

APPENDIX 3

PUBLIC PROCESS

SUPPLEMENTAL DOCUMENTATION

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SURVEYS

Survey for General Public (English)

Survey for General Public (Spanish)

Survey for Technical Stakeholders

SURVEY FOR GENERAL PUBLIC (ENGLISH)

This questionnaire is designed to assist Multnomah County in the update of their Natural Hazard Mitigation Plan by identifying the community's concerns about natural hazards and to better understand community preferences in reducing risk and loss from natural hazards such as floods, earthquakes, winter storms, wildland/urban interface fires, landslides and volcanic activity. The term "mitigation" simply means measures taken to reduce the potential for damages, economic losses and casualties in future disaster events.

The purposes for the update of the Natural Hazard Mitigation Plan include:

- Include the most recent data for earthquakes, floods and other natural hazards.
- Maintain eligibility for FEMA mitigation grants to fund measures to reduce the threats posed by earthquakes, floods and other hazards to important buildings and infrastructure.
- Help Multnomah County identify high risk situations and to prioritize mitigation actions.

Please take a few minutes to complete this questionnaire. The questionnaire should be completed by an adult.

All individual responses are anonymous and will be combined with all of the responses to understand the community's overall perspectives on natural hazards affecting Multnomah County residents. Your responses will help Multnomah County ensure a safe and sustainable quality of life for our residents and businesses. Thank you.

1. Please enter your 5-digit ZIP Code:

2. Have you or a member of your family ever experienced injury, damage or economic loss from the following natural hazards within Multnomah County? **Check ALL that apply.**

- ☐ Earthquakes
- ☐ Wildland/urban interface fires
- ☐ Floods
- ☐ Landslides/mudslides
- ☐ Volcanic Events
- ☐ Severe Weather (snow, wind, ice)
- ☐ Other _____

3. Are you worried about the future occurrence of disasters from the following natural hazards?

Check ALL that apply.

- ☐ Earthquakes
- ☐ Wildland/urban interface fires
- ☐ Floods
- ☐ Landslides/mudslides
- ☐ Volcanic Events
- ☐ Severe Weather (snow, wind, ice)
- ☐ Other _____

4. Which of the following natural hazards do you think pose the greatest threat to your family, your home and your place of work over the next 20 years?

Rank the hazards with 1 posing the greatest threat, 2 posing the next greatest threat and so on. OTHER is optional.

- ___ Earthquakes
- ___ Wildland/urban interface fires
- ___ Floods
- ___ Landslides/mudslides
- ___ Volcanic Events
- ___ Severe Weather (snow, wind, ice)
- ___ Other _____

5. Did you consider the possible occurrence of a natural hazard when you bought/moved into your current home?

- ☐ Yes
- ☐ No

If Yes (to 5.) which hazard(s). Check ALL that apply.

- ☐ Earthquakes
- ☐ Wildland/urban interface fires
- ☐ Floods
- ☐ Landslides/mudslides
- ☐ Volcanic Events
- ☐ Severe Weather (snow, wind, ice)
- ☐ Other _____

If No (to 5.) why did you not consider the possible occurrence of a natural hazard?

- ☐ It never occurred to me to consider this.
- ☐ I didn't think I'd personally be affected by a natural hazard.
- ☐ The County would tell me if there was a potential problem.
- ☐ Other _____

6. Are you concerned about Natural Hazards?

- ☐ I AM concerned about natural hazards.
- ☐ I AM NOT concerned about natural hazards.

7. Are interested in taking actions that would protect your family, your business and your home from a natural hazard?

- ☐ I AM interested in taking preventative actions to do something about my concerns.
- ☐ I AM NOT interested in taking preventative actions.

8. Imagine that someone gave you \$10,000 to make your home, business or community less vulnerable to natural hazards, what would you spend it on?

9. If Multnomah County, cities, special districts or non-governmental organizations were to take actions to reduce loss of life, property damage and economic loss from future disasters in Multnomah County, I think they should take the following actions.

Please rank your preferences for the mitigation priorities the County should follow from 1 to 11, with 1 being the highest priority, 2 being the next highest priority, etc:

- ___ Reduce damage to electric power, gas, water and sewer systems
- ___ Reduce damage to roads and bridges
- ___ Reduce damage to hospitals
- ___ Reduce damage to fire stations and police stations
- ___ Reduce damage to schools
- ___ Reduce damage to public buildings
- ___ Reduce damage to private buildings
- ___ Reduce deaths and injuries

- ___ Protect the natural environment from disasters
- ___ Protect historical and cultural landmarks
- ___ Prevent future development in high hazard areas

10. Strategies to Reduce Risk and Losses from Natural Disasters

Please rank your level of support for the following strategies to reduce loss of life, property damage and economic loss from future disasters in Multnomah County.

Strategy	Agree Strongly	Agree	Neutral	Disagree	Disagree Strongly	Not Sure
I support a regulatory approach to reducing risk						
I support non-Regulatory approach to reducing risk						
I support voluntary approach to reducing risk						
I support policies to limit development in high hazard areas						
I support using local tax dollars to reduce risks and losses from natural hazards						
I would be willing to spend \$500 to make my home more disaster-resistant						
I would be willing to spend \$5000 to make my home more disaster-resistant						
I support making schools more earthquake-resistant						
I support making public buildings more earthquake-resistant						
I support making utilities more earthquake-resistant						
I support making bridges more earthquake						

resistant						
Other _____						

11. Historical Damage Events in Multnomah County

Your past experience with natural hazards and disasters is important to our understanding of natural hazards affecting Multnomah County. Tell us about your experience in past disaster events while living in Multnomah County: especially for events such as winter storms (snow, ice, wind), wildland/wildland urban interface fires, and floods that happen frequently or relatively frequently.

Of special interest are locations within Multnomah County where there have been severe or repetitive problems.

Event #1	Information About Event #1
Type of hazard event	
Approximate Date(s)	
Location affected	
Tell us about what damages you saw and any deaths or injuries that resulted, of which you're aware.	

