APPENDIX B

Agency Correspondence

From:	Derinzy, John W SPK
To:	Lee, Susan
Cc:	Gipson, Jason A SPK
Subject:	Logan Northern Canal Project
Date:	Monday, September 13, 2010 4:38:41 PM
Importance:	High

Dear Susan,

Please find below the Corps' comments in response to the public agency scoping meeting pertaining to the Logan-Northern Canal Project.

The Corps would like to be a cooperating agency with the NRCS throughout the process. This will insure that any CWA Section 404 permit that may be required will be facilitated through the process more effectively. For the purpose of the Clean Water Act Section 404 Program, applicants will need to keep in mind that avoidance and minimization of impacts to Waters of the U.S. (WOUS) must occur to the most practicable extant possible and that WOUS include jurisdictional waters such as the Logan River, its tributaries, certain irrigation canals and ditches, and special aquatic sites such as wetlands, playas, springs, seeps, etc. Please keep this in mind during the early stages of project development.

Please feel free to contact me if you need further information or have questions about the Corps' Regulatory Program.

Thank you,

John Derinzy
Regulatory Project Manager
Nevada-Utah Branch
U.S. Army Corps of Engineers, Sacramento District
533 West 2600 South, Suite 150
Bountiful, Utah 84010-7744

office: (801) 295-8380 ext. 13
fax: (801) 295-8842
john.w.derinzy@usace.army.mil

"When one tugs at a single thing in nature, he finds it hitched to the rest of the universe." John Muir

Let us know how we're doing.
http://per2.nwp.usace.army.mil/survey.html

Information on the Regulatory Program.
http://www.spk.usace.army.mil/organizations/cespk-co/regulatory/index.html

RECEIVED AUG 24 2010

SYLVIA
Bronson
Elise
Norm

Uinta-Wasatch-Cache National Forest

USDA **United States Department of Agriculture** | **Forest Service** | **88 West 100 North, Provo, UT 84601, 801-342-5100** | **125 South State Street, Federal Building, Room 8236, Salt Lake City, UT 84138, 801-236-3400**

File Code: 1950-4
Date: August 20, 2010

Sylvia Gillen
State Conservationist
4402 Federal Building
125 South State St.
Salt Lake City, UT 84138

Dear Ms Gillen,

I have received your letter of July 16 inviting the Forest to be a cooperating agency for the preparation of an Environmental Impact Statement for the proposed reconstruction of the North Logan Canal in Logan, Utah. I accept your request and appreciate the opportunity to participate. I agree that being a cooperating agency will create a more efficient, thorough environmental analysis. Jennefer Parker, Logan District Ranger, will be the USFS representative for this project.

For us to adopt the EIS to make the decision on the portion of the canal on National Forest certain unique disclosures are needed in the EIS. Forest Service required disclosures include project effects to Intermountain Region sensitive species, project effects to Management Indicator Species and their population trend and consistency with relevant Forest Plan standards and guidelines. We would appreciate the opportunity to review and comment on several items, including: 1) inventories, assessments, and reports concerning National Forest system lands, 2) the alternatives to be considered in detail, and 3) the draft and final EIS. We will rely on NRCS to be responsible for consultation with the Utah State Historic Preservation Office and US Fish and Wildlife Service on our behalf.

Please feel free to meet with us to discuss any elements that pertain to National Forest system lands.

Sincerely,

Acting BRIAN FEREBEE
Forest Supervisor

cc: Jennefer L Parker

United States Department of Agriculture

NRCS

Natural Resources Conservation Service
125 South State Street, Room 4402
Salt Lake City, UT 84138-1100
(801) 524-4550
FAX (801) 524-4403

CERTIFIED MAIL – RETURN RECEIPT 7005 1160 0002 4409 7127

March 22, 2010

Ms. Lori Hunsaker
Deputy State Historic Preservation Officer - Archaeology
Utah Division of State History
300 Rio Grande Avenue
Salt Lake City, Utah 84101-1182

Reference: Initiation of Section 106 Consultation on the Logan Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Ms. Hunsaker:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County, Utah, to plan and implement an Emergency Watershed Protection (EWP) Project for the Logan Canal. As you are aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in the breach of the Logan Canal. Cache County and the Logan Canal Company have requested assistance from the NRCS to design and implement an EWP project that restores water to the Logan Canal while protecting the surrounding residents, property, and watershed.

As shown on the accompanying maps, four alternatives are currently being considered for restoring water to the Logan Canal. These alternatives are located in Sections 11-14, 23-27 and 34-36 of Township 12 North, Range 1 East and in Section 31 of Township 12 North, Range 2 East. The alternatives can be seen on the Logan, Utah and Smithfield, Utah USGS 7.5 minute series topographic quadrangles. The four alternatives will involve restoration, repair, abandonment, and modification to the Logan Canal, and three of the alternatives will involve modification of the Smithfield Canal.

The NRCS Cultural Resource Specialist conducted a records search with the Utah State Historic Preservation Office on March 2, 2010. Supplemental electronic file searches of General Land Office (GLO) plat maps and the National Register of Historic Places (NRHP) online database were also conducted. Neither of the canals has been formally documented; however, a cursory review of historical data pertaining to the canals indicates that both date to the early history of the Cache Valley. It is therefore likely that both canals are historic properties that are minimally eligible to the National Register of Historic Places under Criterion A. It is equally likely that any of the selected alternatives will result in adverse effects to one or both historic properties and will require resolution.

NRCS is currently in the process of examining these alternatives in greater detail and will be formally recording the Canals as part of the alternatives development. The Logan Canal EWP project remains in the planning process and the NRCS will continue to follow its Section 106 consultation process as outlined in the current Utah NRCS/SHPO Memorandum of Understanding (MOU) when further actions are determined.

We invite your participation for this proposed project and look forward to receiving feedback. If there are any questions, comments, or concerns, please contact Andrew M. Williamson, Cultural Resources Specialist, at 801-524-4556 at your earliest possible convenience.

Sincerely,

Sylvia A. Gillen
SYLVIA A. GILLEN
State Conservationist

Enclosure: Maps of proposed project

cc:
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Kerry Goodrich, Assistant State Conservationist-Field Operations, NRCS, Ogden, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah

State of Utah

GARY R. HERBERT
Governor

GREG BELL
Lieutenant Governor

Department of Community and Culture

PALMER DePAULIS
Executive Director

State History

PHILIP F. NOTARIANNI
Division Director

APR 13 2010

April 1, 2010

Sylvia A. Gillen
State Conservationist
Natural Resources Conservation Service
125 South State Street, Room 4402
Salt Lake City UT 84138-1100

RE: Logan Canal Emergency Watershed Protection Project, Cache County, Utah

In Reply Please Refer to Case No. 10-0392

Dear Mr. Gillen:

The Utah State Historic Preservation Office received your request for our comment on the above-referenced project on March 30, 2010.

After consideration of the consultation material provided by NRCS, USHPO concurs with the determination that there is potential for Adverse Effect. Our office understands that there is not a formal determination at this time, review of the project is still ongoing.

This letter serves as our comment on the determinations you have made, within the consultation process specified in §36CFR800.4. If you have questions, please contact me at 801-533-3555 or Lhunsaker@utah.gov or contact Jim Dykmann at 801-533-3523 or Jdykman@utah.gov

Sincerely,

Lori Hunsaker
Deputy State Historic Preservation Officer - Archaeology

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United States Department of Agriculture

NRCS

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Salt Lake City, UT 84138-1100
(801) 524-4550
FAX (801) 524-4403

CERTIFIED MAIL – RETURN RECEIPT 7005 1160 0002 4409 7110

March 22, 2010

Mr. Tom Flanigan
Archaeologist
Uinta-Wasatch-Cache National Forest
Wallace F. Bennett Federal Building
125 South State Street
Salt Lake City, Utah 84138-1100

Reference: Initiation of Section 106 Consultation on the Logan Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mr. Flanigan:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County, Utah, to plan and implement an Emergency Watershed Protection (EWP) Project for the Logan Canal. As you are aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in the breach of the Logan Canal. Cache County and the Logan Canal Company have requested assistance from the NRCS to design and implement an EWP project that restores water to the Logan Canal while protecting the surrounding residents, property, and watershed.

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The NRCS Cultural Resource Specialist conducted a records search with the Utah State Historic Preservation Office on March 2, 2010. Supplemental electronic file searches of General Land Office (GLO) plat maps and the National Register of Historic Places (NRHP) online database were also conducted. Neither of the canals has been formally documented; however, a cursory review of historical data pertaining to the canals indicates that both date to the early history of the Cache Valley. It is therefore likely that both canals are historic properties that are minimally eligible to the National Register of Historic Places under Criterion A. It is equally likely that any of the selected alternatives will result in adverse effects to one or both historic properties and will require resolution.

NRCS is currently in the process of examining these alternatives in greater detail and will be formally recording the canals as part of the alternatives development. The Logan Canal EWP project remains in the planning process and the NRCS will continue to follow its Section 106 consultation process when further actions are determined.

We invite your participation for this proposed project and look forward to receiving feedback. If there are any questions, comments, or concerns, please contact Andrew M. Williamson, Cultural Resources Specialist, at 801-524-4556 at your earliest possible convenience.

Sincerely,

Sylvia A. Gillen
SYLVIA A. GILLEN
State Conservationist

Enclosure: Maps of proposed project

cc:
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Kerry Goodrich, Assistant State Conservationist-Field Operations, NRCS, Ogden, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah

United States Department of Agriculture

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CERTIFIED MAIL – RETURN RECEIPT 7005 1160 0002 4409 7202

April 20, 2010

Mr. Robert Fotheringham
Water Department Manager
Cache County
179 North Main Street
Logan, Utah 84321

Reference: Initiation of Section 106 Consultation for the Logan Northern Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mr. Fotheringham:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you are aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in a breach of the Logan Northern Canal.

The NRCS is currently in the process of identifying potential alternatives for restoring water to the Logan Northern Canal. These alternatives could potentially involve restoration, repair, abandonment, or modification of the Logan Northern Canal. The alternatives may also involve modification of the Logan, Smithfield, and Hyde Park Canal. As shown on the enclosed map, these canals are on lands administered by the U.S. Forest Service and on private lands in Sections 11-14, 23-27 and 34-36 of Township 12 North, Range 1 East and in Section 31 of Township 12 North, Range 2 East. They can be seen on the Logan, Utah and Smithfield, Utah USGS 7.5 minute series topographic quadrangles.

The NRCS Cultural Resource Specialist conducted a records search with the Utah State Historic Preservation Office (SHPO) on March 2, 2010, in an effort to identify archaeological resources and historic properties that may be affected by the various alternatives for development. Supplemental reviews of General Land Office (GLO) plat maps and the National Register of Historic Places (NRHP) were also conducted. These reviews indicated that neither canal has been formally documented as a historical or archaeological resource; however, a cursory review of historical data pertaining to the canals indicates that both date to the early history of the Cache Valley. It is therefore likely that both canals are historic properties that are eligible for the NRHP. It is equally likely that any of the selected alternatives will result in adverse effects to one or all canals that will require resolution.

The Logan Northern Canal EWP project remains in the planning process and the NRCS will continue to follow its Section 106 consultation process when further actions are determined. We invite your participation in this project and look forward to working with you to identify alternatives that will accomplish the goal of restoring water to the Logan Northern Canal in a safe, efficient, and cost-effective manner. If there are any questions, comments, or concerns, please contact Andrew M. Williamson, Cultural Resources Specialist, at 801-524-4556 at your earliest possible convenience.

Sincerely,

Mron Davidson, acting
SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

cc:
Elise Boeke, State Resource Conservationist, NRCS, Salt Lake City, Utah
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
Kerry Goodrich, Assistant State Conservationist-Field Operations, NRCS, Ogden, Utah
Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Andrew Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah

United States Department of Agriculture

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CERTIFIED MAIL – RETURN RECEIPT 7005 1160 0002 4409 7240

April 20, 2010

Honorable Lloyd Berentzen
Mayor
City of North Logan
2227 North 1400 East
North Logan, Utah 84341

Reference: Initiation of Section 106 Consultation for the Logan Northern Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mayor Berentzen:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you are aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in a breach of the Logan Northern Canal.

The NRCS is currently in the process of identifying potential alternatives for restoring water to the Logan Northern Canal. These alternatives could potentially involve restoration, repair, abandonment, or modification of the Logan Northern Canal. The alternatives may also involve modification of the Logan, Smithfield, and Hyde Park Canal. As shown on the enclosed map, these canals are on lands administered by the U.S. Forest Service and on private lands in Sections 11-14, 23-27 and 34-36 of Township 12 North, Range 1 East and in Section 31 of Township 12 North, Range 2 East. They can be seen on the Logan, Utah and Smithfield, Utah USGS 7.5 minute series topographic quadrangles.

The NRCS Cultural Resource Specialist conducted a records search with the Utah State Historic Preservation Office (SHPO) on March 2, 2010, in an effort to identify archaeological resources and historic properties that may be affected by the various alternatives for development. Supplemental reviews of General Land Office (GLO) plat maps and the National Register of Historic Places (NRHP) were also conducted. These reviews indicated that neither canal has been formally documented as a historical or archaeological resource; however, a cursory review of historical data pertaining to the canals indicates that both date to the early history of the Cache Valley. It is therefore likely that both canals are historic properties that are eligible for the NRHP. It is equally likely that any of the selected alternatives will result in adverse effects to one or all canals that will require resolution.

The Logan Northern Canal EWP project remains in the planning process and the NRCS will continue to follow its Section 106 consultation process when further actions are determined. We invite your participation in this project and look forward to working with you to identify alternatives that will accomplish the goal of restoring water to the Logan Northern Canal in a safe, efficient, and cost-effective manner. If there are any questions, comments, or concerns, please contact Andrew M. Williamson, Cultural Resources Specialist, at 801-524-4556 at your earliest possible convenience.

Sincerely,

M Ron Dawdson, acting
SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

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Elise Boeke, State Resource Conservationist, NRCS, Salt Lake City, Utah
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
Kerry Goodrich, Assistant State Conservationist-Field Operations, NRCS, Ogden, Utah
Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Andrew Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah

United States Department of Agriculture

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CERTIFIED MAIL – RETURN RECEIPT 7005 1160 0002 4409 7226

April 20, 2010

Mr. Keith Meikle
President
Logan, Hyde Park, and Smithfield Canal Company
1285 East 4500 North
Hyde Park, Utah 84335

Reference: Initiation of Section 106 Consultation for the Logan Northern Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mr. Meikle:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you are aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in a breach of the Logan Northern Canal.

