



# CITY of BRISBANE

## Open Space and Ecology Committee Meeting Agenda

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Wednesday, July 26, 2023 at 6:30 P.M. • Hybrid Meeting 50 Park Place, Brisbane, CA

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The public may observe/participate in Committee meetings using remote public comment options or attending in person. Committee members shall attend in person unless remote participation is permitted by law. The Committee may take action on any item listed in the agenda.

### TO ADDRESS THE COMMITTEE

#### IN PERSON

Location: 50 Park Place, Brisbane, CA 94005, Community Meeting Room

Masking is not required but according to the California Department of Public Health guidelines, people at higher risk for severe illness should consider masking. To help maintain public health and safety, we respectfully request that people not attend in-person if they are experiencing symptoms associated with COVID-19 or are otherwise ill and likely contagious (e.g., respiratory illnesses).

#### REMOTE PARTICIPATION

Members of the public may observe/participate in the Committee Meeting by logging into the Zoom Webinar listed below. Committee Meetings can also be viewed live and/or on-demand via the City's YouTube Channel, [www.youtube.com/brisbaneca](http://www.youtube.com/brisbaneca), or on Comcast Channel 27. Archived videos can be replayed on the City's website, <http://brisbaneca.org/meetings>. Please be advised that if there are technological difficulties, the meeting will nevertheless continue. The agenda materials may be viewed online at [www.brisbaneca.org](http://www.brisbaneca.org) at least 24 hours prior to a Special Meeting, and at least 72 hours prior to a Regular Meeting.

#### Remote Public Comments:

Remote meeting participants may address the Committee. We also encourage you to submit public comments in writing in advance of the meeting. Aside from commenting while in the Zoom Webinar, the following email will be also monitored during the meeting and public comments received will be noted for the record during Oral Communications or during an agenda item.

Email: [aetherton@brisbaneca.org](mailto:aetherton@brisbaneca.org)

Join Zoom Meeting: [www.brisbaneca.org/osec-zoom](http://www.brisbaneca.org/osec-zoom)

Meeting ID: 976 4295 0160

Call In Number: 669.900.9128

Note: Callers dial \*9 to "raise hand" and dial \*6 to mute/unmute.

#### SPECIAL ASSISTANCE

*If you need special assistance to participate in this meeting, please contact Adrienne Etherton at [aetherton@brisbaneca.org](mailto:aetherton@brisbaneca.org) or (415) 508-2118. Notification in advance of the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting.*

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**CALL TO ORDER**

**ROLL CALL**

- A. Consider any request of a committee member to attend the meeting remotely under the “Emergency Circumstances” of AB 2449

**ADOPTION OF THE AGENDA**

**ANNOUNCEMENTS**

**ORAL COMMUNICATIONS**

**APPROVAL OF THE MINUTES**

- B. Minutes of May 24, 2023

**OLD BUSINESS**

- C. Quarry Development update

**NEW BUSINESS**

- D. Election of Chair and Vice Chair
- E. Day in the Park booth
- F. Tree inventory project and outreach

**STAFF UPDATES**

**SUBCOMMITTEE REPORTS**

**CALENDAR ITEMS**

**CHAIR AND COMMITTEE MEMBER MATTERS**

**NEXT MEETING:** August 23, 2023

**ADJOURNMENT**

*B.*

**File Attachments for Item:**

B. Minutes of May 24, 2023



# CITY of BRISBANE

## Open Space and Ecology Committee Meeting Minutes

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Wednesday, May 24, 2023 at 6:30 P.M. • Hybrid Meeting 50 Park Place, Brisbane, CA

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### CALL TO ORDER – 6:31 PM

#### ROLL CALL

- A. Consider any request of a committee member to attend the meeting remotely under the “Emergency Circumstances” of AB 2449 – none

Committee members present: Becker, Calmes, Ebel, Nunan, Rogers, Salmon

Committee members absent: Fieldman

Staff members present: Sustainability Manager, Etherton; Deputy Director of Public Works, Kinser; Special Assistant – Sustainability, Regan

#### ADOPTION OF THE AGENDA

Salmon moved to adopt the agenda and Nunan seconded; the motion was adopted unanimously.

