

EXHIBIT 'B'

TRANSFER AGREEMENT
BETWEEN
THE NATURE CONSERVANCY
AND
KENNECOTT UTAH COPPER CORPORATION

This Transfer Agreement ("Agreement") is entered into on this 15th day of June 2007 by and between The Nature Conservancy, a District of Columbia non profit corporation ("TNC") and Kennecott Utah Copper Corporation, a Delaware corporation ("Kennecott"). TNC and Kennecott are sometimes referred to individually as a "Party" and collectively as the "Parties".

1 Background and Objectives.

1.1 The United States has reached an agreement to settle certain alleged liabilities of Kennecott under the Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA"), 42 U.S.C. § 9301 *et seq.* (the "Consent Decree"). The Consent Decree addresses alleged damages for injury, destruction and loss of natural resources resulting from the release of hazardous substances by Kennecott. The Consent Decree has not been entered by the court as of the date of this Agreement but it is anticipated that it will be entered within the next 30 days.

1.2 Pursuant to the Consent Decree, to which this Agreement shall be attached as an exhibit, Kennecott has agreed to convey to TNC a parcel of land consisting of approximately 330.11 acres. Such Parcel is legally described on Exhibit A hereto as "Parcel A." Kennecott also has separately agreed to convey to TNC, as a gift, a parcel of land contiguous to Parcel A, consisting of approximately 286.13 acres. Such parcel is legally described on Exhibit A as "Parcel B." Parcels A and B are sometimes referred to collectively herein as the "Lake Point Wetlands Property." Additionally, pursuant to the Consent Decree, Kennecott has agreed to convey to TNC that certain water right described in Section 2.2 necessary for the management and restoration of the Lake Point Wetlands Property as wetlands. The Consent Decree also requires Kennecott to pay to TNC \$175,000.00 to establish an endowment to fund management and restoration actions on the Lake Point Wetlands Property in the future.

1.3 This Agreement describes the involvement and relationship between the Parties for the transfer of the Lake Point Wetlands Property and the associated water right and the establishment of the Lake Point Wetlands Property as a natural preserve. The Parties acknowledge and agree that TNC is not a party to the Consent Decree and has no liability to Kennecott or the United States under the Consent Decree.

2 Kennecott Obligations Prior to Closing.

2.1 Delivery of Reports and Information.

2.1.1 As of the date of this Agreement, Kennecott has delivered to TNC:

2.1.1.1 A Disclosure Form for Real Estate Transactions ("Disclosure Form"), completed and duly executed by Kennecott.

2.1.1.2 A topographical and boundary survey of the Lake Point Wetlands Property conducted for purposes of establishing a land boundary and legal description ("Survey"), which has been reviewed and approved by TNC. The legal description of the Lake Point Wetlands Property set forth in the Survey shall be used in the Deed (defined later) and the Title Policy (defined later).

2.1.1.3 An Hydraulic Engineering Assessment of the Lake Point Wetlands Property conducted for the purpose of determining the feasibility of constructing and operating those water conveyance facilities described in sections 2.3.2.1 and 2.3.2.2 of that certain Restoration Plan and Management Agreement dated _____ prepared by the United States Fish and Wildlife Service ("Restoration Plan"). Such Hydraulic Engineering Assessment has been reviewed by TNC.

2.1.1.4 A commitment for an extended policy of title insurance ("Commitment"), together with underlying documentation relating to exceptions to title and other documentation reasonably required by TNC to evaluate title to the Lake Point Wetlands Property. TNC has reviewed the Commitment and underlying documentation and based on such review has agreed to the Special Exceptions as defined in the Commitment and all other matters affecting title shown on the Survey (collectively, the "Permitted Exceptions"), except the Smoke Easements as noted in section 2.1.1.5 below. Prior to the closing of the transactions contemplated by this Agreement (the "Closing"), Kennecott shall use reasonable efforts to cause all title exceptions and other matters that are not Permitted Exceptions to be removed or otherwise resolved to the satisfaction of TNC, but neither party shall have any liability to the other in the event the Closing does not occur because any such exception or other matter cannot be resolved after reasonable effort.

2.1.1.5 Kennecott agrees that it shall, for itself and its successors and assigns, quitclaim, waive, and release to TNC all right, title and interest which it may hold under the easements of record listed below (the "Smoke Easements") but only as to the Lake Point Wetlands Property:

Easement reserved by American Smelting & Refining Company by Quit-Claim Deed recorded at Book 3C, Pages 285-286 of the Tooele County Records; and

Easement granted by Salt Lake Fish & Dairy Company to American Smelting & Refining Company recorded at Book D Pages 398-399 of Bounds and Agreements, Tooele County Records.

2.1.2 Within ninety (90) days after the entry of the Consent Decree by the court, Kennecott shall deliver to TNC the following:

2.1.2.1 An environmental site assessment ("ESA") of the Lake Point Wetlands Property. Such ESA shall comply with the all appropriate inquiry requirements of Comprehensive Environmental Response, Compensation and Liability Act, as amended (see 42 U.S.C. § 9601(35)(B)). The ESA shall also include an assessment of the water quality of the source of water for the water right described in Section 2.2. The ESA shall be conducted by an independent duly qualified professional expert and shall be certified to Kennecott and TNC.

2.1.2.2 An appraisal of the fair market value of each Parcel of the Lake Point Wetlands Property ("Appraisal"). The Appraisal shall be prepared by a state-certified real estate appraiser and certified to Kennecott and TNC.

2.2 Lake Point Water Right Applications. Within thirty (30) days after entry of the Consent Decree by the court, Kennecott agrees as follows:

2.2.1 Kennecott shall prepare, at its own expense, a segregation application to segregate 1 cfs from its Factory Spring Water Right No. 15-286 (the "Lake Point Water Right") and submit the draft segregation application to TNC for its review and approval prior to filing it with the Division of Water Rights. Kennecott agrees to take such actions as reasonably required by the Division of Water Rights to accomplish the segregation of the Lake Point Water Right.

2.2.2 Kennecott shall prepare, at its own expense, an application to change the place and nature of use of the Lake Point Water Right for the year-round management and restoration of the Lake Point Wetlands Property (the "Change Application"). Following a review and approval of the Change Application by TNC, the parties agree to jointly file the Change Application with the Division of Water Rights. Kennecott agrees to take such actions as reasonably required by the Division of Water Rights to secure approval of the Change Application.

2.3 Application to Install Pipeline Under Highway. Within thirty (30) days after entry of the Consent Decree by the court, Kennecott shall submit and diligently pursue approval of an application to the Utah Department of Transportation to install a pipeline underneath Interstate 80 for the purpose of transporting water from the approved point of diversion of the Lake Point Water Right to the Lake Point Wetlands Property (the "Pipeline Application"). TNC shall have the right to review and approve the Pipeline Application prior to submission, such approval not to be unreasonably withheld or delayed.

3 Kennecott's Representations and Warranties.

3.1 Kennecott has complied in all material respects with all applicable laws, ordinances, regulations, statutes and rules relating to the Lake Point Wetlands Property, and every part thereof, and has not received nor is aware of any notification from any governmental authority having jurisdiction, requiring any

work to be done on the Lake Point Wetlands Property or advising of any condition (including without limitation hazardous wastes) which would render the Lake Point Wetlands Property unusable or affect the usability of the Lake Point Wetlands Property or any part thereof as a nature preserve.

3.2 The Lake Point Wetlands Property does not contain underground tanks of any type.

3.3 Except for third party rights held under the Smoke Easements, and except as disclosed by the Survey, there are no parties or trespassers in possession or which have a right to possess all or any portion of the Lake Point Wetlands Property, and there are no leases or licenses affecting the Lake Point Wetlands Property.

3.4 No labor, materials or services have been furnished in, on or about the Lake Point Wetlands Property from which any mechanics, laborers or materialpersons' liens or claims might arise.

3.5 No person or entity has any right of first refusal, option to purchase or other similar right to or interest in the Lake Point Wetlands Property.

3.6 There is no litigation, either pending or, to the best of Kennecott's knowledge, threatened, which could now or in the future in any way constitute a lien, claim or obligation of any kind on the Lake Point Wetlands Property, affect the use, ownership or operation of the Lake Point Wetlands Property as a nature preserve, or otherwise adversely affect the Lake Point Wetlands Property. For purposes of this subsection, "litigation" includes any lawsuit, action, administrative proceeding, governmental investigation and all other proceedings before any tribunal having jurisdiction over the Lake Point Wetlands Property.