The NRCS is currently in the process of identifying potential alternatives for restoring water to the Logan Northern Canal. These alternatives could potentially involve restoration, repair, abandonment, or modification of the Logan Northern Canal. The alternatives may also involve modification of the Logan, Smithfield, and Hyde Park Canal. As shown on the enclosed map, these canals are on lands administered by the U.S. Forest Service and on private lands in Sections 11-14, 23-27 and 34-36 of Township 12 North, Range 1 East and in Section 31 of Township 12 North, Range 2 East. They can be seen on the Logan, Utah and Smithfield, Utah USGS 7.5 minute series topographic quadrangles.

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M Ron Davidson, acting
SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

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Andrew Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah

United States Department of Agriculture

NRCS

Natural Resources Conservation Service
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Salt Lake City, UT 84138-1100
(801) 524-4550
FAX (801) 524-4403

CERTIFIED MAIL – RETURN RECEIPT 7005 1160 0002 4409 7233

April 20, 2010

Honorable Randy Watts
Mayor of Logan City
Cache County
290 North 100 West
Logan, Utah 84321

Reference: Initiation of Section 106 Consultation for the Logan Northern Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mayor Watts:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you are aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in a breach of the Logan Northern Canal.

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Sincerely,

Ron Davidson, acting
SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

cc:
Elise Boeke, State Resource Conservationist, NRCS, Salt Lake City, Utah
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
Kerry Goodrich, Assistant State Conservationist-Field Operations, NRCS, Ogden, Utah
Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Andrew Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah

United States Department of Agriculture

NRCS

Natural Resources Conservation Service
125 South State Street, Room 4402
Salt Lake City, UT 84138-1100
(801) 524-4550
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CERTIFIED MAIL – RETURN RECEIPT 7005 1160 0002 4409 7219

April 20, 2010

Mr. Jon Meikle
Logan Northern Canal Company
1000 East 4650 North
Smithfield, Utah 84335

Reference: Initiation of Section 106 Consultation for the Logan Northern Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mr. Meikle:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you are aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in a breach of the Logan Northern Canal.

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Sincerely,

Mron Dawdson, acting

SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

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Elise Boeke, State Resource Conservationist, NRCS, Salt Lake City, Utah
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
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Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Andrew Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah

United States Department of Agriculture

NRCS
Natural Resources Conservation Service
125 South State Street, Room 4402
Salt Lake City, UT 84138-1100
(801) 524-4550
FAX (801) 524-4403

CERTIFIED MAIL – RETURN RECEIPT 7005 1160 0002 4409 7462

July 21, 2010

Mr. Curtis Cesspooch
Chairman
Ute Indian Tribe of the Uintah & Ouray Reservation
P.O. Box 190
Fort Duchesne, Utah 84026

Reference: Initiation of Section 106 Consultation on the Logan Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mr. Cesspooch:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you may be aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in the breach of the Logan Northern Canal.

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Sincerely,

M. Coverdale, Acting STC

SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

cc:
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
Elise Boeke, State Resource Conservationist, NRCS, Salt Lake City, Utah
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Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah
Andrew M. Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah

United States Department of Agriculture

NRCS

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CERTIFIED MAIL – RETURN RECEIPT 7005 1160 0002 4409 7455

July 21, 2010

Mr. Ivan Posey
Shoshone Tribe of the Wind River Reservation
P.O. Box 538
Fort Washakie, Wyoming 82514

Reference: Initiation of Section 106 Consultation on the Logan Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mr. Posey:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you may be aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in the breach of the Logan Northern Canal.

The NRCS is currently in the process of identifying potential alternatives for restoring water to the Logan Northern Canal. These alternatives could potentially involve restoration, repair, abandonment, or modification of the Logan Northern Canal. The alternatives may also involve modification of the Logan, Smithfield, and Hyde Park Canal. As shown on the enclosed map, these canals are on lands administered by the U.S. Forest Service and on private lands in Sections 11-14, 23-27 and 34-36 of Township 12 North, Range 1 East and in Section 31 of Township 12 North, Range 2 East. They can be seen on the Logan, Utah, and Smithfield, Utah, USGS 7.5 minute series topographic quadrangles.

The NRCS Cultural Resource Specialist conducted a records search with the Utah State Historic Preservation Office (SHPO) on March 2, 2010, in an effort to identify archaeological resources and historic properties that may be affected by the various alternatives for development. Supplemental reviews of General Land Office (GLO) plat maps and the National Register of Historic Places (NRHP) were also conducted. These reviews indicated that neither of the canals has been formally documented as historical resources; however, a cursory review of historical data pertaining to the canals indicates that both date to the early history of the Cache Valley. It is therefore likely that both canals are historic properties that are eligible for the NRHP. It is equally likely that any of the selected alternatives will result in adverse effects to one or all canals that will require resolution.

The Logan Canal EWP project remains in the planning process and the NRCS will continue to follow its Section 106 consultation process when further actions are determined. We invite your participation in this project and look forward to working with you to identify alternatives that will accomplish the goal of restoring water to the Logan Northern Canal in a safe, efficient, and cost-effective manner. If there are any questions, comments, or concerns, please contact Andrew M. Williamson, Cultural Resources Specialist, at 801-524-4556 at your earliest possible convenience.

Sincerely,

LR Coverdale, Acting STC

SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

cc:
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
Elise Boeke, State Resource Conservationist, NRCS, Salt Lake City, Utah
Kerry Goodrich, Assistant State Conservationist-Field Operations, NRCS, Ogden, Utah
Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah
Andrew M. Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah

United States Department of Agriculture

NRCS
Natural Resources Conservation Service
125 South State Street, Room 4402
Salt Lake City, UT 84138-1100
(801) 524-4550
FAX (801) 524-4403

CERTIFIED MAIL – RETURN RECEIPT 7005 1160 0002 4409 7448

July 21, 2010

Mr. Nathan Small
Chairman
Shoshone-Bannock Tribes of Fort Hall
P.O. Box 306
Fort Hall, Idaho 83203

Reference: Initiation of Section 106 Consultation on the Logan Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mr. Small:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you may be aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in the breach of the Logan Northern Canal.

The NRCS is currently in the process of identifying potential alternatives for restoring water to the Logan Northern Canal. These alternatives could potentially involve restoration, repair, abandonment, or modification of the Logan Northern Canal. The alternatives may also involve modification of the Logan, Smithfield, and Hyde Park Canal. As shown on the enclosed map, these canals are on lands administered by the U.S. Forest Service and on private lands in Sections 11-14, 23-27 and 34-36 of Township 12 North, Range 1 East and in Section 31 of Township 12 North, Range 2 East. They can be seen on the Logan, Utah, and Smithfield, Utah, USGS 7.5 minute series topographic quadrangles.

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The Logan Canal EWP project remains in the planning process and the NRCS will continue to follow its Section 106 consultation process when further actions are determined. We invite your participation in this project and look forward to working with you to identify alternatives that will accomplish the goal of restoring water to the Logan Northern Canal in a safe, efficient, and cost-effective manner. If there are any questions, comments, or concerns, please contact Andrew M. Williamson, Cultural Resources Specialist, at 801-524-4556 at your earliest possible convenience.

Sincerely,

LR Coverdale, Acting STC

SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

cc:
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
Elise Boeke, State Resource Conservationist, NRCS, Salt Lake City, Utah
Kerry Goodrich, Assistant State Conservationist-Field Operations, NRCS, Ogden, Utah
Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah
Andrew M. Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah

United States Department of Agriculture

NRCS

Natural Resources Conservation Service
125 South State Street, Room 4010
Salt Lake City, UT 84138-1100
(801) 524-4550
FAX (801) 524-4403

CERTIFIED MAIL – RETURN RECEIPT 7099 3220 0005 2253 9282

September 16, 2010

Mr. Lloyd Berentzen
Mayor
City of North Logan
2227 North 1400 East
Logan, Utah 84341

Reference: Initiation of Section 106 Consultation for the Logan Northern Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mr. Berentzen:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you are aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in the breach of the Logan Northern Canal.

The NRCS, along with the Uinta-Wasatch-Cache National Forest and the United States Army Corps of Engineers as cooperating Federal agencies, is currently in the process of identifying potential alternatives for restoring water to the Logan Northern Canal. These alternatives could potentially involve restoration, repair, abandonment, or modification of the Logan Northern Canal. The alternatives may also involve modification of the Logan, Smithfield, and Hyde Park Canal. As shown on the enclosed map, these canals are on lands administered by the U.S. Forest Service and on private lands in Sections 11-14, 23-27 and 34-36 of Township 12 North, Range 1 East and in Section 31 of Township 12 North, Range 2 East. They can be seen on the Logan, Utah, and Smithfield, Utah, USGS 7.5 minute series topographic quadrangles.

As the lead Federal agency for this undertaking, the NRCS is responsible for compliance with Section 106 of the National Historic Preservation Act. To this end, the NRCS Cultural Resource Specialist completed a records search with the Utah State Historic Preservation Office (SHPO) on March 2, 2010, in an effort to identify archaeological resources and historic properties that may be affected by the various alternatives for development. Supplemental reviews of General Land Office (GLO) plat maps and the National Register of Historic Places (NRHP) were also completed. These reviews indicated that neither canal has been formally documented as historical or archaeological resources. However, a cursory review of historical data pertaining to the canals indicates that both date to the

early history of the Cache Valley and figure prominently in the history of its development. It is therefore likely that both canals are historic properties that are eligible for the NRHP. It is equally likely that any of the selected alternatives will result in adverse effects to one or both canals that will require resolution.

The Logan Canal EWP project remains in the planning stages and the NRCS will continue to follow its Section 106 consultation process when further actions are determined. We invite your participation in this project and look forward to working with you to identify alternatives that will accomplish the goal of restoring water to the Logan Northern Canal in a safe, efficient, and cost-effective manner.

If there are any questions, comments, or concerns, please contact Andrew M. Williamson, Cultural Resources Specialist, at 801-524-4556 at your earliest possible convenience.

Sincerely,

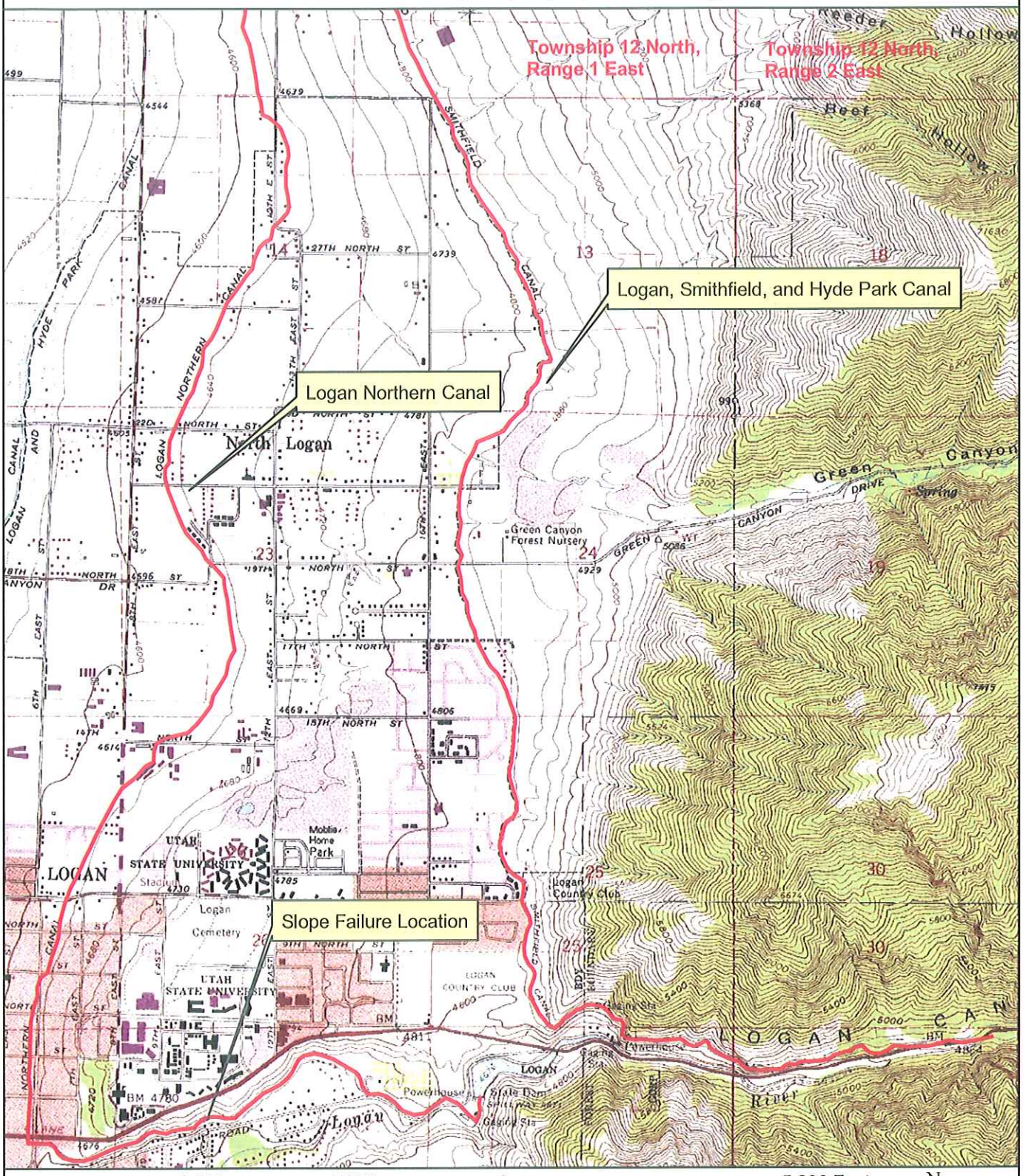
Ron Davidson, acting

SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

cc:
Elise Boeke, State Resource Conservationist, NRCS, Salt Lake City, Utah
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
Brian Ferebee, Forest Supervisor, Uinta-Wasatch-Cache National Forest, Salt Lake City, Utah
Jason Gipson, Branch Manager, U.S. Army Corps of Engineers, Bountiful, Utah
Kerry Goodrich, Assistant State Conservationist-Field Operations, NRCS, Ogden, Utah
Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Andrew M. Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah

Overview of the Proposed Logan Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah



5,200 2,600 0 5,200 Feet

N

1:28,000 Scale

Basemap taken From the Logan, Utah and Smithfield, Utah USGS 7.5 Minute Series Topographic Quadrangles

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United States Department of Agriculture

NRCS

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125 South State Street, Room 4010
Salt Lake City, UT 84138-1100
(801) 524-4550
FAX (801) 524-4403

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September 16, 2010

Mr. Curtis Cesspooch
Chairman
Ute Indian Tribe of the Uintah & Ouray Reservation
PO Box 190
Fort Duchesne, Utah 84026

Reference: Initiation of Section 106 Consultation for the Logan Northern Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mr. Cesspooch:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you are aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in the breach of the Logan Northern Canal.