#### ANNOUNCEMENTS

- Calmes: Parks & Rec secret garden tour on June 6, pre-register and donations encouraged to Brisbane Lions Club
- Ebel: Found some old carbon footprint fliers for Day in the Park, will give to Etherton

#### ORAL COMMUNICATIONS – none

#### APPROVAL OF THE MINUTES

- B. Minutes of April 26, 2023 – Salmon moved to approve the minutes and Nunan seconded; the motion was adopted unanimously.

#### OLD BUSINESS

- C. Quarry Development update – Community Development Department has deemed the application incomplete. Developer needs to submit a new application, in the interim, more internal discussion on what that process will look like. No information about why the application was deemed incomplete, Etherton will find out whether there will be a new NOP.

#### NEW BUSINESS

- D. Brisbane Acres Vegetation Management Plan Review

New qualified consultant has been identified, Hanford ARC. City guided them on what had been done in the past. See attached document in the agenda packet for scope summary.

Objection from Salmon about the terminology “Mountain Watch stewardship areas”, note that local volunteers maintain social trails, not San Bruno Mountain Watch.

Becker asks if city can incentivize the use of electric rather than fossil-fuel powered tools.

Nunan moves to accept proposal, Rogers seconds. Motion approved unanimously.

#### E. OSEC Comments on Baylands EIR Notice of Preparation

Draft OSEC comments with tracked changes are available in the packet for this meeting, these comments must be submitted tomorrow. The committee discussed modifications and concerns related to how transportation impacts will be evaluated and the definition for “open space.”

Nunan moves to accept comments with proposed changes, Salmon seconds. Motion approved unanimously.

### STAFF UPDATES

Etherton:

- Park & Ride EV charging project: PG&E is working on permits and scheduling (2 months out)
- PCE is considering incentive program for municipal facilities, pool electrification project is looking more promising than it has been in a while
- Site visit from PCE to the library several months ago to participate in second round of bulk solar and storage procurement program. Awaiting news on details.

Regan:

- Building Efficiency Program is running smoothly; only 25% have not submitted their 2022 annual benchmarking report. Note that we achieved 100% compliance last year, so we are in contact with all buildings on our roster.

### SUBCOMMITTEE REPORTS \* = ad hoc

- Events (Rogers, Salmon, Nunan) – habitat restoration event tentatively scheduled for July 22<sup>nd</sup>? Etherton needs to circle back with Ariel. Possibility to use this event as an opportunity to clear the concrete channel – event subcommittee to discuss.
- Education and Outreach (Fieldman, Rogers) – no update
- Baylands Subcommittee (Rogers) – no update
- \*Building Decarbonization (Becker, Ebel, Fieldman) – waiting for legal memo expected soon, and Berkeley’s deadline to request an en banc hearing is also the end of the month. That will help determine our path forward. Last two RICAPS (county-wide climate action planning) meetings have discussed grid preparedness for electrification. In general: we shouldn’t wait to electrify until the grid is “ready”. Multiple agencies are planning for high levels of electrification and we should be utilizing new capacity as it is built.
- \*Open Space Plan Update (Calmes, Rogers, Salmon) – Kinser to share document

- \*Crocker Trail Frog Habitat (Rogers, Nunan, Calmes) – many pollywogs! Kinser shared an update on the resurfacing project, the grant timeline, and additional costs from flooding. Request from subcommittee that the trail portion that abuts frog habitat be avoided until the end of the construction period.
- \*Invasive Species Ordinance (Becker, Fieldman, Nunan) – ordinance has been drafted, what are next steps? Kinser recommends checking in with council liaisons.
- \*Dark Skies Ordinance (Becker, Ebel, Salmon) – next meeting is June 7. Etherton needs to get answers on streetlighting, tried to reach out to lighting consultant, no response but will follow up.
- \*Tree Issues (Calmes, Ebel, Salmon) – no update, but Calmes and others concerned about need for pruning. Kinser: Weed abatement is underway to allow street sweeping and pedestrian passage, this gets done on city property before end of June. Pruning w/weed abatement is generally not done to meet aesthetic standards. Recommend giving list of affected trees in a single service request (SR) rather than an SR for every individual tree.
- \*Sierra Point Park Planning (Ebel) – no update
- \*Lipman Science Fair Judging (Ebel, Rogers) – inactive

**CALENDAR ITEMS** – Possibility to use a habitat restoration event as an opportunity to clear the concrete channel (location: south leg of Crocker Trail east of South Hill) – event subcommittee to discuss.