Event #2	Information About Event #2
Type of hazard event	
Approximate Date(s)	
Location affected	
Tell us about what damages you saw	

and any deaths or injuries that resulted, of which you're aware.	
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Event #3	Information About Event #3
Type of hazard event	
Approximate Date(s)	
Location affected	
Tell us about what damages you saw and any deaths or injuries that resulted, of which you're aware.	

SURVEY FOR GENERAL PUBLIC (Spanish)

El presente cuestionario tiene por finalidad ayudar al Condado de Multnomah a actualizar su Plan de Mitigación de Peligros Naturales (*Natural Hazard Mitigation Plan*) mediante la identificación de las inquietudes de la comunidad con respecto a los peligros naturales y entender mejor las preferencias de la comunidad relativas a la reducción de los riesgos y pérdidas producto de peligros naturales como inundaciones, sismos, tempestades de invierno, incendios en zonas semi urbanas, corrimientos de tierra y actividad volcánica. El término “mitigación” se refiere a las medidas que se adoptarán para disminuir los daños, pérdidas económicas y víctimas potenciales en desastres futuros.

La actualización del Plan de Mitigación de Peligros Naturales tiene por finalidad:

- Incluir la información más reciente acerca de sismos, inundaciones y otros peligros naturales.
- Conservar la elegibilidad para los subsidios de mitigación de FEMA (Agencia Federal para el Manejo de Emergencias) mediante los cuales se financiarán medidas que reduzcan las amenazas que representan los sismos, las inundaciones y otros peligros a edificios e infraestructuras importantes.
- Ayudar al Condado de Multnomah a identificar situaciones de alto riesgo y a priorizar las acciones de mitigación.

Le rogamos se tome unos cuantos minutos para llenar el cuestionario. El cuestionario debe ser llenado por una persona adulta.

Todas las respuestas individuales son anónimas y serán combinadas con las demás respuestas para poder determinar las perspectivas globales de la comunidad con respecto a los peligros naturales que afectan a los residentes del Condado de Multnomah. Sus respuestas ayudarán al Condado de Multnomah a garantizar la seguridad y la sostenibilidad de la calidad de vida de los residentes y negocios del Condado. Gracias.

1. Ingrese el código postal de su residencia (5 dígitos):

2. ¿Usted o algún miembro de su familia han sido víctimas de lesiones, daños o pérdidas económicas a raíz de peligros naturales en el Condado de Multnomah? **Marque TODAS las respuestas que correspondan.**

- ☐ Sismos
- ☐ Incendios en zonas semi urbanas
- ☐ Inundaciones
- ☐ Corrimientos de tierra o aludes
- ☐ Eventos volcánicos
- ☐ Climas extremos (nieve, viento, hielo)
- ☐ Otro _____

3. ¿Teme que se produzcan desastres en un futuro a raíz de los peligros naturales siguientes?

Marque TODAS las respuestas que correspondan.

- ☐ Sismos
- ☐ Incendios en zonas semi urbanas
- ☐ Inundaciones
- ☐ Corrimientos de tierra o aludes
- ☐ Eventos volcánicos
- ☐ Climas extremos (nieve, viento, hielo)
- ☐ Otro _____

4. ¿Cuáles de los peligros naturales siguientes cree usted representarán el mayor peligro para su familia, vivienda y centro laboral en los próximos 20 años?

Enumere las opciones del 1 al 6 empezando por la que considere más peligrosa. OTRO es opcional.

- ☐ Sismos
- ☐ Incendios en zonas semi urbanas
- ☐ Inundaciones
- ☐ Corrimientos de tierra o aludes
- ☐ Eventos volcánicos
- ☐ Climas extremos (nieve, viento, hielo)
- ☐ Otro _____

5. ¿Tomó en cuenta la posibilidad de peligros naturales cuando compró su vivienda actual o se mudó a ella?

- ☐ Sí
- ☐ No

Si respondió Sí (a la pregunta 5), ¿cuáles peligros? Marque TODAS las respuestas que correspondan.

- ☐ Sismos
- ☐ Incendios en zonas semi urbanas
- ☐ Inundaciones
- ☐ Corrimientos de tierra o aludes
- ☐ Eventos volcánicos
- ☐ Climas extremos (nieve, viento, hielo)
- ☐ Otro _____

Si respondió No (a la pregunta 5), ¿por qué no tomó en cuenta la posibilidad de peligros naturales?

- ☐ No se me ocurrió tomarlos en consideración.
- ☐ No creí que me vería afectado personalmente por un peligro natural.
- ☐ El Condado me informaría de la existencia de un problema potencial.
- ☐ Otro _____

6. ¿Le preocupan los peligros naturales?

- ☐ Sí me preocupan los peligros naturales.
- ☐ NO, no me preocupan los peligros naturales.

7. ¿Le interesaría tomar medidas para proteger a su familia, negocio y vivienda de un peligro natural?

- ☐ Sí me interesaría tomar medidas preventivas para hacer algo con respecto a mis preocupaciones.
- ☐ NO, no me interesaría tomar medidas preventivas.

8. Supongamos que alguien le da \$10,000 para que usted haga algo con respecto a su vivienda, negocio o comunidad para que sean menos vulnerables a los peligros naturales. ¿Cómo emplearía ese dinero?

