USING CLIMATE MITIGATION AND DISASTER RELIEF FUNDS TO BUILD RESILIENT COMMUNITIES

November 10, 2020 | 1:00-2:00 pm ET

Lisa LaRocque
Sustainability Officer
City of Las Cruces, NM
llarocque@las-cruces.org

Lisa McNeilly
Director of Sustainability
City of Baltimore, MD
lisa.mcneilly@baltimoret.gov

Robert Doyle
General Manager
East Bay Regional Park District
Oakland, CA
Bdoyle@ebparks.org

Catherine Mathews
Landscape Architect/Parks & Recreation Department
City of Las Cruces, NM
cmathews@las-cruces.org

MODERATOR

Robert Wood Johnson Foundation

ACCREDITATION AVAILABLE FOR:

APA

2020 FUNDING WEBINAR SERIES SPONSORED BY:
Mitigating Financial Impacts of Climate Change Related Disasters

How to Navigate FEMA

Presented by East Bay Regional Park District General Manager Robert Doyle – November 10, 2020
The East Bay Regional Park District

A California Special District Founded in 1934

Stewarding 73 parks on 125,000 acres, with 1,550 miles of trails east of San Francisco Bay
1,000 employees working to preserve open-space, providing access to safe parks and environmental education for over 2.8 million residents and 25 million annual visitors in Alameda and Contra Costa counties.
1991 Oakland Hills Tunnel Fire

- Urban-Wildland Interface
- 3,000 Homes Destroyed
- 25 Lives Lost
2017 Storm Damage

- 117 Storm Recovery Projects
- Damage estimate $8-10+ million
- 29 park sites
- 59 Storm Recovery Projects Completed
- 58 FEMA Projects
  - 3 Insurance
  - 5 Denied
  - 15 Approved (12 Completed)
- 35 Environmental Review
2017 Storm Damage

Del Valle
2017 Storm Damage

Rocky Ridge

Black Diamond Culvert Failure
2017 Storm Recovery Funding

$10.4 Million Total

- $6.8 million
  - FEMA 75%
  - CalOES 18.75%
  - EBRPD Match 6.25%
- $2.6 million – Insurance
- $1 million – General Fund (Initial Response, County Storm Disaster Relief Crew, Matching Funds and Ineligible Costs)
Fires in California

The LNU Lightning Complex Fire engulfs a ridge line near Aetna Springs, California, US. August 23, 2020. (Adrees Latif / Reuters)
Fuels Mitigation Funding for Safe and Healthy Forests from Voter Approved Measures CC/FF

Existing, Voter-Approved Funding at Work

Wildfire Protection and Healthy Forests – East Bay Mills
- Removal of 300 acres of hazardous and hazardous vegetation
- Humanizing wild and healthy forests

Point Pinole Regional Shoreline – Richmond
- Donation of $100,000 for park development

Tilden Regional Park – Berkeley
- Tilden Nature Area

East Bay Regional Park District
- Tilden Regional Park
- Tilden Nature Area
- Tilden Strawberry Farm

McLaughlin Eastshore State Park – Berkeley
- Eastshore State Park

El Cerrito Redwood Regional Park – Alameda
- El Cerrito Redwood Regional Park

Information About Measure FF

Official Measure FF Ballot Question
Wildfire Protection, Safe Parks/Trails, Public Access, Natural Habitat. Without increasing tax rates, to protect against wildfires; enhance public safety; preserve water quality, shorelines, urban creeks; protect redwoods and parks in a changing climate; and restore natural areas, shall East Bay Regional Park District be authorized to extend an existing parcel tax of $1 monthly ($12/year) per single-family parcel and $6/monthly ($72/year) for multi-family units, raising not more than $3.3 million annually, to expire in 20 years?

YES

NO

Election and Voting Information

Alameda County Registrar of Voters
www.acvote.org
(510) 272-6973

Contra Costa County Elections
www.co.cocovote.us
(925) 335-7800

Measure FF is a $12/year ($1/month) parcel tax extension measure. It does not change or increase tax rates.
Goat Grazing
Burn Piles
Before and After of a Typical Thinned Eucalyptus Stand
# FEMA Checksheet for Project Worksheets