3.7 Kennecott shall indemnify, defend and hold TNC harmless from and against any claims, losses, liabilities, damages, costs and expenses (including, without limitation, reasonable attorneys', consultants' and experts' fees) arising out of the material inaccuracy of any of the representations or warranties provided by Kennecott in Sections 3.1 through 3.6, which obligation shall survive Closing for a period of ten (10) years.

4 Indemnification. Kennecott shall indemnify, defend and hold TNC harmless from and against any claims, losses, liabilities, damages, costs and expenses (including, without limitation, reasonable attorneys', consultants' and experts' fees) arising, in whole or in part, out of or in any way connected with (i) the Consent Decree or Kennecott's obligations thereunder; or (ii) use, manufacture, production, handling, storage, transportation, disposal, release or threatened release of Hazardous Materials on the Lake Point Wetlands Property prior to the Closing, including, without limitation, the cost of any required or necessary investigation, repair, restoration, cleanup, remediation or detoxification and the preparation or any closure or other required plans or studies, whether

such action is necessary before or after the transfer of title to the Lake Point Wetlands Property. The term "Hazardous Materials" shall include all substances, materials and wastes that are regulated under, or classified as hazardous or include all substances, materials and wastes that are regulated under, or classified as hazardous or toxic under, any Environmental law. The term "Environmental Law" shall mean any federal, state, or local statute, ordinance, or regulation that applies in Salt Lake County, Utah, pertaining to health, industrial hygiene, or the environment, and all rules adopted and guidelines promulgated pursuant to the foregoing. Kennecott's indemnity obligations under this paragraph shall survive the Closing, or, if title is not transferred pursuant to this Agreement, beyond any termination hereof, for a period of ten (10) years after the Closing or any termination.

5 TNC's Conditions Precedent. TNC's obligation to proceed with the Closing shall be subject to the satisfaction or waiver by TNC of the following conditions:

5.1.1 TNC shall have approved the ESA, Appraisal, and Disclosure Form in its sole discretion. In the event TNC disapproves any matter identified in the foregoing documents, Kennecott shall use reasonable efforts to cause such matter to be resolved to the satisfaction of TNC, but neither party shall have any liability to the other in the event the Closing does not occur because such matter cannot be resolved after reasonable effort.

5.1.2 The Board of Directors of TNC or its authorized designee shall have approved the transactions contemplated by this Agreement in its sole discretion.

5.1.3 The Legal Counsel of TNC responsible for this project shall have approved the transactions contemplated by this Agreement in his or her sole discretion.

5.1.4 The Utah Department of Transportation shall have approved the Pipeline Application and such approval is without conditions or limitations that are unacceptable to TNC.

5.1.5 In the event the foregoing conditions have not been satisfied or waived by TNC in writing within six (6) months after receipt of the ESA and Appraisal, either party may terminate this Agreement upon thirty (30) days prior written notice to the other party. This agreement shall terminate at the expiration of such 30-day period and the parties shall have no further obligation to each other, unless this condition has been satisfied or waived by TNC prior to such expiration.

5.1.6 At the Closing, the title company issuing the Title Report shall be prepared to issue a ALTA extended coverage policy of title insurance in the amount of the fair market value as determined by the Appraisal (the "Title Policy") ensuring fee simple title to the Lake Point Wetlands Property is vested in TNC, subject only to the Permitted Exceptions. Such policy shall include endorsements regarding accuracy of the Survey.

6 Kennecott's Conditions Precedent. Kennecott's obligation to proceed with the Closing shall be subject to the satisfaction or waiver by Kennecott of the following conditions:

6.1 The Utah Department of Transportation shall have approved the Pipeline Application and such approval is without conditions or limitations that are unacceptable to KUCC.

6.2 The Consent Decree shall have been entered by the United States District Court for the District of Utah.

6.3 The ESA shall not have disclosed any Hazardous Materials or underground tanks for which Kennecott may have duty to indemnify TNC pursuant to Sections 3 and 4.

7 Kennecott and TNC Conditions Precedent. The Parties' obligation to proceed with the Closing shall be subject to the satisfaction or waiver by the Parties of the following conditions:

7.1 The Division of Water Rights shall have approved the Change Application (and the preceding segregation), and such approval is without conditions or limitations that are unacceptable to either Party. In the event the Division of Water Rights issues a decision regarding the Lake Point Water Right or the Change Application that is unacceptable to either Party, the Parties agree to consider other options to secure TNC the water provided for in this Agreement.

7.2 The Parties shall have agreed upon a form of agreement (i) granting TNC a permanent easement to operate and maintain the water conveyance facilities to be constructed by Kennecott pursuant to the Restoration Plan where such water conveyance facilities are located on Kennecott property and (ii) governing the parties respective rights and obligations regarding the control of the associated water diversion facilities (the "Easement Agreement").

8 Closing. When all the conditions precedent set forth in Sections 5, 6, and 7 of this Agreement have been satisfied or waived in writing by TNC and Kennecott respectively, the Parties shall complete the transactions contemplated by this Agreement as follows:

8.1 Kennecott shall convey the Lake Point Wetlands Property to TNC by special warranty deed ("Deed") in the form attached hereto as Exhibit "C", subject to (i) the Permitted Exceptions (which does not include Kennecott's interest in the Smoke Easements); (ii) all real estate taxes and special taxes or assessments, or any installments of any special taxes or assessments, not due and payable on or before the Closing date, and; (iii) zoning laws and ordinances. The Deed shall include the following notice: THE INTEREST HEREBY CONVEYED IS SUBJECT TO THAT CERTAIN CONSENT DECREE ENTERED ON _____, 200__ BY THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF UTAH IN THE ACTION ENTITLED "UNITED STATES V.

KENNECOTT UTAH COPPER CORPORATION". CIVIL ACTION NO

8.2 Kennecott agrees that all taxes, assessments (including, but not limited to, water assessments or charges) and encumbrances that will be a lien against the Lake Point Wetlands Property at Closing, including all deferred taxes, whether or not a lien, and any other charges that could be imposed on the Lake Point Wetlands Property in the future by recapture or otherwise as a result of any classification of the Lake Point Wetlands Property for assessment purposes existing prior to Closing, including without limitation any compensating tax, additional tax, deferred agricultural use tax, open space tax, or any other tax deemed a roll-back tax, interest, and penalties, whether or not those charges would constitute a lien against the Lake Point Wetlands Property at settlement, shall be satisfied of record by Kennecott at or before Closing. Regular real property taxes due and payable for the year in which the Closing occurs shall be prorated as of Closing.

Kennecott shall convey the Lake Point Water Right, together with the approved Change Application, to TNC. Such conveyance shall be in the form of the water deed, attached hereto as Exhibit "D" in which Kennecott, for itself and its successors and assigns, shall subordinate its priority in the remaining portion of Water Right No. 15-286 and also in Kennecott's other Factory Spring Water Rights Nos. 15-33 and 15-278 to TNC's Lake Point Water Right and Change Application, giving TNC's Lake Point Water Right and Change Application the first priority to Factory Spring as among such water rights.

TNC shall be responsible for preparing and submitting, with the cooperation of Kennecott, any necessary conveyance reports to the Division of Water Rights.

8.3 Kennecott shall pay to TNC the sum of One Hundred Seventy Five Thousand Dollars (\$175,000.00) to establish an endowment fund for the management and restoration of the Lake Point Wetlands Property according to the terms of that certain Memorandum of Agreement dated 1-15-2008 between TNC and the United States Fish and Wildlife Service.

8.4 Kennecott shall pay the premium for the Title Policy.

9 Kennecott Obligations After Closing.

9.1 After the Closing, Kennecott shall undertake at its own risk and expense the following activities as described in the Restoration Plan:

9.1.1 Weeding and seeding responsibilities as set forth in Section 2.3.2 of the Restoration Plan.

9.1.2 Repair of fences as set forth in Section 2.3.2 of the Restoration Plan.

9.1.3 Grading of roads as set forth in 2.3.2 of the Restoration Plan.

9.1.4 Removal of structures and debris as set forth in Section 2.3.2 of the Restoration Plan.

9.1.5 Construction of a diversion structure and conveyance system as set forth in Section 2.3.2.2 of the Restoration Plan.

9.1.6 Obtain all appropriate and necessary permits for undertaking the above-listed activities.

9.2 The activities set forth in Section 9.1 shall, subject to typical force majeure events beyond the reasonable control of Kennecott, be commenced and completed during the first construction season (June to September) following the Closing. Kennecott and TNC shall enter into an access agreement for such construction in the form attached hereto as Exhibit "D".

