

Environmental Assessment
Westerly Creek Reach 2
Flood Mitigation Project
City of Aurora, Colorado
September 2012

APPENDICES

Appendix A: Exhibits

Exhibit 1 Project Location

Exhibit 2 Project Area

Exhibit 3 Westerly Creek Drainage Basin

Exhibit 4 Proposed Drop Structures and Channel Modifications

Exhibit 5 Typical Channel Cross-Section

Exhibit 6 Wetlands in the Project Area

Appendix B: Site Visit Photographs

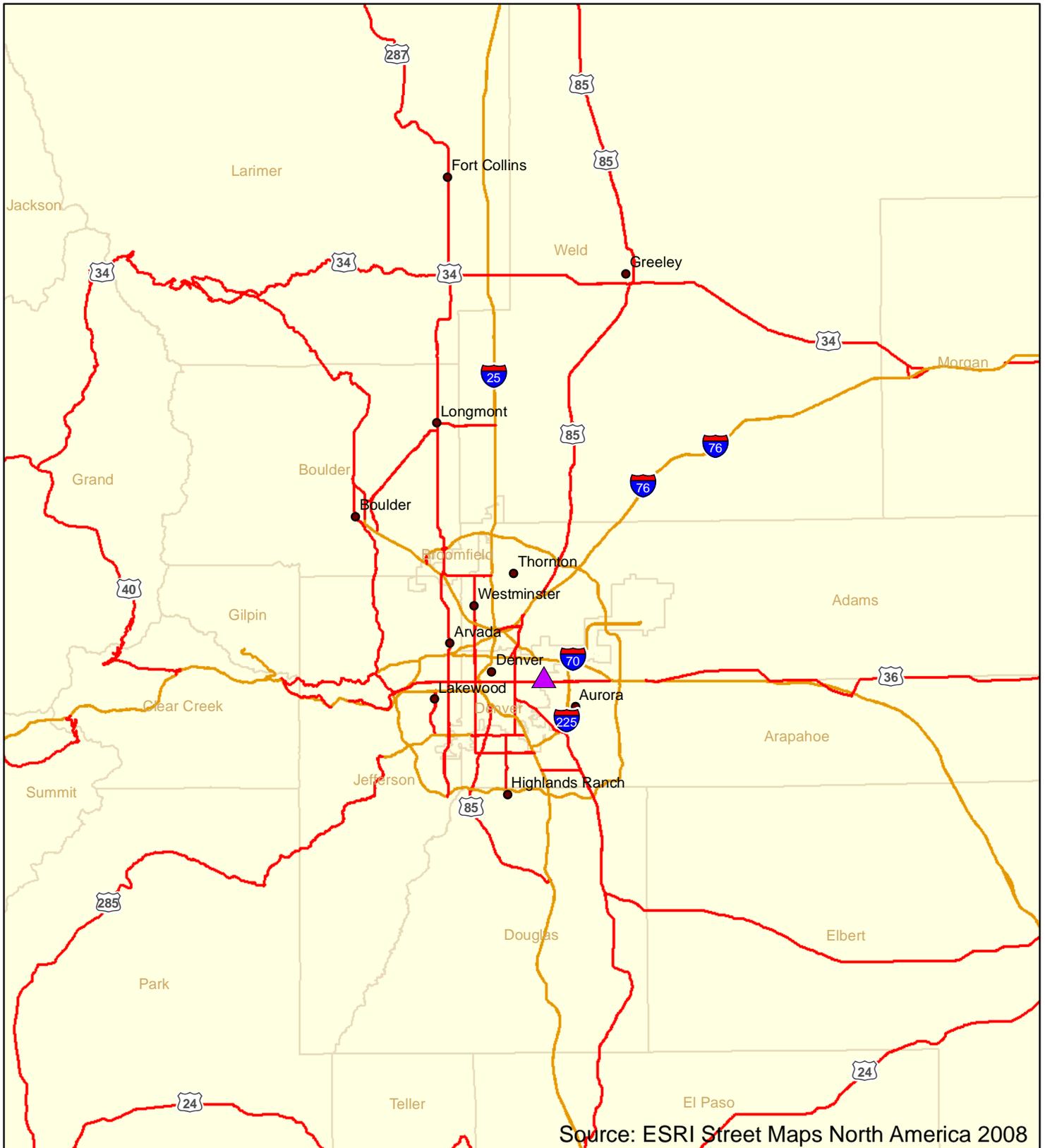
Appendix C: Agency Correspondence

Appendix D: Eight-Step Decision-Making Process

Appendix E: Public Notice Poster, Comments, and Responses

APPENDIX A
EXHIBITS

Z:\fema\Region8_EAs\Westerly_Creek_Flood\Exhibit1_location.mxd 8/1/2012



Source: ESRI Street Maps North America 2008



Legend

- Major Cities
- ▲ Project Location
- Interstate/Primary Highway
- Primary US or State Highway
- County Boundaries



Westerly Creek Flood Mitigation Project
Aurora, Colorado

Project Location

Subapplication Number: PDMC-PJ-08-CO-2011-001

Drawn By:
JCM

Date:
8/1/2012

Project No.
15702626

Exhibit 1

Checked By:
SV

Revision:
0

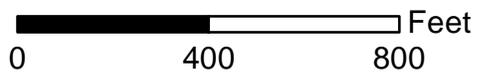


Source: USGS



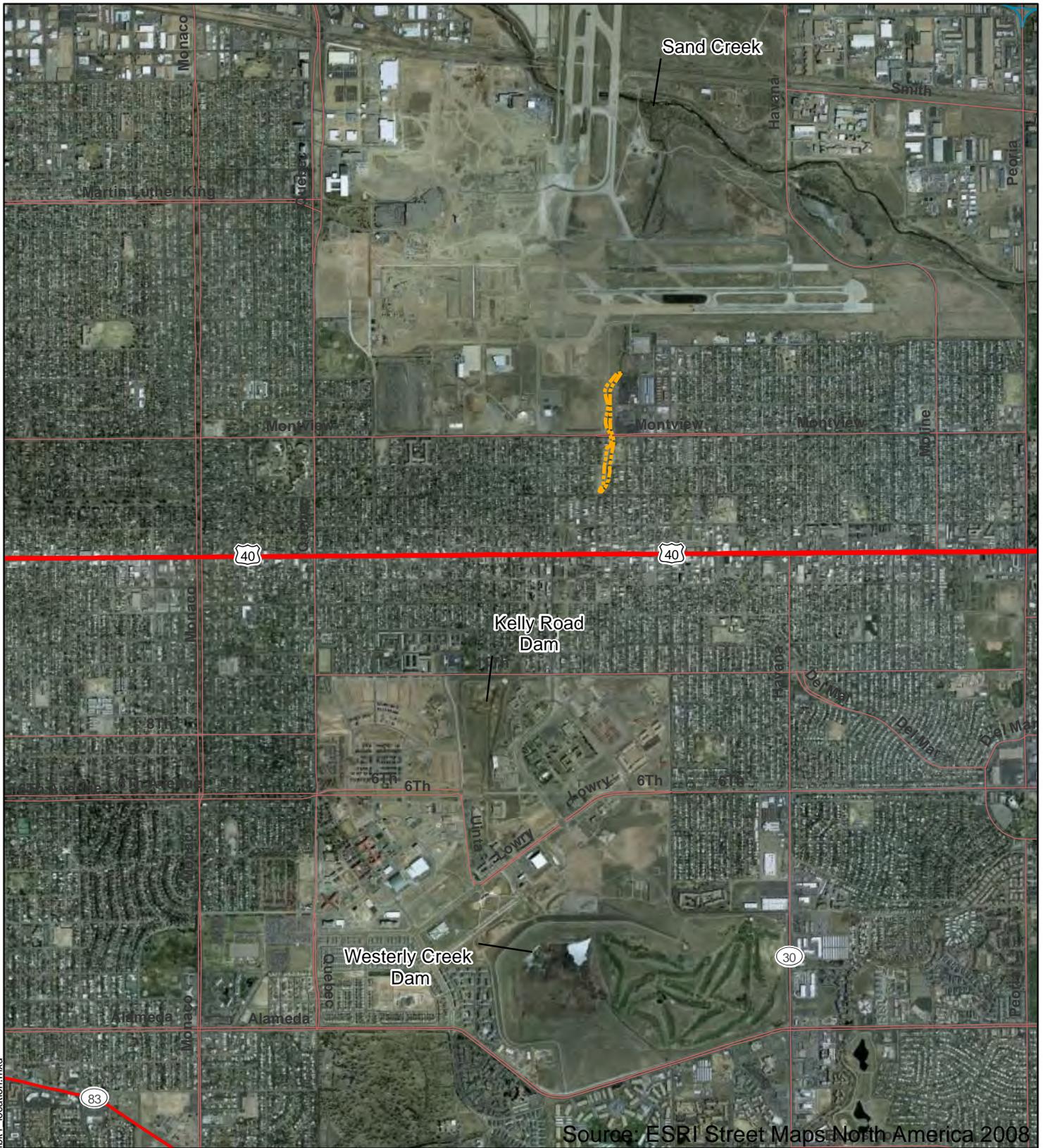
Legend

 Project Area



Westerly Creek Flood Mitigation Project
Aurora, Colorado
Project Area

Subapplication Number: PDMC-PJ-08-CO-2011-001	
Projection: NAD 1983 StatePlane Colorado North FIPS 0501	Exhibit 2
Project No: 15702626	

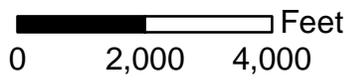


Source: ESRI Street Maps North America 2008

Z:\fema\Region8_EAs\Woodland_Park\Exhibit1_location.mxd



Legend
 Project Area



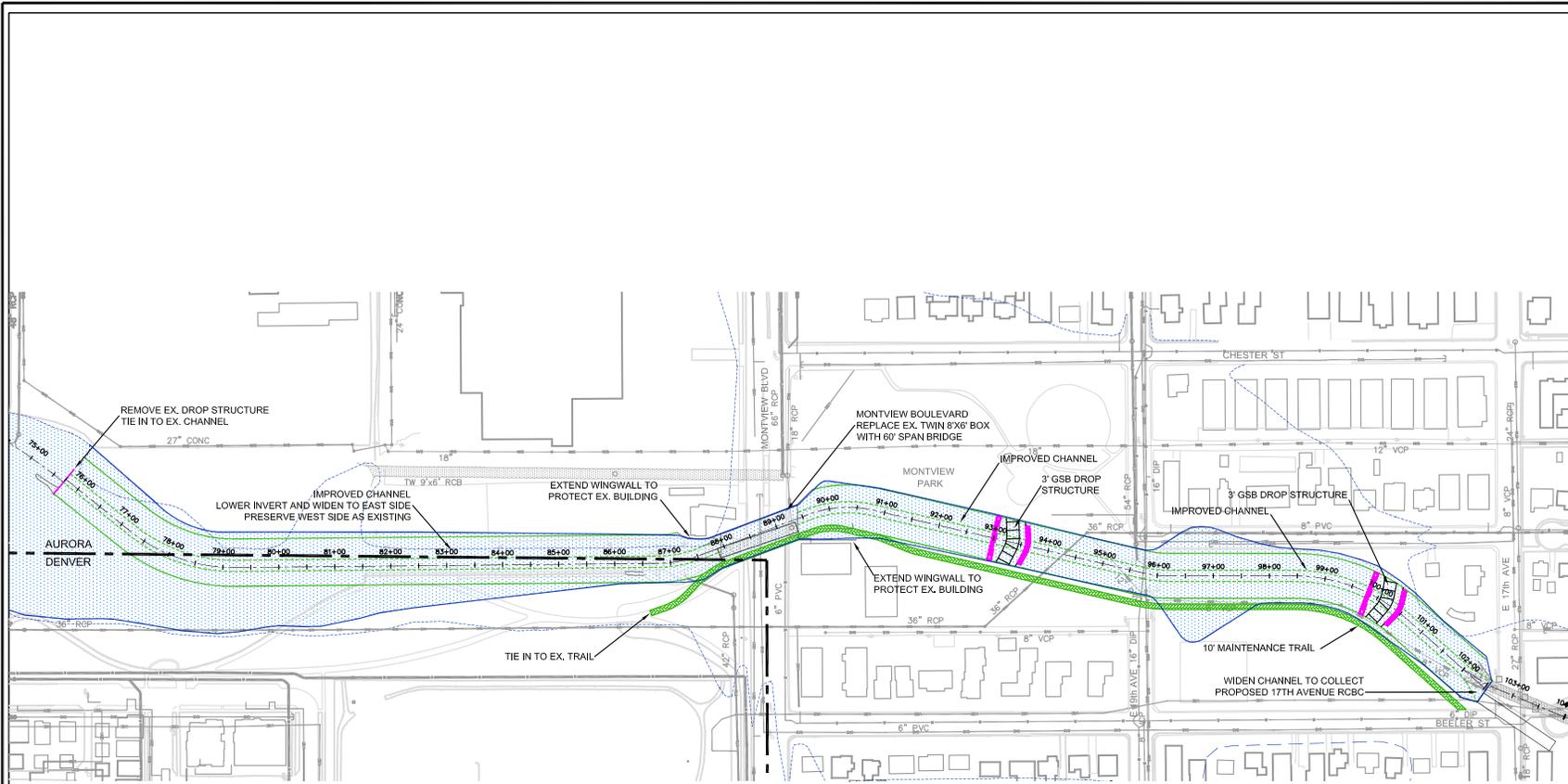
**Westerly Creek Flood Mitigation Project
Aurora, Colorado**

Westerly Creek Drainage Basin

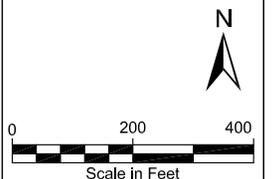
Subapplication Number:	PDMC-PJ-08-CO-2011-001
Projection:	NAD 1983 StatePlane Colorado North FIPS 5001
Project No:	15702626
Exhibit	3

August 23, 2012 10:37:48 a.m.
 Drawing: I:\Fema\151702626 City of Aurora\Exhibit 4.dwg

SOURCE: KIDWA 2010



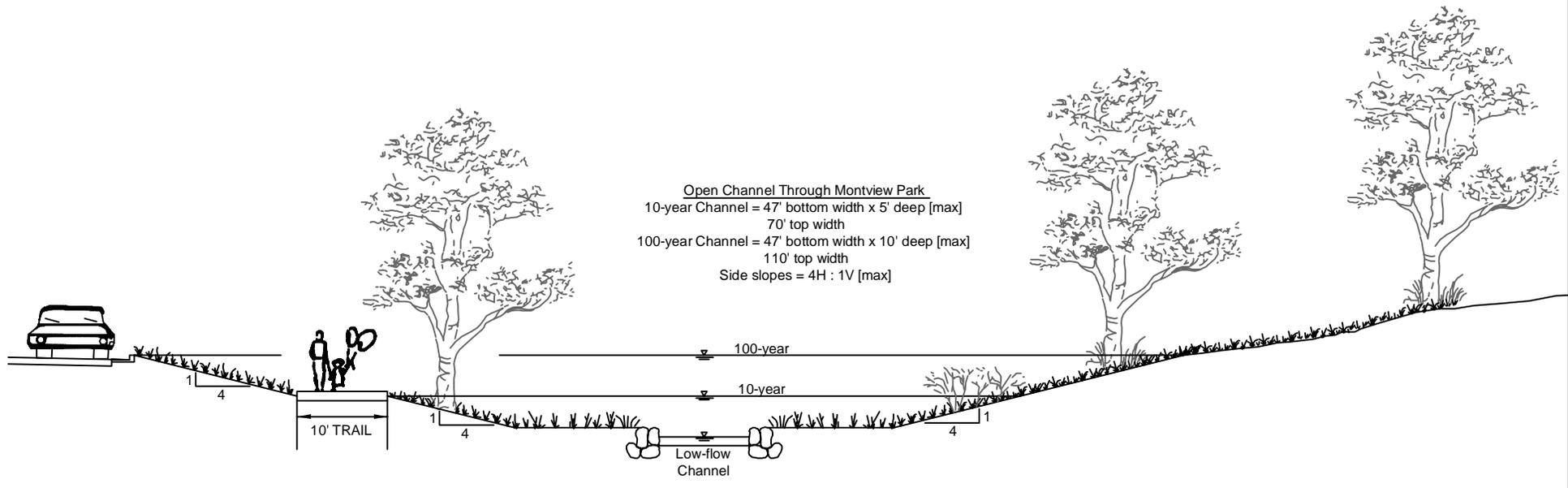
- LEGEND**
- EXISTING WATER MAIN
 - EXISTING SANITARY SEWER MAIN
 - EXISTING GAS LINE
 - EXISTING STORM SEWER PIPE
 - EXISTING STORM BOX CULVERT
 - EXISTING UNDERGROUND ELECTRIC
 - MUNICIPAL BOUNDARY LINE
 - EXISTING GROUND
 - PROPOSED STORM SEWER PIPE
 - PROPOSED MANHOLE
 - PROPOSED JUNCTION BOX
 - PROPOSED TYPE-R INLETS
 - PROPOSED MAINTENANCE TRAIL
 - 100-YEAR FLOODPLAIN (EXISTING)
 - 100-YEAR FLOODPLAIN (POST-PROJECT)
 - CENTERLINE
 - GSB DROP STRUCTURE
 - GSB GROUDED SLOPING BOULDER



Data Source: (c) 2010 Microsoft Corporation and its data suppliers
 Aerial Source: Bing Maps

<p>Westley Creek Flood Investigation Project Aurora, Colorado</p>	
<p>Proposed Drop Structures and Channel Modifications</p>	
<p>Subapplication Number: PDMC-PJ-08-CO-2011-001</p>	
<p>Project No: WAD 1983 UTM Zone 13N</p>	<p>Exhibit 4</p>
<p>Project No: 15702626</p>	

August 01, 2012 2:52:21 p.m.
Drawing: T:\Fema\151702626 City of Aurora\Exhibit 5.dwg



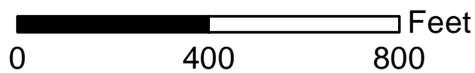
SOURCE: KIOWA 2010

 FEMA	
Westerly Creek Flood Investigation Project Aurora, Colorado	
Typical Channel Cross-Section	
Subapplication Number: PDMC-PJ-08-CO-2011-001	
Projection: NAD 1983 UTM Zone 13N	Exhibit
Project No: 15702626	5



Legend

-  Project Area
-  Wetland



**Westerly Creek Flood Mitigation Project
Aurora, Colorado**

Wetlands in the Project Area

Subapplication Number: PDMC-PJ-08-CO-2011-001

Projection: NAD 1983 StatePlane Colorado North FIPS 0501

Project No: 15702626

**Exhibit
6**

APPENDIX B
SITE VISIT PHOTOGRAPHS

APPENDIX B- SITE VISIT PHOTOGRAPHS

Client Name: City of Aurora, Colorado		Project: Westerly Creek Flood Mitigation Project	Project No. 15702626
Photo No. 1	Date: 03-21-12		
Description: Looking southwest at the box culvert under East 17 th Avenue. This is the southern (upstream) end of the project area.			