The NRCS, along with the Uinta-Wasatch-Cache National Forest and the United States Army Corps of Engineers as cooperating Federal agencies, is currently in the process of identifying potential alternatives for restoring water to the Logan Northern Canal. These alternatives could potentially involve restoration, repair, abandonment, or modification of the Logan Northern Canal. The alternatives may also involve modification of the Logan, Smithfield, and Hyde Park Canal. As shown on the enclosed map, these canals are on lands administered by the U.S. Forest Service and on private lands in Sections 11-14, 23-27 and 34-36 of Township 12 North, Range 1 East and in Section 31 of Township 12 North, Range 2 East. They can be seen on the Logan, Utah, and Smithfield, Utah, USGS 7.5 minute series topographic quadrangles.

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If there are any questions, comments, or concerns, please contact Andrew M. Williamson, Cultural Resources Specialist, at 801-524-4556 at your earliest possible convenience.

Sincerely,

Ron Dawson, acting

SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

cc:
Elise Boeke, State Resource Conservationist, NRCS, Salt Lake City, Utah
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
Brian Ferebee, Forest Supervisor, Uinta-Wasatch-Cache National Forest, Salt Lake City, Utah
Jason Gipson, Branch Manager, U.S. Army Corps of Engineers, Bountiful, Utah
Kerry Goodrich, Assistant State Conservationist-Field Operations, NRCS, Ogden, Utah
Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Andrew M. Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah

United States Department of Agriculture

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Salt Lake City, UT 84138-1100
(801) 524-4550
FAX (801) 524-4403

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September 17, 2010

Ms. Lori Hunsaker
Deputy State Historic Preservation Officer - Archaeology
Utah Division of State History
300 Rio Grande Avenue
Salt Lake City, Utah 84101-1182

Reference: Initiation of Section 106 Consultation for the Logan Northern Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Ms. Hunsaker

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you are aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in the breach of the Logan Northern Canal.

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early history of the Cache Valley and figure prominently in the history of its development. It is therefore likely that both canals are historic properties that are eligible for the NRHP. It is equally likely that any of the selected alternatives will result in adverse effects to one or both canals that will require resolution.

The Logan Canal EWP project remains in the planning stages and the NRCS will continue to follow its Section 106 consultation process when further actions are determined. We invite your participation in this project and look forward to working with you to identify alternatives that will accomplish the goal of restoring water to the Logan Northern Canal in a safe, efficient, and cost-effective manner.

If there are any questions, comments, or concerns, please contact Andrew M. Williamson, Cultural Resources Specialist, at 801-524-4556 at your earliest possible convenience.

Sincerely,

Lori Dawsdom, acting

SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

cc:
Elise Boeke, State Resource Conservationist, NRCS, Salt Lake City, Utah
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
Brian Ferebee, Forest Supervisor, Uinta-Wasatch-Cache National Forest, Salt Lake City, Utah
Jason Gipson, Branch Manager, U.S. Army Corps of Engineers, Bountiful, Utah
Kerry Goodrich, Assistant State Conservationist-Field Operations, NRCS, Ogden, Utah
Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Andrew M. Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah

United States Department of Agriculture

NRCS

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125 South State Street, Room 4010
Salt Lake City, UT 84138-1100
(801) 524-4550
FAX (801) 524-4403

CERTIFIED MAIL – RETURN RECEIPT 7005 1160 0002 4409 7097

September 16, 2010

Mr. Ivan Posey
Shoshone Tribe of the Wind River Reservation
P.O. Box 538
Fort Washakie, Wyoming 82514

Reference: Initiation of Section 106 Consultation for the Logan Northern Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mr. Posey:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you are aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in the breach of the Logan Northern Canal.

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Sincerely,

Ron Davidson, acting

SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

cc:
Elise Boeke, State Resource Conservationist, NRCS, Salt Lake City, Utah
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
Brian Ferebee, Forest Supervisor, Uinta-Wasatch-Cache National Forest, Salt Lake City, Utah
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Andrew M. Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah

United States Department of Agriculture

NRCS

Natural Resources Conservation Service
125 South State Street, Room 4010
Salt Lake City, UT 84138-1100
(801) 524-4550
FAX (801) 524-4403

CERTIFIED MAIL – RETURN RECEIPT 7005 1160 0002 4410 0964

September 17, 2010

Mr. Nathan Small
Shoshone-Bannock Tribes of Fort Hall
PO Box 306
Fort Hall, Utah 83203

Reference: Initiation of Section 106 Consultation for the Logan Northern Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mr. Small:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you are aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in the breach of the Logan Northern Canal.

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If there are any questions, comments, or concerns, please contact Andrew M. Williamson, Cultural Resources Specialist, at 801-524-4556 at your earliest possible convenience.

Sincerely,

Ron Davidson, acting

SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

cc:
Elise Boeke, State Resource Conservationist, NRCS, Salt Lake City, Utah
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
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Jason Gipson, Branch Manager, U.S. Army Corps of Engineers, Bountiful, Utah
Kerry Goodrich, Assistant State Conservationist-Field Operations, NRCS, Ogden, Utah
Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Andrew M. Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah
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United States Department of Agriculture

NRCS

Natural Resources Conservation Service
125 South State Street, Room 4010
Salt Lake City, UT 84138-1100
(801) 524-4550
FAX (801) 524-4403

CERTIFIED MAIL – RETURN RECEIPT 7099 3220 0005 2253 6229

September 16, 2010

Mr. Randy Watts
Mayor
Logan City
290 North 100 West
Logan, Utah 84321

Reference: Initiation of Section 106 Consultation for the Logan Northern Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mr. Watts:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you are aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in the breach of the Logan Northern Canal.

The NRCS, along with the Uinta-Wasatch-Cache National Forest and the United States Army Corps of Engineers as cooperating Federal agencies, is currently in the process of identifying potential alternatives for restoring water to the Logan Northern Canal. These alternatives could potentially involve restoration, repair, abandonment, or modification of the Logan Northern Canal. The alternatives may also involve modification of the Logan, Smithfield, and Hyde Park Canal. As shown on the enclosed map, these canals are on lands administered by the U.S. Forest Service and on private lands in Sections 11-14, 23-27 and 34-36 of Township 12 North, Range 1 East and in Section 31 of Township 12 North, Range 2 East. They can be seen on the Logan, Utah, and Smithfield, Utah, USGS 7.5 minute series topographic quadrangles.

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If there are any questions, comments, or concerns, please contact Andrew M. Williamson, Cultural Resources Specialist, at 801-524-4556 at your earliest possible convenience.

Sincerely,

Ron Davidson, acting

SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

cc:
Elise Boeke, State Resource Conservationist, NRCS, Salt Lake City, Utah
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
Brian Ferebee, Forest Supervisor, Uinta-Wasatch-Cache National Forest, Salt Lake City, Utah
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Kerry Goodrich, Assistant State Conservationist-Field Operations, NRCS, Ogden, Utah
Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Andrew M. Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah

United States Department of Agriculture

NRCS

Natural Resources Conservation Service
125 South State Street, Room 4010
Salt Lake City, UT 84138-1100
(801) 524-4550
FAX (801) 524-4403

CERTIFIED MAIL – RETURN RECEIPT 7099 3220 0005 2253 6243

September 16, 2010

Mr. Jon Meikle
Logan Northern Canal Company
1000 East 4650 North
Smithfield, Utah 84335

Reference: Initiation of Section 106 Consultation for the Logan Northern Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mr. Meikle:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you are aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in the breach of the Logan Northern Canal.

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If there are any questions, comments, or concerns, please contact Andrew M. Williamson, Cultural Resources Specialist, at 801-524-4556 at your earliest possible convenience.

Sincerely,

Ron Davidson, acting

SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

cc:
Elise Boeke, State Resource Conservationist, NRCS, Salt Lake City, Utah
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
Brian Ferebee, Forest Supervisor, Uinta-Wasatch-Cache National Forest, Salt Lake City, Utah
Jason Gipson, Branch Manager, U.S. Army Corps of Engineers, Bountiful, Utah
Kerry Goodrich, Assistant State Conservationist-Field Operations, NRCS, Ogden, Utah
Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Andrew M. Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah

United States Department of Agriculture

NRCS

Natural Resources Conservation Service
125 South State Street, Room 4010
Salt Lake City, UT 84138-1100
(801) 524-4550
FAX (801) 524-4403

CERTIFIED MAIL – RETURN RECEIPT 7005 1160 0002 4410 0957

September 16, 2010

Mr. Keith Meikle
President
Logan, Hyde Park, and Smithfield Canal Company
1285 East 4500 North
Hyde Park, Utah 84335

Reference: Initiation of Section 106 Consultation for the Logan Northern Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mr. Meikle:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you are aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in the breach of the Logan Northern Canal.

The NRCS, along with the Uinta-Wasatch-Cache National Forest and the United States Army Corps of Engineers as cooperating Federal agencies, is currently in the process of identifying potential alternatives for restoring water to the Logan Northern Canal. These alternatives could potentially involve restoration, repair, abandonment, or modification of the Logan Northern Canal. The alternatives may also involve modification of the Logan, Smithfield, and Hyde Park Canal. As shown on the enclosed map, these canals are on lands administered by the U.S. Forest Service and on private lands in Sections 11-14, 23-27 and 34-36 of Township 12 North, Range 1 East and in Section 31 of Township 12 North, Range 2 East. They can be seen on the Logan, Utah, and Smithfield, Utah, USGS 7.5 minute series topographic quadrangles.

As the lead Federal agency for this undertaking, the NRCS is responsible for compliance with Section 106 of the National Historic Preservation Act. To this end, the NRCS Cultural Resource Specialist completed a records search with the Utah State Historic Preservation Office (SHPO) on March 2, 2010, in an effort to identify archaeological resources and historic properties that may be affected by the various alternatives for development. Supplemental reviews of General Land Office (GLO) plat maps and the National Register of Historic Places (NRHP) were also completed. These reviews indicated that neither canal has been formally documented as historical or archaeological resources. However, a cursory review of historical data pertaining to the canals indicates that both date to the

early history of the Cache Valley and figure prominently in the history of its development. It is therefore likely that both canals are historic properties that are eligible for the NRHP. It is equally likely that any of the selected alternatives will result in adverse effects to one or both canals that will require resolution.

The Logan Canal EWP project remains in the planning stages and the NRCS will continue to follow its Section 106 consultation process when further actions are determined. We invite your participation in this project and look forward to working with you to identify alternatives that will accomplish the goal of restoring water to the Logan Northern Canal in a safe, efficient, and cost-effective manner.

If there are any questions, comments, or concerns, please contact Andrew M. Williamson, Cultural Resources Specialist, at 801-524-4556 at your earliest possible convenience.

Sincerely,

Ron Davidson, acting

SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

cc:
Elise Boeke, State Resource Conservationist, NRCS, Salt Lake City, Utah
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
Brian Ferebee, Forest Supervisor, Uinta-Wasatch-Cache National Forest, Salt Lake City, Utah
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Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Andrew M. Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah

United States Department of Agriculture

NRCS

Natural Resources Conservation Service
125 South State Street, Room 4010
Salt Lake City, UT 84138-1100
(801) 524-4550
FAX (801) 524-4403

CERTIFIED MAIL – RETURN RECEIPT 7099 3220 0005 2253 6229

September 16, 2010

Mr. Robert Fotheringham
Water Department Manager
Cache County
179 North Main Street
Logan, Utah 84321

Reference: Initiation of Section 106 Consultation for the Logan Northern Canal Emergency Watershed Protection (EWP) Project, Cache County, Utah

Dear Mr. Fotheringham:

The Natural Resources Conservation Service (NRCS) has been requested to provide technical and financial assistance to Cache County to address impairments to the Logan Northern Canal through the Emergency Watershed Protection (EWP) Program. As you are aware, a slope failure event at the mouth of Logan Canyon in July 2009 resulted in damage and destruction to several residences and the loss of three lives. This event also resulted in the breach of the Logan Northern Canal.

The NRCS, along with the Uinta-Wasatch-Cache National Forest and the United States Army Corps of Engineers as cooperating Federal agencies, is currently in the process of identifying potential alternatives for restoring water to the Logan Northern Canal. These alternatives could potentially involve restoration, repair, abandonment, or modification of the Logan Northern Canal. The alternatives may also involve modification of the Logan, Smithfield, and Hyde Park Canal. As shown on the enclosed map, these canals are on lands administered by the U.S. Forest Service and on private lands in Sections 11-14, 23-27 and 34-36 of Township 12 North, Range 1 East and in Section 31 of Township 12 North, Range 2 East. They can be seen on the Logan, Utah, and Smithfield, Utah, USGS 7.5 minute series topographic quadrangles.

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early history of the Cache Valley and figure prominently in the history of its development. It is therefore likely that both canals are historic properties that are eligible for the NRHP. It is equally likely that any of the selected alternatives will result in adverse effects to one or both canals that will require resolution.

The Logan Canal EWP project remains in the planning stages and the NRCS will continue to follow its Section 106 consultation process when further actions are determined. We invite your participation in this project and look forward to working with you to identify alternatives that will accomplish the goal of restoring water to the Logan Northern Canal in a safe, efficient, and cost-effective manner.

If there are any questions, comments, or concerns, please contact Andrew M. Williamson, Cultural Resources Specialist, at 801-524-4556 at your earliest possible convenience.