9.3 Upon completion of the matters set forth in Section 9.1, the Parties shall execute and deliver to each other the Easement Agreement.

10 Notices. All notices, requests, demands, and other communications hereunder shall be in writing and shall be given by: (i) established express delivery service which maintains delivery records; (ii) hand delivery; or (iii) first-class mail, postage prepaid, to the Parties at the following addresses, or at such other address as the Parties may designate by written notice in the above manner:

To Kennecott: Kennecott Utah Copper Corporation
8291 West 3595 South
P.O. Box 6001
Magna, Utah 84044
Attn: Kelly Payne
Fax: 801-569-7150

With a copy to: Kennecott Utah Copper Corporation
8291 West 3595 South
P.O. Box 6001
Magna, Utah, 84044
Attn: Kenneth Barrett, Associate General Counsel
Fax: 801-569-6807

To TNC: The Nature Conservancy
Utah Field Office
559 East South Temple
Salt Lake City, UT 84102
Attn: Elizabeth Kitchens, Senior Attorney

and Chris Montague, Director of Conservation Programs
Fax: 801 531-1003

Communications may also be given by fax, provided the communication is concurrently given by one of the above methods. Notices are effective upon receipt, or upon attempted delivery if delivery is refused or if delivery is impossible because of the recipient's failure to provide a reasonable means for accomplishing delivery.

11 Miscellaneous. The terms, covenants and conditions herein contained shall be binding upon and inure to the benefit of the Parties and their heirs, successors, transferees and assigns. Neither Kennecott nor TNC shall assign this Agreement or any rights hereunder to anyone except with the prior written consent of the other Party. This Agreement constitutes the entire agreement between the Parties with respect to the subject matter hereof and may only be modified by a subsequent writing executed by both Parties. This Agreement shall be interpreted and construed only by the contents hereof, and there shall be no presumption or standard of construction in favor of or against either Kennecott or TNC. This Agreement shall be construed and enforced in accordance with, and governed by, the law of the state of Utah. The individuals executing this Agreement represent and warrant that they have the power and authority to do so, and to bind the entities for whom they are executing this Agreement.

This Agreement has been executed as of the date first written above.

Kennecott:

TNC:

KENNECOTT UTAH COPPER CORPORATION,
a Delaware corporation

THE NATURE CONSERVANCY,
a District of Columbia non profit corporation

By: Kay Priestly
Kay Priestly, Vice President and Chief Financial Officer

By: David Livermore
David Livermore, Vice President and Utah State Director

- Exhibit A – Lake Point Wetlands Legal Description
- Exhibit B – Description of Lake Point Water Right
- Exhibit C – Form of Deed with Permitted Exceptions
- Exhibit D – Form of Water Deed
- Exhibit E – Form of Access Agreement

Exhibit "A"

Lake Point Wetlands Legal Description

PARCEL A

A PARCEL OF LAND SITUATE IN SECTIONS 4, 5 AND 8, TOWNSHIP 2 SOUTH, RANGE 4 WEST, SALT LAKE BASE AND MERIDIAN AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE CENTER OF SAID SECTION 4, SAID POINT BEING 2673.00 FEET NORTH 0°09'41" EAST ALONG THE EAST LINE OF SAID SECTION 4 AND 2661.99 FEET NORTH 89°37'52" WEST ALONG THE QUARTER SECTION LINE (CENTER) FROM THE SOUTHEAST CORNER OF SAID SECTION 4, TOWNSHIP 2 SOUTH, RANGE 4 WEST, SALT LAKE BASE AND MERIDIAN (SAID POINT ALSO BEING SOUTH 40°09'54" WEST 727.19 AND SOUTH 00°32'03" WEST 2122.80 FEET FROM A MEANDER CORNER OF THE GREAT SALT LAKE ALONG THE NORTH LINE OF SAID SECTION 4); AND RUNNING THENCE NORTH 0°32'03" EAST ALONG THE QUARTER SECTION LINE (CENTER) OF SAID SECTION 4 AND AN EXISTING NORTH-SOUTH FENCELINE A DISTANCE OF 2122.80 FEET TO THE INTERSECTION OF SAID QUARTER SECTION LINE WITH THE MEANDER LINE OF THE GREAT SALT LAKE (1856 SURVEY AND THE 1968 RESURVEY AND REMONUMENTATION ESTABLISHED BY THE BUREAU OF LAND MANAGEMENT); THENCE ALONG SAID MEANDER LINE THE FOLLOWING SIX (6) COURSES: THENCE (1) SOUTH 40°09'54" WEST 797.91 FEET; THENCE (2) SOUTH 62°39'54" WEST 998.97 FEET; THENCE (3) SOUTH 69°39'54" WEST 1331.96 FEET TO THE WEST LINE OF SAID SECTION 4; THENCE (4) SOUTH 65°39'54" WEST 2104.49 FEET; THENCE (5) SOUTH 61°39'54" WEST 2330.92 FEET; THENCE (6) SOUTH 53°29'25" WEST 1685.58 FEET TO THE WEST LINE OF SAID SECTION 5, TOWNSHIP 2 SOUTH, RANGE 4 WEST SALT LAKE BASE AND MERIDIAN (POINT ALSO BEING A PROJECTION OF AN EXISTING NORTH-SOUTH FENCELINE); THENCE SOUTH 0°14'07" EAST 316.16 FEET, MORE OR LESS, TO THE SOUTHWEST CORNER OF SAID SECTION 5; THENCE SOUTH 0°14'07" EAST 1453.93 FEET ALONG THE WEST LINE OF SAID SECTION 8, TOWNSHIP 2 SOUTH, RANGE 4 WEST, SALT LAKE BASE AND MERIDIAN TO THE NORTH LINE OF SAID INTERSTATE 80 (SAID POINT ALSO BEING AN INTERSECTION WITH A 25205.20 FOOT RADIUS CURVE TO THE LEFT); THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE A DISTANCE OF 3074.86 FEET THROUGH A CENTRAL ANGLE OF 6°59'23" (CHORD DIRECTION BEARS NORTH 83°07'00" EAST 3072.95 FEET); THENCE NORTH 0°12'07" EAST PARALLEL WITH THE WEST LINE OF SAID SECTION 8 A DISTANCE OF 1099.53 FEET TO A POINT ON THE SOUTH LINE OF SAID SECTION 5; THENCE NORTH 39°56'39" EAST 3527.21 FEET, MORE OR LESS, TO THE WEST QUARTER CORNER OF SAID SECTION 4; THENCE

SOUTH 89°37'52" EAST 2628.66 FEET ALONG THE QUARTER SECTION LINE (CENTER) TO THE POINT OF BEGINNING.

CONTAINS 330.11 ACRES, MORE OR LESS

PARCEL B

A PARCEL OF LAND SITUATE IN SECTIONS 4, 5, 8 AND 9, TOWNSHIP 2 SOUTH, RANGE 4 WEST, SALT LAKE BASE AND MERIDIAN AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTH RIGHT-OF-WAY LINE OF INTERSTATE 80 (PROJECT # I-80-2(3)79), SAID POINT BEING 2679.44 FEET NORTH 89°51'24" WEST ALONG THE SOUTH LINE OF SAID SECTION 4 AND 308.94 FEET NORTH 0°32'03" EAST ALONG THE QUARTER SECTION LINE (CENTER) FROM THE SOUTHEAST CORNER OF SAID SECTION 4, TOWNSHIP 2 SOUTH, RANGE 4 WEST, SALT LAKE BASE AND MERIDIAN (SAID POINT ALSO BEING SOUTH 0°50'10" WEST 52.98 FEET FROM A FOUND ALUMINUM CAP STAMPED "ESI ENGINEERING" AND BEING AT STATION 5068+12.96 OF SAID PROJECT I-80-2(3)79; AND RUNNING THENCE NORTH 0°32'03" EAST ALONG SAID QUARTER SECTION LINE (CENTER) OF SAID SECTION 4 AND AN EXISTING NORTH-SOUTH FENCELINE A DISTANCE OF 2374.60 FEET, MORE OR LESS, TO THE CENTER OF SAID SECTION 4; THENCE NORTH 89°37'52" WEST 2628.66 FEET, MORE OR LESS, ALONG SAID QUARTER SECTION LINE (CENTER) TO THE WEST QUARTER CORNER OF SAID SECTION 4; THENCE SOUTH 39°56'39" WEST 3527.21 FEET, MORE OR LESS TO A POINT ON THE SOUTH LINE OF SAID SECTION 5; THENCE SOUTH 0°12'07" WEST 1099.53 FEET TO THE NORTH LINE OF SAID INTERSTATE 80 (SAID POINT ALSO BEING AN INTERSECTION WITH A NON-TANGENT 25205.20 FOOT RADIUS CURVE TO THE LEFT); THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE A DISTANCE OF 2336.74 FEET THROUGH A CENTRAL ANGLE OF 5°18'42" (CHORD DIRECTION BEARS NORTH 76°57'58" EAST 2335.90 FEET) TO A POINT ON THE EAST LINE OF SAID SECTION 8; THENCE CONTINUING NORTHEASTERLY ALONG THE ARC OF SAID 25205.20 FOOT RADIUS CURVE TO THE LEFT A DISTANCE OF 1889.22 FEET THROUGH A CENTRAL ANGLE OF 4°17'40" (CHORD DIRECTION BEARS NORTH 72°09'46" EAST 1888.78 FEET) TO A POINT ON THE SOUTH LINE OF SAID SECTION 4; THENCE CONTINUING ALONG NORTHEASTERLY ALONG THE ARC OF SAID 25205.20 FOOT RADIUS CURVE TO THE LEFT A DISTANCE OF 858.07 FEET THROUGH A CENTRAL ANGLE OF 1°57'02" (CHORD DIRECTION BEARS NORTH 69°02'25" EAST 858.03 FEET) TO THE POINT OF BEGINNING.