Photo No. 2	Date: 03-21-12	
Description: Looking downstream (toward Montevieu Boulevard) from 17 th Avenue box culvert.		

APPENDIX B- SITE VISIT PHOTOGRAPHS

Client Name: City of Aurora, Colorado		Project: Westerly Creek Flood Mitigation Project	Project No. 15702626
Photo No. 3	Date: 03-21-12		
Description: Creek segment downstream from Photo No. 2. Potential staging area in background.			

Photo No. 4	Date: 03-21-12	
Description: Existing box culvert under Montevue Boulevard.		

APPENDIX B- SITE VISIT PHOTOGRAPHS

Client Name: City of Aurora, Colorado		Project: Westerly Creek Flood Mitigation Project	Project No. 15702626
Photo No. 5	Date: 03-21-12		
Description: Looking downstream from Montevieu Boulevard.			

Photo No. 6	Date: 03-21-12	
Description: Looking upstream at existing box culvert under Montevieu Boulevard.		

APPENDIX B- SITE VISIT PHOTOGRAPHS

Client Name: City of Aurora, Colorado		Project: Westerly Creek Flood Mitigation Project	Project No. 15702626
Photo No. 7	Date: 03-21-12		
Description: Looking downstream from Photo No. 5.			

Photo No. 8	Date: 03-21-12	
Description: Looking upstream from near north end of the project area.		

APPENDIX B- SITE VISIT PHOTOGRAPHS

Client Name:
City of Aurora, Colorado

Project:
Westerly Creek Flood Mitigation Project

Project No.
15702626

Photo No.
9

Date:
03-21-12

Description:

Looking at existing drop structure to be removed near the downstream end of the project area.



Photo No.
10

Date:
03-21-12

Description:

Potential staging area at the north (downstream) end of the project area.



APPENDIX C
AGENCY CORRESPONDENCE

RECORD OF CONVERSATION

DATE: 2/7/12 TIME: 11:55 JOB NO.: 15702626.03B4P

RECORDED BY: Quentin Bliss OWNER/CLIENT: FEMA/Aurora

TALKED WITH: Michael Harris OF CDPHE - Air Quality Division - Permitting

NATURE OF CALL: INCOMING OUTGOING VISIT MEETING PHONE: #(303)692-3150

ROUTE TO: INFORMATION ACTION

MAIN SUBJECT: Need for Air Quality Permit - Westerly Creek Flood Mitigation Project

ITEMS DISCUSSED: _____

I called the Colorado Department of Public Health and Environment - Air Quality Division to obtain information on required Air Quality Permits and was referred to Michael Harris. In their guidance regarding the need to obtain a Land Development - General Permit for Air Quality, it is stated, that this permit was needed if the project was over 25 acres in size and/or the construction period was longer than 6 months. Since the Proposed Action ~~was~~ ^{would} disturb approximately 4 acres and construction ~~period~~ ^{period} was expected to exceed 6 months, would the permit be required.

Mr. Harris confirmed that the Westerly Creek Flood Mitigation Project would need to obtain the Land Development - General Permit.



Water Department
Capital Projects Division
Phone: 720-859-4300
Fax: 720-859-4380



March 8, 2012

United States Army Corps of Engineers
9307 S. Wadsworth Boulevard
Littleton, CO 80128
Attn: Matt Montgomery, Regulatory Specialist

Re: Montview Bridge Replacement at Lower Westerly Creek

Dear Mr. Montgomery,

In October of 2010, the Aurora Water Department submitted a Pre-disaster Mitigation Application (PDM) with the Federal Emergency Management Agency via the Colorado Department of Emergency Management (CDEM) to address historical flooding in Lower Westerly Creek at Montview Boulevard. CDEM recently requested that we contact the USACE to initiate permitting requirements related to the proposed bridge improvements. This request is in response to our continued effort to further the grant application and ultimately gain approval and distribution of project funding.

During severe storm events, flows from the Lower Westerly Creek overtop the roadway which causes a disruption for traffic and emergency vehicles due to the undersized twin box culverts and the backwater effect poses a significant flooding risk to upstream properties. The proposed improvement replaces the existing twin 6' x 8' box culverts with a 60 foot span structure capable of conveying the 100-year storm event. The project entails the bridge structure, downstream and upstream channel widening, and lowering of the creek invert via drop structures at the tie-in up to E. 17th Avenue. Our anticipated acreage of disturbance is approximately 4.0 acres. This is based on our typical cross-section from Stations 102+50 to 75+50 as shown on the "Proposed Improvements" enclosure.

Per our phone conversation, I am providing you a location map, an aerial of the project site and the plan and profile sheet of proposed improvements. I have also included an exhibit which shows the improved and unimproved 100-year floodplain contours.

Please review the enclosed material and provide us an initial determination of permit requirements. Feel free to call me at 720-859-4324 if I can be of any further assistance or if you need any additional information.

Sincerely,

Vernon A. Adam, P.E.
Senior Water Project Manager

RECORD OF CONVERSATION

DATE: 6/5/12 TIME: 1500 JOB NO.: 15702626.03 BUP

RECORDED BY: Quentin Bliss OWNER/CLIENT: FEMA - C. of Aurora

TALKED WITH: Ms. Sandy Vana Miller OF USFWS

NATURE OF CALL: INCOMING OUTGOING VISIT MEETING PHONE: # _____

ROUTE TO: INFORMATION ACTION

MAIN SUBJECT: T: E Species - Flow Depletions in Platte River in Nebraska - Westerly Creek.

ITEMS DISCUSSED: Ms. Vana Miller returned my call. I told her that I would like to briefly discuss the Westerly Creek project in Aurora, CO. I said that the existing twin box culverts at Montview Drive are not large enough to handle flood flows and they were going to be replaced with a bridge and the geometry of the existing channel would be altered to accommodate the bridge. Flows would not be altered and no irrigation was involved.

She quickly stated that if it was in the South Platte River drainage someone was using the water and they would need to consult with the USFWS (her). I said I did not know who the users would be or how the ownership of the water could be determined. - Regardless, need to consult.

I said that ~~we~~ we did not believe that replacing the twin culverts and altering the geometry of the channel would have any effect on depletions and would probably making a NOE that determination. She said FEMA should send the letter to her supervisor (Susan Hinner).

RECORD OF CONVERSATION

DATE: 6/7/12 TIME: 3:15 pm JOB NO.: 15702626.03 B&P

RECORDED BY: Quentin Bliss OWNER/CLIENT: FEMA/City of Aurora

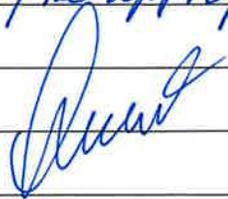
TALKED WITH: Melanie Kaknes - Reg. Wildlife Manager OF Colorado Parks and Wildlife

NATURE OF CALL: INCOMING OUTGOING VISIT MEETING PHONE: # (303) 291-7137

ROUTE TO: INFORMATION ACTION

MAIN SUBJECT: State-Listed Threatened and endangers species/Aurora

ITEMS DISCUSSED: Ms. Kaknes returned my telephone call to her from the previous week. I indicated that our project area include portions of Montview and Westerly Creek in Aurora. I listed the state-listed species (that were not federally-listed). She said that she was not aware of any of the these species being present in either park. She ask if there were prairie dogs ⁱⁿ either park and I said that there were a few at the extremely downstream edge of our project area. She said that there was a low possibility that the burrowing owl could use ~~a~~ be present on occasion. I discussed the high amount of foot and bicycle traffic the area received. I indicated that we believed that may effect but not likely to adversely affect would ~~be~~ our determination. She indicated that would probably be appropriate.



RECORD OF CONVERSATION

DATE: June 25, 2012 TIME: 10 Am JOB NO.: 15702626.10BUP

RECORDED BY: _____ OWNER/CLIENT: FEMA

TALKED WITH: Matt Montgomery OF USACE

NATURE OF CALL: INCOMING OUTGOING VISIT MEETING PHONE: #303.979.4120

ROUTE TO:	INFORMATION	ACTION
_____	_____	_____
_____	_____	_____
_____	_____	_____

MAIN SUBJECT: Westerly Creek Project - Aurora, CO

ITEMS DISCUSSED: I called Matt to discuss the proposed project. Matt indicated that the project would require an Individual 404 permit because stream impacts would be extensive. The city will need to delineate the resources in the project area and provide that information along with detailed information about the project design to the USACE.



FEMA

July 26, 2012

Mr. Ed Nichols
State Historic Preservation Officer
History Colorado
1200 Broadway
Denver, Colorado 80203

**RE: Westerly Creek Flood Mitigation Project, Aurora, Colorado;
FEMA FMA-PJ-08-CO-2011-001**

Dear Mr. Nichols:

The City of Aurora (City) has applied for funding under the Department of Homeland Security (DHS), Federal Emergency Management Agency (FEMA), Flood Mitigation Assistance (FMA) program, which provides funding to States and communities to assist in their efforts to reduce or eliminate the risk of repetitive flood damage to buildings, and structures insurable under the National Flood Insurance Program (NFIP). The purpose of this letter is to initiate and conclude consultation pursuant to Section 106 of the National Historic Preservation Act (NHPA), as implemented by 36 CFR Part 800.

At the request of the Federal Emergency Management Agency (FEMA), URS Group, Inc. prepared the enclosed cultural resources form entitled *Westerly Creek Flood Mitigation Project, Aurora, Colorado*.

Undertaking

The City of Aurora is proposing a flood control project that includes the replacement of existing box culverts at Montview Boulevard (built circa 1970) with a new bridge. Additionally, the creek beneath the road would be lowered approximately 5 feet, and channel improvements would be made to approximately 2,700 linear feet of Westerly Creek. The proposed channel improvements would minimize impact to the already improved west bank and focus on lowering the creek bed and improving the east bank. The proposed impacts encompass approximately 1.4 acres. The Federal Emergency Management Agency (FEMA) is partially funding this project and is required under Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, to take into account the effects of its actions on historic properties.

Area of Potential Effects

The Area of Potential Effects (APE) is defined as the approximately 1.4-acre area along both sides of Westerly Creek, between 23rd Avenue and 17th Avenue, which will be directly affected by the project components. The project is next to existing roads, and additional access routes are not needed. Equipment and material storage can be contained within the area of disturbance. Visual impacts are non-

existent due to the project being within a relatively deep channel with a limited field of vision beyond the cut banks of the waterway. The attached survey form contains a map (Figure 1-1) depicting the APE.

Identification of Historic Properties

The survey of the proposed project resulted in the findings of no cultural resources within the APE.

This section of Westerly Creek has already undergone significant physical disturbance, as the creek bed has been the subject of erosion and prior construction activity. It is unlikely that any intact archaeological historic properties are present within the APE. If previously unknown cultural resources are discovered, work will be stopped, and FEMA and the Colorado SHPO will be notified as soon as possible.

Determination of Effects

FEMA believes that the background research and enclosed cultural resource form represent a reasonable and good faith effort to carry out appropriate identification efforts as stated in 36 CFR Part 800.4(b)(1). Based on this information, and in accordance with the Section 106 of the National Historic Preservation Act and its implementing regulation, 36 CFR Part 800.4(d)(1), FEMA has determined there will be ‘**no historic properties affected**’ as a result of the proposed action.

We respectfully seek your concurrence with these determinations of eligibility and effect. If you have questions about any of the information contained in this letter or require additional information, please contact me by telephone at (303) 235-4926 or by e-mail at richard.myers@dhs.gov.

Sincerely,



Richard Myers
Deputy Regional Environmental Officer
FEMA Region VIII

cc: Gordon Tucker, URS Denver

Enclosure: *Limited-Results Cultural Resource Survey Form: Westerly Creek Flood Mitigation Project, Aurora, Colorado (July 16, 2012, Juston Fariello)*

LIMITED-RESULTS CULTURAL RESOURCE SURVEY FORM

(Page 1 of 4)

This form (#1420) is for small scale limited results projects - block surveys less than 160 acres with linear surveys under four miles. Additionally, there should be no sites and a maximum of four Isolated Finds. This form must be typed.

I. IDENTIFICATION

1. Report Title (include County): Westerly Creek Flood Mitigation Project, Aurora, Colorado
2. Date of Field Work: June 4, 2012
3. Form completed by: Juston Fariello Date: July 12, 2012
4. Survey Organization/Agency: URS Corporation
Principal Investigator: Gordon Tucker
Principal Investigator's Signature: _____
Other Crew: Juston Fariello (performed field survey)
Address: 8181 E. Tufts Ave, Denver, CO 80237
5. Lead Agency / Land Owner: Federal Emergency Management Agency (FEMA)
Contact: Richard Myers , Deputy Regional Environmental Officer
Address: FEMA Region VIII, Denver Federal Center, Building 710, Box 25267 Denver , CO
80225-0267
6. Client: FEMA
7. Permit Type and Number: Colorado Archaeology Survey Permit 2012-71
8. Report / Contract Number: HMA Subapplication No.: HSFEHQ-09-D-1130 / URS Project
15702626
9. Comments: N/A

II. DESCRIPTION OF UNDERTAKING / PROJECT

10. Type of Undertaking: A flood control project that includes the replacement of existing box culverts at Montview Boulevard (built circa 1970) with a new bridge. Additionally, the creek beneath the road would be lowered approximately 5 feet, and channel improvements would be made to approximately 2,700 linear feet of Westerly Creek. The proposed channel improvements would minimize impact to the already improved west bank and focus on lowering the channel and improving the east bank.
11. Size of Undertaking (acres): 1.4 Size of Project (if different) N/A
12. Nature of the Anticipated Disturbance: The excavation of approximately 12,000 cubic yards of soil and vegetation in an already disturbed area (a city park).

13. Comments: This project will take place primarily in Montview Park, a facility owned by the City of Aurora. The park has been landscaped with grass that extends to the edge of the creek. North of Montview Park (and Montview Avenue), the project area is adjacent to the Westerly Creek Trail on the west and a large commercial complex with asphalt parking lots on the east. The land east of the creek is dirt but has been disturbed by the construction of the adjacent commercial property. The channel north of Montview Avenue has a concrete retaining wall on the east side and most of the channel has a thick lining of trees. The proposed work will modify and improve a segment of Westerly Creek that flows through the park. As noted above, the work will involve the replacement of existing culverts (built circa 1970) and excavations in the base and the east bank of the creek. The entire Area of Potential Effects (APE) has been previously disturbed by construction activities in the 1960s, when the park and adjacent commercial properties were built. In addition, the entire APE is within an urban setting, with numerous houses of various ages (primarily built in the years 1930–1970) and commercial buildings located immediately adjacent to the project area. This section of Westerly Creek has already undergone significant physical disturbance, as the creek bed has been the subject of erosion and prior flood and erosion control projects. Due to the prior disturbances, it is unlikely that any eligible, intact archaeological historic properties are present within the APE. The project should not have any type of indirect visual or auditory effect on historic properties or resources located near the APE. All disturbances will take place within the confines of the park, and anysounds produced by the project will be temporary.

III. PROJECT LOCATION

Please attach a photocopy of USGS Quad. clearly showing the project location. The Quad. should be clearly labeled with the Prime Meridian, Township, Range, Section(s), Quad. map name, size, and date. Please do not reduce or enlarge the photocopy.

14. Description: Proposed channel improvements to Westerly Creek between 23rd Avenue and 17th Avenue in Aurora, CO.

15. Legal Location: Quad. Map: Englewood Date(s): 1965/1980
 Principal Meridian: 6th X NM Ute

NOTE: Only generalized subdivision ("quarter quarters") within each section is needed

Township: 3S Range: 67W Sec.: 33 1/4s SW NW SE ;

Township: Range: Sec.: 1/4s ;

Township: Range: Sec.: 1/4s ;

If section(s) is irregular, explain alignment method: N/A

16. Total number of acres surveyed: 1.4

17. Comments: N/A

IV. ENVIRONMENT

- 18. General Topographic Setting: Westerly Creek perennial drainage and surrounding floodplain.
Current Land Use: City park.
- 19. Flora: Grassy riparian zone with cottonwood trees, willow trees, and grasses.
- 20. Soils/Geology: Weld loam, brown to darkish grey. Alluvial floodplain.
- 21. Ground Visibility: 0%-20%
- 22. Comments: N/A

V. LITERATURE REVIEW

- 23. Location of File Search: COMPASS – Colorado’s Online Database Date: July 12, 2012
- 24. Previous Survey Activity - In the project area: None

In the general region: The project area is near the historic core of Aurora and is on the border of an older portion of Denver. Dozens of studies and surveys have been taken within a 1-mile radius of the project area and have recorded more than 250 resources, primarily buildings and built environment resources. No previously recorded historic resources are located within the APE. The project should have no indirect effects on any of the recorded resources in the area.

- 25. Known Cultural Resources - In the project area: None

In the general region (summarize): The project area is near the historic core of Aurora and is on the border of an older portion of Denver. More than 250 historic sites (primarily buildings and built environment resources) have been recorded within 1 mile of the APE, though no previously recorded cultural resources are located within the APE. The project should have no indirect effects on any of the recorded resources in the area. All work will take place within the creek bed, which is located in a park. Any sounds emanating from the project will be temporary.