9. Si las ciudades, distritos especiales u organizaciones no gubernamentales del Condado de Multnomah tomaran medidas para disminuir la pérdida de vidas, daños a los bienes o pérdidas económicas debido a desastres futuros en el Condado de Multnomah, me parece que deberían adoptar las medidas siguientes:

Enumere del 1 al 11 las prioridades de mitigación que debe considerar el Condado, empezando por la que usted considere más importante:

- ___ Reducción de los daños a los sistemas de electricidad, gas, agua y desagüe
- ___ Reducción de los daños a las vías públicas y puentes
- ___ Reducción de los daños a los hospitales
- ___ Reducción de los daños a las estaciones de bomberos y comisarías
- ___ Reducción de los daños a las escuelas
- ___ Reducción de los daños a edificios públicos

- ☐ Reducción de los daños a edificios privados
- ☐ Reducción del número de muertos y heridos
- ☐ Protección de los entornos naturales de los desastres
- ☐ Protección de los hitos históricos y culturales
- ☐ Prevención de la urbanización en las zonas de alto peligro

10. Estrategias para reducir el riesgo y las pérdidas a raíz de desastres naturales

Sírvase clasificar su nivel de apoyo a las estrategias siguientes encaminadas a reducir la pérdida de vidas, daños a los bienes y pérdidas económicas a raíz de desastres futuros en el Condado de Multnomah.

Estrategia	Enfática- mente de acuerdo	De acuerdo	Neutro	En desa- cuerdo	Enfática- mente en desacuerdo	No estoy seguro
Apoyo un enfoque regulador para reducir los riesgos						
Apoyo un enfoque no regulador para reducir los riesgos						
Apoyo un enfoque voluntario para reducir los riesgos						
Apoyo políticas para limitar la urbanización en las zonas de alto peligro						
Apoyo el empleo de los impuestos recaudados localmente para reducir los peligros y las pérdidas producto de peligros naturales						
Estaría dispuesto a gastar \$500 para que mi vivienda sea más resistente a los desastres						
Estaría dispuesto a gastar \$5000 para que mi vivienda sea más resistente a los desastres						
Estoy a favor de hacer las escuelas más resistentes a los sismos						
Estoy a favor de hacer los						

edificios públicos más resistentes a los sismos						
Estoy a favor de hacer los servicios públicos más resistentes a los sismos						
Estoy a favor de hacer los puentes más resistentes a los sismos						
Otro _____						

11. Eventos pasados que provocaron daños en el Condado de Multnomah

Las experiencias relacionadas a peligros naturales y desastres que usted haya vivido son importantes para que podamos entender la manera en que los peligros naturales afectan al Condado de Multnomah. Cuéntenos acerca de las experiencias que haya tenido con eventos de desastres durante su residencia en el Condado de Multnomah: sobre todo con eventos tales como tempestades de invierno (nieve, hielo, viento), incendios en zonas semi urbanas e inundaciones que se hayan producido con frecuencia o con relativa frecuencia.

Nos interesan sobre todo las zonas del Condado de Multnomah en las que se produzcan problemas severos o repetitivos.

Evento #1	Información sobre el evento #1
Tipo de evento de peligro	
Fecha(s) aproximada(s)	
Zona afectada	
Díganos acerca de los daños que observó y de cualquier muerte o lesión que haya resultado, de los que usted esté al tanto.	

Evento #2	Información sobre el evento #2
Tipo de evento de peligro	
Fecha(s) aproximada(s)	
Zona afectada	
Díganos acerca de los daños que observó y de cualquier muerte o lesión que haya resultado, de los que usted esté al tanto.	

Evento #3	Información sobre el evento #3
Tipo de evento de peligro	
Fecha(s) aproximada(s)	
Zona afectada	
Díganos acerca de los daños que observó y de cualquier muerte o lesión que haya resultado, de los que usted esté al tanto.	

SURVEY FOR TECHNICAL STAKEHOLDERS

This questionnaire is designed to assist Multnomah County in the update of their Natural Hazard Mitigation Plan by identifying stakeholder/agency concerns about natural hazards and to better understand stakeholder preferences in reducing risk and loss from natural hazards. Please take a few minutes to complete this questionnaire.

The purposes for the update of the Natural Hazard Mitigation Plan include:

- Include the most recent data for earthquakes, floods and other natural hazards.
- Maintain eligibility for FEMA mitigation grants to fund measures to reduce the threats posed by earthquakes, floods and other hazards to important buildings and infrastructure.
- Help Multnomah County identify high risk situations and to prioritize mitigation actions.

1. Please enter your contact information:

Name	
Agency Affiliation	
Position	
Phone	
Email	

2. Perceived Risk from Natural Hazards.

Risk means the threats to buildings, infrastructure and people. Risk depends on the combination of two factors:

- The frequency and severity of hazard events
- The vulnerability of the built environment to each hazard, the quantity of buildings, infrastructure and people exposed to a given hazard.

Which of the following natural hazards do you think pose the greatest threat to Multnomah County over the next 20 years?

Rank the hazards with 1 posing the greatest threat, 2 posing the next greatest threat and so on. *OTHER is optional.*

- ___ Earthquakes
- ___ Wildland/urban interface fires
- ___ Floods

- ☐ Landslides/mudslides
- ☐ Volcanic Events
- ☐ Severe Weather (snow, wind, ice)
- ☐ Other _____
- ☐ Other _____

3. Imagine that someone gave you \$1,000,000 to make Multnomah County less vulnerable to natural hazards, what would you spend it on?

4. Mitigation Priorities.

Mitigation means actions taken to reduce damages, economic losses and casualties in future disaster events.

Rank your preferences for the mitigation priorities the County should follow from 1 to 11, with 1 being the highest priority, 2 being the next highest priority, etc:

- ☐ Reduce damage to electric power, gas, water and sewer systems
- ☐ Reduce damage to roads and bridges
- ☐ Reduce damage to hospitals
- ☐ Reduce damage to fire stations and police stations
- ☐ Reduce damage to schools
- ☐ Reduce damage to public buildings
- ☐ Reduce damage to private buildings
- ☐ Reduce deaths and injuries
- ☐ Protect the natural environment from disasters
- ☐ Protect historical and cultural landmarks
- ☐ Prevent future development in high hazard areas

5. Strategies to Reduce Risk and Losses from Natural Disasters

Please rank your level of support for the following strategies to reduce loss of life, property damage and economic loss from future disasters in Multnomah County.