**Project Worksheet Sequence Schedule Checksheet**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>SHEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TRANSMITTAL</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>PROJECT WORKSHEET SEQUENCE SCHEDULE CHECKSHEET</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>EXIT INTERVIEW (INCLUDE WITH FINAL PW)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>PROJECT WORKSHEET</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>PW CONTINUATION SHEETS (IF NEEDED)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>PROJECT SUMMARY SHEET (OPTIONAL &amp; OF YOUR OWN DESIGN)</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>PW SITE CALCULATION SHEET (COMBINATION FORM)</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>SPECIAL CONSIDERATIONS SHEET (9 QUESTIONS)</td>
<td>3</td>
</tr>
<tr>
<td>9</td>
<td>SITE SHEET</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>FORCE ACCOUNT COMPLETED SUMMARY SHEET</td>
<td></td>
</tr>
</tbody>
</table>

**Sheet 1**

- **11** | FORCE ACCOUNT LABOR 
- **12** | FORCE ACCOUNT EQUIPMENT 
- **13** | FORCE ACCOUNT MATERIALS 
- **14** | FORCE ACCOUNT RENTED EQUIPMENT 
- **15** | FORCE ACCOUNT CONTRACTOR 
- **16** | SKETCH (IF NEEDED) 
- **17** | INSURANCE DOCUMENTATION (IF REQUIRED) 
- **18** | SITE MAP 
- **19** | FLOODPLAIN LOCATION (FIRM) MAP 
- **20** | HAZARD MITIGATION PROPOSAL (GOLD) 
- **21** | PHOTOS 
- **22** | “DO NOT COPY” 
- **23** | BACKUP DOCUMENTATION 
- **24** | APPLICANT BENEFITS CALCULATION SHEET
FEMA Project Worksheet

Federal Emergency Management Agency

Project Worksheet

DECLARATION NO.

Federal Emergency Management Agency

Project Worksheet

Date

Category

FEMA-1026 DR-CA

Project No.

FIPS No.

020-5179-100-00

04/24/06

G

Work Completed to:

Wood Tunnel

Date

Per Cent

4/24/2006

0%

Applicant

contra costa

Applicant

East Bay Regional Park District

Location

Contra Costa

Black Diamond Mines' Great House Portal

Latitude

37.91500

damage Description & Dimensions:

Lat/Lng were Obtained at the Entrance of the tunnel during December 31st, 2005. The entrance to the tunnel at the Great House was damaged. The tunnel was damaged due to the weight of the earth. The tunnel was closed to traffic.

Scope of Work:

The work will be completed by a contractor. The applicant's consultant (Jacobs Associates) provided an estimate to complete the work. The damaged area of the portal which includes the front of the portal and 100 ft long tunnel support. The current underground design practice does not allow timber to be used in permanent tunnel supports. The new method of supporting tunnels is to use shotcrete and steel sets used in conjunction with self-drilling spiles 12 ft long. The work shall include the following:

1. Mobilization
2. Portion of the Retaining Wall (12 ft wide at the portal)
3. Mining re-support (Portal to 100 ft only, where the failed shale layer extends)

See attached applicant's consultant estimate.

<table>
<thead>
<tr>
<th>Item</th>
<th>Code</th>
<th>Narrative</th>
<th>Quant.</th>
<th>Unit</th>
<th>Unit Price</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9999</td>
<td>Retaining Wall at the Portal</td>
<td>12</td>
<td>FT</td>
<td>$725.45</td>
<td>$8,705.45</td>
</tr>
<tr>
<td>2</td>
<td>9999</td>
<td>Mining Re-Support</td>
<td>100</td>
<td>LF</td>
<td>$1,517.42</td>
<td>$151,742.00</td>
</tr>
<tr>
<td>3</td>
<td>9999</td>
<td>Mobilization (10%)</td>
<td>0.1</td>
<td>%</td>
<td>$160,447.46</td>
<td>$15,644.74</td>
</tr>
<tr>
<td>4</td>
<td>9999</td>
<td>curve b Engineering</td>
<td>0.11</td>
<td>%</td>
<td>$178,495.14</td>
<td>$19,614.12</td>
</tr>
</tbody>
</table>

Total Cost: $155,906

Prepared By: Email Alkhasawrah
Title: Project Officer
Applicant:

DATE: 4/24/2006

East Bay Regional Park District
Healthy Parks, Healthy People
Cal OES Subapplication

HAZARD MITIGATION GRANT PROGRAM
PROJECT SUBAPPLICATION

<table>
<thead>
<tr>
<th>DISASTER NUMBER:</th>
<th>4407</th>
</tr>
</thead>
<tbody>
<tr>
<td>JURISDICTION NAME:</td>
<td>East Bay Regional Park District</td>
</tr>
<tr>
<td>PROJECT TITLE:</td>
<td>Tilden and Claremont Canyon Fuels Management Project</td>
</tr>
<tr>
<td>PROJECT NUMBER:</td>
<td>0404</td>
</tr>
</tbody>
</table>

Eligibility Checklist

Before completing the subapplication, review the following HMGP eligibility checklist to ensure project meets the requirements for HMGP funding.