- 26. Expected Results: The intensity of natural and modern disturbances has decreased the potential for cultural resources. Based on the records search and disturbance in the APE, it is unlikely that cultural materials will be discovered during the pedestrian survey.

VI. STATEMENT OF OBJECTIVES

27. Intensive pedestrian survey of project area limited to banks and base of Westerly Creek between 23rd Avenue and 17th Avenue. Carefully inspect the project area for evidence of past patterned human activity, 50 years old or older.

VII. FIELD METHODS

28. Definitions: Site Five or more artifacts with or without associated features.
Isolated Find Four or less artifacts, no associated features.

29. Describe Survey Method: One archaeologist walked parallel transects spaced no more than 30 meters (approximately 100 feet) apart within the area. During this survey, the archaeologist closely inspected the ground surface for any evidence of past, patterned human activity. Cut banks along the creek were thoroughly inspected for buried cultural materials.

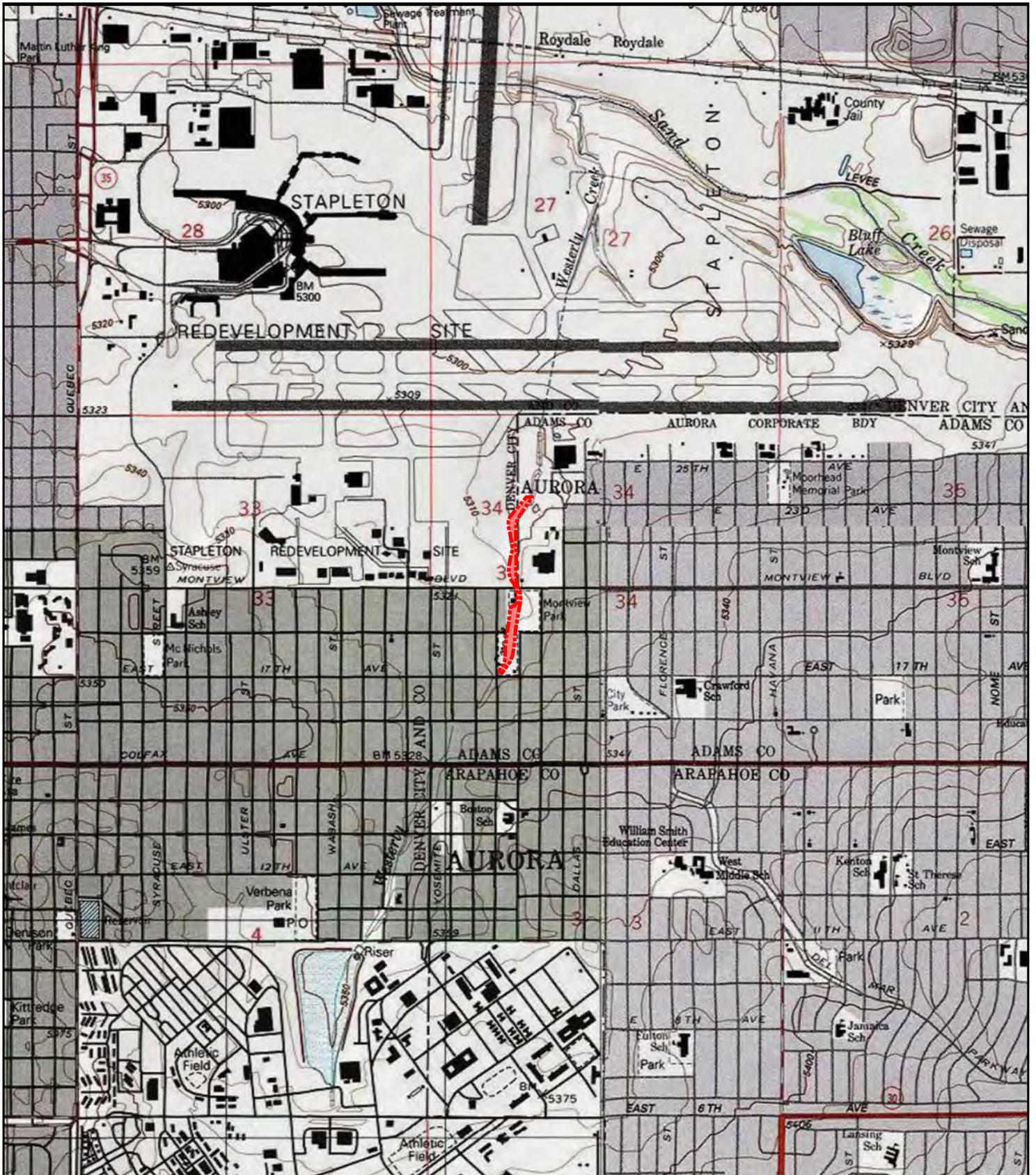
VIII. RESULTS

30. List IFs if applicable. Indicate IF locations on the map completed for Part III.

- A. Smithsonian Number: N/A Description: N/A
- B. Smithsonian Number: Description:
- C. Smithsonian Number: Description:
- D. Smithsonian Number: Description:

31. Using your professional knowledge of the region, why are there none or very limited cultural remains in the project area? Is there subsurface potential?

The project area has been heavily disturbed by the construction related to the park and its amenities as well as improvements to Westerly Creek. Subsurface potential is limited, and the potential for cultural resources has been lost due to disturbance.



Legend

 Project Area



Scale in Feet

**Westerly Creek
Flood Mitigation Project
Aurora, Colorado**



July 2012



PHOTOGRAPHIC LOG

Client Name:

FEMA

Project:

Westerly Creek Flood Mitigation Project

Project No.:

15702626.03HUH

Photo No.:

100-6422

Date:

6/4/2012

Site Number:

N/A

Description:

Looking southwest at existing box culvert under 17th Avenue. This is the southern (upstream) end of the project area.



PHOTOGRAPHIC LOG

Client Name:

FEMA

Project:

Westerly Creek Flood Mitigation Project

Project No.:

15702626.03HUH

Photo No.:

100-6433

Date:

6/4/2012

Site Number:

N/A

Description:

Looking north (toward Montview Boulevard) from 17th Avenue box culvert.





PHOTOGRAPHIC LOG

Client Name: FEMA		Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
Photo No.: 100-6426	Date: 6/4/2012		
Site Number: N/A			
Description: Looking northwest toward Montview Boulevard.			



PHOTOGRAPHIC LOG

Client Name: FEMA		Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
Photo No.: 100-6447	Date: 6/4/2012		
Site Number: N/A			
Description: Looking north toward existing box culvert under Montview Boulevard.			



PHOTOGRAPHIC LOG

Client Name:

FEMA

Project:

Westerly Creek Flood Mitigation Project

Project No.:

15702626.03HUH

Photo No.:

100-6485

Date:

6/4/2012

Site Number:

N/A

Description:

Looking north from Montview Boulevard.



PHOTOGRAPHIC LOG

Client Name:

FEMA

Project:

Westerly Creek Flood Mitigation Project

Project No.:

15702626.03HUH

Photo No.:

100-6487

Date:

6/4/2012

Site Number:

N/A

Description:

Looking south at existing box culvert under Montview Boulevard.



LIMITED-RESULTS CULTURAL RESOURCE SURVEY FORM

(Page 1 of 4)

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2. Date of Field Work: June 4, 2012
3. Form completed by: Juston Fariello Date: July 12, 2012
4. Survey Organization/Agency: URS Corporation
Principal Investigator: Gordon Tucker
Principal Investigator's Signature: _____
Other Crew: Juston Fariello (performed field survey)
Address: 8181 E. Tufts Ave, Denver, CO 80237
5. Lead Agency / Land Owner: Federal Emergency Management Agency (FEMA)
Contact: Richard Myers , Deputy Regional Environmental Officer
Address: FEMA Region VIII, Denver Federal Center, Building 710, Box 25267 Denver , CO
80225-0267
6. Client: FEMA
7. Permit Type and Number: Colorado Archaeology Survey Permit 2012-71
8. Report / Contract Number: HMA Subapplication No.: HSFEHQ-09-D-1130 / URS Project
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9. Comments: N/A

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12. Nature of the Anticipated Disturbance: The excavation of approximately 12,000 cubic yards of soil and vegetation in an already disturbed area (a city park).

13. Comments: This project will take place primarily in Montview Park, a facility owned by the City of Aurora. The park has been landscaped with grass that extends to the edge of the creek. North of Montview Park (and Montview Avenue), the project area is adjacent to the Westerly Creek Trail on the west and a large commercial complex with asphalt parking lots on the east. The land east of the creek is dirt but has been disturbed by the construction of the adjacent commercial property. The channel north of Montview Avenue has a concrete retaining wall on the east side and most of the channel has a thick lining of trees. The proposed work will modify and improve a segment of Westerly Creek that flows through the park. As noted above, the work will involve the replacement of existing culverts (built circa 1970) and excavations in the base and the east bank of the creek. The entire Area of Potential Effects (APE) has been previously disturbed by construction activities in the 1960s, when the park and adjacent commercial properties were built. In addition, the entire APE is within an urban setting, with numerous houses of various ages (primarily built in the years 1930–1970) and commercial buildings located immediately adjacent to the project area. This section of Westerly Creek has already undergone significant physical disturbance, as the creek bed has been the subject of erosion and prior flood and erosion control projects. Due to the prior disturbances, it is unlikely that any eligible, intact archaeological historic properties are present within the APE. The project should not have any type of indirect visual or auditory effect on historic properties or resources located near the APE. All disturbances will take place within the confines of the park, and anysounds produced by the project will be temporary.

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NOTE: Only generalized subdivision ("quarter quarters") within each section is needed

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If section(s) is irregular, explain alignment method: N/A

16. Total number of acres surveyed: 1.4

17. Comments: N/A

IV. ENVIRONMENT

- 18. General Topographic Setting: Westerly Creek perennial drainage and surrounding floodplain.
Current Land Use: City park.
- 19. Flora: Grassy riparian zone with cottonwood trees, willow trees, and grasses.
- 20. Soils/Geology: Weld loam, brown to darkish grey. Alluvial floodplain.
- 21. Ground Visibility: 0%-20%
- 22. Comments: N/A

V. LITERATURE REVIEW

- 23. Location of File Search: COMPASS – Colorado’s Online Database Date: July 12, 2012
- 24. Previous Survey Activity - In the project area: None

In the general region: The project area is near the historic core of Aurora and is on the border of an older portion of Denver. Dozens of studies and surveys have been taken within a 1-mile radius of the project area and have recorded more than 250 resources, primarily buildings and built environment resources. No previously recorded historic resources are located within the APE. The project should have no indirect effects on any of the recorded resources in the area.

- 25. Known Cultural Resources - In the project area: None

In the general region (summarize): The project area is near the historic core of Aurora and is on the border of an older portion of Denver. More than 250 historic sites (primarily buildings and built environment resources) have been recorded within 1 mile of the APE, though no previously recorded cultural resources are located within the APE. The project should have no indirect effects on any of the recorded resources in the area. All work will take place within the creek bed, which is located in a park. Any sounds emanating from the project will be temporary.

- 26. Expected Results: The intensity of natural and modern disturbances has decreased the potential for cultural resources. Based on the records search and disturbance in the APE, it is unlikely that cultural materials will be discovered during the pedestrian survey.

VI. STATEMENT OF OBJECTIVES

27. Intensive pedestrian survey of project area limited to banks and base of Westerly Creek between 23rd Avenue and 17th Avenue. Carefully inspect the project area for evidence of past patterned human activity, 50 years old or older.

VII. FIELD METHODS

28. Definitions: Site Five or more artifacts with or without associated features.
Isolated Find Four or less artifacts, no associated features.

29. Describe Survey Method: One archaeologist walked parallel transects spaced no more than 30 meters (approximately 100 feet) apart within the area. During this survey, the archaeologist closely inspected the ground surface for any evidence of past, patterned human activity. Cut banks along the creek were thoroughly inspected for buried cultural materials.

VIII. RESULTS

30. List IFs if applicable. Indicate IF locations on the map completed for Part III.

- A. Smithsonian Number: N/A Description: N/A
- B. Smithsonian Number: Description:
- C. Smithsonian Number: Description:
- D. Smithsonian Number: Description:

31. Using your professional knowledge of the region, why are there none or very limited cultural remains in the project area? Is there subsurface potential?

The project area has been heavily disturbed by the construction related to the park and its amenities as well as improvements to Westerly Creek. Subsurface potential is limited, and the potential for cultural resources has been lost due to disturbance.



August 6, 2012

Richard Myers
Deputy Regional Environmental Officer
Federal Emergency Management Agency
U.S. Department of Homeland Security Region VIII
Denver Federal Center, Building 710
P.O. Box 25267
Denver, Colorado 80225-0267

Re: Westerly Creek Flood Mitigation Project, Aurora, Colorado; FEMA FMA-PJ-08-CO-2011-001 (CHS #62469)

Dear Mr. Myers:

Thank you for your correspondence dated July 26, 2012 (received by our office on July 31, 2012) regarding the subject project.

Following our review of the documentation provided, we concur that a finding of no historic properties affected is appropriate for the proposed project.

Please remember that the consultation process does involve other consulting parties such as local governments and Tribes, which as stipulated in 36 CFR 800.3 are required to be notified of the undertaking. Additional information provided by the local government, Tribes or other consulting parties may cause our office to re-evaluate our comments and recommendations.

Should unidentified archaeological resources be discovered during the course of the project, work must be interrupted until the resources have been evaluated in terms of the National Register of Historic Places eligibility criteria (36 CFR 60.4) in consultation with our office.

Thank you for the opportunity to comment. If we may be of further assistance please contact Mark Tobias, Section 106 Compliance Manager, at (303) 866-4674 or mark.tobias@state.co.us.

Sincerely,

for 
Edward C. Nichols
State Historic Preservation Officer
ECN/MAT





FEMA

R8-EHP

September 5, 2012

Mr. Jim L. Shakespeare, Chairman
Northern Arapaho Tribe
P.O. Box 396
Washakie, Wyoming 82514

**RE: Westerly Creek Flood Mitigation Project, Aurora, Colorado;
FEMA FMA-PJ-08-CO-2011-001**

Dear Chairman Shakespeare:

The City of Aurora (City) has applied for funding under the Department of Homeland Security (DHS), Federal Emergency Management Agency (FEMA), Flood Mitigation Assistance (FMA) program, which provides funding to States and communities to assist in their efforts to reduce or eliminate the risk of repetitive flood damage to buildings, and structures insurable under the National Flood Insurance Program (NFIP). The purpose of this letter is to initiate and conclude consultation pursuant to Section 106 of the National Historic Preservation Act (NHPA), as implemented by 36 CFR Part 800.

At the request of the Federal Emergency Management Agency (FEMA), URS Group, Inc. conducted a preliminary pedestrian survey and prepared the enclosed cultural resources form entitled *Westerly Creek Flood Mitigation Project, Aurora, Colorado*.

Undertaking

The City of Aurora is proposing a flood control project that includes the replacement of existing box culverts at Montview Boulevard (built circa 1970) with a new bridge. Additionally, the creek beneath the road would be lowered approximately 5 feet, and channel improvements would be made to approximately 2,700 linear feet of Westerly Creek. The proposed channel improvements would minimize impact to the already improved west bank and focus on lowering the creek bed and improving the east bank. The proposed impacts encompass approximately 1.4 acres. The Federal Emergency Management Agency (FEMA) is partially funding this project and is required under Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, to take into account the effects of its actions on historic properties.

Area of Potential Effects

The Area of Potential Effects (APE) is defined as the approximately 1.4-acre area along both sides of Westerly Creek, between 23rd Avenue and 17th Avenue, which will be directly affected by the project components. The project is next to existing roads, and additional access routes are not needed. Equipment and material storage can be contained within the area of disturbance or adjacent parking lots. All work will take place within the creek bed, which is located in a park. The attached survey form contains a map (Figure_1-1) depicting the APE.

Identification of Historic Properties

The survey of the proposed project resulted in the findings of no historic properties within the APE. The project area is near the historic core of Aurora and is on the border of an older portion of Denver. More than 250 historic sites (primarily buildings and built environment resources) have been recorded within 1 mile of the APE, though no previously recorded cultural resources are located within the APE. The project should have no indirect effects on any of the recorded resources in the area.

Archaeological Resources

The section of Westerly Creek within the project area has already undergone significant physical disturbance, as the channel has been subject to erosion and prior construction activity. Portions of the creek bottom have been lined with concrete over the years and alluvial erosion has undercut the original and modern concrete lining by several feet. All disturbances will take place within the confines of the park or around existing bridges, culverts and other improvement to Westerly Creek. It is highly unlikely that any eligible, intact archaeological historic properties are present within the APE. Therefore, FEMA has determined that no archaeological resources will be affected by the undertaking.

Determination of Effects

FEMA believes that the background research and enclosed cultural resource form represent a reasonable and good faith effort to carry out appropriate identification efforts as stated in 36 CFR Part 800.4(b)(1). Based on this information, and in accordance with the Section 106 of the National Historic Preservation Act and its implementing regulation, 36 CFR Part 800.4(d)(1), FEMA has determined there will be 'no historic properties affected' as a result of the proposed action. If previously unknown cultural resources are discovered, work will be stopped, and FEMA, the Colorado SHPO and your office will be notified as soon as possible.

FEMA respectfully seeks your comments on potential impacts to archaeological sites, burials, and traditional cultural properties in or near the project area that are of importance to you or your tribe. If you have questions about any of the information contained in this letter or require additional information, please contact me by telephone at (303) 235-4926 or by e-mail at richard.myers@dhs.gov.

Sincerely,



Richard Myers
Deputy Regional Environmental Officer
FEMA Region VIII

cc: Gordon Tucker, URS Denver

Enclosure: *Limited-Results Cultural Resource Survey Form: Westerly Creek Flood Mitigation Project, Aurora, Colorado (July 16, 2012, Juston Fariello)*

LIMITED-RESULTS CULTURAL RESOURCE SURVEY FORM

(Page 1 of 4)

This form (#1420) is for small scale limited results projects - block surveys less than 160 acres with linear surveys under four miles. Additionally, there should be no sites and a maximum of four Isolated Finds. This form must be typed.