CONTAINS 286.13 ACRES, MORE OR LESS.

Exhibit "B"

Description of Lake Point Water Right

One cubic foot per second (1 cfs) to be segregated from Water Right No. 15-286.

Exhibit "C"

Form of Special Warranty Deed

Special Warranty Deed

When Recorded Return To:

Send Tax Notices To:

Date: _____

For and in consideration of the sum of ten dollars (\$10) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, KENNECOTT UTAH COPPER CORPORATION, a Delaware corporation, whose address is 8315 West 3595 South, P.O. Box 6001, Magna, Utah 84044-6001 ("Grantor"), hereby conveys and warrants title against all acts by, through, or under the Grantor only, to THE NATURE CONSERVANCY, a District of Columbia non-profit corporation with an address at _____ ("Grantee"), of all the real property, together with the improvements, if any, situate, lying and being in Tooele County, State of Utah and described on Schedule A attached hereto and made a part hereof ("Property").

This conveyance is subject to those matters set forth on Schedule B attached hereto and made part hereof. Notwithstanding Schedule B, Grantor, for itself and its successors and assigns, quitclaims, waives and releases to Grantee all right title and interest that Grantor may hold pursuant to the easements of record listed below, but only with respect to the Property:

Easement reserved by American Smelting & Refining Company by Quit-Claim Deed recorded at Book 3C, Pages 285-286 of Tooele County Records.

Easement granted by Salt Lake Fish & Dairy Company to American Smelting & Refining Company recorded at Book D, Pages 398-399 of Bounds and Agreements, Tooele County Records.

This conveyance is subject to that certain Consent Decree entered on _____, 2007 by the United States District Court for the District of Utah in the action entitled "United States v. Kennecott Utah Copper Corporation", Civil Action No. _____.

The Grantor has executed this Special Warranty Deed on the date set forth above.

Kennecott Utah Copper Corporation

By: _____

Its _____

STATE OF UTAH)
) ss.
COUNTY OF SALT LAKE)

This instrument was acknowledged before me on this ___ day of _____, 2007, by _____ as _____ of Kennecott Utah Copper Corporation

Notary Public
Residing at: _____

[SEAL]

SCHEDULE A – LEGAL DESCRIPTION OF PROPERTY

[INSERT DEED AND METES AND BOUNDS DESCRIPTION FROM SURVEY]

SCHEDULE B – PERMITTED EXCEPTIONS

Exhibit "D"

Form of Water Deed

When Recorded Return To:

WATER DEED

Kennecott Utah Copper Corporation, a Delaware corporation, ("Grantor") hereby grants and conveys all of its right, title and interest in Water Right No. _____ and approved Change Application _____ (the "Conveyed Water Right") to The Nature Conservancy, a District of Columbia non-profit corporation ("Grantee") for the sum of Ten Dollars (\$10.00) and other good and valuable consideration.

Grantor, for itself and its successors and assigns, hereby subordinates its priority in Water Right Nos. 15-286, 15-33 and 15-278 to the Conveyed Water Right, such that the Conveyed Water Right shall have first priority as to Water Right Nos. 15-286, 15-33 and 15-278.

IN WITNESS WHEREOF, the Grantor has caused this Water Deed to be executed by its duly authorized officer this _____ day of _____, 2007.

GRANTOR:

Kennecott Utah Copper Corporation

By: _____

Its: _____

STATE OF UTAH)
)
) : ss
COUNTY OF _____)

The foregoing Water Deed was acknowledged before me this _____
day of _____, 2007, by _____ on behalf
of Kennecott Utah Copper Corporation.

Notary Public
Residing at: _____

My Commission Expires:

Exhibit A

LEGAL DESCRIPTION OF PROPERTY

LEGAL DESCRIPTION FOR PROPERTY TO WHICH SUBORDINATED WATER RIGHTS ARE APPURTENANT.

EXHIBIT "E"

Form of Access Agreement

Temporary Construction License Agreement

THIS TEMPORARY CONSTRUCTION LICENSE AGREEMENT ("Agreement") is entered into as of this ____ day of _____, 200__ ("Effective Date"), by and between The Nature Conservancy, a District of Columbia non profit corporation ("Grantor"), and Kennecott Utah Copper Corporation, a Delaware corporation ("Grantee"), with reference to the following:

- A. Grantor acquired from Grantee that certain real property located in Tooele County, Utah, and more particularly described on Exhibit A ("the Property"), attached hereto and incorporated herein by reference, pursuant to the Transfer Agreement between the parties dated effective _____.
- B. In accordance with the Transfer Agreement, Grantee is required to conduct property restoration and construction activities in furtherance of the Restoration Plan described in the Transfer Agreement.
- C. Grantor is willing to grant to Grantee a temporary license to conduct such activities and for pedestrian and vehicular access to and from the Property, subject to the terms and provisions of this Agreement.

FOR GOOD AND VALUABLE CONSIDERATION, Grantor and Grantee agree as follows:

1. Grant of License. Subject to the terms and conditions set forth in this Agreement, Grantor hereby grants to Grantee a temporary license ("License") to use the Property for the following activities, as more particularly described in the Construction Plan attached hereto as Exhibit B and incorporated herein by reference, and all activities reasonably necessary or related thereto:

Weeding and seeding activities;
Repair of fences;
Grading of roads;
Removal of structures and debris; and
Construction of a water diversion structure and conveyance channel.

Except as specified in the Construction Plan, the Grantee shall not make any additions or alterations to the Property without the Conservancy's prior written consent. All activities conducted by Grantee under this Agreement shall be considered the sole responsibility of Grantee, and such work shall be without any cost or expense to the Conservancy.

2. Term. The term ("Term") of the License shall commence upon the Effective Date and shall terminate 12 months after the Effective Date, or 30 days from the date of a written notice to Grantee by Grantor of Grantor's intent to terminate the License, whichever occurs first.

3. Location of Construction Materials. All construction trailers and other mobile work and storage facilities, if any, shall be located only within a site approved in advance by Grantor in writing, which approval shall not be unreasonably withheld.

4. Grantor's Reserved Rights. Subject to the terms and provisions hereof, Grantor reserves the right to cross over or under the Property, to place or grant other easements along, across, or under the Property, and to otherwise undertake activities on the Property, so long as such uses and improvements do not unreasonably impair or diminish Grantee's rights under this Agreement.

5. Minimal Impact; Restoration. All activities conducted by Grantee under this Agreement shall be conducted consistent with the Restoration Plan and Construction Plan and shall be performed according to the highest standards of care. Prior to the expiration of the Term, Grantee shall remove all equipment and materials from the Property, and shall re-contour and revegetate disturbed areas, as reasonably requested by Grantor and as required by permits.

6. Permits and Approvals. Grantee shall not make or allow any unlawful use of the Property. Prior to commencement of activities on the Property, Grantee shall obtain all permits, licenses, variances, and approvals required by governmental agencies to conduct its activities on the Property. Grantee shall indemnify, defend, protect and hold Grantor and its officers, directors, employees and agents harmless for, from and against any and all causes of action, claims, liabilities, losses, damages, costs and expenses (including reasonable attorneys' fees and court costs) arising out of or related to a violation of the terms and conditions of the permits or laws under which such permits are issued as a result of Grantee's activities on the Property.