Sincerely,

Ron Davidson, acting

SYLVIA A. GILLEN
State Conservationist

Enclosure: Map of proposed project

cc:
Elise Boeke, State Resource Conservationist, NRCS, Salt Lake City, Utah
Bronson Smart, State Conservation Engineer, NRCS, Salt Lake City, Utah
Brian Ferebee, Forest Supervisor, Uinta-Wasatch-Cache National Forest, Salt Lake City, Utah
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Norm Evenstad, Water Resources Specialist, NRCS, Salt Lake City, Utah
Andrew M. Williamson, Cultural Resources Specialist, NRCS, Salt Lake City, Utah
Jonathan Hardman, District Conservationist, NRCS, Logan, Utah

CACHE COUNTY
CORPORATION

RECEIVED DEC 07 2010

M. LYNN LEMON
COUNTY EXECUTIVE/SURVEYOR

199 N. MAIN
LOGAN, UTAH 84321
TEL 435-755-1850
FAX 435-755-1981

COUNTY COUNCIL
CORY YEATES
H. CRAIG PETERSEN
KATHY ROBINSON
BRIAN CHAMBERS
GORDON A. ZILLES
CRAIG "W" BUTTARS
JON WHITE

Bronson Smart
State Conservation Engineer
Natural Resources Conservation Service
125 South State Street, Room 4010
Salt Lake City, Utah 84138-1100

Dear Bronson Smart:

As the sponsor of the canal rebuild project, Cache County's primary objective is to keep water in its beneficial use in Cache County and to do it in the safest manner possible. As per your request, below is a list of our objectives:

(1) Water restoration for all canal users which includes farmers, ranchers, towns and cities, while optimizing public safety;

(2) Promote amenities and citizen use along the canal route for recreation and aesthetic appreciation, including preserving or restoring vegetation;

(3) Promote secondary benefits of the rebuilt canal for the betterment of existing and future citizens of Cache County which includes, but is not limited to, water conservation, improved water quality, energy conservation;

(4) Minimize temporary and permanent impacts to private and public property, including roadways;

(5) Minimize unknown cost and time associated with the project and avoid unnecessary delay;

(6) Minimize the need for specialized construction techniques and foster competitiveness within the bid process; and

(7) Minimize the operation and management cost for overseeing the canal system in the future.

As you know, our goal as the County Executive and the County Council, is to do what is best for the citizens of Cache County. The County must balance the objectives of those constituents who want the canal rebuilt along the same route that collapsed (Logan Bluff) against future concerns for safety and uninterrupted water supply.

In restoring water use promptly, public safety is paramount as is fiscal responsibility of planning for the long-term. Of note, it has come to our attention that even after the canal was shut down subsequent to the break in 2009, there have been more landslides along the disaster area. This has prompted us to ask some hard questions of those researching the disaster area, including speaking with your own engineers during the meeting (open to the public) on Wednesday, 27 October, 2010, on the hillside to discuss Option 1: "Reconstruct Logan Northern Canal."

Further, the landslide and subsequent canal failure caused a legislative focus on canal safety. House Bill 60 was passed in the 2009 legislative session to address this pressing issue. Cache County in conjunction with the Utah Association of Conservation Districts (UACD) prepared a map to assess areas of concern based on slope for the canals. UACD is furthering this effort to prepare a model management plan for canals to use in assessing the areas of potential concern along the canals. Senator Davis is currently working on draft legislation for the 2011 legislative session to regulate canals under a "Canal Safety Act" giving oversight to the state engineer. Cache County believes that as time progresses that more costs for maintenance and safety issues will be incurred along the existing easements. Please consider these long-term costs for each alternative.

Also, as you have explained, federal money is not available to stabilize the hillside along the Logan Bluff because this would result in "increased level of protection" beyond the scope of Code of Federal Regulation (7 CFR 624.6(b)(3)(iii). Thus, the county as the sponsor will be responsible for paying one-hundred percent of the costs of the upgrade. We also learned that it is questionable as to whether the Canal Company would even be able to obtain private insurance coverage if the canal was rebuilt along the Logan Bluff. This lack of grant-funding to stabilize the disaster area and the likely lack of insurance gives the County great pause.

While we remain open to consider all three options, including Option 1, of grave concern is that the disaster area could be washed out in the future from the existing springs and super-loading of the above highway or any other reason as discussed during the hillside meeting. The potential for loss of life in any way connected to the rebuilding of the canal along the disaster area makes this option untenable for the County, or "no build" in your terms. This critical concern for human life also translates to future liability. The cost of such liability would have the potential to be shouldered by the citizens of Cache County.

We will continue to invite public interest and comments even ahead of the official public comment period as mandated in the final EIS stages, and we look forward to working with you and the public to reach a solution that will be in the best interest of the citizens of this valley in considering all three options.

Sincerely,

Gordon A. Zilles, Council Chair

M. Lynn Lemon, County Executive

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO
CORPS OF ENGINEERS
1325 J STREET
SACRAMENTO CA 95814-2922

HDR
REC.: JAN 07 2011
PROJ.:
FILE:
DIST:

REPLY TO
ATTENTION OF

January 5, 2011

Regulatory Division SPK-2010-01315-UO

Bronson Smart, SCE
Natural Resources Conservation Service (NRCS)
125 South State Street, Room 4010
Salt Lake City, Utah 84138

Dear Mr. Smart, SCE:

We are responding to your November 2, 2010 request for a preliminary jurisdictional determination (JD), in accordance with our Regulatory Guidance Letter (RGL) 08-02, for the North Logan Canal Re-location site. The approximately 178.7-acre site is located within parts of unincorporated Cache County and Cities of Logan, North Logan, and Hyde Park, along the Logan Northern Canal alignment, the Logan-Hyde Park-Smithfield Canal alignments and an alternative route along 1500 North Street, in Section 35, Township 12 North, Range 1 East, Salt Lake Meridian, Latitude 41.739°, Longitude -111.809°, Logan, Cache County, Utah.

Based on available information, we concur with the estimate of potential waters of the United States, as depicted on the September 2010 Logan Northern Canal Wetland Delineation drawing prepared by Natural Resources Conservation Service (NRCS). The approximately 0.72-acre of wetlands and 55348.6 linear feet of canals or other water bodies present within the survey area may be jurisdictional waters of the United States. These waters may be regulated under Section 404 of the Clean Water Act.

A copy of our RGL 08-02 Preliminary Jurisdictional Determination Form for this site is enclosed. Please sign and return a copy of the completed form to this office. Once we receive a copy of the form with your signature we can accept and process a Pre-Construction Notification or permit application for your proposed project.

You should not start any work in potentially jurisdictional waters of the United States unless you have Department of the Army permit authorization. You may request an approved JD for this site at any time prior to starting work within waters. In certain circumstances, as described in RGL 08-02, an approved JD may later be necessary.

You should provide a copy of this letter and notice to all other affected parties, including any individual who has an identifiable and substantial legal interest in the property.

This preliminary determination has been conducted to identify the potential limits of wetlands and other water bodies which may be subject to Corps of Engineers' jurisdiction for the

particular site identified in this request. A Notification of Appeal Process and Request for Appeal (RFA) form is enclosed to notify you of your options with this determination. This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985.

We appreciate your feedback. At your earliest convenience, please go to our website and tell us how we are doing by clicking on the Customer Survey link (lower right) at: http://www.spk.usace.army.mil/regulatory.html/.

Please refer to identification number SPK-2010-01315-UO in any correspondence concerning this project. If you have any questions, please contact John Derinzy at Nevada-Utah Regulatory Branch, 533 West 2600 South, Suite 150, Bountiful, Utah 84010, telephone 801-295-8380, ext 13, or email *john.w.derinzy@usace.army.mil*. For more information regarding our program, please visit our website at *www.spk.usace.army.mil/regulatory.html*.

Sincerely,

John Urbanic
Chief, Utah Regulatory Office

Enclosures

Copy furnished without enclosures:
Trent Toler, HDR Engineering, Inc., 3949 South 700 East, Suite 500, Salt Lake City, Utah 84107

NRCS Natural Resources Conservation Service

NRCS Utah

United States Department of Agriculture

Natural Resources Conservation Service

Ray Grow
Soil Scientist
125 S. State St.
Rm. 4010
Salt Lake City, UT 84138

Phone:
801 524-4253

FAX
801 524-4403

October 7, 2010

John Derinzy
Project Manager
Army Corps of Engineers
533 W. 2600 S. Suite 150
Bountiful, UT 84010

Dear Mr. Derinzy:

The attached material is in response to your request for wetland information on the North Logan Canal project. Trent Toler of HDR and I covered the area of the proposal looking for wetland according to the Corps Manual for Delineation of Wetlands. The report is intended to represent wetland properties as they relate to the proposals submitted as of September 20, 2010.

A general map of the area with way points and labels is used to show the entire area and is labeled as Map 1. There are 16 total maps used to cover the entire proposal and our wetland investigation. Maps 2 through 16 are to show way points where wetland or significant observations were documented.

Most of the wetland we observed and documented is from a capillary fringe at the edge of the water inside the canal. This is described with way points where it was observed and is listed in the Summary of Observations provided with this letter. An area of natural wetland was observed and documented in the area described as Proposal C. Wetness at that site is documented at way point 156.

There are some observations noticed which are not mapped but are worthy of note. The canal itself had very little wetland if any, which could be related to any down slope seepage or soil movement. Even where springs were emptying into the canal to the east of the break, the vegetation was in place to take up excess water. The area of this spring activity is from way point 160 to 170.

The hillside above the canal adjacent to Canyon Road has a particular characteristic worthy of note. The scarp at the head of the slide at way points 163 to 165 reveals a layer of rounded cobble rock at a depth of about 4 feet. The slopes average 60 percent. This combination of soil properties has the potential to cause land-slides if the material in the upper 4 feet becomes saturated or heavy enough from wetness to move.

Two things were noted which show previous problems with soil movement. There are drain lines and scars from previous slides indicating that slippage has taken place in the past. This entire hillside with steep slopes and cobble rock at depth has the potential for movement when heavy with water.

NRCS Natural Resources Conservation Service

NRCS Utah

United States Department of Agriculture

Natural Resources Conservation Service

Ray Grow
Soil Scientist
125 S. State St.
Rm. 4010
Salt Lake City, UT 84138

Phone:
801 524-4253

FAX
801 524-4403

The area above the canal has a parking area where water can move over the hill and saturate the slope above the canal. This water at a time of seasonal wetness would be particularly hazardous.

This concludes the observations noticed as we walked the canal looking for wetland and soil features associated with wetness. The areas where water was exiting the canal through cracks in concrete or was providing water for wetland plants at the edge of the water inside the canal were considered artificial and of little significance. Thank you for your input in the field as we determine emphasis needed for these areas.

The area with the greatest hazard due to soil wetness is the stretch along Canyon Road. Forces of hydrology slope and unstable soil properties contribute to a significant hazard to property below the canal.

Proposal C has two areas where construction of a canal or pipe line corridor could be complicated by wetness. Both areas have spring related sources of water in an area close to the proposal. Way points 156 and 158 are in these areas. Map 10 shows the proximity to the corridor.

Please feel free to contact me with questions or concerns.

Sincerely,

Ray Grow

RAY GROW
NRCS Soil Scientist

Attachments

Cc:
Trent Toler, HDR Consulting
Bronson Smart, SCE, NRCS

United States Department of Agriculture

NRCS
Natural Resources Conservation Service

October 5, 2010

John Derinzy
Army Corps of Engineers

CERTIFIED MAIL

Dear Mr. Derinzy,

NRCS has conducted a Wetland Determination for property as shown on the enclosed maps for the North Logan Canal project. This determination is for your information as requested. Based on a site visit on September 20 to 28, 2010 the following preliminary wetland determination was completed:

- The area of interest shown on enclosed imagery contains 0.58 acres of Wetland (W). Any wetland area meets the hydric soils, wetland plants, and soil or surface wetness criteria of wetlands as defined in Title 7 of the Code of Federal Regulations (7 CFR §12.2). Wetlands on the site were identified and delineated using the procedures in the National Food Security Act Manual and the 1987 Corps of Engineers Wetland Delineation Manual.

The wetland conservation provisions of the Food Security Act of 1985 prohibit USDA program participants from converting wetlands to agricultural use. A converted wetland is defined as a wetland that has been drained, dredged, filled, leveled, or otherwise manipulated (including the removal of woody vegetation or any activity that results in impairing or reducing the flow or circulation of water) for the purpose or to have the effect of making possible the production of an agricultural commodity (7 CFR §12.2). Persons who convert wetlands after November 28, 1990 are ineligible for USDA program benefits, until the converted wetlands are restored or mitigated.

This preliminary certified wetland technical determination has been conducted for the purpose of implementing the wetland conservation provisions of the Food Security Act of 1985, as amended. This determination may not be valid for identifying the extent of the Corps of Engineers' Clean Water Act jurisdiction for this site.

You may appeal this preliminary technical determination in accordance with the laws and federal regulations set forth at 7 U.S.C. 6991, *et seq.*, 7 CFR 614, the NRCS Appeals Procedures, 7 CFR 780, the FSA Appeals Procedures, and 7 CFR 11, the NAD Rules of Procedure, as follows:

(1) A field visit may be made by our office to review with you the basis for our preliminary technical determination, answer any questions you have concerning the determination, and to gather additional information from you concerning the preliminary determination. (The determination will not become final until 30 days after the field visit.)

(2) Reconsideration by the State Conservationist.

(3) Mediation* may be used in an attempt to settle concerns with the preliminary technical determination.

* Mediation is a process in which a trained, impartial person (a neutral mediator) helps look at mutual problems, identify and consider options, and determine if we can agree on a solution. Unlike an appeal, mediation is private, confidential, and informal. The mediator will help us work together to evaluate the information in your case and to identify alternatives that will assist us in resolving the dispute. The mediator has no decision-making authority. Unlike the appeal process, a mediator cannot decide what is "right" or "make" anyone do anything. If the mediation is successful the mediator will help us to reach an agreement and document that solution in writing. Each party will sign the agreement, and receive a copy. If an agreement is not reached, the mediation process ends; and, you may continue to pursue your appeal. If you choose mediation, you must contact the mediator directly and make arrangements for the mediation process. You can request mediation through Van Burgess, Utah Dept. of Agriculture, P.O. Box 146500, Salt Lake City, UT 84144-6500.

A final certified wetland determination will be issued within 30 days after the field visit or reconsideration, if requested, and/or within 30 days following the completion of mediation. If none of the previously discussed options have been selected, **this preliminary determination becomes final on <DATE (37 days from date of mailing).>** The final technical determination, whether it is a result of the expiration of the 30-day period following receipt of this preliminary technical determination or receipt of a final determination may be appealed to either of the following:

1) The FSA County Committee **or** the NRCS State Conservationist but not both
2) The National Appeals Division

If you take no action during the preliminary 30-day period, your appeal rights for this final technical determination begin on <37-day DATE> and end on <DATE (30 days after 37-day date)>.

Sincerely,

Ray Grow

Ray Grow
NRCS Soil Scientist

Attachments

Cc:

Trent Toler, HDR Consulting; Bronson Smart, NRCS State Engineer; Jonathan Hardman, NRCS District Conservationist, Cache County

United States Department of Agriculture

Natural Resources Conservation Service

NRCS-CPA-026E
9/2000

HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION DETERMINATION

Name Address:	John Derinzy Army Corps of Engineers 523 W. 2600 S. Suite 150 Bountiful, UT 84010	Request Date: 8/10	County: Cache
Agency or Person Requesting Determination:	NRCS	Tract No:	FSA Farm No.:

Section I - Highly Erodible Land

Is a soil survey now available for making a highly erodible land determination?	-
Are there highly erodible soil map units on this farm?	-

Fields in this section have undergone a determination of whether they are highly erodible land (HEL) or not; fields for which an HEL Determination has not been completed are not listed. In order to be eligible for USDA benefits, a person must be using an approved conservation system on all HEL.