I. IDENTIFICATION

1. Report Title (include County): Westerly Creek Flood Mitigation Project, Aurora, Colorado
2. Date of Field Work: June 4, 2012
3. Form completed by: Juston Fariello Date: July 12, 2012
4. Survey Organization/Agency: URS Corporation
Principal Investigator: Gordon Tucker
Principal Investigator's Signature: _____
Other Crew: Juston Fariello (performed field survey)
Address: 8181 E. Tufts Ave, Denver, CO 80237
5. Lead Agency / Land Owner: Federal Emergency Management Agency (FEMA)
Contact: Richard Myers , Deputy Regional Environmental Officer
Address: FEMA Region VIII, Denver Federal Center, Building 710, Box 25267 Denver , CO
80225-0267
6. Client: FEMA
7. Permit Type and Number: Colorado Archaeology Survey Permit 2012-71
8. Report / Contract Number: HMA Subapplication No.: HSFEHQ-09-D-1130 / URS Project
15702626
9. Comments: N/A

II. DESCRIPTION OF UNDERTAKING / PROJECT

10. Type of Undertaking: A flood control project that includes the replacement of existing box culverts at Montview Boulevard (built circa 1970) with a new bridge. Additionally, the creek beneath the road would be lowered approximately 5 feet, and channel improvements would be made to approximately 2,700 linear feet of Westerly Creek. The proposed channel improvements would minimize impact to the already improved west bank and focus on lowering the channel and improving the east bank.
11. Size of Undertaking (acres): 1.4 Size of Project (if different) N/A
12. Nature of the Anticipated Disturbance: The excavation of approximately 12,000 cubic yards of soil and vegetation in an already disturbed area (a city park).

13. Comments: This project will take place primarily in Montview Park, a facility owned by the City of Aurora. The park has been landscaped with grass that extends to the edge of the creek. North of Montview Park (and Montview Avenue), the project area is adjacent to the Westerly Creek Trail on the west and a large commercial complex with asphalt parking lots on the east. The land east of the creek is dirt but has been disturbed by the construction of the adjacent commercial property. The channel north of Montview Avenue has a concrete retaining wall on the east side and most of the channel has a thick lining of trees. The proposed work will modify and improve a segment of Westerly Creek that flows through the park. As noted above, the work will involve the replacement of existing culverts (built circa 1970) and excavations in the base and the east bank of the creek. The entire Area of Potential Effects (APE) has been previously disturbed by construction activities in the 1960s, when the park and adjacent commercial properties were built. In addition, the entire APE is within an urban setting, with numerous houses of various ages (primarily built in the years 1930–1970) and commercial buildings located immediately adjacent to the project area. This section of Westerly Creek has already undergone significant physical disturbance, as the creek bed has been the subject of erosion and prior flood and erosion control projects. Due to the prior disturbances, it is unlikely that any eligible, intact archaeological historic properties are present within the APE. The project should not have any type of indirect visual or auditory effect on historic properties or resources located near the APE. All disturbances will take place within the confines of the park, and anysounds produced by the project will be temporary.

III. PROJECT LOCATION

Please attach a photocopy of USGS Quad. clearly showing the project location. The Quad. should be clearly labeled with the Prime Meridian, Township, Range, Section(s), Quad. map name, size, and date. Please do not reduce or enlarge the photocopy.

14. Description: Proposed channel improvements to Westerly Creek between 23rd Avenue and 17th Avenue in Aurora, CO.

15. Legal Location: Quad. Map: Englewood Date(s): 1965/1980
 Principal Meridian: 6th X NM Ute

NOTE: Only generalized subdivision ("quarter quarters") within each section is needed

Township: 3S Range: 67W Sec.: 33 1/4s SW NW SE ;

Township: Range: Sec.: 1/4s ;

Township: Range: Sec.: 1/4s ;

If section(s) is irregular, explain alignment method: N/A

16. Total number of acres surveyed: 1.4

17. Comments: N/A

IV. ENVIRONMENT

- 18. General Topographic Setting: Westerly Creek perennial drainage and surrounding floodplain.
Current Land Use: City park.
- 19. Flora: Grassy riparian zone with cottonwood trees, willow trees, and grasses.
- 20. Soils/Geology: Weld loam, brown to darkish grey. Alluvial floodplain.
- 21. Ground Visibility: 0%-20%
- 22. Comments: N/A

V. LITERATURE REVIEW

- 23. Location of File Search: COMPASS – Colorado’s Online Database Date: July 12, 2012
- 24. Previous Survey Activity - In the project area: None

In the general region: The project area is near the historic core of Aurora and is on the border of an older portion of Denver. Dozens of studies and surveys have been taken within a 1-mile radius of the project area and have recorded more than 250 resources, primarily buildings and built environment resources. No previously recorded historic resources are located within the APE. The project should have no indirect effects on any of the recorded resources in the area.

- 25. Known Cultural Resources - In the project area: None

In the general region (summarize): The project area is near the historic core of Aurora and is on the border of an older portion of Denver. More than 250 historic sites (primarily buildings and built environment resources) have been recorded within 1 mile of the APE, though no previously recorded cultural resources are located within the APE. The project should have no indirect effects on any of the recorded resources in the area. All work will take place within the creek bed, which is located in a park. Any sounds emanating from the project will be temporary.

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VI. STATEMENT OF OBJECTIVES

27. Intensive pedestrian survey of project area limited to banks and base of Westerly Creek between 23rd Avenue and 17th Avenue. Carefully inspect the project area for evidence of past patterned human activity, 50 years old or older.

VII. FIELD METHODS

28. Definitions: Site Five or more artifacts with or without associated features.
Isolated Find Four or less artifacts, no associated features.

29. Describe Survey Method: One archaeologist walked parallel transects spaced no more than 30 meters (approximately 100 feet) apart within the area. During this survey, the archaeologist closely inspected the ground surface for any evidence of past, patterned human activity. Cut banks along the creek were thoroughly inspected for buried cultural materials.

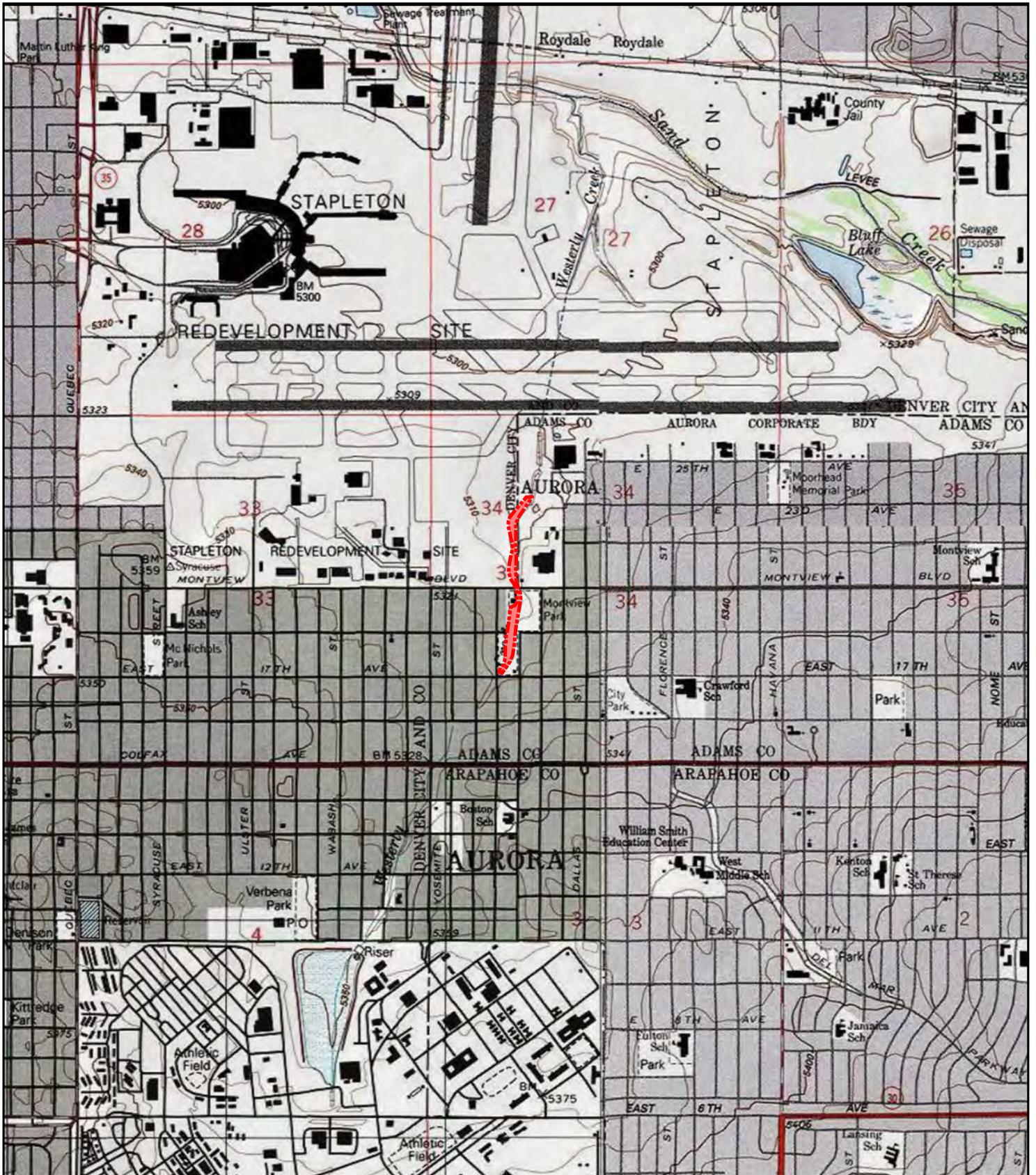
VIII. RESULTS

30. List IFs if applicable. Indicate IF locations on the map completed for Part III.

- A. Smithsonian Number: N/A Description: N/A
- B. Smithsonian Number: Description:
- C. Smithsonian Number: Description:
- D. Smithsonian Number: Description:

31. Using your professional knowledge of the region, why are there none or very limited cultural remains in the project area? Is there subsurface potential?

The project area has been heavily disturbed by the construction related to the park and its amenities as well as improvements to Westerly Creek. Subsurface potential is limited, and the potential for cultural resources has been lost due to disturbance.



Legend

 Project Area



Scale in Feet

**Westerly Creek
Flood Mitigation Project
Aurora, Colorado**



July 2012



PHOTOGRAPHIC LOG

Client Name:

FEMA

Project:

Westerly Creek Flood Mitigation Project

Project No.:

15702626.03HUH

Photo No.:

100-6422

Date:

6/4/2012

Site Number:

N/A

Description:

Looking southwest at existing box culvert under 17th Avenue. This is the southern (upstream) end of the project area.



PHOTOGRAPHIC LOG

Client Name:

FEMA

Project:

Westerly Creek Flood Mitigation Project

Project No.:

15702626.03HUH

Photo No.:

100-6433

Date:

6/4/2012

Site Number:

N/A

Description:

Looking north (toward Montview Boulevard) from 17th Avenue box culvert.





PHOTOGRAPHIC LOG

Client Name: FEMA		Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
Photo No.: 100-6426	Date: 6/4/2012		
Site Number: N/A			
Description: Looking northwest toward Montview Boulevard.			



PHOTOGRAPHIC LOG

Client Name: FEMA		Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
Photo No.: 100-6447	Date: 6/4/2012		
Site Number: N/A			
Description: Looking north toward existing box culvert under Montview Boulevard.			



PHOTOGRAPHIC LOG

Client Name: FEMA		Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
Photo No.: 100-6485	Date: 6/4/2012		
Site Number: N/A			
Description: Looking north from Montview Boulevard.			



PHOTOGRAPHIC LOG

Client Name: FEMA		Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
Photo No.: 100-6487	Date: 6/4/2012		
Site Number: N/A			
Description: Looking south at existing box culvert under Montview Boulevard.			

LIMITED-RESULTS CULTURAL RESOURCE SURVEY FORM

(Page 1 of 4)

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Principal Investigator's Signature: _____
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FEMA

R8-EHP

September 5, 2012

Mr. Leroy Spang, President
Northern Cheyenne Tribe
P.O. Box 128
Lame Deer, MT 59043

**RE: Westerly Creek Flood Mitigation Project, Aurora, Colorado;
FEMA FMA-PJ-08-CO-2011-001**

Dear President Spang:

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Determination of Effects

FEMA believes that the background research and enclosed cultural resource form represent a reasonable and good faith effort to carry out appropriate identification efforts as stated in 36 CFR Part 800.4(b)(1). Based on this information, and in accordance with the Section 106 of the National Historic Preservation Act and its implementing regulation, 36 CFR Part 800.4(d)(1), FEMA has determined there will be 'no historic properties affected' as a result of the proposed action. If previously unknown cultural resources are discovered, work will be stopped, and FEMA, the Colorado SHPO and your office will be notified as soon as possible.

FEMA respectfully seeks your comments on potential impacts to archaeological sites, burials, and traditional cultural properties in or near the project area that are of importance to you or your tribe. If you have questions about any of the information contained in this letter or require additional information, please contact me by telephone at (303) 235-4926 or by e-mail at richard.myers@dhs.gov.

Sincerely,



Richard Myers
Deputy Regional Environmental Officer
FEMA Region VIII

cc: Gordon Tucker, URS Denver

Enclosure: *Limited-Results Cultural Resource Survey Form: Westerly Creek Flood Mitigation Project, Aurora, Colorado (July 16, 2012, Juston Fariello)*

LIMITED-RESULTS CULTURAL RESOURCE SURVEY FORM

(Page 1 of 4)

This form (#1420) is for small scale limited results projects - block surveys less than 160 acres with linear surveys under four miles. Additionally, there should be no sites and a maximum of four Isolated Finds. This form must be typed.

I. IDENTIFICATION

1. Report Title (include County): Westerly Creek Flood Mitigation Project, Aurora, Colorado
2. Date of Field Work: June 4, 2012
3. Form completed by: Juston Fariello Date: July 12, 2012
4. Survey Organization/Agency: URS Corporation
Principal Investigator: Gordon Tucker
Principal Investigator's Signature: _____
Other Crew: Juston Fariello (performed field survey)
Address: 8181 E. Tufts Ave, Denver, CO 80237
5. Lead Agency / Land Owner: Federal Emergency Management Agency (FEMA)
Contact: Richard Myers , Deputy Regional Environmental Officer
Address: FEMA Region VIII, Denver Federal Center, Building 710, Box 25267 Denver , CO
80225-0267
6. Client: FEMA
7. Permit Type and Number: Colorado Archaeology Survey Permit 2012-71
8. Report / Contract Number: HMA Subapplication No.: HSFEHQ-09-D-1130 / URS Project
15702626
9. Comments: N/A

II. DESCRIPTION OF UNDERTAKING / PROJECT

10. Type of Undertaking: A flood control project that includes the replacement of existing box culverts at Montview Boulevard (built circa 1970) with a new bridge. Additionally, the creek beneath the road would be lowered approximately 5 feet, and channel improvements would be made to approximately 2,700 linear feet of Westerly Creek. The proposed channel improvements would minimize impact to the already improved west bank and focus on lowering the channel and improving the east bank.
11. Size of Undertaking (acres): 1.4 Size of Project (if different) N/A
12. Nature of the Anticipated Disturbance: The excavation of approximately 12,000 cubic yards of soil and vegetation in an already disturbed area (a city park).

13. Comments: This project will take place primarily in Montview Park, a facility owned by the City of Aurora. The park has been landscaped with grass that extends to the edge of the creek. North of Montview Park (and Montview Avenue), the project area is adjacent to the Westerly Creek Trail on the west and a large commercial complex with asphalt parking lots on the east. The land east of the creek is dirt but has been disturbed by the construction of the adjacent commercial property. The channel north of Montview Avenue has a concrete retaining wall on the east side and most of the channel has a thick lining of trees. The proposed work will modify and improve a segment of Westerly Creek that flows through the park. As noted above, the work will involve the replacement of existing culverts (built circa 1970) and excavations in the base and the east bank of the creek. The entire Area of Potential Effects (APE) has been previously disturbed by construction activities in the 1960s, when the park and adjacent commercial properties were built. In addition, the entire APE is within an urban setting, with numerous houses of various ages (primarily built in the years 1930–1970) and commercial buildings located immediately adjacent to the project area. This section of Westerly Creek has already undergone significant physical disturbance, as the creek bed has been the subject of erosion and prior flood and erosion control projects. Due to the prior disturbances, it is unlikely that any eligible, intact archaeological historic properties are present within the APE. The project should not have any type of indirect visual or auditory effect on historic properties or resources located near the APE. All disturbances will take place within the confines of the park, and anysounds produced by the project will be temporary.

III. PROJECT LOCATION

Please attach a photocopy of USGS Quad. clearly showing the project location. The Quad. should be clearly labeled with the Prime Meridian, Township, Range, Section(s), Quad. map name, size, and date. Please do not reduce or enlarge the photocopy.

14. Description: Proposed channel improvements to Westerly Creek between 23rd Avenue and 17th Avenue in Aurora, CO.

15. Legal Location: Quad. Map: Englewood Date(s): 1965/1980
 Principal Meridian: 6th X NM Ute

NOTE: Only generalized subdivision ("quarter quarters") within each section is needed

Township: 3S Range: 67W Sec.: 33 1/4s SW NW SE ;

Township: Range: Sec.: 1/4s ;

Township: Range: Sec.: 1/4s ;

If section(s) is irregular, explain alignment method: N/A

16. Total number of acres surveyed: 1.4

17. Comments: N/A

IV. ENVIRONMENT

- 18. General Topographic Setting: Westerly Creek perennial drainage and surrounding floodplain.
Current Land Use: City park.
- 19. Flora: Grassy riparian zone with cottonwood trees, willow trees, and grasses.
- 20. Soils/Geology: Weld loam, brown to darkish grey. Alluvial floodplain.
- 21. Ground Visibility: 0%-20%
- 22. Comments: N/A

V. LITERATURE REVIEW

- 23. Location of File Search: COMPASS – Colorado’s Online Database Date: July 12, 2012
- 24. Previous Survey Activity - In the project area: None

In the general region: The project area is near the historic core of Aurora and is on the border of an older portion of Denver. Dozens of studies and surveys have been taken within a 1-mile radius of the project area and have recorded more than 250 resources, primarily buildings and built environment resources. No previously recorded historic resources are located within the APE. The project should have no indirect effects on any of the recorded resources in the area.