Strategy	Agree Strongly	Agree	Neutral	Disagree	Disagree Strongly	Not Sure
I support a regulatory approach to reducing risk						
I support non-Regulatory approach to reducing risk						
I support voluntary approach to reducing risk						
I support policies to limit development in high hazard areas						
I support using local tax dollars to reduce risks and losses from natural hazards						
I would be willing to spend \$500 to make my home more disaster-resistant						
I would be willing to spend \$5000 to make my home more disaster-resistant						
I support making schools more earthquake-resistant						
I support making public buildings more earthquake-resistant						
I support making utilities more earthquake-resistant						
I support making bridges more earthquake resistant						
Other _____						

MEETINGS

June 15, 2009

July 20, 2009

August 24, 2009

September 24, 2009

October 15, 2009

November 19, 2009

January 21, 2010

February 18, 2010

March 18, 2010

April 15, 2010

May 20, 2010

June 17, 2010

July 15, 2010

January 18, 2011

May 25, 2011

August 10, 2011

November 17, 2011

June 15, 2009 Meeting

Natural Hazard Mitigation Plan Agenda Date: June 15, 2009 Time: 10-11am Multnomah Building-Basement, Room 016A 501 SE Hawthorne Portland, OR

Mission Statement of Group

To conduct a hazard analysis and steps in planning for hazard mitigation, response, and recovery. The method provides the jurisdiction with a sense of hazard priorities, or relative risk. The hazard analysis will not predict the occurrence of a particular hazard; only quantify the risk of one hazard compared with another. The analysis and planning will allow the group to determine where the risk is greatest.

Attendees and Guests: Todd Felix, Raquel Coyote, Staci Huffaker, MCBRIDE Michael C, GRIST Bob, BULLOCK Steven, Marzette Andrea, Kim Peoples, Kathleen Reiter, Jon Schrotzberger, Chuck Beaseley, Andrea Westersund, Mark Fennell.
Tentative: Carmen Merlo (POEM), Dave Hendricks (MC Drainage District).

Facilitator: Armando Espinoza – Bob Grist

Minutes: Pam Pinckard

Desired Outcomes for this meeting:

- Identify potential grant projects
- Identify new members to service on the committee
- Identify and determine meeting schedule

AGENDA ITEM	HOW (PROCESS)	WHO (LEAD)	TIME (MINUTES)
Introductions	Round table process	All	10
Background overview	Topics and points of interest. Possible hazards to consider	Facilitator Bob Grist	10
Open discussion	Round robin – alternating ideas –discussion.	Bob Grist – Armando E.	30
Adjourn/meeting	Schedule next meeting	Pam Pinckard	10

July 20, 2009

**Natural Hazard Mitigation Plan
Agenda Date: July 20, 2009 Time: 9-10 am
Multnomah Building, Room 016A
501 SE Hawthorne
Portland, OR**

Mission Statement of Group

To conduct a hazard analysis and steps in planning for hazard mitigation, response, and recovery. The method provides the jurisdiction with a sense of hazard priorities, or relative risk. The hazard analysis will not predict the occurrence of a particular hazard; only quantify the risk of one hazard compared with another. The analysis and planning will allow the group to determine where the risk is greatest.

Planned Attendees and Guests: KAI Snyder (GIS Multco), Amy Esnard (GIS Multco), Todd Felix (Gresham), Raquel Coyote (Sauvie Island), Mike McBride (Multco Facilities), Kim Peoples (Multco Transportation), Kathleen Reiter (Corbett NERT), Carnetta Boyd (Corbett NERT), Patty Rueter (POEM), Staci Huffaker (Risk Mgr, Mt Hood CC), Jon Schrotzberger (Multco Facilities); Chuck Beaseley (Multco Senior Planner); Mark Fennell (PCC Risk Mgr); Dave Hendricks (Multco Drainage District); Les Miller (Corps of Engineers Program Mgr); Lorelei Juntunen (ECO Northwest Planning); Andrea Marzette (Port of Portland).

**Facilitator: Armando Espinoza
Minutes: Pam Pinckard**

Desired Outcomes for this meeting:

- Revisit and discuss LIDAR mapping and layers/completion date/time line.
- Discuss other mitigation topic/projects.
- Other business.

AGENDA ITEM	HOW (PROCESS)	WHO (LEAD)	TIME (MINUTES)
Introductions	Round table process	All	10
Open/Brief review of previous meeting	Recap previous meeting	Pam/Armando	10

Discuss LIDAR mapping	Topics and points of interest	Facilitator: Bob Grist	10
Open discussion	Round robin – mitigation concerns.	Bob Grist - Armando E.	25
Adjourn/meeting	Schedule next meeting	Pam Pinckard	5



Hazard Mitigation Technical Advisory Committee Meeting

August 24, 2009

**Natural Hazard Mitigation Committee
Meeting Date: August 24, 2009 Time: 10-11am
Multnomah Building, Room 016A
501 SE Hawthorne
Portland, Oregon**

Mission Statement of Group

To conduct a hazard analysis and steps in planning for hazard mitigation, response, and recovery. The method provides the jurisdiction with a sense of hazard priorities, or relative risk. The hazard analysis will not predict the occurrence of a particular hazard; only quantify the risk of one hazard compared with another. The analysis and planning will allow the group to determine where the risk is greatest.

Invitees: Bill Burns (DOGMI) Kai Snyder (GIS Multco), Todd Felix (Gresham), Mike McBride (Multco Facilities), Kathleen Reiter (Corbett NERT), Staci Huffaker (Risk Mgr, Mt Hood CC), Bob Grist (MCEM), Celia Duclos (Portland State), Tom Peterson (Port of Portland), Garrett Lang (Roads & Bridges) Amy Esnard (GIS Multco), Raquel Coyote (Sauvie Island), Kim Peoples (Multco Transportation), Carnetta Boyd (Corbett NERT), Patty Rueter (POEM), Jon Schrotzberger (Multco Facilities), Chuck Beaseley (Multco Senior Planner); Mark Fennell (PCC Risk Mgr); Dave Hendricks (Multco Drainage District); Les Miller (Corps of Engineers Program Mgr).