Grantee shall not apply any herbicides, biocides, defoliants, chemical fertilizers, pesticides, or other chemicals, except as approved in the Restoration Plan or otherwise by advance written consent from the Conservancy in each instance. Nor may Grantee engage in any burning of vegetation without prior written approval from the Conservancy. The authorized use of chemicals, if any, shall be in strict compliance with applicable federal, state and local laws and regulations, including but not limited to labeling instructions and other provisions regarding the use of such substances.

7. Default. A failure by Grantee to observe and perform any term or condition of this Agreement, where such failure continues for 10 days after written notice thereof by Grantor to Grantee, shall constitute a default under this

Agreement by Grantee. In the event of any such default, Grantor may, at any time thereafter, without limiting Grantor in the exercise of any right or remedy at law or in equity which Grantor may have by reason of such default or breach:

(i) Terminate the License, in which case Grantee shall immediately surrender possession and/or use of the Property to Grantor in the condition specified in this Agreement; or

(ii) Recover from Grantee all damages incurred by Grantor by reason of Grantee's default.

8. Indemnity. Grantee shall indemnify, defend and hold harmless Grantor and its officers, directors, employees and agents from and against any and all losses, damages, causes of action, claims, liabilities, costs and expenses (including, without limitation, reasonable attorneys' fees and costs of litigation) (collectively, "Grantor Claims") suffered or incurred by or asserted against Grantor arising from or relating to Grantee and its employees', agents' and contractors' use of the Property, including, but not limited to, the discharge of Hazardous Substances in violation of Environmental Laws, excluding only Grantor Claims arising from the negligence or willful misconduct of Grantor, its officers, directors, employees or agents. As used herein, the term "Hazardous Substances" shall be interpreted broadly to include, but not be limited to, any material or substance that is defined, regulated or classified under federal, state, or local laws, including without limitation, as: (i) a "hazardous substance" pursuant to section 101 of the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. §9601(14), section 311 of the Federal Water Pollution Control Act, 33 U.S.C. §1321, as now or hereafter amended; (ii) a "hazardous waste" pursuant to section 1004 or section 3001 of the Resource Conservation and Recovery Act, 42 U.S.C. §§6903, 6921, as now or hereafter amended; (iii) a toxic pollutant under section 307(a)(1) of the Federal Water Pollution Control Act, 33 U.S.C. §1317(a)(1); (iv) a "hazardous air pollutant" under section 112 of the Clean Air Act, 42 U.S.C. §7412, as now or hereafter amended; (v) a "hazardous material" under the Hazardous Materials Transportation Uniform Safety Act of 1990, 49 U.S.C. App. §1802(4), as now or hereafter amended; (vi) a toxic or hazardous material or substance pursuant to regulations promulgated now or hereafter under the aforementioned laws or any state or local counterpart to any of the aforementioned laws; (vii) presenting a risk to human health or the environment under other applicable federal, state or local laws, ordinances, or regulations, as now or as may be passed or promulgated in the future; or (viii) any substance that after release into the environment and upon exposure, ingestion, inhalation, or assimilation, either directly from the environment or directly by ingestion through food chains, will or may reasonably be anticipated to cause death, disease, behavior abnormalities, cancer, or genetic abnormalities. "Hazardous Substances" specifically includes, but is not limited to, asbestos, polychlorinated biphenyls, radioactive materials including naturally occurring radionuclides, petroleum and petroleum-based

derivatives, and urea formaldehyde. The term "Environmental Laws" shall mean federal, state or local law, regulation, ordinance or the like governing, addressing or relating to Hazardous Substances.

9. Insurance. Prior to commencing any construction activities on the Property, Grantee shall obtain and shall require its contractor and any subcontractors to obtain and thereafter maintain adequate bodily injury and property damage insurance coverage for its activities so long as such activities are occurring or this Agreement is in effect.

10. Not a Public Dedication. Nothing contained in this Agreement shall be deemed to be a gift or a dedication of any portion of the Property to or for the general public or for any public purpose whatsoever, it being the intent of the parties that this Agreement be strictly limited to and for the purposes expressed herein.

11. Notices. All notices, requests, demands or other communications hereunder shall be in writing and shall be delivered by personal delivery, overnight mail or delivery service, facsimile, or United States registered or certified mail, return receipt requested, postage prepaid, addressed as follows:

If to Grantor:

The Nature Conservancy
Utah Chapter
559 East South Temple
Salt Lake City, UT 84102
Telephone: 801 331-0999
Fax: 801 531-1003
Attention: Director of Conservation
Programs

With a required copy to:

The Nature Conservancy
Legal Dept.
559 East South Temple
Salt Lake City, UT 84102
Telephone: 801 238-2338
Fax: 801 531-1003

If to Grantee:

and with a required copy to:

or to such other address as any party may from time to time designate by notice in writing to the other parties. Any such notice, request, demand or communication shall be deemed to have been given on the date of personal delivery, or deposit with the U.S. postal service or overnight courier, or of

successful facsimile transmission. The refusal to accept delivery by any party or the inability to deliver any communication because of a changed address of which no notice has been given in accordance with this Paragraph shall constitute delivery.

12. No Relationship. The parties do not, by this Agreement nor by any parties' acts, become principal and agent, limited or general partners, joint ventures or of any other similar relationship of each other in the conduct of their respective businesses, or otherwise.

13. Cooperation. The parties agree to cooperate reasonably to attempt to resolve any disputes that may arise in the future between them with respect to the parties' use of the Property and this License.

14. No Waiver. Failure of a party to insist upon strict performance of any provisions of this Agreement shall not be construed as a waiver for future purposes with respect to any such provision or option. No provision of this Agreement shall be waived unless such waiver is in writing and signed by the party alleged to have waived its rights.

15. Authority. The undersigned represent and warrant that each of them has been duly authorized by all necessary corporate or company action, as appropriate, to execute this Agreement for and on behalf of the respective parties. The undersigned further represent and warrant that this Agreement, when fully executed, shall constitute a legal, valid, and binding agreement for each of the respective parties, enforceable in accordance with its terms.

16. Costs and Expenses and Remedies Upon Breach. In the event of a breach in any of the covenants or agreements contained herein by Grantor or Grantee only, the breaching party shall pay all costs and expenses, including reasonable attorneys' fees, which may arise or accrue from enforcing this agreement or in pursuing any remedy provided by the laws of the State of Utah, whether such remedies are pursued by filing suit or otherwise.

17. Enforcement. Each party shall have the full power and authority to enforce compliance with this Agreement in any manner provided for in law or in equity, including without limitation, the right to bring an action for damages, to enjoin the violation, or specifically enforce the provisions of this Agreement.

18. Successors and Assigns. This Agreement shall be binding upon and inure to the benefit of the parties and their respective heirs, executors, administrators, successors, legal representatives, and assigns.

19. Interpretation; Survival. The paragraph headings in this Agreement are for convenience only and shall not be considered or referred to in resolving questions of interpretation and construction. The use of the singular in this

Agreement shall include the plural, where the context is otherwise appropriate. The indemnification provisions of this Agreement shall survive the termination or expiration of this Agreement.

20. Amendment. The parties may amend this Agreement only by a written instrument executed by the parties.

21. Partial Invalidity. If any provision of this Agreement or the application thereof to any person or circumstance shall to any extent be held invalid, the remainder of this Agreement or the application of such provision to persons or circumstances other than those as to which it is held invalid shall not be affected thereby and each provision of this Agreement shall be valid and enforced to the fullest extent permitted by law.

22. Counterparts. This Agreement may be executed in one or more counterparts, which together shall constitute the Agreement.

23. Time is of the Essence. Time is of the essence with respect to all dates and deadlines in this Agreement.

24. Applicable Law. This Agreement shall be governed by and construed in accordance with and interpreted under the laws of the State of Utah.