- 25. Known Cultural Resources - In the project area: None

In the general region (summarize): The project area is near the historic core of Aurora and is on the border of an older portion of Denver. More than 250 historic sites (primarily buildings and built environment resources) have been recorded within 1 mile of the APE, though no previously recorded cultural resources are located within the APE. The project should have no indirect effects on any of the recorded resources in the area. All work will take place within the creek bed, which is located in a park. Any sounds emanating from the project will be temporary.

- 26. Expected Results: The intensity of natural and modern disturbances has decreased the potential for cultural resources. Based on the records search and disturbance in the APE, it is unlikely that cultural materials will be discovered during the pedestrian survey.

VI. STATEMENT OF OBJECTIVES

27. Intensive pedestrian survey of project area limited to banks and base of Westerly Creek between 23rd Avenue and 17th Avenue. Carefully inspect the project area for evidence of past patterned human activity, 50 years old or older.

VII. FIELD METHODS

28. Definitions: Site Five or more artifacts with or without associated features.
Isolated Find Four or less artifacts, no associated features.

29. Describe Survey Method: One archaeologist walked parallel transects spaced no more than 30 meters (approximately 100 feet) apart within the area. During this survey, the archaeologist closely inspected the ground surface for any evidence of past, patterned human activity. Cut banks along the creek were thoroughly inspected for buried cultural materials.

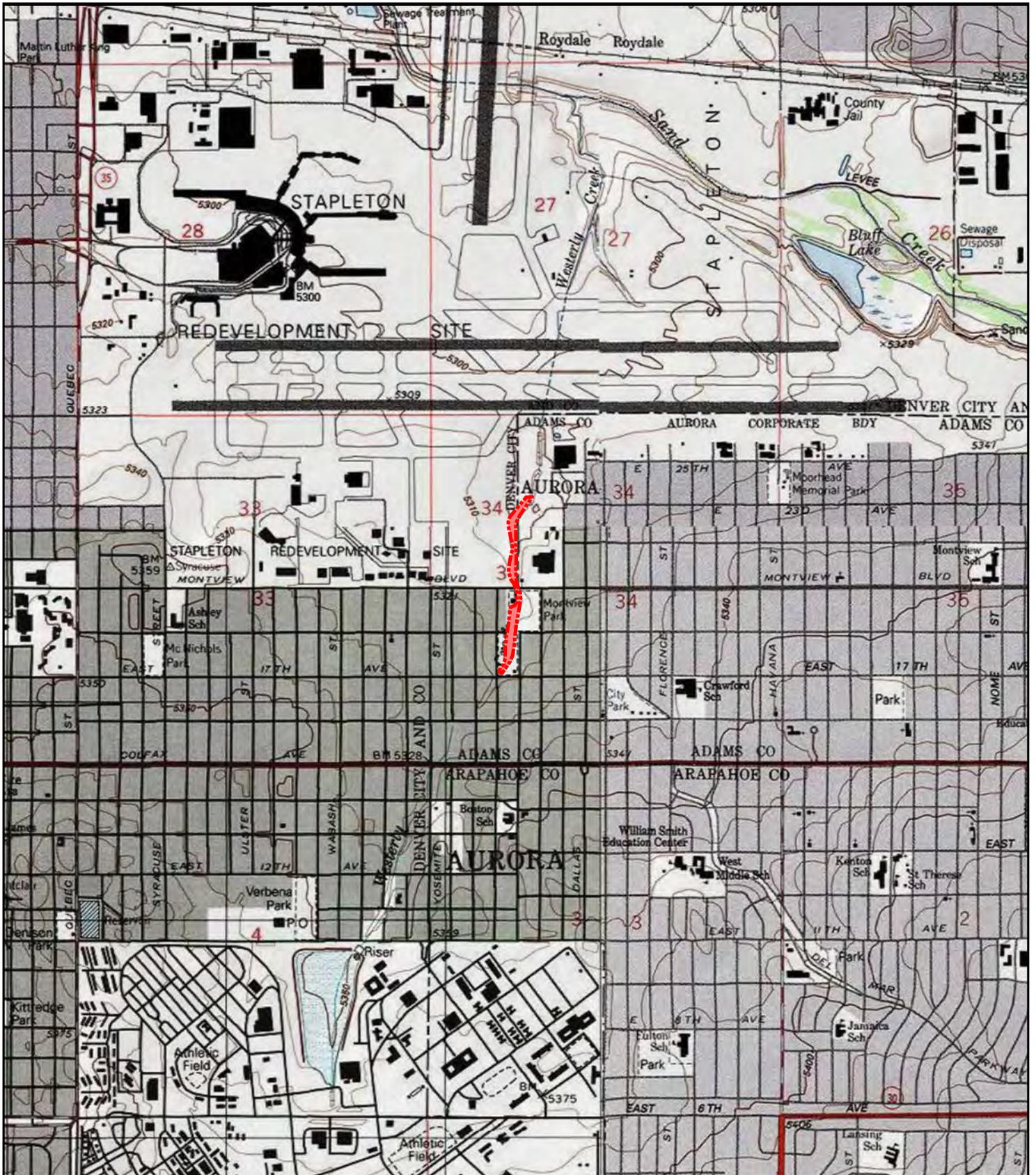
VIII. RESULTS

30. List IFs if applicable. Indicate IF locations on the map completed for Part III.

- A. Smithsonian Number: N/A Description: N/A
- B. Smithsonian Number: Description:
- C. Smithsonian Number: Description:
- D. Smithsonian Number: Description:

31. Using your professional knowledge of the region, why are there none or very limited cultural remains in the project area? Is there subsurface potential?

The project area has been heavily disturbed by the construction related to the park and its amenities as well as improvements to Westerly Creek. Subsurface potential is limited, and the potential for cultural resources has been lost due to disturbance.



Legend

 Project Area



Scale in Feet

**Westerly Creek
Flood Mitigation Project
Aurora, Colorado**



July 2012



PHOTOGRAPHIC LOG

Client Name: FEMA	Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
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Photo No.: 100-6422	Date: 6/4/2012
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Site Number: N/A

Description:
Looking southwest at existing box culvert under 17th Avenue. This is the southern (upstream) end of the project area.



PHOTOGRAPHIC LOG

Client Name: FEMA	Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
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Photo No.: 100-6433	Date: 6/4/2012
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Site Number: N/A

Description:
Looking north (toward Montview Boulevard) from 17th Avenue box culvert.





PHOTOGRAPHIC LOG

Client Name: FEMA		Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
Photo No.: 100-6426	Date: 6/4/2012		
Site Number: N/A			
Description: Looking northwest toward Montview Boulevard.			



PHOTOGRAPHIC LOG

Client Name: FEMA		Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
Photo No.: 100-6447	Date: 6/4/2012		
Site Number: N/A			
Description: Looking north toward existing box culvert under Montview Boulevard.			



PHOTOGRAPHIC LOG

Client Name: FEMA		Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
Photo No.: 100-6485	Date: 6/4/2012		
Site Number: N/A			
Description: Looking north from Montview Boulevard.			



PHOTOGRAPHIC LOG

Client Name: FEMA		Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
Photo No.: 100-6487	Date: 6/4/2012		
Site Number: N/A			
Description: Looking south at existing box culvert under Montview Boulevard.			

LIMITED-RESULTS CULTURAL RESOURCE SURVEY FORM

(Page 1 of 4)

This form (#1420) is for small scale limited results projects - block surveys less than 160 acres with linear surveys under four miles. Additionally, there should be no sites and a maximum of four Isolated Finds. This form must be typed.

I. IDENTIFICATION

1. Report Title (include County): Westerly Creek Flood Mitigation Project, Aurora, Colorado
2. Date of Field Work: June 4, 2012
3. Form completed by: Juston Fariello Date: July 12, 2012
4. Survey Organization/Agency: URS Corporation
Principal Investigator: Gordon Tucker
Principal Investigator's Signature: _____
Other Crew: Juston Fariello (performed field survey)
Address: 8181 E. Tufts Ave, Denver, CO 80237
5. Lead Agency / Land Owner: Federal Emergency Management Agency (FEMA)
Contact: Richard Myers , Deputy Regional Environmental Officer
Address: FEMA Region VIII, Denver Federal Center, Building 710, Box 25267 Denver , CO
80225-0267
6. Client: FEMA
7. Permit Type and Number: Colorado Archaeology Survey Permit 2012-71
8. Report / Contract Number: HMA Subapplication No.: HSFEHQ-09-D-1130 / URS Project
15702626
9. Comments: N/A

II. DESCRIPTION OF UNDERTAKING / PROJECT

10. Type of Undertaking: A flood control project that includes the replacement of existing box culverts at Montview Boulevard (built circa 1970) with a new bridge. Additionally, the creek beneath the road would be lowered approximately 5 feet, and channel improvements would be made to approximately 2,700 linear feet of Westerly Creek. The proposed channel improvements would minimize impact to the already improved west bank and focus on lowering the channel and improving the east bank.
11. Size of Undertaking (acres): 1.4 Size of Project (if different) N/A
12. Nature of the Anticipated Disturbance: The excavation of approximately 12,000 cubic yards of soil and vegetation in an already disturbed area (a city park).

13. Comments: This project will take place primarily in Montview Park, a facility owned by the City of Aurora. The park has been landscaped with grass that extends to the edge of the creek. North of Montview Park (and Montview Avenue), the project area is adjacent to the Westerly Creek Trail on the west and a large commercial complex with asphalt parking lots on the east. The land east of the creek is dirt but has been disturbed by the construction of the adjacent commercial property. The channel north of Montview Avenue has a concrete retaining wall on the east side and most of the channel has a thick lining of trees. The proposed work will modify and improve a segment of Westerly Creek that flows through the park. As noted above, the work will involve the replacement of existing culverts (built circa 1970) and excavations in the base and the east bank of the creek. The entire Area of Potential Effects (APE) has been previously disturbed by construction activities in the 1960s, when the park and adjacent commercial properties were built. In addition, the entire APE is within an urban setting, with numerous houses of various ages (primarily built in the years 1930–1970) and commercial buildings located immediately adjacent to the project area. This section of Westerly Creek has already undergone significant physical disturbance, as the creek bed has been the subject of erosion and prior flood and erosion control projects. Due to the prior disturbances, it is unlikely that any eligible, intact archaeological historic properties are present within the APE. The project should not have any type of indirect visual or auditory effect on historic properties or resources located near the APE. All disturbances will take place within the confines of the park, and anysounds produced by the project will be temporary.

III. PROJECT LOCATION

Please attach a photocopy of USGS Quad. clearly showing the project location. The Quad. should be clearly labeled with the Prime Meridian, Township, Range, Section(s), Quad. map name, size, and date. Please do not reduce or enlarge the photocopy.

14. Description: Proposed channel improvements to Westerly Creek between 23rd Avenue and 17th Avenue in Aurora, CO.

15. Legal Location: Quad. Map: Englewood Date(s): 1965/1980
 Principal Meridian: 6th X NM Ute

NOTE: Only generalized subdivision ("quarter quarters") within each section is needed

Township: 3S Range: 67W Sec.: 33 1/4s SW NW SE ;

Township: Range: Sec.: 1/4s ;

Township: Range: Sec.: 1/4s ;

If section(s) is irregular, explain alignment method: N/A

16. Total number of acres surveyed: 1.4

17. Comments: N/A

IV. ENVIRONMENT

- 18. General Topographic Setting: Westerly Creek perennial drainage and surrounding floodplain.
Current Land Use: City park.
- 19. Flora: Grassy riparian zone with cottonwood trees, willow trees, and grasses.
- 20. Soils/Geology: Weld loam, brown to darkish grey. Alluvial floodplain.
- 21. Ground Visibility: 0%-20%
- 22. Comments: N/A

V. LITERATURE REVIEW

- 23. Location of File Search: COMPASS – Colorado’s Online Database Date: July 12, 2012
- 24. Previous Survey Activity - In the project area: None

In the general region: The project area is near the historic core of Aurora and is on the border of an older portion of Denver. Dozens of studies and surveys have been taken within a 1-mile radius of the project area and have recorded more than 250 resources, primarily buildings and built environment resources. No previously recorded historic resources are located within the APE. The project should have no indirect effects on any of the recorded resources in the area.

- 25. Known Cultural Resources - In the project area: None

In the general region (summarize): The project area is near the historic core of Aurora and is on the border of an older portion of Denver. More than 250 historic sites (primarily buildings and built environment resources) have been recorded within 1 mile of the APE, though no previously recorded cultural resources are located within the APE. The project should have no indirect effects on any of the recorded resources in the area. All work will take place within the creek bed, which is located in a park. Any sounds emanating from the project will be temporary.

- 26. Expected Results: The intensity of natural and modern disturbances has decreased the potential for cultural resources. Based on the records search and disturbance in the APE, it is unlikely that cultural materials will be discovered during the pedestrian survey.

VI. STATEMENT OF OBJECTIVES

27. Intensive pedestrian survey of project area limited to banks and base of Westerly Creek between 23rd Avenue and 17th Avenue. Carefully inspect the project area for evidence of past patterned human activity, 50 years old or older.

VII. FIELD METHODS

28. Definitions: Site Five or more artifacts with or without associated features.
Isolated Find Four or less artifacts, no associated features.

29. Describe Survey Method: One archaeologist walked parallel transects spaced no more than 30 meters (approximately 100 feet) apart within the area. During this survey, the archaeologist closely inspected the ground surface for any evidence of past, patterned human activity. Cut banks along the creek were thoroughly inspected for buried cultural materials.

VIII. RESULTS

30. List IFs if applicable. Indicate IF locations on the map completed for Part III.

- A. Smithsonian Number: N/A Description: N/A
- B. Smithsonian Number: Description:
- C. Smithsonian Number: Description:
- D. Smithsonian Number: Description:

31. Using your professional knowledge of the region, why are there none or very limited cultural remains in the project area? Is there subsurface potential?

The project area has been heavily disturbed by the construction related to the park and its amenities as well as improvements to Westerly Creek. Subsurface potential is limited, and the potential for cultural resources has been lost due to disturbance.



FEMA

R8-EHP

September 5, 2012

Ms. Janice Prairie Chief Boswell, Governor
Cheyenne and Arapaho Tribes, Oklahoma
Office of the Tribal Council
P.O. Box 38
Concho, OK 73022

**RE: Westerly Creek Flood Mitigation Project, Aurora, Colorado;
FEMA FMA-PJ-08-CO-2011-001**

Dear Governor Boswell:

The City of Aurora (City) has applied for funding under the Department of Homeland Security (DHS), Federal Emergency Management Agency (FEMA), Flood Mitigation Assistance (FMA) program, which provides funding to States and communities to assist in their efforts to reduce or eliminate the risk of repetitive flood damage to buildings, and structures insurable under the National Flood Insurance Program (NFIP). The purpose of this letter is to initiate and conclude consultation pursuant to Section 106 of the National Historic Preservation Act (NHPA), as implemented by 36 CFR Part 800.

At the request of the Federal Emergency Management Agency (FEMA), URS Group, Inc. conducted a preliminary pedestrian survey and prepared the enclosed cultural resources form entitled *Westerly Creek Flood Mitigation Project, Aurora, Colorado*.

Undertaking

The City of Aurora is proposing a flood control project that includes the replacement of existing box culverts at Montview Boulevard (built circa 1970) with a new bridge. Additionally, the creek beneath the road would be lowered approximately 5 feet, and channel improvements would be made to approximately 2,700 linear feet of Westerly Creek. The proposed channel improvements would minimize impact to the already improved west bank and focus on lowering the creek bed and improving the east bank. The proposed impacts encompass approximately 1.4 acres. The Federal Emergency Management Agency (FEMA) is partially funding this project and is required under Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, to take into account the effects of its actions on historic properties.

Area of Potential Effects

The Area of Potential Effects (APE) is defined as the approximately 1.4-acre area along both sides of Westerly Creek, between 23rd Avenue and 17th Avenue, which will be directly affected by the project components. The project is next to existing roads, and additional access routes are not needed. Equipment and material storage can be contained within the area of disturbance or adjacent parking lots. All work will take place within the creek bed, which is located in a park. The attached survey form contains a map (Figure_1-1) depicting the APE.

Identification of Historic Properties

The survey of the proposed project resulted in the findings of no historic properties within the APE. The project area is near the historic core of Aurora and is on the border of an older portion of Denver. More than 250 historic sites (primarily buildings and built environment resources) have been recorded within 1 mile of the APE, though no previously recorded cultural resources are located within the APE. The project should have no indirect effects on any of the recorded resources in the area.

Archaeological Resources

The section of Westerly Creek within the project area has already undergone significant physical disturbance, as the channel has been subject to erosion and prior construction activity. Portions of the creek bottom have been lined with concrete over the years and alluvial erosion has undercut the original and modern concrete lining by several feet. All disturbances will take place within the confines of the park or around existing bridges, culverts and other improvement to Westerly Creek. It is highly unlikely that any eligible, intact archaeological historic properties are present within the APE. Therefore, FEMA has determined that no archaeological resources will be affected by the undertaking.

Determination of Effects

FEMA believes that the background research and enclosed cultural resource form represent a reasonable and good faith effort to carry out appropriate identification efforts as stated in 36 CFR Part 800.4(b)(1). Based on this information, and in accordance with the Section 106 of the National Historic Preservation Act and its implementing regulation, 36 CFR Part 800.4(d)(1), FEMA has determined there will be 'no historic properties affected' as a result of the proposed action. If previously unknown cultural resources are discovered, work will be stopped, and FEMA, the Colorado SHPO and your office will be notified as soon as possible.