**CHAIR AND COMMITTEE MEMBER MATTERS –**

- Becker: Father's day is a fantastic occasion to give a gift certificate to your favorite plant nursery
- Salmon: no recycled arts/crafts for Day in the Park, think of something to replace it
- Ebel: suggests transportation survey for Day in the Park (Kinser: opportunity to pair with Complete Streets?)

**NEXT MEETING: June 28, 2023**

**ADJOURNMENT – 7:41 PM**

**File Attachments for Item:**

F. Tree inventory project and outreach



July, 2023

**To:** Adrienne Etherton, Sustainability Manager. City of Brisbane, CA

**For:** TreePlotter Inventory software and CANOPY assessment software

**Prepared by:** Russell Clark, Urban Forestry Account Executive

## CANOPY software - an urban tree canopy planning tool

CANOPY software (<https://planitgeo.com/treeplotter-canopy-software/>) provides a powerful yet easy to use web-based decision support and prioritization tool. It allows you to visualize data sets, prioritize planting, communicate canopy goals, implement and track planting projects, and create maps and reports to easily digest complicated data. All project data are provided in the software application and are automatically updated as soon as updated imagery is available, in most cases every two years.

The software will provide many benefits, create accessibility and communication of complex data, and usage of the tree canopy assessment data by City staff, partners, and community members. It is a web browser-based interactive map, compatible with all platforms (Android, iOS, Windows), built specifically to display and interact with tree canopy assessment data. The subscription includes regular updates to tree canopy and land cover data allowing for the user to keep a regular pulse on canopy cover trends.

TreePlotter CANOPY comes with socio-demographic data baked-in that will aid the City in planning investments in equitable canopy at the census block group level. These data sets combine an area's existing tree canopy, plantable space, population, income, employment, and health levels to qualify how evenly tree canopy is distributed across its citizens. With each year's new canopy update, we provide an updated assessment of tree equity to help cities understand the impacts of their management activities.





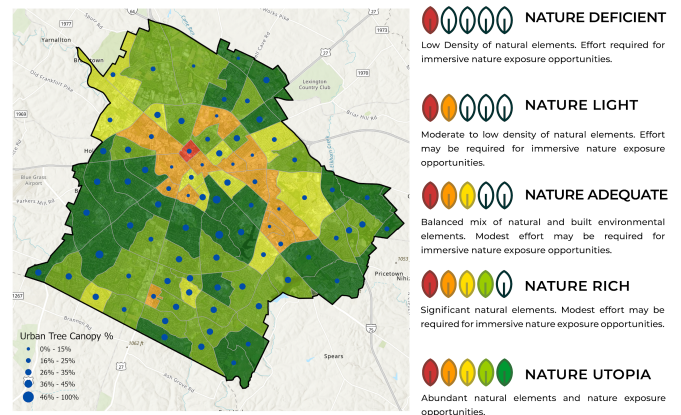
With CANOPY, you can share your data in public-friendly and interactive online maps that can be viewed directly in the application or embedded onto your website. Your subscription includes our [Community Engagement Map](#) (CEM) which provides a simple, public-friendly version of a TreePlotter CANOPY application that can be accessed as an embedded map on the City's webpage or as a stand-alone website. Increased community engagement can help ensure the success of any urban forestry program. With CEM, public users can easily learn more about the City's tree canopy trends by interacting with our mobile-friendly web map.

1. Utilize [EarthDefine US Tree Map](#) data created from 60-centimeter resolution multispectral (leaf-on) NAIP imagery to classify (map) all tree canopy and five other land cover classes in Brisbane, CA.
2. Classes include tree canopy (including impervious overhanging), shrub vegetation, other vegetation (grass, open space), bare soil / dry vegetation, impervious surfaces, and open water.
  - a. The tested accuracy of the US Tree Map in California is 98.8% according to EarthDefine's accuracy assessment using 1,000 random points throughout the state.
3. Using available GIS data and image interpretation, areas deemed undesirable or unsuitable for increasing tree canopy will be compiled in order to remove them from the non-canopy vegetation class to create the plantable spaces data layer. Our GIS technicians will manually map areas where data do not exist, such as the playing areas in golf courses, sports fields, airports, and utility corridors. This will create a "Possible Planting Areas" (PPA) data layer that can be used to help prioritize future tree plantings in the most suitable areas.
4. The land cover data will be processed through a complex GIS model to provide metrics (area and percent cover) for each land cover class citywide and within census block groups and three additional geographic scales. This will produce citywide maps of

tree canopy and land cover and includes the raster land cover data and vector data summaries for each selected geography.