Facilitator: Armando Espinoza

Minutes: Pam Pinckard

Desired Outcomes for this meeting:

- Brief understanding of LiDAR mapping, presented by Norm Burns of DOGAMI
- Revisit and discuss LiDAR mapping and layers/completion date/time line.
- Discuss other mitigation topic/projects.
- Other business.

AGENDA ITEM	HOW (PROCESS)	WHO (LEAD)	TIME (MINUTES)
Introductions	Round table process	All	10
Open/Brief review of previous meeting	Recap previous meeting	Pam/Armando	10

Discuss LIDAR mapping	Topics and points of interest	Facilitator: Bob Grist	10
Open discussion	Round robin – mitigation concerns.	Bob Grist - Armando E.	25
Adjourn/meeting	Schedule next meeting	Pam Pinckard	5

September 24, 2009

**Natural Hazard Mitigation Committee
Meeting Date: September, 24 2009 Time: 10-11am
Multnomah Building, Room 016A
501 SE Hawthorne
Portland, Oregon**

Mission Statement of Group

To conduct a hazard analysis and steps in planning for hazard mitigation, response, and recovery. The method provides the jurisdiction with a sense of hazard priorities, or relative risk. The hazard analysis will not predict the occurrence of a particular hazard; only quantify the risk of one hazard compared with another. The analysis and planning will allow the group to determine where the risk is greatest.

Invitees: Bill Burns (DOGMI) Kai Snyder (GIS Transportation Multco), Todd Felix (Gresham), Mike McBride (Multco Facilities), Kathleen Reiter (Corbett NERT), Staci Huffaker (Risk Mgr, Mt Hood CC), Bob Grist (MCEM), Celia Duclos (Portland State), Tom Peterson (Port of Portland), Garrett Lang (Roads & Bridges) Amy Esnard (GIS Multco), Raquel Coyote (Sauvie Island), Kim Peoples (Multco Transportation), Carnetta Boyd (Corbett NERT), Patty Rueter (POEM), Jon Schrotzberger (Multco Facilities), Chuck Beaseley (Multco Senior Planner); Mark Fennell (PCC Risk Mgr); Dave Hendricks (Multco Drainage District); Les Miller (Corps of Engineers Program Mgr).

Facilitator: Armando Espinoza

Minutes: Pam Pinckard

Desired Outcomes for this meeting:

- Revisit Liar mapping, time-line/set date for completion short term (ST)
- Revisit other Mitigation projects and plans
- Discuss how projects relate to the Framework and Mission statement under Natural Hazards
- Other business.

AGENDA ITEM	HOW (PROCESS)	WHO (LEAD)	TIME (MINUTES)
Introductions	Round table process	All	10
Open/Brief review of	Recap previous meeting	Pam/Armando	10

previous meeting			
Discuss LIDAR mapping Projects	Short Term (SL) completion date What qualifies under Natural Hazard	Facilitator: Bob Grist	10
Open discussion	Round robin – Natural Mitigation	Bob Grist - Armando E.	25
Adjourn/meeting	Schedule next meeting	Pam Pinckard	5

OCTOBER 15, 2009

Natural Hazard Mitigation Committee
Meeting Date: Thursday October 15, 2009, 8:30-9:30 am
Multnomah Building, Room 235
501 SE Hawthorne
Portland, Oregon

Mission Statement of Group

To conduct a hazard analysis and steps in planning for hazard mitigation, response, and recovery. The method provides the jurisdiction with a sense of hazard priorities, or relative risk. The hazard analysis will not predict the occurrence of a particular hazard; only quantify the risk of one hazard compared with another. The analysis and planning will allow the group to determine where the risk is greatest.

Invitees:

Facilitator: Pam Pinckard

Desired Outcomes for this meeting:

- Clearly identify 1-2 mitigation projects that can be started within the next four months.
- Identify next steps for developing projects and securing funding
- Delegate next steps
- MCEM report out on Action Item progress as known
- Report on GIS mapping

AGENDA ITEM	HOW (PROCESS)	WHO (LEAD)	TIME (MINUTES)
Introductions	Round table process	All	5
Progress Review	Recap of previous meeting Action Item Report	Bob/Pam	10
Project Development	Johnson Creek Flooding Landslides along roadways Seismic upgrade to critical/essential buildings	Pam	20
GIS Mapping	Review data available on maps	Ben Harper	10
New Business	Suggestions for new projects	All	10
Adjourn/meeting	Schedule next meeting	Pam Pinckard	5

NOVEMBER 19, 2009

Natural Hazard Mitigation Committee
Meeting Date: Thursday November 19, 2009, 8:30-9:30 am
Multnomah Building, Room 235
501 SE Hawthorne
Portland, Oregon

Mission Statement of Group

To conduct a hazard analysis and steps in planning for hazard mitigation, response, and recovery. The method provides the jurisdiction with a sense of hazard priorities, or relative risk. The hazard analysis will not predict the occurrence of a particular hazard; only quantify the risk of one hazard compared with another. The analysis and planning will allow the group to determine where the risk is greatest.

Invitees: Adam Zucker, Bob Cochran, Brian Haley, Carnetta Boyd, Celia Duclos, Dave Hendricks, Amy Esnard, Todd Felix, Benjamin Harper, Kathleen Reiter, Garrett Lang, Les Miller, Mike McBride, Kim Peoples, Raquel Coyote, Kai Snyder, Staci Huffaker, Tom Peterson.