FEMA respectfully seeks your comments on potential impacts to archaeological sites, burials, and traditional cultural properties in or near the project area that are of importance to you or your tribe. If you have questions about any of the information contained in this letter or require additional information, please contact me by telephone at (303) 235-4926 or by e-mail at richard.myers@dhs.gov.

Sincerely,



Richard Myers
Deputy Regional Environmental Officer
FEMA Region VIII

cc: Gordon Tucker, URS Denver

Enclosure: *Limited-Results Cultural Resource Survey Form: Westerly Creek Flood Mitigation Project, Aurora, Colorado (July 16, 2012, Juston Fariello)*

LIMITED-RESULTS CULTURAL RESOURCE SURVEY FORM

(Page 1 of 4)

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16. Total number of acres surveyed: 1.4

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- 20. Soils/Geology: Weld loam, brown to darkish grey. Alluvial floodplain.
- 21. Ground Visibility: 0%-20%
- 22. Comments: N/A

V. LITERATURE REVIEW

- 23. Location of File Search: COMPASS – Colorado’s Online Database Date: July 12, 2012
- 24. Previous Survey Activity - In the project area: None

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VI. STATEMENT OF OBJECTIVES

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Isolated Find Four or less artifacts, no associated features.

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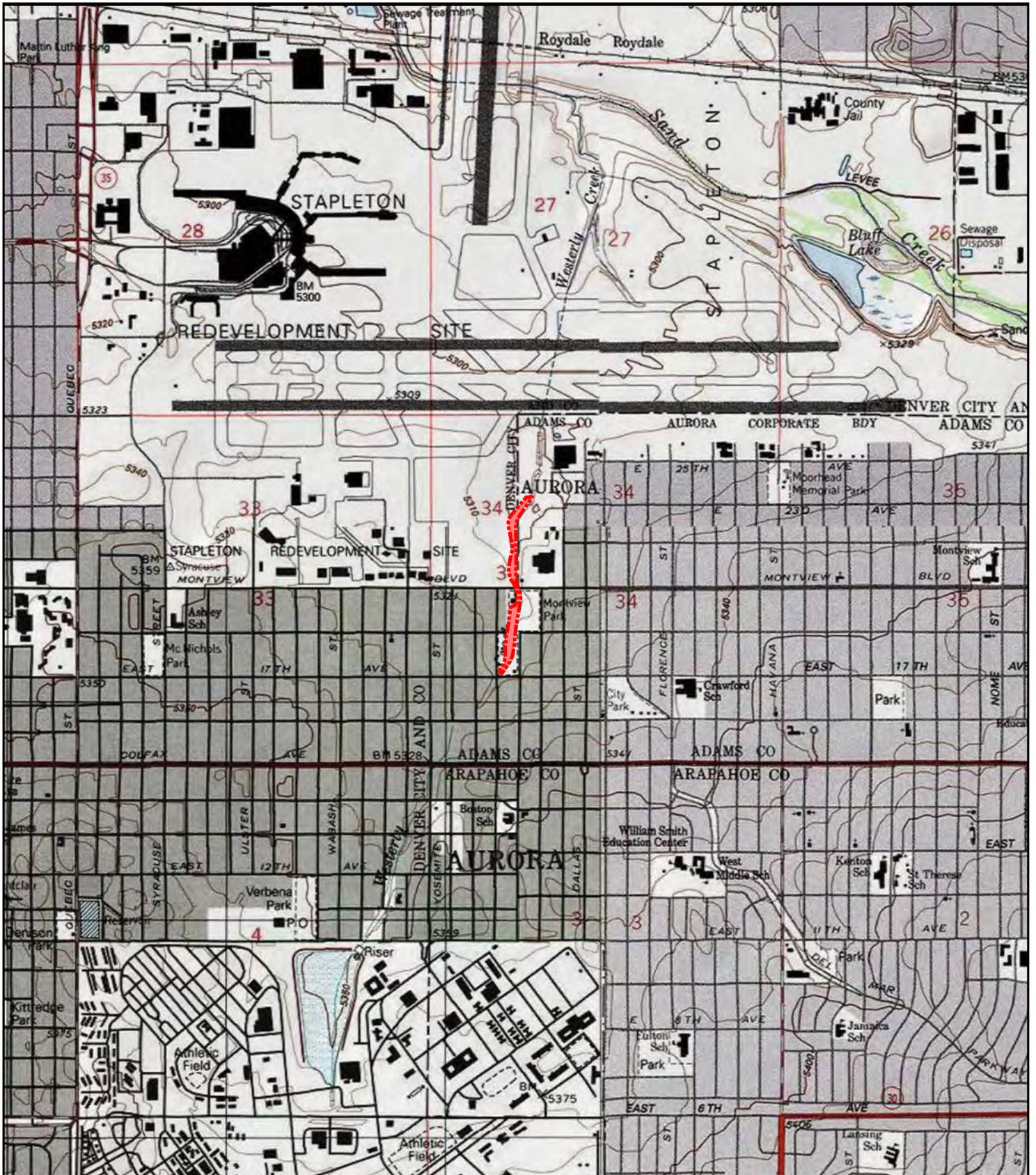
VIII. RESULTS

30. List IFs if applicable. Indicate IF locations on the map completed for Part III.

- A. Smithsonian Number: N/A Description: N/A
- B. Smithsonian Number: Description:
- C. Smithsonian Number: Description:
- D. Smithsonian Number: Description:

31. Using your professional knowledge of the region, why are there none or very limited cultural remains in the project area? Is there subsurface potential?

The project area has been heavily disturbed by the construction related to the park and its amenities as well as improvements to Westerly Creek. Subsurface potential is limited, and the potential for cultural resources has been lost due to disturbance.



Legend

 Project Area



Scale in Feet

**Westerly Creek
Flood Mitigation Project
Aurora, Colorado**



July 2012



PHOTOGRAPHIC LOG

Client Name: FEMA		Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
Photo No.: 100-6422	Date: 6/4/2012		
Site Number: N/A			
Description: Looking southwest at existing box culvert under 17th Avenue. This is the southern (upstream) end of the project area.			



PHOTOGRAPHIC LOG

Client Name: FEMA		Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
Photo No.: 100-6433	Date: 6/4/2012		
Site Number: N/A			
Description: Looking north (toward Montview Boulevard) from 17th Avenue box culvert.			



PHOTOGRAPHIC LOG

Client Name: FEMA		Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
Photo No.: 100-6426	Date: 6/4/2012		
Site Number: N/A			
Description: Looking northwest toward Montview Boulevard.			



PHOTOGRAPHIC LOG

Client Name: FEMA		Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
Photo No.: 100-6447	Date: 6/4/2012		
Site Number: N/A			
Description: Looking north toward existing box culvert under Montview Boulevard.			



PHOTOGRAPHIC LOG

Client Name: FEMA		Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
Photo No.: 100-6485	Date: 6/4/2012		
Site Number: N/A			
Description: Looking north from Montview Boulevard.			



PHOTOGRAPHIC LOG

Client Name: FEMA		Project: Westerly Creek Flood Mitigation Project	Project No.: 15702626.03HUH
Photo No.: 100-6487	Date: 6/4/2012		
Site Number: N/A			
Description: Looking south at existing box culvert under Montview Boulevard.			

LIMITED-RESULTS CULTURAL RESOURCE SURVEY FORM

(Page 1 of 4)

This form (#1420) is for small scale limited results projects - block surveys less than 160 acres with linear surveys under four miles. Additionally, there should be no sites and a maximum of four Isolated Finds. This form must be typed.

I. IDENTIFICATION

1. Report Title (include County): Westerly Creek Flood Mitigation Project, Aurora, Colorado
2. Date of Field Work: June 4, 2012
3. Form completed by: Juston Fariello Date: July 12, 2012
4. Survey Organization/Agency: URS Corporation
Principal Investigator: Gordon Tucker
Principal Investigator's Signature: _____
Other Crew: Juston Fariello (performed field survey)
Address: 8181 E. Tufts Ave, Denver, CO 80237
5. Lead Agency / Land Owner: Federal Emergency Management Agency (FEMA)
Contact: Richard Myers , Deputy Regional Environmental Officer
Address: FEMA Region VIII, Denver Federal Center, Building 710, Box 25267 Denver , CO
80225-0267
6. Client: FEMA
7. Permit Type and Number: Colorado Archaeology Survey Permit 2012-71
8. Report / Contract Number: HMA Subapplication No.: HSFEHQ-09-D-1130 / URS Project
15702626
9. Comments: N/A

II. DESCRIPTION OF UNDERTAKING / PROJECT

10. Type of Undertaking: A flood control project that includes the replacement of existing box culverts at Montview Boulevard (built circa 1970) with a new bridge. Additionally, the creek beneath the road would be lowered approximately 5 feet, and channel improvements would be made to approximately 2,700 linear feet of Westerly Creek. The proposed channel improvements would minimize impact to the already improved west bank and focus on lowering the channel and improving the east bank.
11. Size of Undertaking (acres): 1.4 Size of Project (if different) N/A
12. Nature of the Anticipated Disturbance: The excavation of approximately 12,000 cubic yards of soil and vegetation in an already disturbed area (a city park).

13. Comments: This project will take place primarily in Montview Park, a facility owned by the City of Aurora. The park has been landscaped with grass that extends to the edge of the creek. North of Montview Park (and Montview Avenue), the project area is adjacent to the Westerly Creek Trail on the west and a large commercial complex with asphalt parking lots on the east. The land east of the creek is dirt but has been disturbed by the construction of the adjacent commercial property. The channel north of Montview Avenue has a concrete retaining wall on the east side and most of the channel has a thick lining of trees. The proposed work will modify and improve a segment of Westerly Creek that flows through the park. As noted above, the work will involve the replacement of existing culverts (built circa 1970) and excavations in the base and the east bank of the creek. The entire Area of Potential Effects (APE) has been previously disturbed by construction activities in the 1960s, when the park and adjacent commercial properties were built. In addition, the entire APE is within an urban setting, with numerous houses of various ages (primarily built in the years 1930–1970) and commercial buildings located immediately adjacent to the project area. This section of Westerly Creek has already undergone significant physical disturbance, as the creek bed has been the subject of erosion and prior flood and erosion control projects. Due to the prior disturbances, it is unlikely that any eligible, intact archaeological historic properties are present within the APE. The project should not have any type of indirect visual or auditory effect on historic properties or resources located near the APE. All disturbances will take place within the confines of the park, and anysounds produced by the project will be temporary.

III. PROJECT LOCATION

Please attach a photocopy of USGS Quad. clearly showing the project location. The Quad. should be clearly labeled with the Prime Meridian, Township, Range, Section(s), Quad. map name, size, and date. Please do not reduce or enlarge the photocopy.

14. Description: Proposed channel improvements to Westerly Creek between 23rd Avenue and 17th Avenue in Aurora, CO.

15. Legal Location: Quad. Map: Englewood Date(s): 1965/1980
 Principal Meridian: 6th X NM Ute

NOTE: Only generalized subdivision ("quarter quarters") within each section is needed

Township: 3S Range: 67W Sec.: 33 1/4s SW NW SE ;

Township: Range: Sec.: 1/4s ;

Township: Range: Sec.: 1/4s ;

If section(s) is irregular, explain alignment method: N/A

16. Total number of acres surveyed: 1.4

17. Comments: N/A

IV. ENVIRONMENT

- 18. General Topographic Setting: Westerly Creek perennial drainage and surrounding floodplain.
Current Land Use: City park.
- 19. Flora: Grassy riparian zone with cottonwood trees, willow trees, and grasses.
- 20. Soils/Geology: Weld loam, brown to darkish grey. Alluvial floodplain.
- 21. Ground Visibility: 0%-20%
- 22. Comments: N/A

V. LITERATURE REVIEW

- 23. Location of File Search: COMPASS – Colorado’s Online Database Date: July 12, 2012
- 24. Previous Survey Activity - In the project area: None

In the general region: The project area is near the historic core of Aurora and is on the border of an older portion of Denver. Dozens of studies and surveys have been taken within a 1-mile radius of the project area and have recorded more than 250 resources, primarily buildings and built environment resources. No previously recorded historic resources are located within the APE. The project should have no indirect effects on any of the recorded resources in the area.

- 25. Known Cultural Resources - In the project area: None

In the general region (summarize): The project area is near the historic core of Aurora and is on the border of an older portion of Denver. More than 250 historic sites (primarily buildings and built environment resources) have been recorded within 1 mile of the APE, though no previously recorded cultural resources are located within the APE. The project should have no indirect effects on any of the recorded resources in the area. All work will take place within the creek bed, which is located in a park. Any sounds emanating from the project will be temporary.

- 26. Expected Results: The intensity of natural and modern disturbances has decreased the potential for cultural resources. Based on the records search and disturbance in the APE, it is unlikely that cultural materials will be discovered during the pedestrian survey.

VI. STATEMENT OF OBJECTIVES

27. Intensive pedestrian survey of project area limited to banks and base of Westerly Creek between 23rd Avenue and 17th Avenue. Carefully inspect the project area for evidence of past patterned human activity, 50 years old or older.

VII. FIELD METHODS

28. Definitions: Site Five or more artifacts with or without associated features.
Isolated Find Four or less artifacts, no associated features.

29. Describe Survey Method: One archaeologist walked parallel transects spaced no more than 30 meters (approximately 100 feet) apart within the area. During this survey, the archaeologist closely inspected the ground surface for any evidence of past, patterned human activity. Cut banks along the creek were thoroughly inspected for buried cultural materials.

VIII. RESULTS

30. List IFs if applicable. Indicate IF locations on the map completed for Part III.

- A. Smithsonian Number: N/A Description: N/A
- B. Smithsonian Number: Description:
- C. Smithsonian Number: Description:
- D. Smithsonian Number: Description:

31. Using your professional knowledge of the region, why are there none or very limited cultural remains in the project area? Is there subsurface potential?

The project area has been heavily disturbed by the construction related to the park and its amenities as well as improvements to Westerly Creek. Subsurface potential is limited, and the potential for cultural resources has been lost due to disturbance.

APPENDIX D
EIGHT-STEP DECISION-MAKING PROCESS

CITY OF AURORA FLOOD MITIGATION PROJECT
Executive Order 11988 – Floodplain Management
Executive Order 11990 – Protection of Wetlands
Eight-Step Decision Making Process

Executive Order 11988 (Floodplain Management) required federal agencies “to avoid to the extent possible the long and short term adverse impacts associated with the occupancy and modification of the floodplain and to avoid direct or indirect support of floodplain development wherever there is a practicable alternative.” FEMA’s implementing regulations are at 24 CFR Part 9, which includes an eight-step decision making process for compliance with this part of the Executive Order.

Executive Order 11990 (Protection of Wetlands) requires federal agencies “to avoid construction or management practices that would adversely affect wetlands unless that agency finds that (1) there is no practicable alternative, and (2) the proposed action includes measures to minimize harm to the wetlands. The EO directs all federal agencies to minimize the destruction, loss, or degradation of wetlands; and preserve and enhance the natural beneficial values of wetlands in the conduct of the agency’s responsibilities. FEMA’s implementing regulations are at 44 CFR Part 9, which includes an eight-step decision making process for compliance with this part of the Executive Order.

This eight-step process is being applied to the City of Aurora Flood Mitigation Project as the proposed project is located in the 100-year floodplain of Westerly Creek and associated wetlands. The steps in the decision making process are as follows:

Step 1 Determine if the proposed action is located in the Base Floodplain and/or wetland.

The City of Aurora Flood Mitigation Project involves the modification (widening and deepening) of Reach 2 of Westerly Creek, the replacement of twin box culverts under Montview Boulevard, the placement of drop structures, and placement of riprap within the identified base floodplain (according to FEMA Flood Insurance Rate Map (FIRM) (Aurora, Arapahoe County, 08005C015K, Revised December 17, 2010; City and County of Denver, 0800460207G, November 17, 2005). Based on the available FIRMs, the project area is located within the floodplain (Zone AE) and floodway for Westerly Creek.

During the site visit in March, riparian-type vegetation (i.e., willows) was identified along Westerly Creek downstream of Montview Boulevard.

Step 2 Early Public Notice (Initial Public Notice).

A public notice concerning the City of Aurora Flood Mitigation Project was published in the *Denver Post* on May 25, 26, and 27, 2012. The *Denver Post* is the main newspaper for the Aurora area, which includes the Westerly Creek area. Three comments were received during the

initial public notice. Two pertained to distribution of project information and documents. The third comment was inquiring about potential project impacts on the Westerly Creek floodplain upstream of the project area. None of the comments required special consideration in the EA.

Step 3 Identify and evaluate alternatives to locating in the base floodplain and/or wetland.

Alternatives to the proposed action that were considered included upstream detention, acquisition and demolition of structures in the floodplain, and the no action alternative. Two detention dams presently exist upstream of the project area (within the former Lowry AFB). These two dams have the capacity to store flows associated with flood events up to an including the 100-year flood event. Therefore, for this alternative to be viable, a detention dam would need to be constructed between the former AFB (East 11th Avenue) and the project area. This portion of the drainage does not have sufficient undeveloped land for a detention dam. The acquisition and demolition of structures to provide the needed land for a detention dam would be unfavorable to the public and cost prohibitive. Therefore, this alternative was not retained for further evaluation.

With the acquisition and demolition alternative, properties in the project area and within the existing 100-year floodplain (48 structures) would be purchased and the structures demolished, thus removing them from the floodplain. This alternative would reduce property damages associated with future flood events, as there would be no structures within the floodplain which could be inundated by flood waters. This alternative was considered to be cost prohibitive and unfavorable to the public. Therefore, this alternative was not retained for further evaluation.

The no action alternative involves taking no actions to reduce the risk of flooding along Westerly Creek Reach 2. This alternative does not meet the purpose and need for the project; however, it was retained for evaluation in the environmental assessment as it provides baseline conditions by which other alternatives can be compared.

Based on the alternative analysis, it was concluded that the most practicable alternative to reduce potential flood risks within the proposed project area would involve activities within the floodplain and/or wetlands.

