (PFAS), time critical removal action (TCRA) and the Operable Unit (OU) X status.

Dorsch said the Groundwater Status Report (GSR), Volume 2 of the Site Environmental Report, has been posted on the website. He said the Groundwater Status Report provides details on groundwater monitoring and remediation conducted during 2022.

Dorsch said NYS pollutant discharge elimination system (SPDES) equivalency permits are required for all groundwater treatment systems. In March 2023, NYSDEC (New York State Department of Environmental Conservation) issued discharge guidance values for Perfluorooctane sulfonic acid (PFOS), Perfluorooctanoic acid (PFOA), and 1,4-Dioxane. He said PFOS and/or 1,4-Dioxane have been detected in the discharges of several active on-site and off-site treatment systems at levels that exceed the new guidance values.

BNL has met with and discussed this issue with the NYSDEC and other regulatory agencies. NYSDEC agreed with BNL's proposed plan to collect additional PFAS (per- and polyfluoroalkyl substances) and 1,4-Dioxane data needed to support decisions on whether modifications to the treatment systems are required.

Dorsch said a draft OU X remedial investigation work plan for PFAS and 1,4-Dioxane was submitted to the regulators on March 30, 2023 and the Lab is working with regulatory agencies to finalize the work plan. A DOE PFAS research and development workshop is scheduled for July 9-11, 2024 at BNL.

Member Kern asked if the onsite solar farm has added additional contamination to the groundwater.

Dorsch said no.

Member Madigan asked how the Lab will meet the new drinking water standards for New York State.

Dorsch said for PFAS, the Lab will be adding new carbon filters to the existing systems. He said it is not as easy for 1,4 Dioxane.

Member Schuhmann asked if any progress has been made to characterize the source.

Dorsch said not yet, the Lab will be conducting additional sampling as part of the review and investigation.

Member Madigan asked about the groundwater wells being used onsite.

Dorsch said they are being monitored.

Remien said some of the supply wells onsite have been impacted by PFAS.

6. Agenda setting

Amy Engel said at the November CAC meeting, Ann Emrick will give a presentation on her Vision for the Laboratory. Emrick is the Lab's newly appointed Deputy Director for Operations. There will also be a presentation on the Lab's Medical Isotope program. She asked Members to email her with any requests for future presentations.

7. Community Comment

There was no community comment.

Meeting adjourned at 8:52PM

Next meeting: November 9, 2023

| | | | | Jan No mtg | Feb No mtg | Mar | Apr | May | June No mtg | July No mtg | Aug No mtg | Sep | Oct | Nov | Dec |
|-------------|------|--|---------------|------------------|------------------|-----|-----|-----|-------------------|-------------------|------------------|-----|-----|-----|-----|
| X = Present | 2023 | Affiliation | First Name | Last Name | | | | | | | | | | | |
| | | ABCO – Civic | Member | Ray | Keenan | | X | X | X | | | X | X | | |
| | | | Alternate | Michael | Madigan | | X | | X | | | | | | |
| | | Brookhaven Coalition of Chambers of Commerce – Business & Labor | Member | Ron | Trotta | | X | | | | | | | | |
| | | | Alternate | Carmine | Inserra | | | X | | | | | | | |
| | | Brookhaven Retired Employees Association- BNL Affiliation | Member | Mark | Israel | | X | X | X | | | X | X | | |
| | | | Alternate | Eena-Mai | Franz | | | | | | | | | | |
| | | Brookhaven Village Association – Civic | Member | Reinhardt | Schuhmann | | | X | X | | | X | X | | |
| | | | Alternate | Chris | Ciervo | | | | | | | | | | |
| | | Citizens Campaign for the Environment – Advocacy & Environment | Member | Adrienne | Esposito | | X | X | X | | | | | | |
| | | | Alternate | Maureen | Dolan-Murphy | | | | | | | | | | |
| | | Colonial Woods Whispering Pines – Civic | Member | Jane | Koropsak | | X | X | X | | | X | X | | |
| | | | Alternate | | | | | | | | | | | | |
| | | Cornell Cooperative Extension – Health based | Member | Chris | Pickerell | | | | X | | | X | | | |
| | | | Alternate | Lorne | Brousseau | | | | | | | | X | | |
| | | Diversity, Equity, and Inclusion – BNL Affiliation | Member | Noel | Blackburn | | | | | | | | | | |
| | | | Alternate | Menzel | Smith-Jones | | | | | | | | | | |
| | | East Yaphank Civic Association - Civic | Member | Robert | Feinman | | X | X | X | | | X | X | | |
| | | | Alternate | Laura | Reid | | | | | | | | | | |
| | | Emeritus | Member | David | Sprintzen | | | X | X | | | X | X | | |
| | | FOREST - Advocacy & Environment | Member | John | Pavacic | | X | X | X | | | X | | | |
| | | | Alternate | | | | | | | | | | | | |
| | | Foundation for Economic Education – Education, Science & Technology | Member | Bruce | Martin | | | X | X | | | | | | |
| | | | Alternate | Craig | Pratka | | X | X | | | | | | | |
| | | Gordon Heights Civic Assoc. - Civic | Member | | | | X | X | X | | | | | | |
| | | | Alternate | | | | | | | | | | | | |
| | | Individual | Member | James | Freeman | | | | | | | X | | | |
| | | Individual | Member | Jane | Corrarino | | X | X | | | | X | | | |
| | | Individual | Member | Karen | Blumer | | X | | X | | | X | | | |
| | | | Alternate | Michael | Madigan | | | | | | | | X | | |
| | | L.I. Pine Barrens Society – Advocacy & Environment | Member | Richard | Amper | | | | | | | | | | |
| | | | Alternate | Andrew | Wong | | X | X | X | | | X | X | | |
| | | Longwood Central School Dist. – Education, Science & Technology | Member | Tracy | Adams | | | | | | | | | | |