MCEM Staff: Stevie Bullock, Bob Grist, Dave Houghton

Facilitator: Pam Pinckard

Desired Outcomes for this meeting:

- Check progress on project development
- Identify next steps for developing projects and securing funding
- Delegate next steps

AGENDA ITEM	HOW (PROCESS)	WHO (LEAD)	TIME (MINUTES)
Introductions	Round table process	All	5
Progress Review	Recap of previous meeting	Bob/Pam	5
Project Development	Johnson Creek Flooding Landslides along roadways Seismic upgrade to critical/essential buildings	Pam/Bob/Dave/All	25
New Business	Suggestions for new projects	All	10
Adjourn/meeting	Schedule next meeting	Pam Pinckard	5

JANUARY 21, 2010

Natural Hazard Mitigation Committee
Meeting Date: Thursday January 21, 2010, 8:30-9:30 am
Multnomah Building, Room 235
501 SE Hawthorne
Portland, Oregon

Mission Statement of Group

To conduct a hazard analysis and steps in planning for hazard mitigation, response, and recovery. The method provides the jurisdiction with a sense of hazard priorities, or relative risk. The hazard analysis will not predict the occurrence of a particular hazard; only quantify the risk of one hazard compared with another. The analysis and planning will allow the group to determine where the risk is greatest.

Invitees: Adam Zucker, Bob Cochran, Brian Haley, Carnetta Boyd, Celia Duclos, Dave Hendricks, Amy Esnard, Todd Felix, Benjamin Harper, Kathleen Reiter, Garrett Lang, Les Miller, Mike McBride, Kim Peoples, Raquel Coyote, Kai Snyder, Staci Huffaker, Tom Peterson.

MCEM Staff: Stevie Bullock, Bob Grist, Dave Houghton

Facilitator: Pam Pinckard

Desired Outcomes for this meeting:

- Overview of Grant guidance
- Finalize projects for this grant
- Begin list of natural hazards not addressed or eligible through this grant
- Discuss re-writing Hazard Mitigation Plan.

AGENDA ITEM	HOW (PROCESS)	WHO (LEAD)	TIME (MINUTES)
Introductions	Round table process	All	5
Progress Review	Recap of previous meeting	Bob/Pam	5
Overview of Grant Guidance	Review project eligibility	Dave	15
Identify additional hazards	From entire group	Pam	15
Discuss Hazard Mitigation Plan	Need for rewrite	Bob	10
New Business		All	5
Adjourn/meeting	Schedule next meeting	Pam Pinckard	5

FEBRUARY 18, 2010

Natural Hazard Mitigation Committee

**Meeting Date: Thursday February 18, 2010, 8:30-9:30 am
Multnomah Building, Room B-016a
501 SE Hawthorne, Portland, Oregon**

Mission Statement of Group

To conduct a hazard analysis and steps in planning for hazard mitigation, response, and recovery. The method provides the jurisdiction with a sense of hazard priorities, or relative risk. The hazard analysis will not predict the occurrence of a particular hazard; only quantify the risk of one hazard compared with another. The analysis and planning will allow the group to determine where the risk is greatest.

Invitees: Adam Zucker, Bob Cochran, Brian Haley, Carnetta Boyd, Celia Duclos, Dave Hendricks, Amy Esnard, Todd Felix, Benjamin Harper, Kathleen Reiter, Garrett Lang, Les Miller, Mike McBride, Kim Peoples, Raquel Coyote, Kai Snyder, Staci Huffaker, Tom Peterson.

MCEM Staff: Stevie Bullock, Bob Grist

Facilitator: Dave Houghton

Desired Outcomes for this meeting:

- Update: Hazard Mitigation Grant for DR-1824-OR
- Agree to the process for current reviews

AGENDA ITEM	HOW (PROCESS)	WHO (LEAD)	TIME (MINUTES)
Introductions	Round table process	All	5
Hazard Mitigation Grant FEMA (DR-1824-OR)	Update on decision to submit applications	Dave	5
Hazard Mitigation Plan	Process to update/re-write	Bob/Stevie	20
New Business	Good of the order	All	15
Adjourn/meeting	Schedule next meeting	Dave	5

MARCH 18, 2010

Natural Hazard Mitigation Committee
Meeting Date: Thursday March 18, 2010, 8:30-9:30 am
Multnomah Building, Room B016a
501 SE Hawthorne, Portland, Oregon

Mission Statement of Group

To conduct a hazard analysis and steps in planning for hazard mitigation, response, and recovery. The method provides the jurisdiction with a sense of hazard priorities, or relative risk. The hazard analysis will not predict the occurrence of a particular hazard; only quantify the risk of one hazard compared with another. The analysis and planning will allow the group to determine where the risk is greatest.

Invitees: Adam Zucker, Bryant Haley, Carnetta Boyd, Celia Duclos, Dave Hendricks, Amy Esnard, Todd Felix, Benjamin Harper, Kathleen Reiter, Garrett Lang, Les Miller, Mike McBride, Kim Peoples, Raquel Coyote, Kai Snyder, Staci Huffaker, Tom Peterson.

MCEM Staff: Joe Partridge, Bob Grist, Tina Birch, Luis Hernandez

Facilitator: Dave Houghton

Desired Outcomes for this meeting:

- Review informational documents from OEM
- Discuss Hazard Mitigation Plan updating checklist and process.

AGENDA ITEM	HOW (PROCESS)	WHO (LEAD)	TIME (MINUTES)
Introductions	Round table process	All	5
Introduction of new staff	Self-introductions	Dave	10
Review OEM documentation	Updating the NHMP, Use of the Update Toolkit	Bob	25
New Business/Info	Round Robin	All	15
Adjourn/meeting	Schedule next meeting – There will be a special time for next meeting – watch for the email!	Tina	5

April 15, 2010

Natural Hazard Mitigation Committee
Meeting Date: Thursday April 15, 2010, 8:30-9:30 am
Multnomah Building, Room B016a
501 SE Hawthorne Blvd
Portland, Oregon

Mission Statement of Group

To conduct a hazard analysis and steps in planning for hazard mitigation, response, and recovery. The method provides the jurisdiction with a sense of hazard priorities, or relative risk. The hazard analysis will not predict the occurrence of a particular hazard; only quantify the risk of one hazard compared with another. The analysis and planning will allow the group to determine where the risk is greatest.