Field(s)	HEL(Y/N)	Sodbust(Y/N)	Acres	Determination Date
	-	-		
	-	-		
	-	-		
	-	-		
	-	-		

The Highly Erodible Land determination was completed in the- .

Section II - Wetlands

Are there hydric soils on this farm?	Yes

Fields in this section have had wetland determinations completed. See the Definition of Wetland Label Codes for additional information regarding allowable activities under the wetland conservation provisions of the Food Security Act and/or when wetland determinations are necessary to determine USDA program eligibility.

Field(s)	Wetland Label*	Occurrence Year (CW)**	Acres	Determination Date	Certification Date
N. Logan Canal	W		0.58	9/20-28/10	
	-				
	-				
	-				
	-				

The wetland determination was completed in the -Field It was - . to the person on .

Remarks:	The map for this proposal shows an area of W as a delineation. Areas of AW are referred to by way of point locations described in an observation data set due to the intricate detail of their location. The NW label is used to describe areas not included in the W delineation or AW descriptions.

I certify that the above determinations are correct and were conducted in accordance with policies and procedures contained in the National Food Security Act Manual.

Signature Designated Conservationist	Date

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice or TDD). USDA is an equal opportunity provider and employer.

***DEFINITIONS OF WETLAND LABEL CODES**

AW	Artificial Wetland. An area that is artificial or irrigation induced wetland. These wetlands are not subject to the wetland conservation provision.
AW/FW	An area that contains both AW and FW.
AW/W	An area that contains both AW and W.
CC	Commenced Conversion exemption.
CPD	Corps Permit Decision. Corps of Engineers permit decisions regarding section 404 of the Clean Water Act will be relied upon to satisfy the wetland conservation provisions of the Food Security Act of 1985, as amended.
CMW	An area that receives a Categorical Minimal Effect determination.
CW	Converted Wetlands. An area converted between December 23, 1985 and November 28, 1990. IN any year that an agricultural commodity is planted on these converted wetlands, you will ineligible for USDA benefits.
**CW+year	An area converted after November 28, 1990. You will be ineligible for USDA program benefits until this wetland is restored.
CWNA	Converted Wetland Non-Agricultural use. A wetland area converted to other than agricultural commodity production.
CWTE	Converted Wetland Technical Error. An area converted or commenced based on an incorrect NRCS determination or misinformation from a NRCS or FSA employee.
FW	Farmed Wetland. An area that is farmed wetland; was manipulated and planted before December 23, 1985, but still meets wetland criteria. These may be farmed and maintained in the same manner as long as they are not abandoned.
FWP	Farmed Wetlands Pasture. An area that is pasture or hayland, manipulated before December 23, 1985 but still meets wetland criteria. These may be farmed and maintained in the same manner as long as they are not abandoned.
MIW	Mitigation Wetlands. Wetlands on which a person is actively mitigating a frequently cropped area or a wetland converted between December 23, 1985 and November 28, 1990. A converted wetland, farmed wetland, or farmed wetland pasture on which functions and values were lost are compensated for through wetland restoration, enhancement or creation.
MW	Minimal effect Wetland. An area determined to be minimal effect. These wetlands are to be farmed according to the minimal-effect agreement signed at the time the minimal-effect determination was made,
MWM	An area determined to be minimal effect with mitigation.
NI	Not Inventoried – No wetland determination has been completed.
NW	Non-Wetland. An area that does not contain a wetland.
NW/NAD	An area determined to be a non-wetland resulting from a decision from the National Appeals Division.
OW	Other Waters of the U.S. Area that fall under the jurisdiction of the Clean Water Act.
PC	Prior Converted cropland, which was drained filled, or manipulated before December 23, 1985; was cropped prior to December 23, 1985; was not abandoned; and does not meet FW criteria. These are not subject to the wetland conservation provision unless the area reverts to wetland as a result of abandonment.
PC/NW	An area that contains both PC and NW.
TP	Third Party Exemption.
W	Wetlands. An area meeting wetland criteria, including wetland farmed under natural conditions. If you plan to clear, drain, fill, level or manipulate these areas, contact NRCS and the Army Corp of Engineers prior to any such activity.
WX	A wetland area that has been manipulated after December 23, 1985, but was not, for the purpose of making production possible and production was not made possible. These include wetlands manipulated by drainage maintenance agreements.

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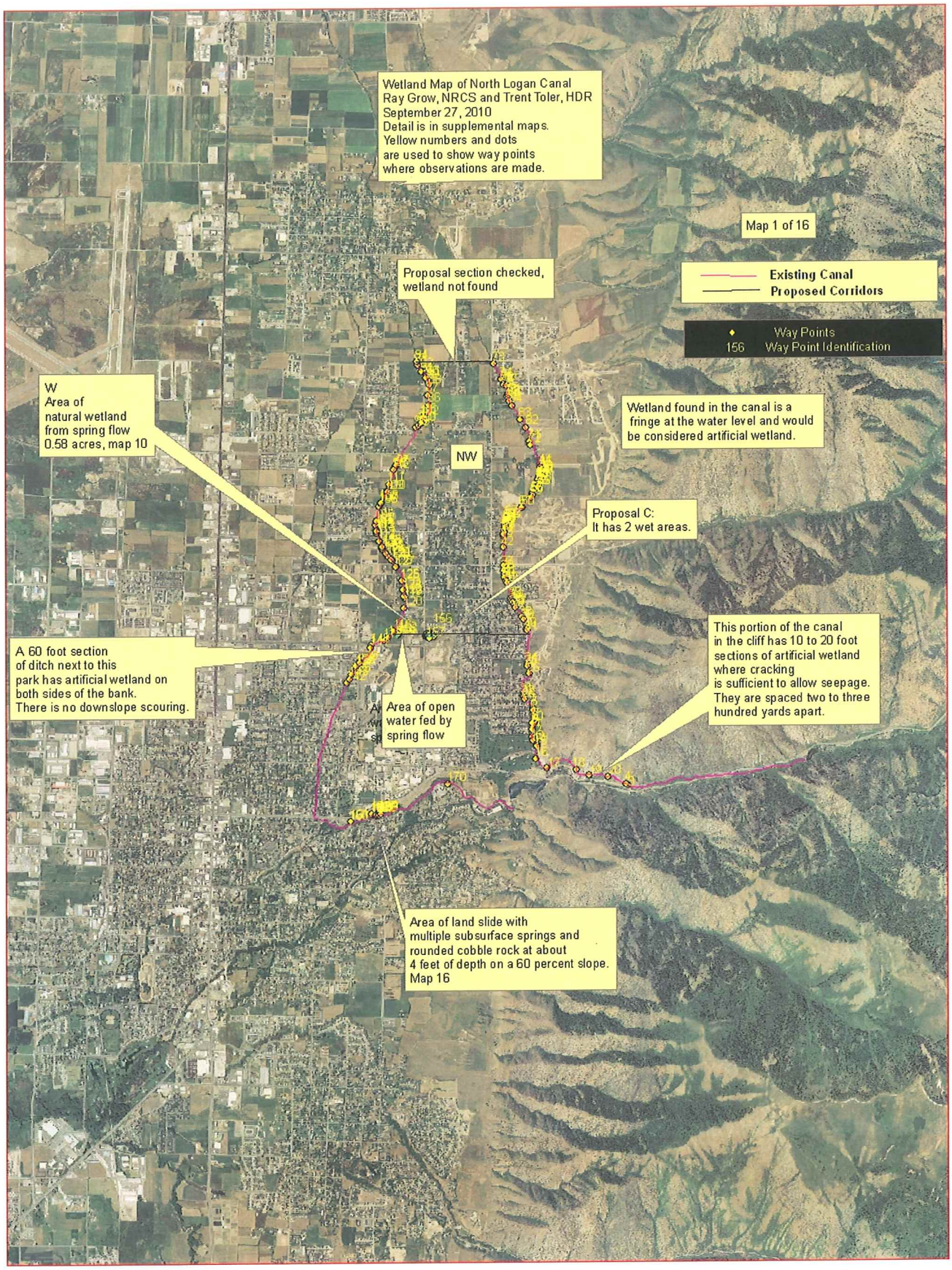

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

Feet

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December 13, 2010

John Derinzy
Regulatory Project Manager
Nevada-Utah Branch
U.S. Army Corps of Engineers, Sacramento District
533 West 2600 South, Suite 150
Bountiful, UT 84010-7744

John,

On behalf of Ray Grow of NRCS, we are submitting additional maps and the completed spreadsheet (see attached) that you requested in your e-mail to Mr. Grow on December 2, 2010. This additional data complements Mr. Grow's NRCS determination (Highly Erodible Land and Wetland Conservation Determination) of one wetland and three water features (two open-water canals and one open-water, spring-fed pond). Be aware the linear feet given in the spreadsheet for the Logan Northern Canal includes all above-ground channels in the study area, including the broken and non-functioning sections that resulted from the landslide.

During the site field visit that you attended on September 27, 2010, we discussed the artificial capillary fringe along many of the banks of the canals in the study area. My understanding of that discussion is that NRCS should note areas of capillary fringe but not describe them as wetlands in the report, and instead should focus its wetland recording and discussion on any areas that met all three wetland criteria (soils, hydrology, and vegetation) as defined in the Arid West Supplement. Therefore, for the additional data and mapping requested, what I am supplying reflects my understanding. I am supplying more-detailed mapping of the capillary fringe areas along both canals and areas of spring seepage along the uphill side of the Logan Northern Canal along Canyon Road. However, the capillary fringe and spring seepage areas are not included in the spreadsheet, since those areas did not satisfy all three wetland criteria and were not included by Ray Grow in his determination form.

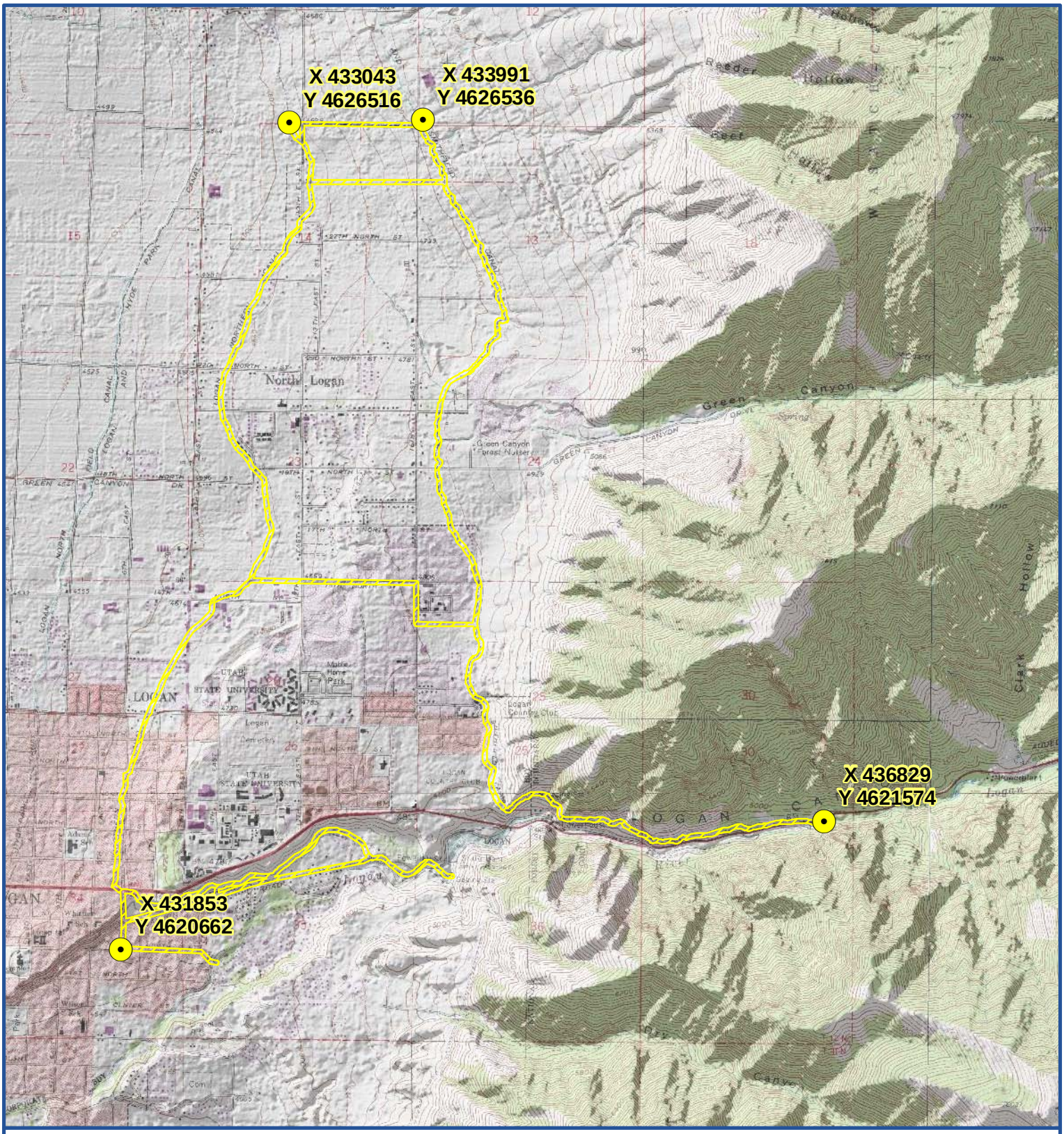
If this is in error, or if you need other information, please contact me and we can discuss how to address the issues or needs.

Trent Toler
HDR Engineering, Inc.

Office: (801) 743-7832
Mobile: (801) 680-5579

Attached: ORM Waters_NRCS_LNCanal.xls

NRCS_NorthLoganCanal_WetDelin_Figures.pdf



Legend

Wetland Survey Area Extent Values
(NAD 1983 UTM Zone 12 North, Meters)

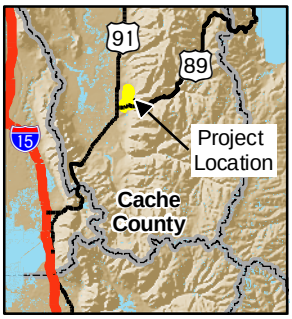
Wetland Survey Area

Base map composed from 7.5 minute quadrangles.