Step 4 Identify impacts of proposed action associated with occupancy or modification of the floodplain.

Impact on natural function of the floodplain

The Proposed Action would modify (widening and deepening) Westerly Creek between 17th Avenue and 23rd Avenue. Existing twin box culverts under Montview Boulevard would be replaced by a 60-foot bridge. The Proposed Action would capture and more efficiently convey stormwater flows associated with the 100-year precipitation event. The City of Aurora Flood Mitigation Project would not adversely affect the functions or values of the 100-year floodplain

as none of the proposed project features that would be constructed would deter or redirect 100-year event flows in Westerly Creek. The proposed action includes the construction of a low flow channel that would mimic the current channel. During a 100-year event, the floodplain would function as it currently does within the project area.

The re-contoured channel banks would be revegetated with trees, shrubs and grass species. This type of vegetation is similar to the existing bank vegetation and would not impede flood flows.

Impact of flood water on the proposed facilities

The proposed project features have been designed to convey flows associated with a 100-year flood event (1 percent annual risk of flooding) within the channel of Reach 2 of Westerly Creek. Therefore, flood flows up to and including the 100-year flood event would not adversely affect project features.

Impact on Wetlands

The proposed action would widen and deepen Westerly Creek between 17th Avenue and 23rd Avenue. The existing channel and associated wetlands within this segment would be excavated to modify the channel. Approximately 1 acre of wetlands would be impacted by the modification of the existing channel.

Post-project, the disturbed wetland area would be revegetated with riparian-type vegetation. Additionally, the modified channel would include 4 horizontal to 1 vertical (4:1) side slopes and a low-flow channel in the bottom that would mimic the existing channel. This low-flow channel would be designed to allow the growth of wetland vegetation. Additionally, the modified channel banks could also allow the development of wetlands. Therefore, no net loss of wetlands and WOUS is anticipated with this project.

Step 5 Design or modify the proposed action to minimize threats to life and property and preserve its natural and beneficial floodplain values to avoid, minimize or compensate for impacts to wetlands.

The City of Aurora Flood Mitigation Project would have no impact on the 100-year floodplain. Although construction of proposed project features would result in disturbances within the base floodplain, none of the features are above ground structures. Therefore, project features will not impede or redirect base flood (100-year) flows of Westerly Creek.

Post-project, the disturbed wetland area would be revegetated with riparian-type vegetation. Additionally, the modified channel would include 4 horizontal to 1 vertical (4:1) side slopes and a low-flow channel in the bottom that would mimic the existing channel. This low-flow channel would be designed to allow the growth of wetland vegetation. Additionally, the modified channel banks could also allow the development of wetlands. Therefore, the proposed action has been designed to compensate wetland impacts on-site, to the extent practicable.

Step 6 Re-evaluate the proposed action.

The proposed project will not expose any segment of the population to flood hazards because it does not alter the 100-year floodplain and does not include any above-ground structures. Additionally, the Proposed Action will not facilitate development in the floodplain to any greater degree than non-floodplain areas of the community. The project will not aggravate the current flood hazard because project features would not impede or redirect 100-year flood flows. The project will not disturb 100-year floodplain values because it will not change water levels in the floodplain and will not reduce habitat in the floodplain. Therefore, it is practicable to construct the proposed project within the floodplain and the proposed action satisfies the identified needs.

The primary purpose of the proposed action is to reduce the potential for flooding of residential properties and overtopping of a major road during flood events up to the 100-year event (1 percent annual risk of flooding). To accomplish this goal, the proposed action would widen and deepen Reach 2 of Westerly Creek which contains wetlands along its banks and bottom. The proposed action has been designed to compensate/mitigate wetland impacts on-site, to the extent practicable by constructing a low-flow channel, laying bank the channel banks, and replanting with riparian-type vegetation. Therefore, the proposed action was determined to still be the most practicable alternative to accomplish the project purpose.

Neither the No Action Alternative nor the two action alternatives that were evaluated are practicable alternatives.

Step 7 Finding and public explanation (Final Public Notice).

After reviewing the alternatives report prepared by Windsor and evaluating existing conditions within the project area, FEMA has determined that there is no practicable alternative to locating project features within the 100-year floodplain and associated wetlands of Westerly Creek. This determination will be conveyed to the public in the final public notice that will be published in local newspaper.

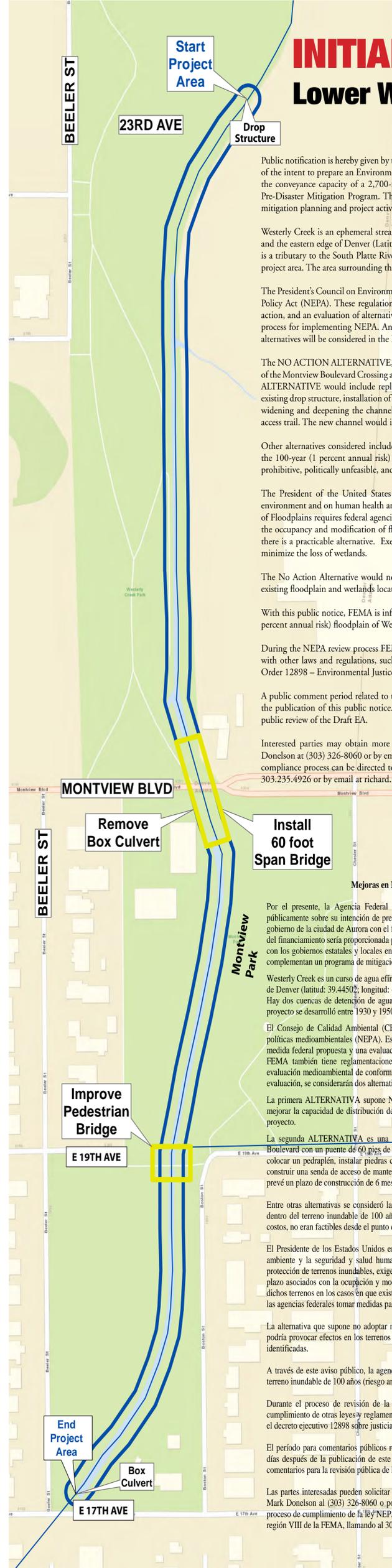
Step 8 Implement the action.

The proposed City of Aurora Flood Mitigation Project will be constructed in accordance with applicable floodplain development requirements and USACE applicable regulations. A U.S. Army Corps of Engineers 404 Individual Permit must be obtained prior to being construction associated with the project. Compliance with all stipulations stated in the USACE 404 permit is required for this project.

APPENDIX E
PUBLIC NOTICE POSTER, COMMENTS, AND RESPONSES

INITIAL PUBLIC NOTICE

Lower Westerly Creek Flood Control Improvements at Montview



Public notification is hereby given by the Department of Homeland Security's Federal Emergency Management Agency (FEMA) of the intent to prepare an Environmental Assessment (EA) for a proposed project submitted by the City of Aurora to improve the conveyance capacity of a 2,700-foot reach of Westerly Creek. A portion of the funding would be provided by FEMA's Pre-Disaster Mitigation Program. This program assists State and local governments with implementing cost-effective hazard mitigation planning and project activities that complement a comprehensive mitigation program.

Westerly Creek is an ephemeral stream and it is a drainage way that flows south to north through the western edge of Aurora and the eastern edge of Denver (Latitude - 39.44502; Longitude - -104.52474). Westerly Creek flows into Sand Creek, which is a tributary to the South Platte River. Two large stormwater detention basins are located in the drainage upstream from the project area. The area surrounding the project area was developed between 1930 and 1950 and is essentially totally developed.

The President's Council on Environmental Quality (CEQ) has developed regulations to implement the National Environmental Policy Act (NEPA). These regulations require an investigation of the potential environmental impacts of a proposed federal action, and an evaluation of alternatives as part of the EA process. FEMA also has regulations that establish the agency-specific process for implementing NEPA. An EA will be prepared in accordance with both FEMA and CEQ NEPA regulations. Two alternatives will be considered in the EA:

The NO ACTION ALTERNATIVE, which considers the consequences of taking no action to enhance the conveyance capacity of the Montview Boulevard Crossing and 2,700-foot reach of Westerly Creek within the project area. The PROPOSED ACTION ALTERNATIVE would include replacing the box culverts at Montview Boulevard with 60-foot span bridge, removal of an existing drop structure, installation of two new drop structures, placement of riprap, installing grouted boulders as channel lining, widening and deepening the channel of Westerly Creek, and construction of one 10-foot wide pedestrian/bike/maintenance access trail. The new channel would include a low-flow channel. A 6 month construction period is expected.

Other alternatives considered included upstream detention of flood flows and purchase and demolition of structures within the 100-year (1 percent annual risk) flood plain. These alternatives were dismissed because they were determined to be cost prohibitive, politically unfeasible, and/or highly improbable due to lack of undeveloped land.

The President of the United States has issued Executive Orders that require Federal Agencies to focus attention on the environment and on human health and safety when considering the funding of an action. Executive Order 11988 - Protection of Floodplains requires federal agencies to avoid to the extent possible the long and short-term adverse impacts associated with the occupancy and modification of flood plains and to avoid direct and indirect support of floodplain development wherever there is a practicable alternative. Executive Order 11990 - Protection of Wetlands requires Federal agencies to take action to minimize the loss of wetlands.

The No Action Alternative would not directly affect floodplains or wetland areas; however, it could result in impacts to the existing floodplain and wetlands located adjacent to the creek while not satisfying the identified needs.

With this public notice, FEMA is informing the public that the Proposed Action Alternative will occur within the 100-year (1 percent annual risk) floodplain of Westerly Creek and may impact wetlands along the creek.

During the NEPA review process FEMA will also evaluate potential impacts to other environmental resources and compliance with other laws and regulations, such as, the Endangered Species Act, the National Historic Preservation Act and Executive Order 12898 - Environmental Justice.

A public comment period related to the alternatives as outlined above or other possible alternatives will end 15 days following the publication of this public notice. In addition to this initial comment period, a final comment period will be opened for public review of the Draft EA.

Interested parties may obtain more detailed information about the alternatives from the City of Aurora by calling Mark Donelson at (303) 326-8060 or by email at mdnelso@auroragov.org. Additionally, comments or question regarding the NEPA compliance process can be directed to Richard Myers, FEMA Region VIII Deputy Regional Environmental Officer by calling 303.235.4926 or by email at richard.myers@dhs.gov.

Aviso Público Inicial

Mejoras en Montview para el control de inundaciones de Lower Westerly Creek

Por el presente, la Agencia Federal para el Manejo de Emergencias (FEMA) del Departamento de Seguridad Nacional notifica públicamente sobre su intención de preparar una evaluación medioambiental (EA) para un proyecto propuesto que fue presentado por el gobierno de la ciudad de Aurora con el fin de mejorar la capacidad de distribución de un tramo de 2,700 pies de Westerly Creek. Una parte del financiamiento sería proporcionada por el Programa de mitigación previa a los desastres naturales de la FEMA. Este programa colabora con los gobiernos estatales y locales en la implementación de planes accesibles de mitigación de peligros y actividades de proyectos que complementan un programa de mitigación integral.

Westerly Creek es un curso de agua efímero y una vía de drenaje que corre de sur a norte a través del borde oeste de Aurora y el borde este de Denver (latitud: 39.44502; longitud: -104.52474). Westerly Creek desemboca en Sand Creek, un arroyo tributario de South Platte River. Hay dos cuencas de detención de aguas pluviales ubicadas en el drenaje, corriente arriba del área del proyecto. El área circundante al proyecto se desarrolló entre 1930 y 1950 y está prácticamente toda desarrollada.

El Consejo de Calidad Ambiental (CEQ) del Presidente ha instrumentado reglamentaciones para implementar la ley nacional sobre políticas medioambientales (NEPA). Estas reglamentaciones exigen una investigación de los posibles impactos medioambientales de una medida federal propuesta y una evaluación de las alternativas como parte del proceso de la evaluación medioambiental (EA). La agencia FEMA también tiene reglamentaciones que establecen sus procesos específicos para implementar la ley NEPA. Se preparará una evaluación medioambiental de conformidad con las reglamentaciones de la agencia FEMA y la ley NEPA del referido Consejo. En dicha evaluación, se considerarán dos alternativas:

La primera ALTERNATIVA supone NO ADOPTAR MEDIDAS, es decir que se consideran las consecuencias de no hacer nada para mejorar la capacidad de distribución del cruce de Montview Boulevard y el tramo de 2,700 pies de Westerly Creek dentro del área del proyecto.

La segunda ALTERNATIVA es una PROPUESTA DE ACCIÓN, que incluiría reemplazar las alcantarillas de cajón en Montview Boulevard con un puente de 60 pies de longitud, eliminar la estructura existente de descenso, instalar dos nuevas estructuras de descenso, colocar un pedraplén, instalar piedras cementadas como revestimiento del canal, ensanchar y profundizar el canal de Westerly Creek, y construir una senda de acceso de mantenimiento, para bicicletas y peatones de 10 pies. El nuevo canal incluiría un canal de bajo flujo. Se prevé un plazo de construcción de 6 meses.

Entre otras alternativas se consideró la detención corriente arriba del caudal de inundaciones, y la compra y demolición de estructuras dentro del terreno inundable de 100 años (riesgo anual de 1%). Estas alternativas se desecharon porque se determinó que excedían los costos, no eran factibles desde el punto de vista político o eran demasiado improbables debido a la falta de terrenos construidos.

El Presidente de los Estados Unidos emitió decretos ejecutivos que exigen que las agencias federales centren su atención en el medio ambiente y la seguridad y salud humanas al considerar el financiamiento de un proyecto. El decreto ejecutivo 11988, referente a la protección de terrenos inundables, exige a las agencias federales evitar, en la medida de lo posible, los efectos perjudiciales a corto y largo plazo asociados con la ocupación y modificación de terrenos inundables, así como evitar el respaldo directo e indirecto del desarrollo de dichos terrenos en los casos en que exista otra alternativa viable. El decreto ejecutivo 11990, relativo a la protección de humedales, exige a las agencias federales tomar medidas para minimizar la pérdida de los humedales.

La alternativa que supone no adoptar ninguna medida no afectaría directamente los terrenos inundables o los humedales; sin embargo, podría provocar efectos en los terrenos inundables y los humedales adyacentes al arroyo, a la vez que no cumplirían con las necesidades identificadas.

A través de este aviso público, la agencia FEMA informa al público que la alternativa de la propuesta de acción se llevará a cabo en el terreno inundable de 100 años (riesgo anual del 1%) de Westerly Creek y podría afectar los humedales ubicados a lo largo del arroyo.

Durante el proceso de revisión de la ley NEPA, la FEMA evaluará además los posibles efectos a otros recursos ambientales y el cumplimiento de otras leyes y reglamentaciones, tales como la ley sobre especies amenazadas, la ley nacional de conservación histórica y el decreto ejecutivo 12898 sobre justicia medioambiental.

El período para comentarios públicos relacionados con las alternativas descritas anteriormente u otras posibles alternativas finalizará 15 días después de la publicación de este aviso público. Además de este período inicial para comentarios, se abrirá un período final para comentarios para la revisión pública de la evaluación medioambiental propuesta.

Las partes interesadas pueden solicitar información más detallada sobre las alternativas al gobierno de la ciudad de Aurora, llamando a Mark Donelson al (303) 326-8060 o por correo electrónico: mdnelso@auroragov.org. Asimismo, los comentarios o preguntas sobre el proceso de cumplimiento de la ley NEPA se pueden enviar a Richard Myers, funcionario adjunto regional en materia medioambiental de la región VIII de la FEMA, llamando al 303.235.4926 o por correo electrónico: richard.myers@dhs.gov.

Bản Báo Cáo Công Chúng Đầu Tiên

Cải Tiến Cách Kềm Chế Lụt Ở Phần Dưới Rạch Westerly Creek ở Montview

Bản báo cáo công chúng được đưa ra bởi Cơ Quan Cai Quản Tình Trạng Khẩn Cấp Liên Bang là Federal Emergency Management Agency (FEMA) của Bộ An Ninh Nội Bộ là Department of Homeland Security với dự định để chuẩn bị một chương trình Đo Lường Môi Sinh là Environmental Assessment (EA) cho một dự định để nghỉ bởi Thành Phố Aurora để cải tiến khả năng thoát nước của đường chảy dài 2,700-foot của rạch Westerly Creek. Một phần quỹ sẽ được cung cấp bởi Chương Trình Ngân Ngừa Trước Thiên Lao là Pre-Disaster Mitigation Program của FEMA. Chương Trình này phụ giúp Tiểu Bang và chính phủ địa phương bằng cách thực hiện chương trình ngân ngừa sự nguy hiểm tiết kiệm và những hoạt động của kế hoạch để phụ cấp cho chương trình ngân ngừa thiên tai.

Các rạch Westerly Creek là một suối nước tạm thời và là đường thông nước chảy từ Nam tới Bắc qua cạnh phía Tây của Aurora và cạnh phía Đông của Denver (Độ Vĩ - 39.44502; Độ Kinh - 104.52474). Rạch Westerly Creek chảy vào rạch Sand Creek, là một nhánh suối đi đến sông South Platte River. Hai bể lớn giữ nước bão được để ở vị trí phía trên đường thông nước từ khu của dự án. Vùng phụ cận quanh vùng dự án đã được phát triển từ 1930 và 1950 và hầu như đã hoàn toàn được phát triển.

Hội Đồng Về Phẩm Chất Môi Sinh là Council on Environmental Quality (CEQ) của Tổng Thống đã đặt ra quy định để thực hiện Luật Định Môi Sinh Liên Bang là National Environmental Policy Act (NEPA). Những quy định này đòi hỏi phải có một cuộc điều tra về những ảnh hưởng có thể vào môi sinh từ những hành động đã dự định của chính phủ liên bang, và kiểm duyệt những cách khác trong phần thủ tục của EA. FEMA cũng có những quy định để tạo nên những thủ tục đặc biệt của cơ quan để thực hiện NEPA. Một EA sẽ được dự bị theo quy định của cả FEMA và CEQ NEPA. Hai sự lựa chọn sẽ được xem xét trong EA là:

SỰ LỰA CHỌN KHÔNG LÀM GÌ HẾT, xem xét hậu quả khi không làm gì để giúp khả năng thoát nước của lối đi Montview Boulevard Crossing và đường chảy dài 2,700-foot của rạch Westerly Creek trong khu của dự án.