Attendees: Todd Felix, Benjamin Harper, Mike McBride, Kim Peoples, Laureen Paulsen, Byron Woltersdorf, Justin Krueger, Kathleen Reiter, Carnetta Boyd, Les Miller

MCEM Staff: Bob Grist, Dave Houghton, Tina Birch, Joe Partridge, Luis Hernandez

Guests: Ken Goettel, Dennis Sigrist

Facilitator: Dave Houghton

Desired Outcomes for this meeting:

AGENDA ITEM	HOW (PROCESS)	WHO (LEAD)	TIME (MINUTES)
Introductions	Round table process	All	5
Introduction of guests	Dennis Sigrist from the Oregon Office of Emergency Management and Ken Goettel from		
Review processes for NHMP update from OEM	Informational/Q&A	Dennis Sigrist	25
Grant Funding Streams			
Adjourn/meeting	Schedule next meeting	Tina Birch	5
	The next meeting is scheduled for Thursday, May 20th.		

MAY 20, 2010

Natural Hazard Mitigation Committee

Agenda

**Meeting Date: Thursday May 20, 2010, 8:30-9:30 am
Multnomah Building, Room B-016a
501 SE Hawthorne Blvd
Portland, Oregon**

Mission Statement of Group

To conduct a hazard analysis and steps in planning for hazard mitigation, response, and recovery. The method provides the jurisdiction with a sense of hazard priorities, or relative risk. The hazard analysis will not predict the occurrence of a particular hazard; only quantify the risk of one hazard compared with another. The analysis and planning will allow the group to determine where the risk is greatest.

Guests:

MCEM Staff: Dave Houghton, Joe Partridge, Luis Hernandez

Facilitator: Dave Houghton

Desired Outcomes for this meeting:

- Discuss group focus and membership
- Present high level roadmap for the Natural Hazard Mitigation Plan renewal

AGENDA ITEM	HOW (PROCESS)	WHO (LEAD)	TIME (MINUTES)
Introductions	Round table process	All	5
Committee Mission Statement	Present possible redefinition of group mission statement	Dave	15
Plan renewal project	Handout and discuss roadmap document	Luis	35
Adjourn/meeting	Schedule next meeting	Dave	5

JUNE 17, 2010

Natural Hazard Mitigation Committee

Agenda

**Meeting Date: Thursday June 17, 2010, 8:30-9:30 am
Multnomah Building, Room B-016a
501 SE Hawthorne Blvd
Portland, Oregon**

Mission Statement of Group

To conduct a hazard analysis and steps in planning for hazard mitigation, response, and recovery. The method provides the jurisdiction with a sense of hazard priorities, or relative risk. The hazard analysis will not predict the occurrence of a particular hazard; only quantify the risk of one hazard compared with another. The analysis and planning will allow the group to determine where the risk is greatest.

Guests:

MCEM Staff: Dave Houghton, Joe Partridge, Luis Hernandez

Facilitator: Dave Houghton

Desired Outcomes for this meeting:

- Define group membership and meeting schedule
- Agree on Flood Hazard section Statement of Work

AGENDA ITEM	HOW (PROCESS)	WHO (LEAD)	TIME (MINUTES)
Introductions	Round table process	All	5
Old business	Review and approval of last meeting minutes	Luis	5
Committee Mission Statement	Discuss possible redefinition of group mission statement	Dave	10
Flood Hazard Component Statement of Work	Review draft SOW and performance requirements on white board.	Luis	30
Committee Composition	Discuss committee meeting schedule and organization	Luis	5
Adjourn/meeting	Schedule next meeting	Dave	5

JULY 15, 2010

**Natural Hazard Mitigation Committee
Agenda**

**Meeting Date: Thursday July 15, 2010, 8:30-9:30 am
Multnomah Building, Room B-016a
501 SE Hawthorne Blvd
Portland, Oregon**

Mission Statement of Group

To conduct a hazard analysis and steps in planning for hazard mitigation, response, and recovery. The method provides the jurisdiction with a sense of hazard priorities, or relative risk. The hazard analysis will not predict the occurrence of a particular hazard; only quantify the risk of one hazard compared with another. The analysis and planning will allow the group to determine where the risk is greatest.

Members: Todd Felix, Gresham EM; Mike McBride, MC Facilities Management; Kim Peoples, MC Transportation; Byron Woltersdorf, MC Drainage Dist #1; Benjamin Harper, MC GIS; Chris Wirth, MC Vector Nuisance Control/Environmental Health; Marc Anderson, MC Risk Management; Adam Barber, MC LUT; D. Les Miller, Army Corps of Engineers; Patty Rueter, POEM; Tim Couch, Sauvie Island Drainage District; Kori Olson, Port of Portland.

MCEM Staff: Luis Hernandez, Joe Partridge

Facilitator: Luis Hernandez

Desired Outcomes for this meeting:

- Welcome new members and discuss mission statement
- Record status of current plan's action items
- Understand status of procurement process

AGENDA ITEM	HOW (PROCESS)	WHO (LEAD)	TIME (MINUTES)
Introductions	Round table process	All	5
Old business	Review and approval of last meeting minutes	Luis	5
Committee Mission Statement	Share and discuss draft of group mission statement	Luis	10
Current Action Items status	Discuss status of existing action items and record in excel document	Luis	30
Procurement status	Update on procurement process.	Luis	5
Adjourn/meeting	Schedule next meeting for October 21	Luis	5

JANUARY 18, 2011

MULTNOMAH COUNTY NATURAL HAZARD MITIGATION PLAN UPDATE KICK-OFF MEETING

JANUARY 18, 2011, 8:30 AM – 11:30 AM

- AGENDA -

Location: Multnomah Building, 501 SE Hawthorne Blvd., Suite 250, Portland

Purpose and Objectives:

The purpose of this meeting is to kick-off the update of the Multnomah County Natural Hazard Mitigation Plan (NHMP).