5. [NatureQuant](#) data will be used to show a heat map of nature access in the City. GIS attributes will be added to the census block group assessment boundary. Data will include:

- i. NatureScore™ - measures the quality and quantity of beneficial nature for any location. For each location, NatureQuant analyzes and blends various data sets and processed information, including satellite infrared measurements, GIS and land classifications, park data and features, tree canopies, human modifications, air, noise, and light pollution, and computer vision elements (aerial and street images). The NatureScore provides a numerical score between 0-100 where 0 represents a largely built environment and 100 represents a largely natural environment.
- ii. NatureScore Priority Index (NPI) - combines NatureScore with Area Deprivation Index (ADI) data comprising 17 socioeconomic factors to show areas that are nature deficient and also deprived (low income, low education, low employment, poor housing, etc.).





6. Results will be made available in our TreePlotter CANOPY application which will allow city staff and other stakeholders to visualize existing land cover metrics and create custom weighted priority planting maps incorporating these ranked areas of planting opportunities. Through online training, we will demonstrate how to easily use these data in web browser mapping applications/tools and to make locally specific, impactful scenarios and tree planting plans.
7. Ecosystem service benefits of air quality, water quality, carbon, and stormwater benefits will be calculated for the City's urban forest using i-Tree values.
8. The data will be displayed and interactive within our TreePlotter CANOPY decision support software application. The City can receive updated data every two to three years by becoming an annual subscriber. Any time NAIP imagery in your state is updated, your tree canopy and land cover metrics are too. More details are available on our website: <https://planitgeo.com/treeplotter-canopy-software/>.
9. Required Data:
  - i. Municipal boundaries
  - ii. Geographic assessment scales (e.g., neighborhoods, zoning)
10. Useful Data:
  - i. Unsuitable areas for planting including recreation areas, ball fields, park boundaries, open spaces/greenways



## TreePlotter Inventory - a tree tracking and management tool

TreePlotter<sup>TM</sup> (TP) Inventory is a comprehensive tree inventory and management software. It's a flexible tool for capturing tree and asset information in the field and managing that data with configurable dashboards, analysis, and reports. This web-based application allows for a quick rollout, with no additional device purchases necessary. Your unlimited users can use any smartphone or tablet to locate assets, assess conditions, store photos, and report findings in real-time.

The software platform is designed to assist professionals and organizations in managing urban forests and trees. It provides tools for data collection, analysis, visualization, and reporting related to tree inventory and management. TreePlotter allows users to collect and record tree data in the field using mobile devices, such as smartphones or tablets. This data can include information about tree species, size, health, location, and other relevant attributes. The platform offers customizable data fields to fit the specific needs of the user or organization.

The software also provides mapping and visualization capabilities, allowing users to view and analyze their tree data geospatially. This can be particularly useful for urban planners, arborists, and municipal agencies that need to understand the distribution and density of trees across an area. It can assist in identifying areas with a high concentration of trees, areas lacking tree cover, or areas with specific tree management needs.

In addition to data collection and mapping, TreePlotter offers features for managing tree maintenance and planning. It enables users to track tree health, maintenance activities,



and associated costs. This information can support proactive tree care, scheduling pruning or removals, and budgeting for tree management.

Additionally, TreePlotter<sup>TM</sup> is built to limit human error with its intuitive design and functionality such as the drop-down menus (rather than typing responses and making typos). This way the grouping of values is standardized and can be summarized without random entries or outliers.

PlanIT Geo's servers are capable of hosting large amounts of data, having many state and county TreePlotter<sup>TM</sup> clients, some with over 500,000 trees. The data is secure, and PlanIT Geo has an offsite backup location with data backup automatically performed every 24 hours.

1. A TreePlotter page will be created to track all tree assets throughout the city. This comprehensive page will be able to track numerous metrics related to each individual tree and aggregate information about tree sizes, conditions, locations and management needs, at a minimum.
2. Each tree will be able to have calculated Ecosystem benefits as calculated by iTree Eco. Five individual metrics will need to be collected for each tree so as to calculate ecosystem benefits. Ecosystem benefits include carbon sequestration (lifetime and current year), stormwater runoff and interception, air quality improvement through pollutants removed and an overall monetary value.