- **Construction/Ground Breaking:** No construction or ground breaking activities are allowed prior to FEMA approval. HMGP does not fund projects that are in progress or projects that have already been completed.

- **Approved Notice of Interest:** Subapplicant must have an approved Notice of Interest (NOI) to submit a subapplication for HMGP funding. Only activities approved through the NOI process can be submitted for HMGP funding consideration.

- **Scope of Work:** The project scope of work (SOW) must be consistent with the SOW provided in the approved Notice of Interest (NOI).

- **Benefit Cost Analysis:** Benefit Cost Analysis (BCA) Toolkit Version 2.0. FEMA will only consider subapplications that use a BCA. Documentation to support the BCA must be included in subapplication. A benefit-to-cost ratio (BCR) of less than 1.0 will not be considered. BCA will be submitted to the subapplicant. 5% initiative Projects do not require BCA.

- **Subapplicant Eligibility:** Subapplicant must be an eligible state, county, special districts, Federally Recognized Tribe or Private Nonprofit, and have a jurisdiction's own governing body. Jurisdiction must meet the eligibility criteria outlined in the HMGP eligibility checklist.

- **LHMP/MIHMMP:** Subapplicant must have a FEMA approved Jurisdictional Hazard Mitigation Plan (LHMP or MIHMMP) to ensure that the LHMP/MIHMMP expires five years after FEMA approval.

- **Cost Share:** Local funding match of 25% of the total project cost. HMGP matching funds must be from a non-federal source.

- **Period of Performance:** Projects must complete within the period of performance (POP). POP begins upon FEMA approval.

Eligibility Checklist (continued)

- **Complete Subapplication:** Failure to include all required documentation will delay the processing of your subapplication and may result in denial of project. The SOW, cost estimate, cost estimate narrative, work schedule and BCA must accurately mirror each other to be considered for funding. The budget narrative must include a detailed description of every cost estimate item, including the methodology used to estimate each cost.

- **Regulations:** Subapplications that are inconsistent with state and federal HMGP regulations, or do not meet eligibility criteria will not be considered.

- **Duplication of Programs:** HMGP funding cannot be used as a substitute or replacement to fund activities or programs that are available under other federal authorities, known as Duplication of Programs (DOP).

- **Time Extensions:** Unless a time extension has been approved before the deadline, subapplications must be postmarked by the applicable deadline to be considered for funding.

- **CEQA Requirements:** The subapplicant is responsible for complying with the regulations set forth in the California Environmental Quality Act (CEQA) (California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000–15387). Environmental data is required for project. Environmental review is typically the most time consuming aspect of project funding approval.

**SUBAPPLICANT MUST BE ABLE TO CHECK EVERY BOX TO QUALIFY FOR HMGP FUNDING.**
Notice of Intent

Pre-Disaster and Flood Mitigation Assistance
NOTICE OF INTEREST (NOI)

Control No:

1. Grant Program:
   - FEMA CFMA
   - Project C Planning

2. This NOI is in a current phase of:
   - Special District

3. Habitats Involved:
   - Vegetation Management

4. Grant Activity:
   - Planting
   - Irrigation
   - Special District

5. Does this activity incorporate climate resilient mitigation activities? [ ] No [ ] Yes

6. Activity Costs:
   - Federal Assistance: $3,214,571
   - Total Activity Cost: $4,298,761

   - Have you completed a Benefit Cost Analysis (BCA)? Have the most current FEMA BCA Tasked completed? [ ] No [ ] Yes

7. Activity Title/Name:
   - Tilden and Claremont Canyon Fuels Management Project

8. Description:
   - The fuels management projects are in two locations in the East Bay Hills: Claremont Canyon Regional Preserve (194.43 acres) and Tilden Regional Park (194.89 acres). These locations are located along the wildland urban interface with the Cities of Berkeley and Oakland. The latitude and longitude listed is that of Claremont Canyon. None of the areas recommended for treatment in this project are currently funded by other FEMA grants.