The objectives of this meeting are to (1) review the project scope and schedule (2) discuss NHMP Committee expectations and success factors, (3) clarify roles and responsibilities of the NHMP Committee and Consultants, and (4) collect pertinent information from participants.

8:30– 8:45	1. Welcome and Introductions (<i>name, organization, role in hazard mitigation planning</i>)
8:45– 9:15	2. Brief Overview of Mitigation Planning process and FEMA Requirements (<i>Goettel PowerPoint</i>) including Q&A
9:15– 9:35	3. NHMP Committee Expectations and Success Factors
9:35– 9:50	4. Roles and Responsibilities of NHMP Committee and Consultants
9:50– 10:15	5. Project Scope and Schedule including Public/Stakeholder Involvement
10:15– 11:25	6. Discussion and Collection of Pertinent Data Inputs (<i>including identification of others with pertinent information</i>) <ul style="list-style-type: none">a) <i>Identification of critical facilities - buildings (government and non-governmental - such as hospitals) and critical nodes and links in utility systems (publically and privately owned)</i>b) <i>Information about past disaster events (dates, locations, damages and other impacts - especially re: sites of repetitive or severe damages or damages to critical facilities)</i>c) <i>Input regarding mitigation action items and priorities (taking into account the level of hazard, the vulnerability of what's "at risk", and the likelihood of events and damages)</i>
11:25– 11:30	7. Next Steps and Adjourn

MAY 25, 2011

**MULTNOMAH COUNTY
NATURAL HAZARD MITIGATION PLAN UPDATE
MID PROJECT MEETING**

**MAY 25, 2011, 1:00 PM – 4:00 PM
- AGENDA -**

Location: Multnomah Building, 501 SE Hawthorne Blvd., Suite 400-Maple Room 1, Portland

Purpose and Objectives:

The purpose of this meeting is to review the status and next steps for the Multnomah County Natural Hazard Mitigation Plan (NHMP) update project.

The objectives of this meeting are to (1) review the project scope and schedule (2) discuss project successes and challenges, (3) outline the next steps and strategies to move the project forward, and (4) confirm assignment of activities to complete.

Time	What	How	Outcome
1300	Introduction -Luis-	Introduce agenda and conduct round robin introductions	Establish consensus on purpose of meeting
1310	Project Scope Review -Luis-	Presentation followed by Questions and Answers	Understand the scope of this project and approach for involvement
1330	Contractor status update -Goettel-	Presentation	Be familiar with contractor's progress and understand challenges
1345	Project Manager status update -Luis-	Presentation	Be familiar with project manager's progress and understand challenges
1400	Steering Committee status update -All-	Discussion on role, contribution and issues	Everyone understands the role each has or will contribute to the project
1415	Break		
1425	Moving forward -Goettel-	Facilitated Discussion	Understand upcoming critical activities, task dependencies and decision making processes
1500	Open issues -Goettel/Luis-	Facilitated Discussion	Issues and concerns that require input from the steering committee will be surfaced and recorded
1530	Review punch list and make assignments -Luis/Goettel-	Facilitated Discussion	We all walk away with clear understanding of tasks, expectations and deadlines
1550	Next Steps and adjourn -Luis-		

AUGUST 10, 2011

**MULTNOMAH COUNTY
NATURAL HAZARD MITIGATION PLAN UPDATE
ACTION PLANNING MEETING**

**AUG 10, 2011, 8:30 AM – 11:30 AM
- AGENDA -**

Location: Multnomah Building, 501 SE Hawthorne Blvd., ECC, Portland

Purpose and Objectives:

The purpose of this meeting is to review the status and next steps for the Multnomah County Natural Hazard Mitigation Plan (NHMP) update project.

The objectives of this meeting are to (1) review the current drafted chapters (2) review current action items and define new ones (3) outline the public meeting process and logistics, and (4) confirm expectations on remaining project activities.

Time	What	How	Outcome
0830	Introduction -Luis-	Introduce agenda and conduct round robin introductions	Establish consensus on purpose of meeting
0840	Review the main finds of the hazard, vulnerability and risk assessments. Review relative rankings -Goettel-	Presentation followed by discussion	Understand the foundation of the NHMP
0930	Review the punch list -Goettel-	Facilitated Discussion	We all walk away with clear understanding of tasks, expectations and deadlines
0940	Review 2006 action items -Luis-	Facilitated Discussion	Review the status of pending, completed and updated action items
1000	Discuss 2011 action items -Ken-	Facilitated Discussion	Identify and define draft 2011 action items
1115	Discuss public meeting agenda/support -Luis-	Presentation followed by discussion	Outline the public meeting agenda and identify logistical support
1125	Next Steps and adjourn -Luis/Goettel-		

Contact: Luis Hernandez, Multnomah County Response Readiness Coordinator, (503) 988-6041

November 17, 2011

**MULTNOMAH COUNTY
NATURAL HAZARD MITIGATION PLAN UPDATE
ACTION PLANNING MEETING**

**Nov 17, 2011, 9:30 AM – 12:00 AM
- AGENDA -**

Location: Multnomah Building, 501 SE Hawthorne Blvd., Horsetail Falls room 380, Portland

Purpose and Objectives:

The purpose of this meeting is to review the status and next steps for the Multnomah County Natural Hazard Mitigation Plan (NHMP) update project.

The objectives of this meeting are to (1) review the 2006 and 2011 action items (2) review plan highlights (3) discuss NHMP maintenance plan.

Time	What	How	Outcome
0930	Introduction	Introduce agenda and conduct round robin introductions	Establish consensus on purpose of meeting
0940	Review plan highlights	Presentation	Common understanding of draft plan status
1000	Discuss plan maintenance	Facilitated Discussion	Maintenance plan and process is determined
1030	Review Action Items	Facilitated Discussion	Review 2006 accomplishments and achieve consensus on 2011 actions items.
1130	Next Steps and adjourn		

Contact: Luis Hernandez, Multnomah County Response Readiness Coordinator, (503) 988-6041