25. Recitals Incorporated. The Recitals set forth above are true and correct and are incorporated herein by this reference.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

GRANTOR:

THE NATURE CONSERVANCY,
a District of Columbia non-profit corporation

By: _____
Print Name: _____
Title: _____

GRANTEE:

KENNECOTT UTAH COPPER CORPORATION,
a Delaware corporation

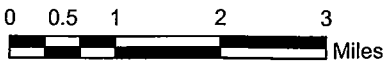
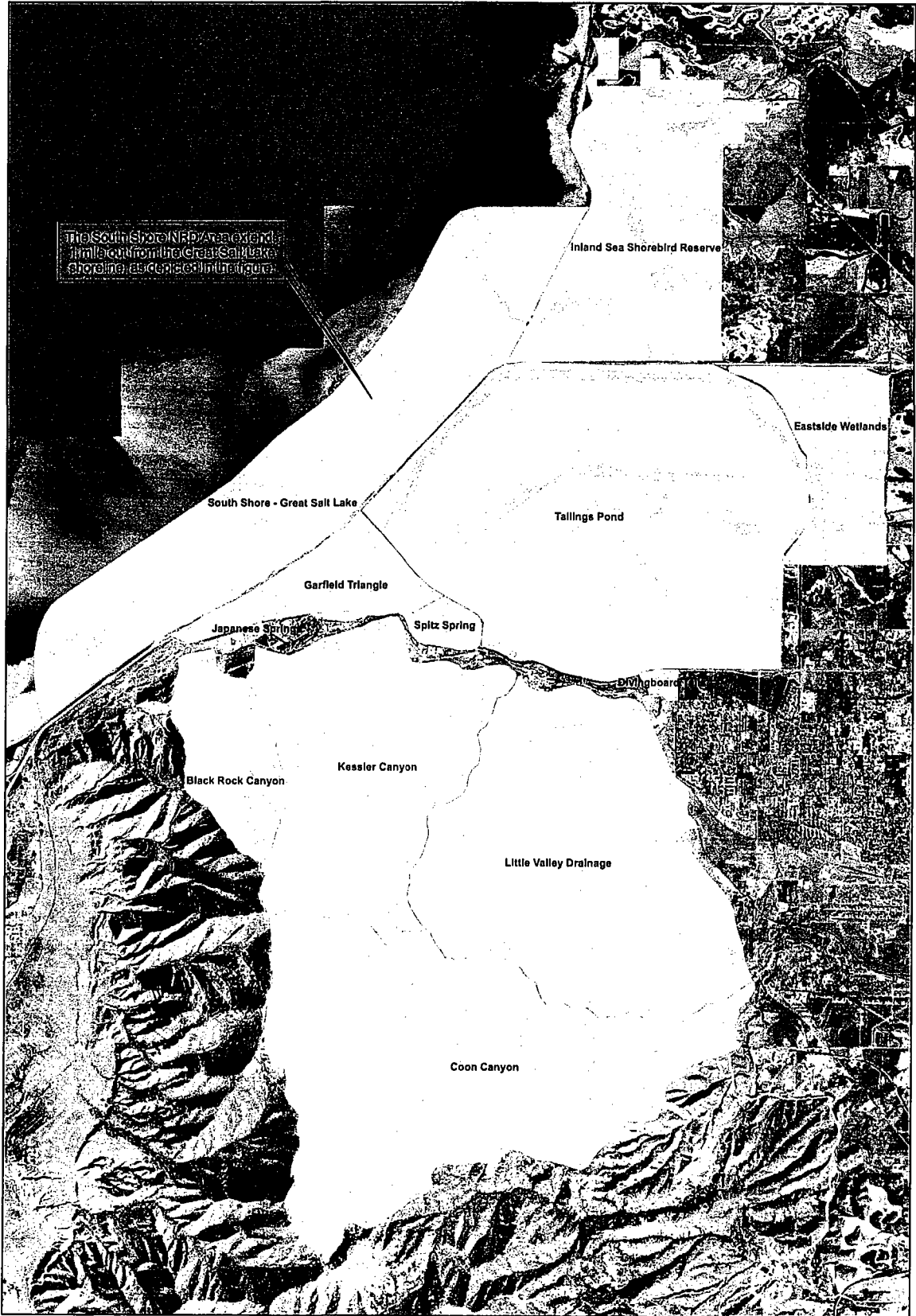
By: _____
Print Name: _____
Title: _____

EXHIBIT "C"

Exhibit C to the CONSENT DECREE:

Map of the NRD Area

(See Consent Decree for Definition of "NRD Area")



STRATEGIC RESOURCES GROUP		KENECOTT UTAH COPPER	
SCALE:	DATE:	EXHIBIT C	
BY: KP	4/07	NATURAL RESOURCE DAMAGE (NRD) AREA	
CHKD: JI	5/07	Job No. ---	Dwg. No. ---
DATE:			REV
PROJECT:			NO
SCALE:			
DATE:			

EXHIBIT 'D'

MEMORANDUM OF AGREEMENT
BETWEEN
THE NATURE CONSERVANCY
AND THE
U.S. FISH AND WILDLIFE SERVICE

This Memorandum of Agreement (“MOA”) is between The Nature Conservancy, a District of Columbia non profit corporation (“TNC”), and the U.S. Department of the Interior, through the U.S. Fish and Wildlife Service (“Service”). TNC and the Service are collectively referred to in this MOA as “the Parties.”

A. Background and Objectives

1. The United States has reached an agreement to settle the potential liabilities of Kennecott Utah Copper Corporation (“KUCC”) under the Comprehensive Environmental Response, Compensation and Liability Act (“CERCLA”), 42 U.S.C. § 9601 *et seq.* The agreement, in the form of a Consent Decree, will be lodged with the United States District Court for the District of Utah. TNC is not a party to the Consent Decree, however, a component of the Consent Decree is the transfer, in part by donation, of a total of 616 acres of land by KUCC to TNC. The land to be transferred is known as the Lakepoint Wetlands Property and is depicted in Exhibit A to this MOA (the “Property”). In order for TNC to undertake management and restoration of the Property, KUCC must also convey to TNC one cfs from its Factory Spring Water Right No. 15-286 (the “Lakepoint Water Right”), and subordinate its priority in the remaining portion of Water Right No. 15-286, and in Water Right Nos. 15-33 and 15-278 from Factory Spring, such that TNC’s Lakepoint Water Right has first priority from Factory Spring. KUCC must also transfer to TNC \$175,000.00 to establish an endowment fund (“Endowment”) for long term restoration, management and protection of the Property in perpetuity. KUCC and TNC have executed a Transfer Agreement, dated June 1, 2007, to implement the transfer of the Property, transfer of the Lakepoint Water Right, subordination of KUCC’s Factory Spring water rights, and establishment of the Endowment.

2. TNC owns and manages lands around the Great Salt Lake, including, but not limited to, the Great Salt Lake Shorelands Preserve. As a result, TNC has specialized expertise and experience in the management of habitats unique to the Great Salt Lake. TNC also has established relationships with State, Federal and local governments and other entities involved with management and protection of lands in and around the Great Salt Lake.

3. This MOA describes the relationship of the Parties for the long-term implementation of (a) the Restoration Plan prepared by the Service, in consultation with KUCC and TNC; and (b) the Management Plan prepared by TNC that is attached to the Restoration Plan and attached to this MOA as Exhibit B, with the objective of ensuring the protection and management of the Property in perpetuity.

B. Authority

The Service enters into this MOA under the authority of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. § 9601 *et seq.* TNC enters into this MOA in accordance with its corporate bylaws and pursuant to its mission to preserve the plants, animals and natural communities that represent the diversity of life on Earth by protecting the lands and waters they need to survive.

C. Implementation

1. After closing on the Transfer Agreement, and after KUCC has completed those restoration activities required under the Consent Decree and Restoration Plan, TNC will, in consultation with the Service, implement the portions of the Restoration Plan applicable to TNC, and implement TNC's Management Plan.
2. TNC will manage the Property to the best of its ability in cooperation with the Service with the intent of accomplishing the restoration objectives outlined in the Restoration Plan and the Management Plan. Due to the numerous variables involved in habitat restoration activities, and considering funding constraints, TNC makes no representation or warranty that the restoration objectives will be achieved on the level or within the time frame stated in the Restoration Plan or the Management Plan. In no event will TNC be held responsible for those portions of the Restoration Plan which are the responsibility of KUCC, nor for the failure of KUCC to properly implement restoration activities or to otherwise comply with the terms of the Consent Decree.
3. For a period of five years after the effective date of this MOA, TNC will notify the Service of any alterations in physical conditions of which it may become aware that may have a material impact (either positively or negatively) on habitat management at the Property, including, but not limited to, visible changes in land use on adjacent parcels, hazardous or toxic substance spills that occur, or have a direct effect, on the Property, and/or material changes in water availability or use on the Property.