   - Benefits:
     - Cost: $5,196,873
     - Rate: 5.00%

   - Have the Cost Sharing Funds been accepted? [ ] No [ ] Yes

9. Activity Title/Name:
   - Tilden and Claremont Canyon Fuels Management Project

10. Description:
   - The fuels management projects are in two locations in the East Bay Hills: Claremont Canyon Regional Preserve (194.43 acres) and Tilden Regional Park (194.89 acres). These locations are located along the wildland urban interface with the Cities of Berkeley and Oakland. The latitude and longitude listed is that of Claremont Canyon. None of the areas recommended for treatment in this project are currently funded by other FEMA grants.

   - Benefits:
     - Cost: $5,196,873
     - Rate: 5.00%

   - Have the Cost Sharing Funds been accepted? [ ] No [ ] Yes

11. Activity Title/Name:
   - Tilden and Claremont Canyon Fuels Management Project

12. Description:
   - The fuels management projects are in two locations in the East Bay Hills: Claremont Canyon Regional Preserve (194.43 acres) and Tilden Regional Park (194.89 acres). These locations are located along the wildland urban interface with the Cities of Berkeley and Oakland. The latitude and longitude listed is that of Claremont Canyon. None of the areas recommended for treatment in this project are currently funded by other FEMA grants.

   - Benefits:
     - Cost: $5,196,873
     - Rate: 5.00%

   - Have the Cost Sharing Funds been accepted? [ ] No [ ] Yes

13. Activity Title/Name:
   - Tilden and Claremont Canyon Fuels Management Project

14. Description:
   - The fuels management projects are in two locations in the East Bay Hills: Claremont Canyon Regional Preserve (194.43 acres) and Tilden Regional Park (194.89 acres). These locations are located along the wildland urban interface with the Cities of Berkeley and Oakland. The latitude and longitude listed is that of Claremont Canyon. None of the areas recommended for treatment in this project are currently funded by other FEMA grants.

   - Benefits:
     - Cost: $5,196,873
     - Rate: 5.00%

   - Have the Cost Sharing Funds been accepted? [ ] No [ ] Yes

Contact Person:

Name: [Last, First]
Email Address: [Email Address]

NOTE: Please print this form before clicking the Submit NOI button below. You will not be able to print the NOI once submitted.

Submit NOI

By submitting the Submit NOI button, you will submit your NOI to the Governor’s Office of Emergency Services for approval. Please ensure that you have filled out the form with as much detail as possible.
### EBRPD FEMA Grants History Since 1982

<table>
<thead>
<tr>
<th>FIRE</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mitigation</td>
<td>$8,303,878</td>
</tr>
<tr>
<td>Preparation</td>
<td>$95,572</td>
</tr>
<tr>
<td>Recovery</td>
<td>$2,467,282</td>
</tr>
<tr>
<td>Total</td>
<td>$10,866,732</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STORMS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Recovery</td>
<td>$18,786,451</td>
</tr>
<tr>
<td>Total</td>
<td>$18,786,451</td>
</tr>
</tbody>
</table>

**Grant Total** $29,653,183
Lessons Learned

• Meet with Federal legislative offices
• Meet with Regional FEMA staff, including site visits.
• Do all the paperwork accurately and don’t miss deadlines.
• Make sure to adhere to ALL state and Federal Environmental Regulations to address all project impacts, including wildlife and other impacts.
• Address any legal or public opposition early.
• Do not begin project work before all approvals.
• Recognize you may have a long time before you get reimbursed.
• Memories are short, but the FEMA approval process is long.
• People forget the fires and the storms, and they tend to move around; opinions and community support can change.
• Advocacy essential to successful projects.
Importance of Parks for the Community

Now more than ever, parks and trails must remain open and accessible so people have the opportunity to be outside and get physical exercise in a safe, socially distant manner.  

96% Agree
Importance of Parks for the Community

In a time when most people are in their homes the majority of the day, the accessibility of parks and trails plays an important role in maintaining the mental health of our community.

96% Agree

- 77% Strongly Agree
- 19% Somewhat Agree
- 1% Somewhat Disagree
- 1% Strongly Disagree
Importance of Parks for the Community

How important is it to you to have the regional parks and trails open during the Coronavirus pandemic?