Investigators: HDR Engineering Inc.
September 2010

N
W E
S

0 0.25 0.5
MILES



Logan Northern Canal
Wetland Delineation Report

Figure 1

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

Study Area

Wednesday, January 5, 2011 9:48:03 AM
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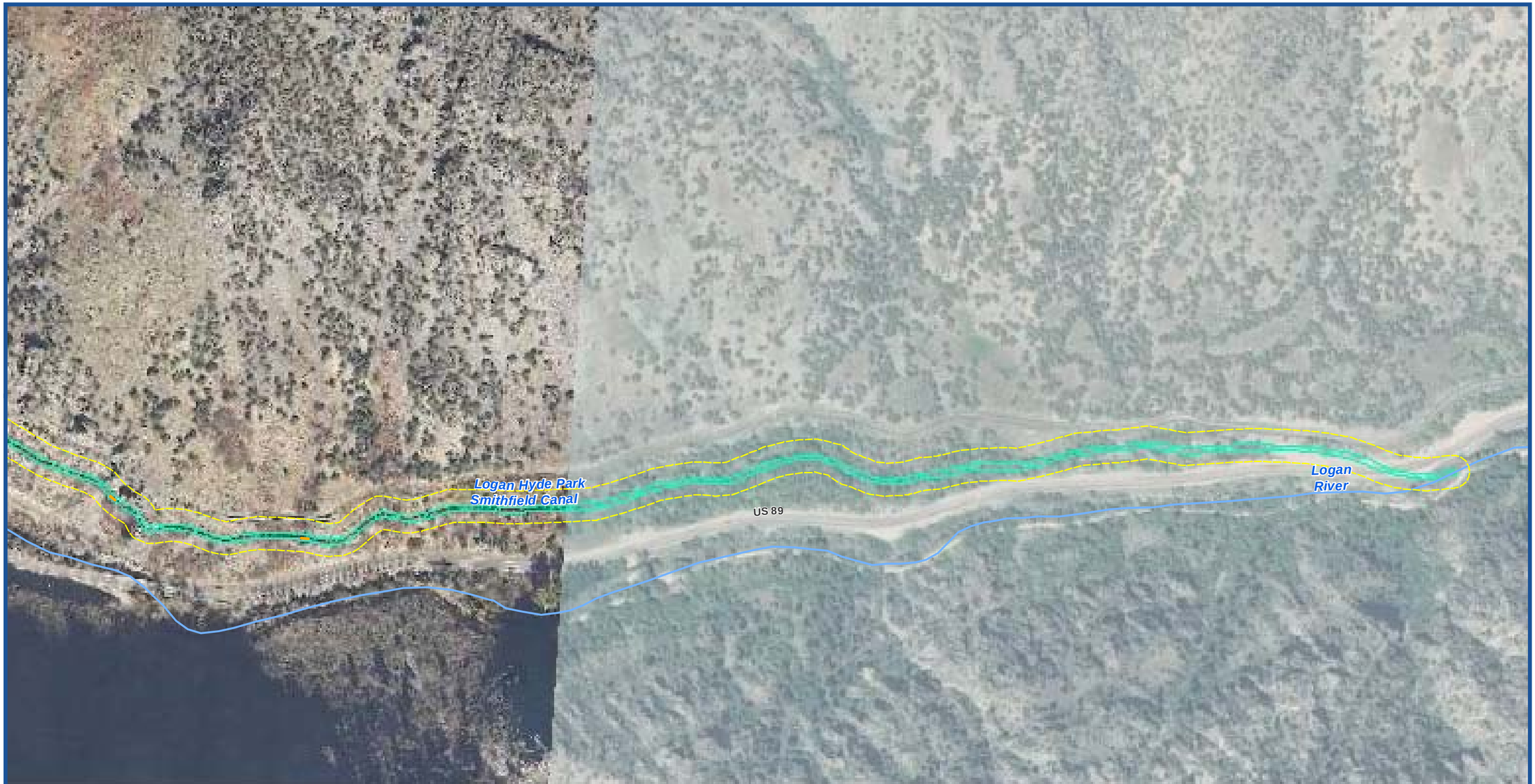


Legend

- Stream
- Artificial Capillary Fringe
- Spring Seep Area
- Water
- Wetland
- Wetland Survey Area

T12N, R1E, Section 25,36
T12N, R2E, Section 30,31

Latitude/Longitude (Center of each Map)

41.7435 -111.7675324

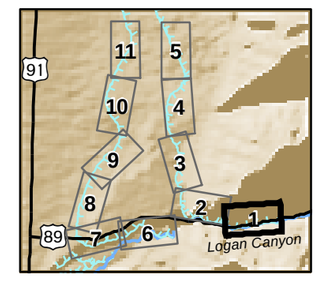
Image Date: 2009

Investigators: HDR Engineering Inc.
September 2010

N
W E
S

1 Inch = 300 Feet

Feet
0 150 300



Logan Northern Canal
Wetland Delineation Report

Figure 2

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

Map 1 of 11

Wednesday, January 5, 2011 9:57:03 AM
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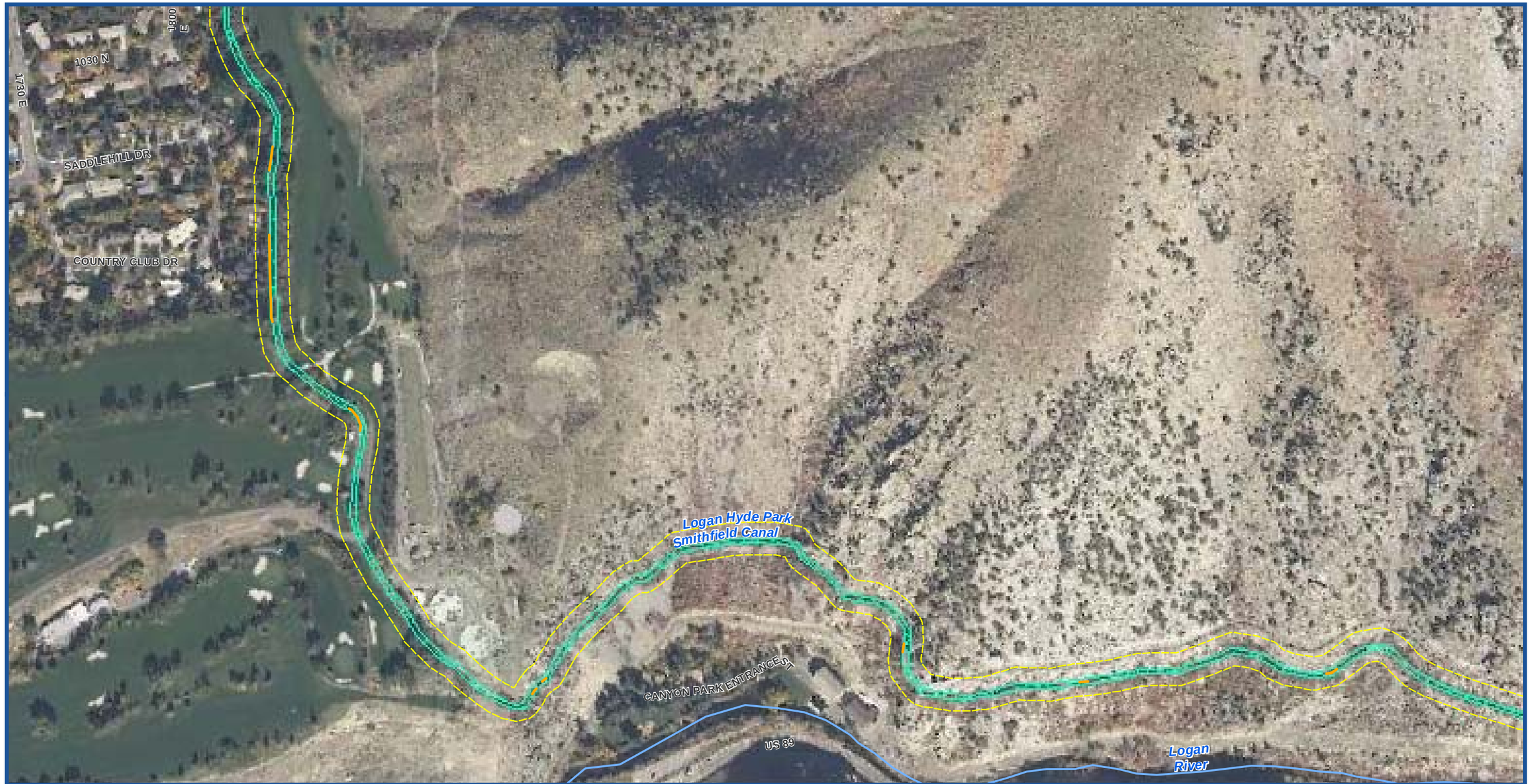


Legend

- Stream
- Artificial Capillary Fringe
- Spring Seep Area
- Water
- Wetland
- Wetland Survey Area

T12N, R1E, Section 25,36
T12N, R2E, Section 30,31

Latitude/Longitude (Center of each Map)

41.7462 -111.7833683

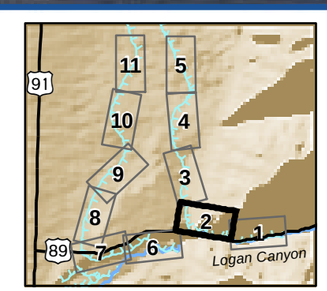
Image Date: 2009

Investigators: HDR Engineering Inc.
September 2010

N W E S

1 Inch = 300 Feet

Feet
0 150 300



Logan Northern Canal
Wetland Delineation Report

Figure 3

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

Map 2 of 11

Wednesday, January 5, 2011 9:57:03 AM
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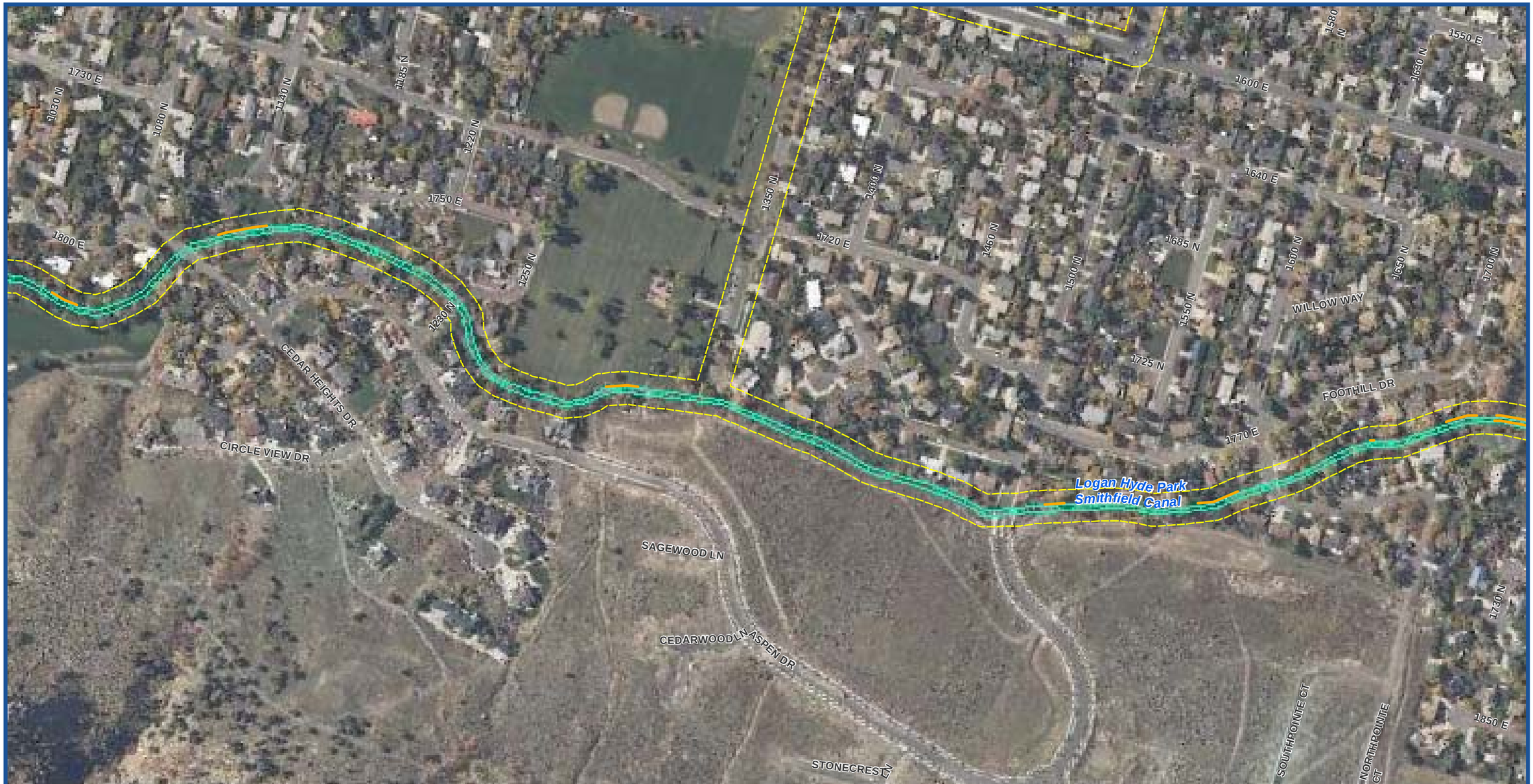


Legend

- Stream
- Artificial Capillary Fringe
- Spring Seep Area
- Water
- Wetland
- Wetland Survey Area

T12N, R1E, Section 23,24,25,26

Latitude/Longitude (Center of each Map)