D. Endowment

1. The Endowment, including accrued interest, shall be placed in an endowment account to be used solely for the purposes of long-term restoration, management and protection of the Property. The Parties acknowledge and agree that the Endowment is intended to fund all of TNC's activities to be performed under the Restoration Plan and the Management Plan. The MOA, the Restoration Plan and the Management Plan shall not be construed as requiring TNC to provide any additional funding.
2. By entering into this MOA, the Service does not authorize TNC to incur any expenses for capital equipment, property or any other item to be charged to the Service.
3. Should TNC transfer the Property or any part thereof, the Endowment (or an appropriate portion of it) shall be transferred to the new owner and any responsibilities of the Restoration Plan and Management Plan relevant to the transferred portion shall be the responsibility of the transferee. Prior to any transfer, TNC and the transferee must provide information to the Service to show the transferee is able and willing to implement the terms of the Restoration Plan and Management Plan. Prior to any transfer, this MOA shall be amended, as appropriate, to document the transferee's commitment to implement the Restoration Plan and the Management Plan in accordance with this MOA. Any equipment that was purchased from monies from the Endowment will also be transferred to the new property owner. If only a portion of the Property is transferred, the transferee for that portion of the Property must have adequate resources to implement the Restoration Plan and the Management Plan on that portion of the Property.

E. Conservation Easement

TNC shall use its best efforts to transfer, within three years of the effective date of this MOA, a conservation easement over the Property to an entity qualified under Utah law to hold conservation easements. The Service shall review and provide its written approval (as appropriate) of (1) the entity that will hold the easement and (2) the language contained in the conservation easement prior to recordation of the easement. If TNC is unable to find an appropriate entity to hold the conservation easement after a good faith effort to find a qualified, willing holder, TNC and Service will meet to discuss other available mechanisms (such as deed restrictions) to ensure the Property is protected in perpetuity.

F. Reporting

TNC shall provide to the Service all reports required of it as described in the Restoration Plan and the Management Plan and in accordance with the terms of such plans.

G. Effective Date of MOA

This MOA shall become effective as of the last date of execution by the Parties and shall remain in force and effect until explicitly terminated by the Parties.

H. Key Officials

For TNC:

Director of Conservation Programs
The Nature Conservancy, Utah Chapter
559 East South Temple
Salt Lake City, UT 84102

For the Service:

Field Supervisor
Utah Field Office
2369 West Oregon Circle, Suite 50
West Valley City, UT 94119

I. Modification

This MOA may be amended only by written consent of the Parties.

J. Dispute Resolution

The Parties recognize that disputes concerning this MOA and/or implementation of the Management Plan may arise from time to time. The Parties agree to work together in good faith to resolve such disputes, using the informal dispute resolution procedures described below, or any other procedures upon which the Parties may later agree. Unless the Parties agree upon another dispute resolution process, the Parties shall use the following process to attempt to resolve disputes prior to initiating administrative proceedings or suit in federal court:

1. The aggrieved Party will notify the other Party of the provision that may have been violated, the basis for contending that a violation has occurred, and the remedies it proposes to correct the alleged violation.

2. The Party alleged to be in violation will have 30 days, or such other time as may be agreed, to respond. During this time it may seek clarification of the information provided in the initial notice. The aggrieved Party will use its best efforts to provide any information then available to it that may be responsive to such inquiries.
3. Within 30 days after such response was provided or was due, representatives of the Parties having authority to resolve the dispute will meet and negotiate in good faith toward a solution satisfactory to both Parties, or will establish a specific process and timetable to seek such a solution.
4. If any issues cannot be resolved through such negotiations, the Parties will consider non-binding mediation and other alternative dispute resolution processes and, if a dispute resolution process is agreed upon, will make good faith efforts to resolve all remaining issues through that process.

K. Standard Provisions

1. **Severability.** If any provisions of this MOA are determined for any reason to be illegal or unenforceable, the Parties intend the remainder of the MOA to remain in full force and effect.
2. **Civil Rights.** During the performance of this MOA, the Parties agree to abide by the U.S. Department of the Interior, Civil Rights Assurance Certification, non-discrimination, and will not discriminate against any person because of race, color, religion, sex, or national origin. The Parties will take affirmative action to ensure that applicants are employed without regard to their race, color, sexual orientation, national origin, disabilities, religion, age or sex.
3. **Promotional Material.** TNC will not publicize, or otherwise circulate, promotional material (such as advertisements, press releases, speeches, still and motion pictures, articles, manuscripts or other publications) which states or implies Governmental, Departmental, Service, bureau, or Government employee endorsement of a product, service or position which the TNC represents. No release of information relating to this MOA may state or imply that the Government approves of TNC's work or considers the TNC's work product to be superior to other products or services.
4. **Public Information Release.** TNC will obtain approval from the Field Supervisor of the Utah Field Office of the Service for any public information releases which refer to the Department, Service, any bureau, or employee, or this MOA. The

specific text, layout and /or photos of the proposed release must be submitted with the request for approval.

5. Consistency with Law. Nothing herein shall be deemed to be inconsistent with or contrary to the purposes of or intent of any Act of Congress affecting or relating to this MOA.
6. The Anti-Deficiency Act, 31 U.S.C. § 1341. This MOA does not obligate the Service or the Department to provide appropriated funds for projects undertaken pursuant to this MOA. Nothing in this MOA shall be construed as binding the Department or the Service to expend in any one fiscal year any sum in excess of appropriations made by Congress, allocated for the purposes of this MOA for such fiscal year, or other obligations for the expenditure of money in excess of such appropriations.
7. Officials Not to be Benefited. No member of, or delegate to, Congress shall be admitted to any share or part of this MOA, or to any benefit that may arise from this MOA.
8. Lobbying Prohibition. The Parties will abide by the provisions of 18 U.S.C. § 1913 (Lobbying with Appropriated Monies).
9. Liability Provisions. Each Party shall be fully responsible for the acts and omissions of its representatives, agents, employees, contractors and subcontractors connected with the performance of this MOA.

L. Signatures

TNC:
The Nature Conservancy

By: [Signature]

Title: Vice President

Date: 1/11/2008

The Service:
U.S. Fish and Wildlife Service

By: [Signature]

Title: Field Supervisor USFWS

Date: 1/15/08

Exhibits

- Exhibit A: Lakepoint Wetlands Map depicting the Property
Exhibit B: Management Plan