- Very Important: 67%
- Somewhat Important: 25%
- Not Too Important: 4%
- Not Important At All: 3%

92% Important
Mitigating Financial Impacts of Climate Change Related Disasters  How to Navigate FEMA

Presented by East Bay Regional Park District General Manager Robert Doyle – November 10, 2020
CITY OF LAS CRUCES
FINANCE AND PARK PROJECTS
LAS CRUCES
NEW MEXICO

Chihuahuan Desert
rain/year <10”
<4% tree shade canopy
elevation: 3700’
Population: 101,000
Demographics:
59% Hispanic, 34% Anglo
Median income: $40,658 /yr
SHOCKS AND STRESSORS
+ ACADEMIC/NGO PARTNERSHIPS

heat
drought
dust
fire
floods
Weeks in Las Cruces NM with Maximum Temperatures

> 100°F and >105°F

WE ARE HERE
HIGHER TEMPS INCREASE EVAPORATION

Increase of 1°C temperature decrease water flows by 10%.

By 2100 temperatures may increase by 5°C (or 9°F).

This means we could lose 50% of water flow by the end of the century.

Elephant Butte Reservoir, 2020
4.2% capacity
FLOODING, EVAPORATION, RUNOFF, AND INFILTRATION

25% evapotranspiration

60% runoff

15% infiltration

40% evapotranspiration

10% runoff

50% infiltration
GIS LEARNING
WITH FEDERAL AGENCY SUPPORT

Prioritizing Planning for Active Transportation

Identifying areas with Health Indicators

Identifying areas with Seniors and Children under 5 years
Neighbors that you could call for help:

- 39% none
- 40% 1-2 neighbors

77% bothered by extreme heat
43% house isn’t cool
38% work outside
33% seniors
33% rent

42% pre-1970 housing stock in urban core

FUNDING FROM CDBG, CITY, AND PARTNERS FOR PLACES
COOL CORRIDOR
Green Infrastructure + Shade

CHICANE or bump out is a basing harvesting street runoff in a right-of-way.
PLANNING

Multi-department effort
Neighborhood input
Multiple benefits

DESIGN

Maximize stormwater harvesting
Maximize number of trees for shade
Avoid known utilities
MULTIPLE BENEFITS

- Neighborhood resilience
- Increase shade and tree canopy
- Reduce UHI Effect
PATHS TO FUNDING

USDN
urban sustainability directors network

CLIMATE NGOS, ACADEMICS

- CLIMATE MODELING
- $15K for rain cistern and report

NIHHIS MTG

- NASA UHI Development Program
- ~$80K Inkind

Community Development Block Grant
$200K

City Match from Stormwater budget

Partners for Places
- social cohesion project

OFFER:
- design standards for urban commercial corridor

USDN provided conference travel grant
OUTCOMES

Travel to a Conference
Climate Modeling
Rainwater Harvesting Cistern
Urban Core Green Infrastructure Plan
UHI and Vulnerability Study
UHI and Active Transportation Plan
Neighborhood Project Building Social Cohesion
Urban Core one-mile Cool Corridor
Invitation for new partnership projects
Track record for more grants
ACADEMICS/NGOS ALSO WRITE GRANTS
COLLECT THE DATA THE SUPPORTS YOUR STORY
TUCK AWAY GREAT IDEAS
WATCH FOR FUNDING
ADDRESS SEVERAL CONCERNS TOGETHER

LESSONS LEARNED
THANK YOU!

Lisa LaRocque, Sustainability Officer
llarocque@las-cruces.org

Catherine Mathews, Landscape Architect
cmathews@las-cruces.org
USING CLIMATE MITIGATION AND DISASTER RELIEF FUNDS TO BUILD RESILIENT COMMUNITIES

November 10, 2020  |  1:00-2:00 pm ET

MODERATOR
Lisa McNeilly  
Director of Sustainability  
City of Baltimore, MD  
lisa.mcneilly@balto.md.gov

Robert Doyle  
General Manager  
East Bay Regional Park District  
Oakland, CA  
Bdoyle@ebparks.org

Catherine Mathews  
Landscape Architect/Parks & Recreation Department  
City of Las Cruces, NM  
cmathews@las-cruces.org

Lisa LaRocque  
Sustainability Officer  
City of Las Cruces, NM  
llarocque@las-cruces.org

ACCREDITATION AVAILABLE FOR:

2020 FUNDING WEBINAR SERIES SPONSORED BY:

Robert Wood Johnson Foundation

BECOME A MEMBER: cityparksalliance.org/join