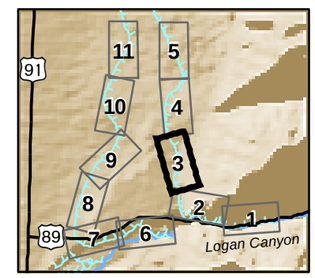
41.7562 -111.789772

Image Date: 2009

Investigators: HDR Engineering Inc.
September 2010

1 Inch = 300 Feet

0 150 300 Feet



Logan Northern Canal
Wetland Delineation Report

Figure 4

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

Map 3 of 11

Wednesday, January 5, 2011 9:57:03 AM
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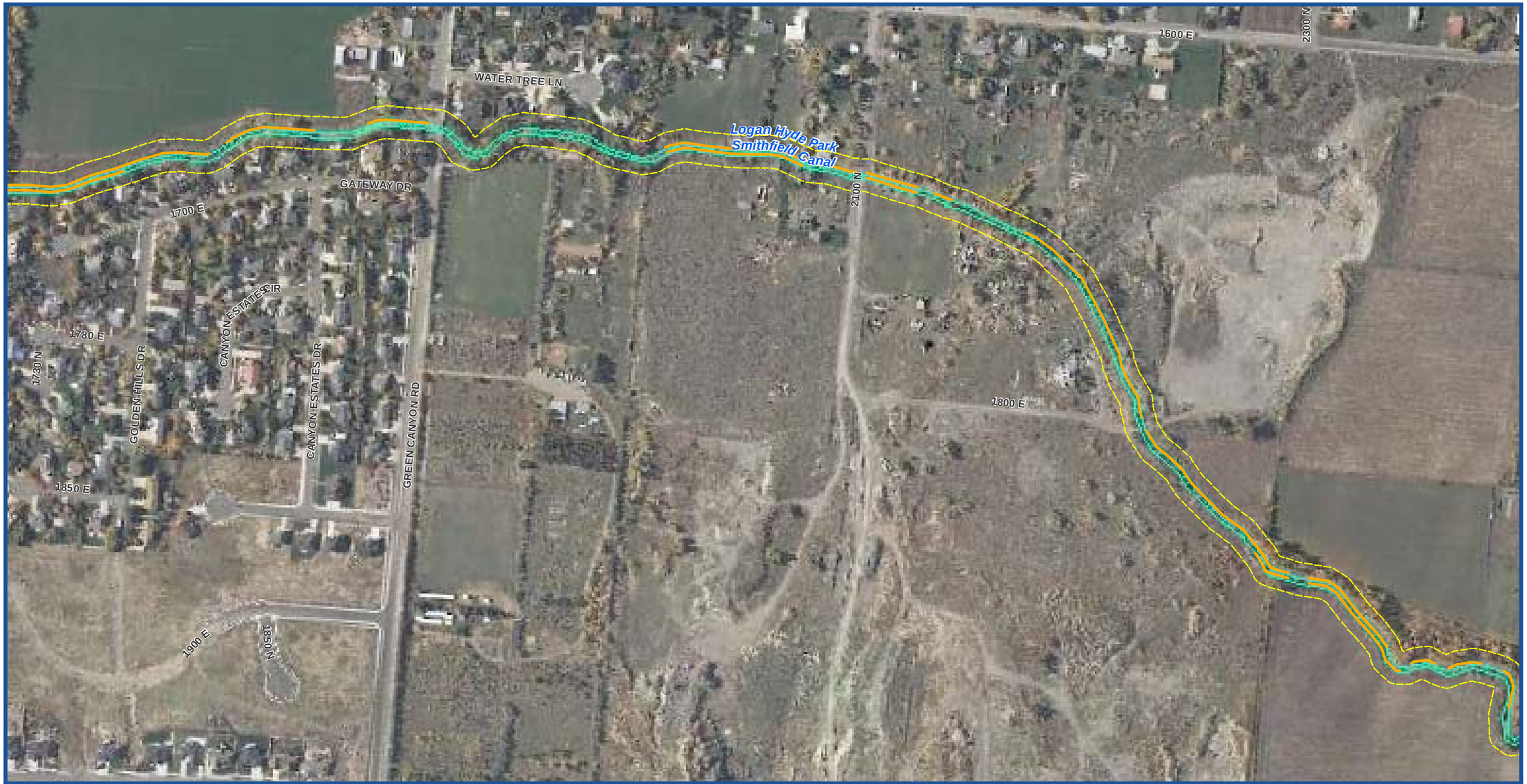


Legend

- Stream
- Artificial Capillary Fringe
- Spring Seep Area
- Water
- Wetland
- Wetland Survey Area

T12N, R1E, Section 13,14,23,24

Latitude/Longitude (Center of each Map)

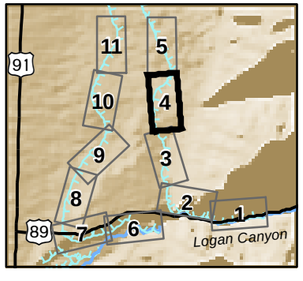
41.7687 -111.7902831

Image Date: 2009

Investigators: HDR Engineering Inc.
September 2010

1 Inch = 300 Feet

0 150 300 Feet



Logan Northern Canal
Wetland Delineation Report

Figure 5

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

Map 4 of 11

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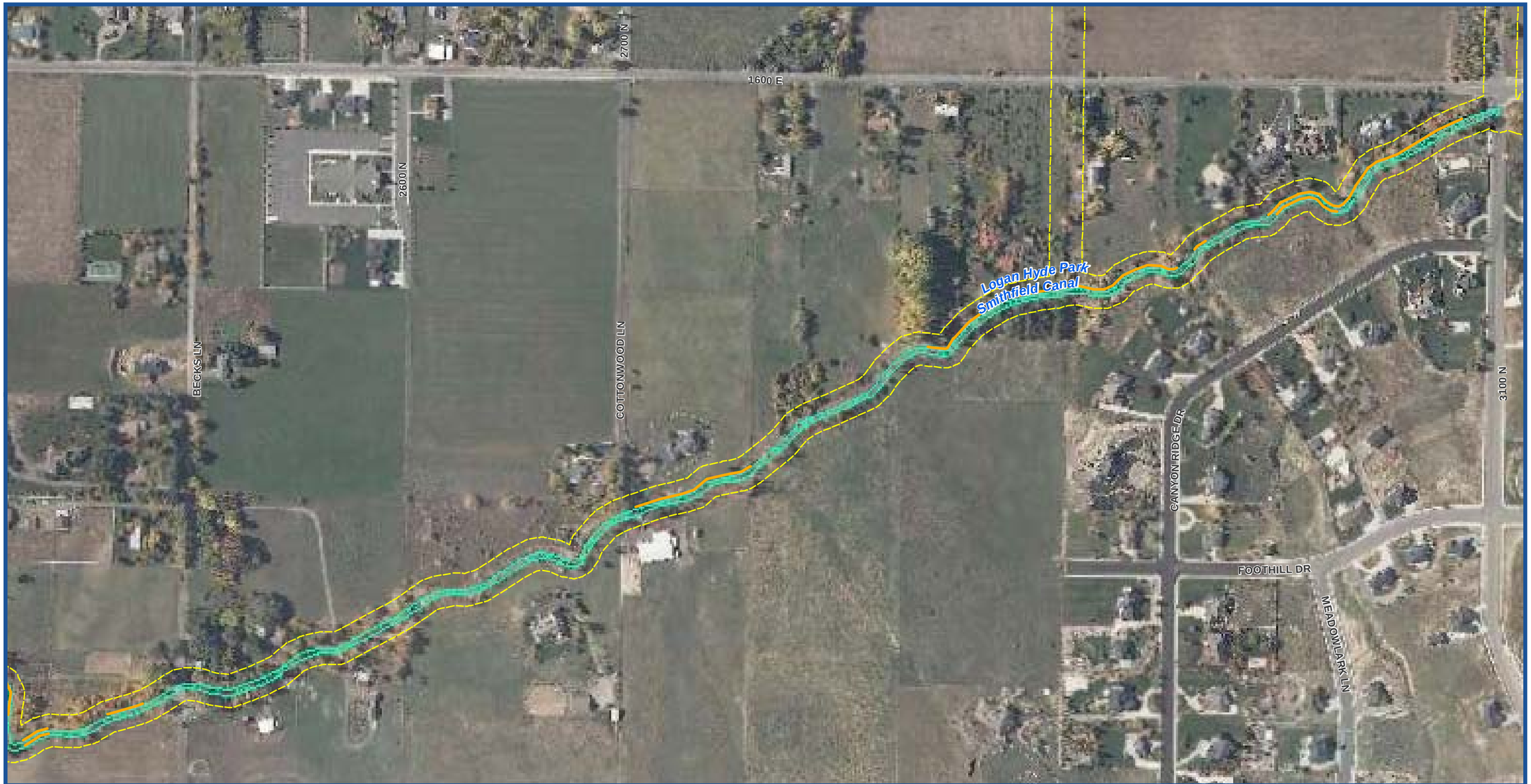


Legend

- Stream
- Artificial Capillary Fringe
- Spring Seep Area
- Water
- Wetland
- Wetland Survey Area

T12N, R1E, Section 11,12,13,14

Latitude/Longitude (Center of each Map)

41.7815 -111.7912883

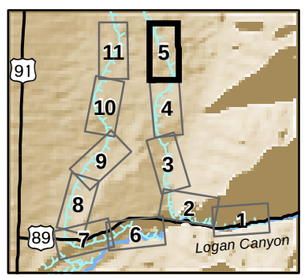
Image Date: 2009

Investigators: HDR Engineering Inc.
September 2010

W S N E

1 Inch = 300 Feet

Feet
0 150 300



Logan Northern Canal
Wetland Delineation Report

Figure 6

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

Map 5 of 11

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Legend

- Stream
- Artificial Capillary Fringe
- Spring Seep Area
- Water
- Wetland
- Wetland Survey Area

T12N, R1E, Section 25,35,36

Latitude/Longitude (Center of each Map)

41.7403 -111.7992386

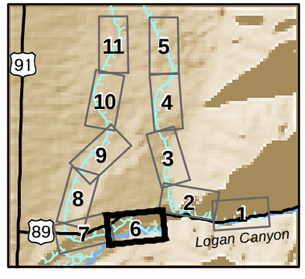
Image Date: 2009

Investigators: HDR Engineering Inc.
September 2010

N
W E
S

1 Inch = 300 Feet

Feet
0 150 300



Logan Northern Canal
Wetland Delineation Report

Figure 7

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

Map 6 of 11

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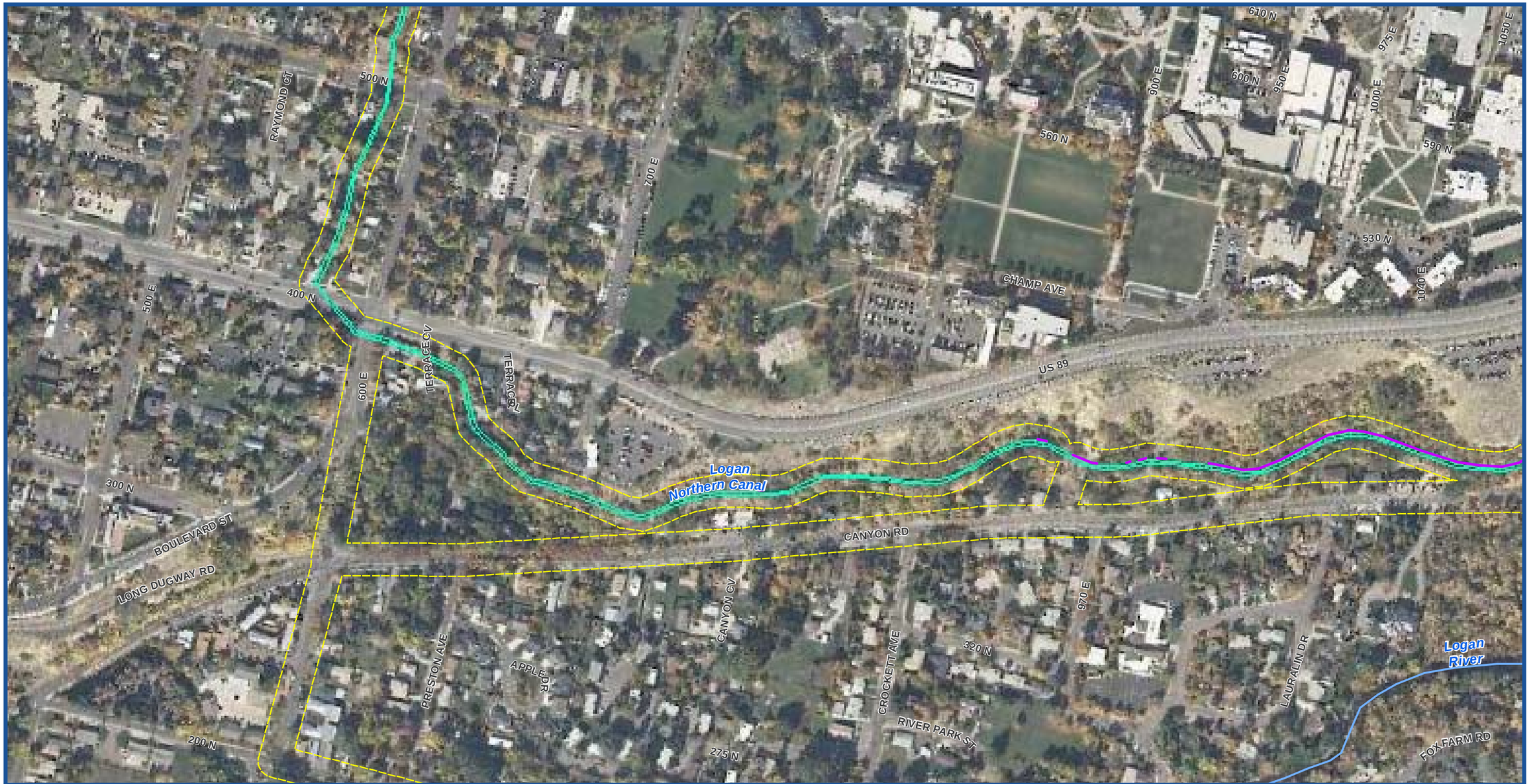


Legend

- Stream
- Artificial Capillary Fringe
- Spring Seep Area
- Water
- Wetland
- Wetland Survey Area

T12N, R1E, Section 34,35

Latitude/Longitude (Center of each Map)