| X = Present | 2023 | Affiliation | | First Name | Last Name | Jan No mtg | Feb No mtg | Mar | Apr | May | June No mtg | July No mtg | Aug No mtg | Sep | Oct | Nov | Dec |
|--------------------|-------------|--|-----------|-------------------|------------------|---------------------------|---------------------------|------------|------------|------------|----------------------------|----------------------------|---------------------------|------------|------------|------------|------------|
| | | | Alternate | Paul | Infranco | | | | | | | | | | | | |
| | | Middle Island Civic Association – Civic | Member | Martin | Filler | | | X | X | X | | | | | X | | |
| | | | Alternate | Margaret | Malloy | | | | | | | | | | | | |
| | | National Grid – Business & Labor | Member | Brian | Sapp | | | | | X | | | | X | X | | |
| | | | Alternate | | | | | | | | | | | | | | |
| | | New York League of Conservation Voters – Advocacy & Environment | Member | Casey | Petrashek | | | | | X | | | | | X | | |
| | | | Alternate | | | | | | | | | | | | | | |
| | | NSLS-II User Committee – BNL Affiliation | Member | Jean | Jordan-Sweet | | | X | X | | | | | | X | | |
| | | | Alternate | Matthew | Whitaker | | | X | X | X | | | | | X | | |
| | | Ridge Civic Association – Civic | Member | Scott | Wood | | | | | X | | | | X | X | | |
| | | | Alternate | Ken | Casanova | | | | | | | | | | | | |
| | | Stony Brook Hospital – Health based | Member | Erika | Karp | | | | | X | | | | X | X | | |
| | | | Alternate | | | | | | | | | | | | | | |
| | | Suffolk County Legislature 1st Dist. – Government | Member | Al | Krupski | | | X | | X | | | | | | | |
| | | | Alternate | Gwynn | Schroeder | | | X | | | | | | | | | |
| | | Teachers Federal Credit Union – Business & Labor | Member | Jashmin | Futch | | | X | X | X | | | | | X | | |
| | | | Alternate | Sandra | Young | | | | | | | | | | | | |
| | | Town of Brookhaven – Government | Member | Dan | Panico | | | X | | | | | | | | | |
| | | | Alternate | Patricia | Kaloski | | | X | | | | | | | | | |
| | | Town of Riverhead - Government | Member | Bob | Kern | | | X | X | | | | | | X | | |
| | | | Alternate | Frank | Mancini | | | | | X | | | | | | | |
| | | Wading River Civic Association - Civic | Member | Henry | Perez | | | X | X | X | | | | | | | |
| | | | Alternate | Linda | Rundlett | | | | | | | | | | X | | |