SỰ LỰA CHỌN LÀM THEO ĐỀ NGHỊ gồm có bỏ hộp thông nước ở đường Montview Boulevard với cái cầu dài 60-foot, lấy đi đường nước xuống đang có, xây hai đường nước xuống mới, xấp vào đá để chặn nước, gắn đá lớn với đất vừa lỏng để lót thành của đường nước, làm rộng ra và sâu thêm đường nước của rạch Westerly Creek, và xây một con đường thông qua rộng 10-foot cho đi bộ/xe đạp/duy trì. Đường nước mới sẽ có cả đường rạch cho nước thấp. Thời gian dự định xây là 6 tháng.

Những sự lựa chọn khác đã được xem xét gồm có giữ nước lụt chảy phía trên nguồn, mua và đập bất động sản trong vùng của đồng bằng lụt 100-năm (1 phần trăm rủi ro mỗi năm). Những sự lựa chọn này đã bị bác bỏ vì họ xác định là tốn kém, không thực hành được vì chính trị, và/hoặc rất khó thành vì ít đất trống.

Tổng Thống của Hoa Kỳ đã ra Lệnh Hành Chính đòi hỏi Hội Đồng Liên Bang phải để ý tới môi sinh và tới sức khỏe và an toàn của người dân khi xem duyệt quỹ trợ cho việc làm. Lệnh Hành Chính 11988 - Bảo Vệ Đồng Bằng Lụt đòi hỏi những cơ quan liên bang phải tránh hết mức có thể được những ảnh hưởng không tốt trong thời hạn ngắn và dài liên quan đến sự chiếm đóng và thay đổi của đồng bằng lụt và để tránh trực tiếp và gián tiếp tiếp xúc phát triển trong đồng bằng lụt khi mà có sự lựa chọn nào khác. Lệnh Hành Chính 11990 - Bảo Vệ Vùng Đất Ướt đòi hỏi những cơ quan liên bang phải có những hành động để giảm đến mức tối thiểu sự mất vùng đất ướt.

Sự Lựa Chọn Không Làm Gì Hết sẽ không ảnh hưởng trực tiếp đến những đồng bằng lụt và vùng đất ướt; nhưng mà, nó có thể có kết quả và chạm đến đồng bằng lụt đang có và những đất ướt ở cạnh rạch mà không đáp ứng được những cần thiết đã chỉ định.

Với bản báo cáo công chúng này, FEMA thông tin cho công chúng là Sự Lựa Chọn Làm Theo Đề Nghị sẽ xảy ra trong đồng bằng lụt 100-năm (1 phần trăm rủi ro mỗi năm) của rạch Westerly Creek và có thể va chạm đến đất ướt bên cạnh rạch.

Trong khi duyệt lại thủ tục NEPA FEMA cũng sẽ kiểm duyệt khả năng và chạm đến những nguồn môi sinh khác và tuân theo những luật và quy định khác, như là, Luật Bảo Vệ Những Sinh Vật Duyệt Chúng là Endangered Species Act, Luật Bảo Tồn Lịch Sử Quốc Gia là National Historic Preservation Act, và Lệnh Hành Chính 12898 - Công Bằng Môi Sinh là Environmental Justice.

Một khoảng thời gian cho công chúng bình luận về những sự lựa chọn kế khai trên hoặc những sự lựa chọn khác sẽ hết 15 ngày sau khi bản báo cáo công chúng này được đưa ra. Thêm vào thời gian cho công chúng bình luận, một khoảng thời gian bình luận cuối cùng sẽ được mở ra cho công chúng duyệt lại Bản Sao EA.

Quý vị nào quan tâm đến có thể lấy chi tiết tài liệu về những sự lựa chọn từ Thành Phố Aurora bằng gọi Mark Donelson ở (303) 326-8060 hoặc bằng email ở mdnelso@auroragov.org. Thêm nữa, lời bình luận hoặc câu hỏi về thủ tục NEPA tuân theo quy định có thể đưa đến Richard Myers, FEMA Vùng VIII Phó Nhân Viên Môi Sinh Vùng bằng gọi 303.235.4926 hoặc bằng email ở richard.myers@dhs.gov.

पारंपरिक सार्वजनिक सूचना

लोवेर वेस्टर्ल क्रीकको मॉडिफिकेशन बाढ को नियन्त्रण गर्ने सूचना

स्वदेश सुरक्षया को विभाग को संधिय आकस्मिक घटना प्रवर्धन गर्ने एजेन्सी (फेमा) ले यो घोषणा गरेको छ कि वेस्टर्ल क्रीकको २,७००फीट परिवहन सामर्थ्य सुधारण गर्ने को लागि सिटी ऑफ ओरोरा द्वारा प्रस्तावित परियोजना को वातावरणीय मुल्यांकन (ईए) गरिनेछ। पुंजी को कोड भाग चाही फेमा को पुर्ण विपत्ति शमन गर्ने प्रोग्राम बाट आउने छ। यो प्रोग्राम ले राज्य अनि स्थानीय सरकार हरू लाई लागत प्रभावी जोखिम न्यूनीकरण योजना अनि परियोजना गतिविधि लागु गर्न सहायता गर्छ र यी गतिविधिहरु ले विस्तृत न्यूनीकरण कार्यक्रमलाई सम्पूर्णता दिने छन्।

वेस्टर्ल क्रीक एक अल्पकालिक धारा हो जुन ओरोरा को पश्चिमी किनार देखि डेनवर को उत्तरी किनार सम्म बहने एउटा जल निकासी गर्ने बाटो पनि हो (अक्षांश (LATI TUDE) - ३९.४४५०२; देशांतर (LONG TUDE) - १०४.५२४७४)। वेस्टर्ल क्रीक चाही स्थायक क्रीक मा बहन्छ। स्थायक क्रीक चाही साउथ प्लाते रिवर को उप-नहर हो। २ ठुलो आंधी ले बगाएको पानि कब्जा गर्ने जगह परियोजना छेत्र को धारा प्रतिकुल मा स्थापित छ। परियोजना को शेर् क्षेत्र को वरपर को इलाका चाही १९३० अनि १९५० को बिचमा विकसित गरिएको थियो र यो ईलाका चाही पूर्ण रूपमा विकसित छ। पर्यावरण गुणता तय गर्ने रास्ट्रपति परिषद(सीइक्यू) ले राष्ट्रिय पर्यावरण नीति अधिनियम (नेपा) परिपालन गर्न को लागि नियम हरू बनाएको छ। यी नियम अनुसार प्रस्तावित संधीय कारवाई ले वातावरण मा पर्ने असर को जांच र EA को प्रक्रिया अनुसार कुनै विकल्प को पनि परिारण गर्न जरुरि हुन्छ। FEMA को पनि आफ्नो संस्था का नियम अनुसार NEPA लागु गर्न प्रक्रिया हरू छन्। फेमा अनि सीइक्यू नेपा को नियम अनुसार एउटा ईए तयार गरिनेछ।

यस EA मा दुइटा विकल्प मा विचार गरिनेछः पहिलो विकल्प चाही नो एक्शन अल्टरनेटिव हो जसले मॉडिफिकेशन बाढलाई क्रोसिंगको परिवहन सामर्थ्य र २,७०० फीट वेस्टर्ल क्रीक को परियोजना क्षेत्र भित्र को पहुँच बढाउन कुनै पनि कारवाही नगरेको परिणाम मा मनन गर्छ। दोस्रो विकल्प चाही प्रोपोज्ड एक्शन अल्टरनेटिव हो जसले चाही यो प्रस्ताव गरेको छ कि - मॉडिफिकेशन बाढलाई मा भएको पुलिया (Box Culvert) लाई ६० फीट सिमा को पुलले प्रतिस्थापित गर्ने, हालको बाध हटाउने, दुइ नया बाध बनाउने, गिट्टी (rip rap) राखे, सिमेन्ट ले जोडे को गिट्टी नहर को सिमा मा राखे, वेस्टर्ल क्रीक लाई चौडा अनि गहिरो बनाउने र पैदल हिंड्ने अनि बाइक चलाउने मानिस को लागि बाटो 10 ft चौडा बनाउने। नया नहर मा कम प्रवाह भएको नहर सामेल हुनेछ। नहर को निर्माण अवधि छ महिना तोकिएको छ। नहर को माथि नै बाढ प्रवाह निरोध गर्ने र १०० वर्ष (१ प्रतिशत बर्सिक जोखिम) भएका बाढ जमिन भित्र पर्ने संरचनाहरूलाई किन्ने वा विध्वंस गर्ने पनि एउटा विकल्प थियो। तर यो योजना खारिज गरियो र एसको कारण थियो लागत निशेषात्मकता, राजनीतिक असम्भविता र / वा अविकसित जमिन को कर्म।

कुनै अनुयोजनाको लागि पुंजी अपनाउना परे भने संधिय आयोग हरू ले वातावरण अनि मानव को स्वास्थ्य अनि सुरक्षा को ध्यान गर्नु पर्छ भनि अमेरिका को अध्यक्ष ले कार्यकरिपि आदेश घोषणा गरेको छन्। कार्यकारी आदेश ११९८८ - बाढ को जमिन को रक्षा को घोषणा ले अप्रसम्म बाढ को जमिन अधिभोग र संसोधन गर्नाले हुने लामो र छोटो अवधि को प्रतिकुल प्रभाव हटाउन र जहाँ व्यवहार्य विकल्प छ त्यहाँ बाढ जमिन को प्रतक्ष्य र अप्रतक्ष्य विकाश लाई सहारा नदिन संधिय आयोग हरूको आवश्यकता बनाउछ। कार्यकारी आदेश ११९९० प्रोतेक्शन ऑफ वेल्थ्यान्ड्स ले संधिय आयोगहरूलाई झीलहरूलाई हुने नुकसान कम गर्ने गरि कारवाही गर्न लगाउछ।

नो एक्शन अल्टरनेटिव ले बाढ को जमिन अनि पानि / नदि बगेको जमिन लाई सिधै असर हुने छैन। तर यो जमिन हरू नहर को छेउ मा छ भने असर होला।

यो सार्वजनिक सूचना द्वारा फेमा ले जनतालाई जानकारी दिदै छ कि प्रोपोज्ड एक्शन अल्टरनेटिव को वेस्टर्ल क्रीक १०० वर्ष (१ प्रतिशत वार्षिक जोखिम) बाढ जमिन भएको ईलाका भित्र पर्नेछ र त्यस ईलाका मा भएको झील हरूलाई पनि यो योजना ले असर गर्न सक्छ।

नेपा को सन्मिक्ष्या प्रक्रिया पर्यन्त फेमा ले पनि अरु पर्यावरण संसाधन मा हुने सम्भावित प्रभाव अनि - लुसप्राय प्रजातियाँ अधिनियम, राष्टिय ऐतिहासिक परिरक्षण अधिनियम कार्यकारी आदेश १२८९८ - पर्यावरणीय न्याय जस्ता अरु कानुन र विनियम हरू को अनुपालन भएको छ कि छैन भनेर मुल्यांकन गर्नेछ।

यो सार्वजनिक सूचना प्रकाशन गरेको १५ दिन पछि सार्वजनिक टिप्पणी गर्ने अवधि अन्त्य हुनेछ। यस पारंपरिक टिप्पणी अवधि अलावा EA को प्रारूप को सार्वजनिक समीक्षा को लागि एउटा अन्तिम टिप्पणी अवधि पनि खुल्नेछ।

कोई सार्वजनिक लाई चासो छ भने सिटी ऑफ ओरोरा को मार्क दोनेल्सन लाई यो नम्बर मा फोन गरेहुन्छ ३०३-३२६-८०६० या mdnelso@auroragov.org मा ई-मेल गरे हुन्छ। अरु NEPA को सहमति को विषय मा आलोचना या प्रश्न छ भने रिचार्ड मेयर्स, फेमा छेत्र आठ को क्षेत्रीय पर्यावरण उप अधिकारी लाई फोन ३०३-२३५-४९२६ () या ई-मेल (richard.meyers@dhs.gov) गर्न पर्छ।

CONTACT DETAIL				CONTACT INFORMATION								CONTACT RESULTS	
COMMENT ID	Date	Time	Contact mode	Name	Address	City	State	Zip Code	Phone	E-mail	Affiliation	COMMENTS & RESPONSES (IN RED)	Add to Mailing List?
20120524_MD_1P Public Comment Tracking Form.xml	5/21/2012	16:47	E-mail	Chad Argentar	COA				3037397052	cargenta@auroragov.org	COA staff Westerly Creek Village	Requested if information could be posted on the Westerly Creek Village webpage. I approved.	No
20120524_MD_2P Public Comment Tracking Form.xml	5/22/2012	7:42	E-mail	Jeremy Hamer	201 W. Colfax Ave.	Denver	Co	80202	7209130720	jeremy.hamer@denvergov.org	City and County of Denver	Just wondering what the floodplain benefits are for this project. Specifically upstream of 17th. We have a number of properties in the floodplain (as do you) between 14th & 17th, but I wasn't sure if your project will have any impact on Denver since it appears that all your work is D/S of 17th. This particular project has direct floodplain mitigation for the folks D/S of 17th. U/S from 17th. to 14th, as you know, has some significant challenges before any project can be completed. The main thing is, D/S of Montview, there will be quite a bit of work to transition the new channel depth into the existing channel, which will have impact on some of the Denver side of the channel. We have also included quite a few key stakeholders in the Stapleton area.	No
20120529_MD_3P Public Comment Tracking Form.xml	5/29/2012	12:14	E-mail and phone	Jeremy Hamer	201 W. Colfax Ave.	Denver	Co		7209130720	jeremy.hamer@denvergov.org	City and County of Denver	Mark, Bryan Fry (bryan.fry@denvergov.org, 720-913-8834) will be your primary contact for getting documents submitted through the City's PCO process for review. He will then distribute them to the appropriate folks in the City and return compiled comments to you at the end of the review period. Please add him to your stakeholder list. We have taken the liberty of starting our review process with the EA notification info. Please add me to your stakeholder list as well.	Yes

	form1[0].RadioButtonList [0]	form1[0].Name [0]	form1[0].Address [0]	form1[0].City [0]	form1[0].State [0]	form1[0].Zip Code [0]	form1[0].PhoneNum [0]	form1[0].Phone Num [1]	form1[0].PhoneNum [2]	form1[0].Text Field1 [0]	form1[0].Date [0]	form1[0].TextField 2 [0]	form1[0].RadioButtonList [1]	form1[0].RadioButtonList [2]	form1[0].Question1 [0]	form1[0].Question 2 [0]
Comment ID	Yes (Mailing List)	Name	Address	City	State	Zip Code	Phone	Phone	Phone	Home E-mail	Date	Time	PM	AM	Floodplain (NEPA)	Bike/Trail (Design)
20120524_MD_1Public Comment Tracking Form.xml		Chad Argentar	COA					3037397052			5/21/2012	4:47	2			
20120524_MD_2Public Comment Tracking Form.xml		Jeremy Hamer	201 W. Colfax Ave.	Denver	Co	80202		7209130720			5/22/2012	7:42	2	1		
20120529_MD_3Public Comment Tracking Form.xml	1	Jeremy Hamer	201 W. Colfax Ave.	Denver	Co			7209130720			5/29/2012	12:14	2			

	form1[0].Question3 [0]	form1[0].Question4 [0]	form1[0].Question5 [0]	form1[0].Question6 [0]	form1[0].Question7 [0]	form1[0].Question8 [0]	form1[0].TextField1 [1]	form1[0].RadioButtonList [3]	form1[0].RadioButtonList [4]	form1[0].RadioButtonList [5]	form1[0].RadioButtonList [6]	form1[0].TextField3 [0]	form1[0].TextField4 [0]
Comment ID	Water Quality (NEPA)	Bridge (Design)	ESA (NEPA)	Vegetation (Design)	Land/Property (NEPA)	Park (Design)	Work E-mail	NO (Mailing List)	Telephone (contact mode)	Other (contact mode)	E-mail (contact mode)	Contact mode	Affiliation
20120524_MD_1P Public Comment Tracking Form.xml							cargenta@auroragov.org	1			2		COA staff Westerly Creek Village
20120524_MD_2P Public Comment Tracking Form.xml							jeremy.hamer@denvergov.org	1			2		City and County of Denver
20120529_MD_3P Public Comment Tracking Form.xml							jeremy.hamer@denvergov.org		1		2		City and County of Denver

	form1 [0].Question7[1]	form1 [0].Question7[2]
Comment ID	Other (NEPA)	Other (Design)
20120524_MD_1P Public Comment Tracking Form.xml	Requested if information could be posted on the Westerly Creek Village webpage. I approved.	
20120524_MD_2P Public Comment Tracking Form.xml	<p>Just wondering what the floodplain benefits are for this project. Specifically upstream of 17th. We have a number of properties in the floodplain (as do you) between 14th & 17th, but I wasn't sure if your project will have any impact on Denver since it appears that all your work is D/S of 17th.</p> <p>□ This particular project has direct floodplain mitigation for the folks D/S of 17th. U/S from 17th. to 14th, as you know, has some significant challenges before any project can be completed. The main thing is, D/S of Montview, there will be quite of bit of work to transition the new channel depth into the existing channel, which will have impact on some of the Denver side of the channel. We have also included quite a few key stakeholders in the Stapleton area.</p>	
20120529_MD_3P Public Comment Tracking Form.xml		<p>Mark, □ Bryan Fry (bryan.fry@denvergov.org, 720-913-8834) will be your primary contact for getting documents submitted through the City's PCO process for review. He will then distribute them to the appropriate folks in the City and return compiled comments to you at the end of the review period. Please add him to your stakeholder list. We have taken the liberty of starting our review process with the EA notification info. □ □ Please add me to your stakeholder list as well. □</p>