41.7388 -111.8149176

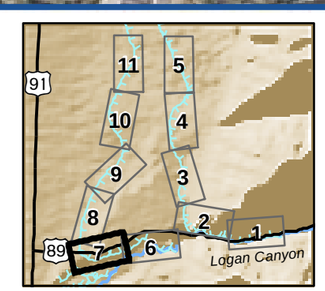
Image Date: 2009

Investigators: HDR Engineering Inc.
September 2010

N
W E
S

1 Inch = 300 Feet

Feet
0 150 300



Logan Northern Canal
Wetland Delineation Report

Figure 8

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

Map 7 of 11

Wednesday, January 5, 2011 9:57:03 AM
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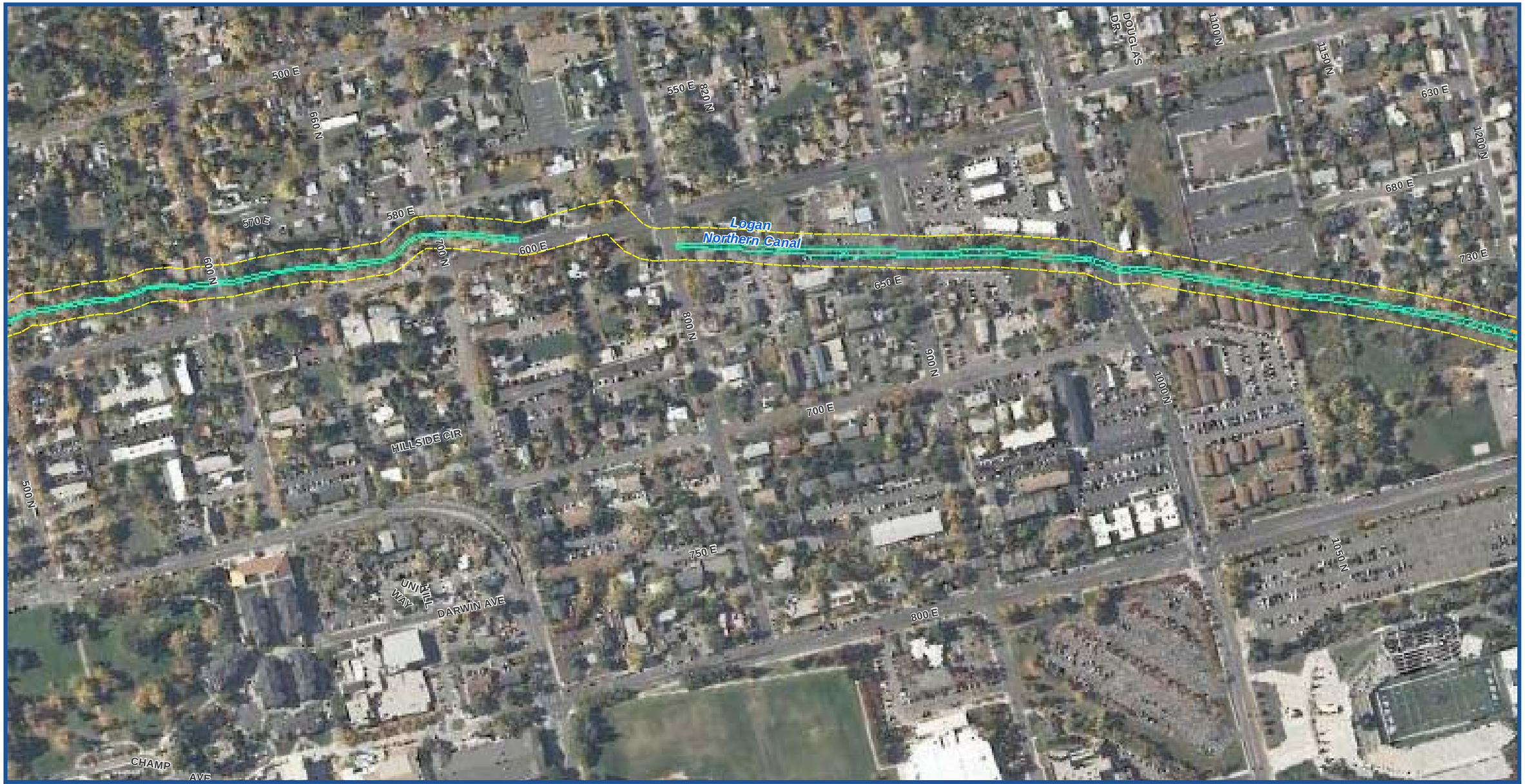


Legend

- Stream
- Artificial Capillary Fringe
- Spring Seep Area
- Water
- Wetland
- Wetland Survey Area

T12N, R1E, Section 26,27,34,35

Latitude/Longitude (Center of each Map)

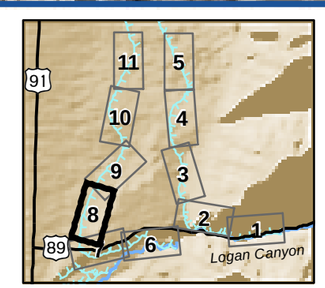
41.7468 -111.816874

Image Date: 2009

Investigators: HDR Engineering Inc.
September 2010

1 Inch = 300 Feet

Feet
0 150 300



Logan Northern Canal
Wetland Delineation Report

Figure 9

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

Map 8 of 11

Wednesday, January 5, 2011 9:57:03 AM
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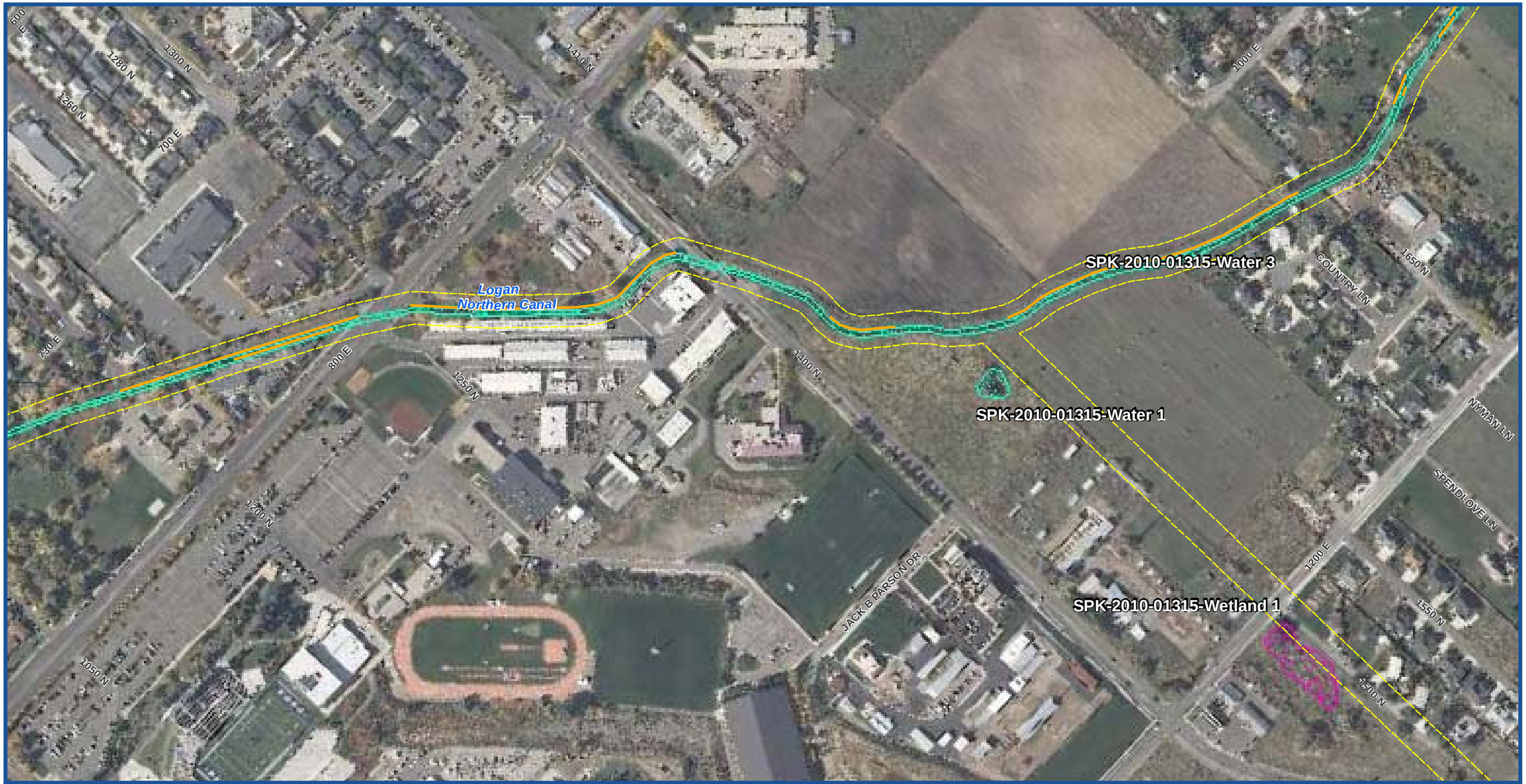


Legend

- Stream
- Artificial Capillary Fringe
- Spring Seep Area
- Water
- Wetland
- Wetland Survey Area

T12N, R1E, Section 22,23,26,27

Latitude/Longitude (Center of each Map)

41.7567 -111.8101164

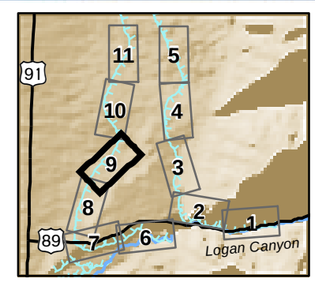
Image Date: 2009

Investigators: HDR Engineering Inc.
September 2010

N W E S

1 Inch = 300 Feet

Feet
0 150 300



Logan Northern Canal
Wetland Delineation Report

Figure 10

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

Map 9 of 11

Wednesday, January 5, 2011 9:57:03 AM
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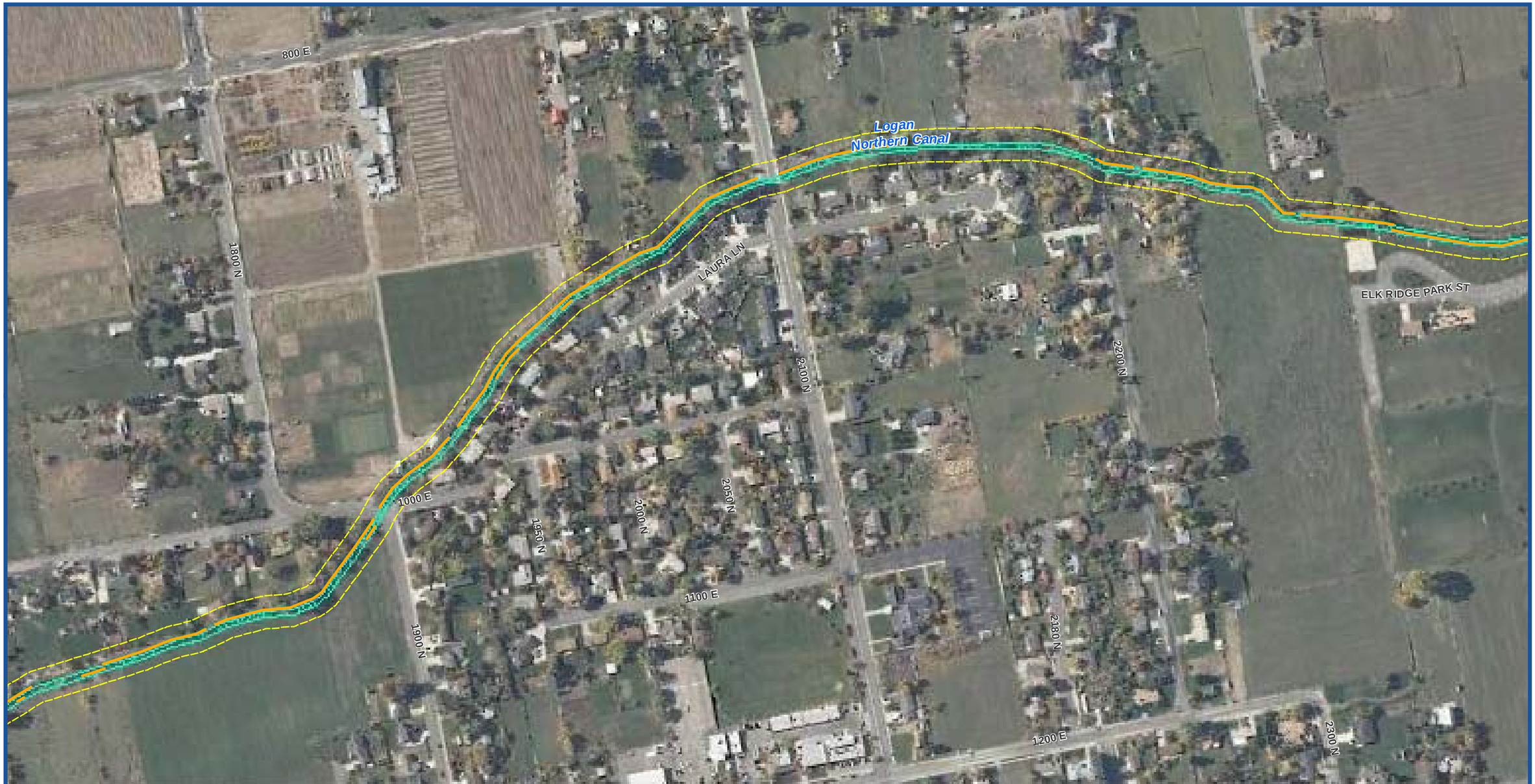


Legend

- Stream
- Artificial Capillary Fringe
- Spring Seep Area
- Water
- Wetland
- Wetland Survey Area

T12N, R1E, Section 14,22,23

Latitude/Longitude (Center of each Map)

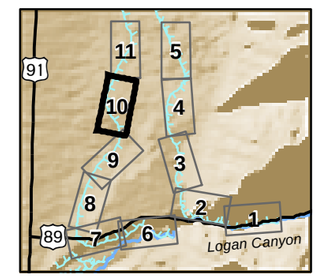
41.7689 -111.8089499

Image Date: 2009

Investigators: HDR Engineering Inc.
September 2010

1 Inch = 300 Feet

0 150 300 Feet



Logan Northern Canal
Wetland Delineation Report

Figure 11

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

Map 10 of 11

Wednesday, January 5, 2011 9:57:03 AM
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Legend

- Stream
- Artificial Capillary Fringe
- Spring Seep Area
- Water
- Wetland
- Wetland Survey Area

T12N, R1E, Section 11,14

Latitude/Longitude (Center of each Map)

41.7815 -111.8065611

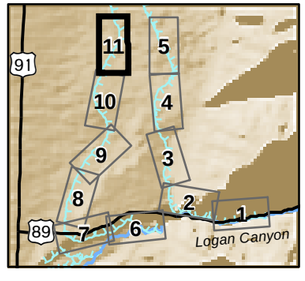
Image Date: 2009

Investigators: HDR Engineering Inc.
September 2010

W S N E

1 Inch = 300 Feet

Feet
0 150 300



Logan Northern Canal
Wetland Delineation Report

Figure 12

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

Map 11 of 11

Wednesday, January 5, 2011 9:57:03 AM
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