Figure A-1

**Lakepoint Wetlands Map Depicting the Property Prior to Restoration
(Existing Extent of Wetlands)**

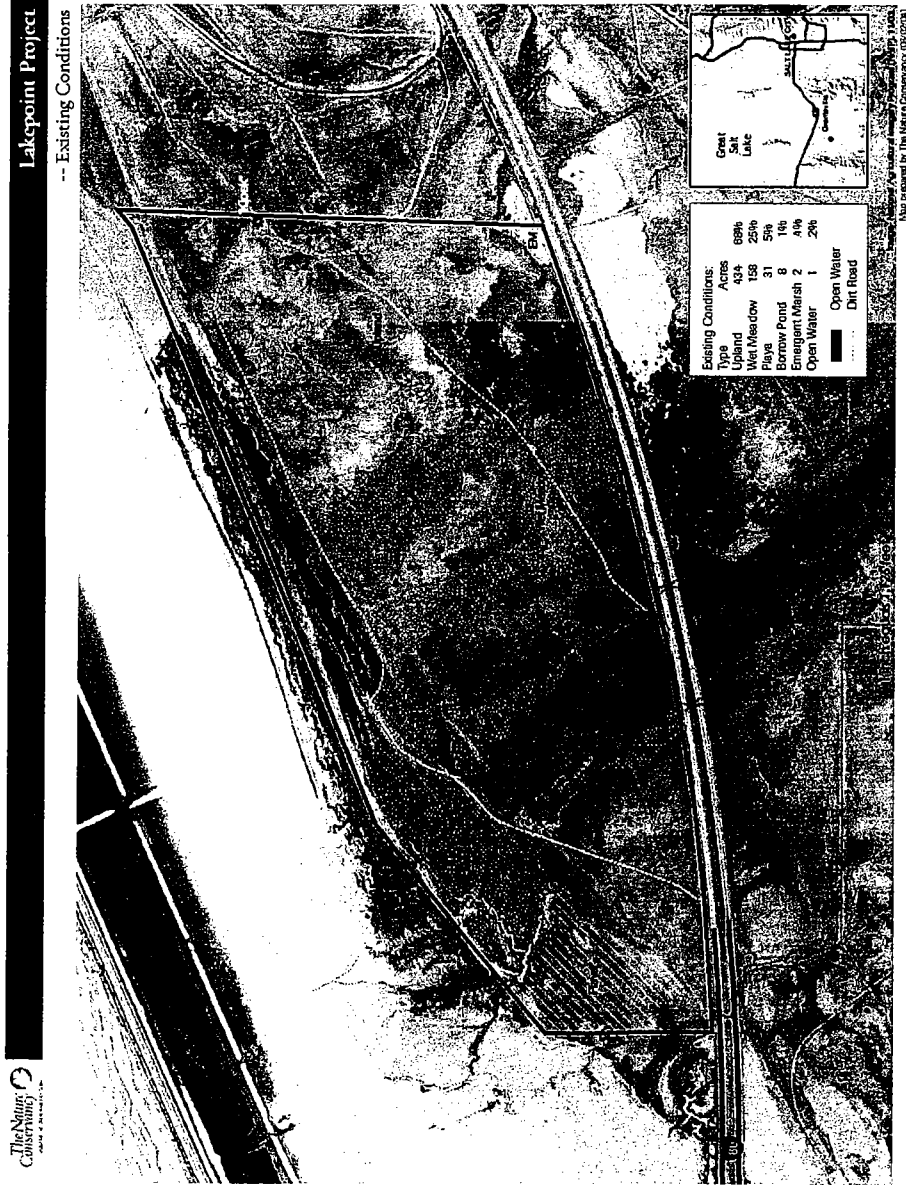


Figure A-2

**Lakepoint Wetlands Map Depicting the Property Post-Restoration
(Predicted Extent of Wetlands)**

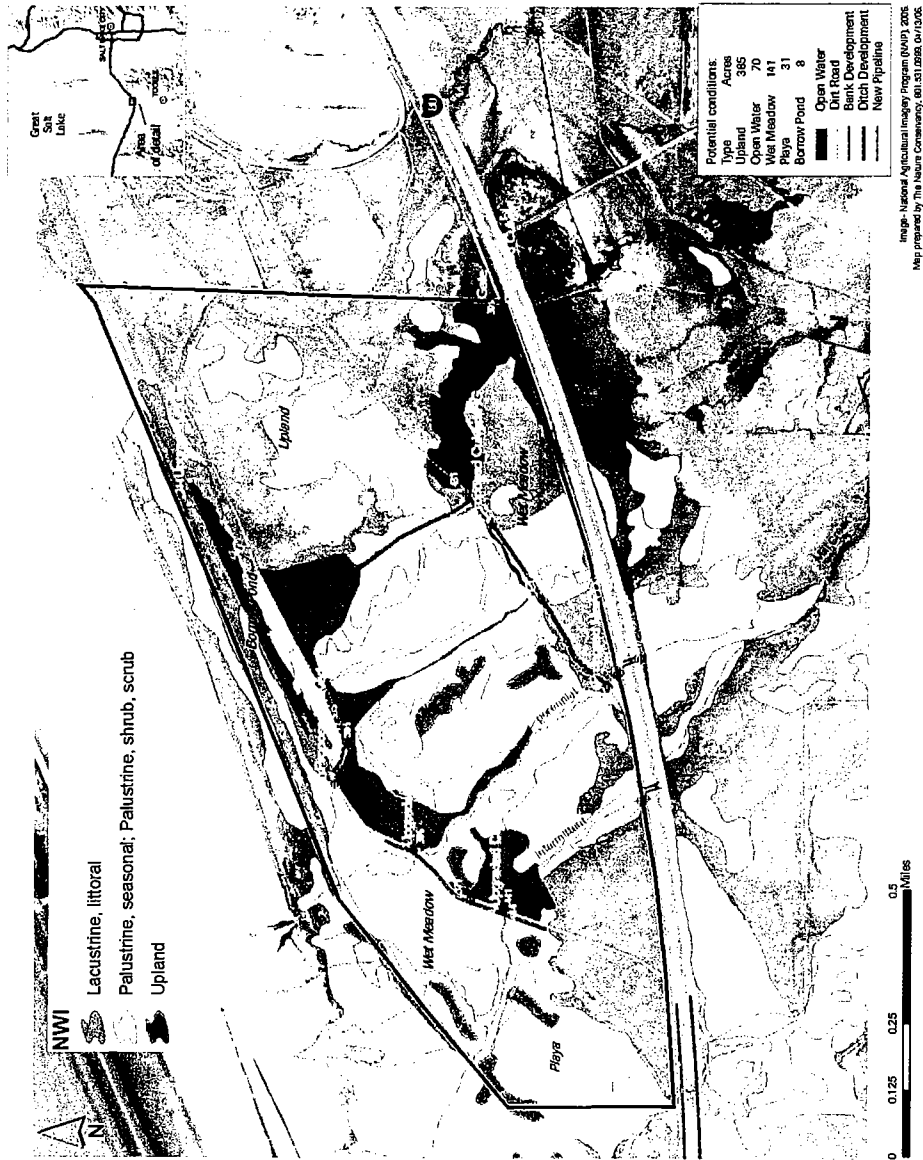


Exhibit B

The Management Plan

Lakepoint Wetlands Management Plan
The Nature Conservancy, Salt Lake City, Utah

MANAGEMENT PLAN
FOR
THE LAKEPOINT PROPERTY,
TOOELE COUNTY, UTAH

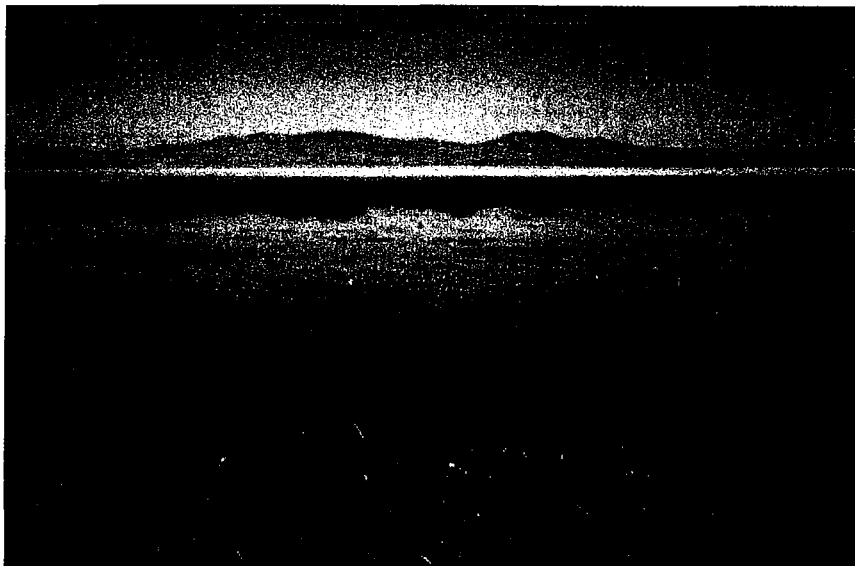


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1.0 FOREWORD

Key elements of wildlife habitat management in Utah involve managing land and water, the habitat base for all fish and wildlife species

To provide habitat for wildlife species and public access, The Nature Conservancy will develop a system for wildlife management on lands managed along the Great Salt Lake.

The Lakepoint Property is a wetland complex in Tooele County, Utah, that was acquired by The Nature Conservancy as a result of a Consent Decree between Kennecott Utah Copper Corporation (Kennecott) and the U.S. Fish and Wildlife Service, in cooperative resolution of claims of natural resource damage and assessment costs associated with Kennecott's "North Zone" area, which is being remediated under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). This document is the long-term management plan for the Lakepoint Property. This plan was developed to address the management of current wetland and wildlife habitat resources on the Lakepoint Property, and restoration through the enhancement of additional resources. The plan contains management priorities with defined goals, objectives and strategies and will be used to guide activities on the Property in the future.

This planning effort is being done for long-term protection and management of land and wildlife resources on Lakepoint, within biological limits, funding, social, and manpower constraints. Funding is being provided by Kennecott through an endowment required under the Consent Decree. This plan will be used as a guideline for land and resource management decisions. The plan will periodically be subject to change, if necessary, as new data regarding habitat and wildlife resources becomes available.

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2.0 MISSION STATEMENT

The Nature Conservancy's mission on Lakepoint is to protect, enhance, and provide high quality and secure habitat, and manage it to maximize its benefit to waterfowl, shorebirds, species of conservation concern (such as threatened and endangered species), and a variety of other wildlife species that use this habitat in perpetuity.

3.0 PROPERTY DESCRIPTION

3.1 Introduction and History

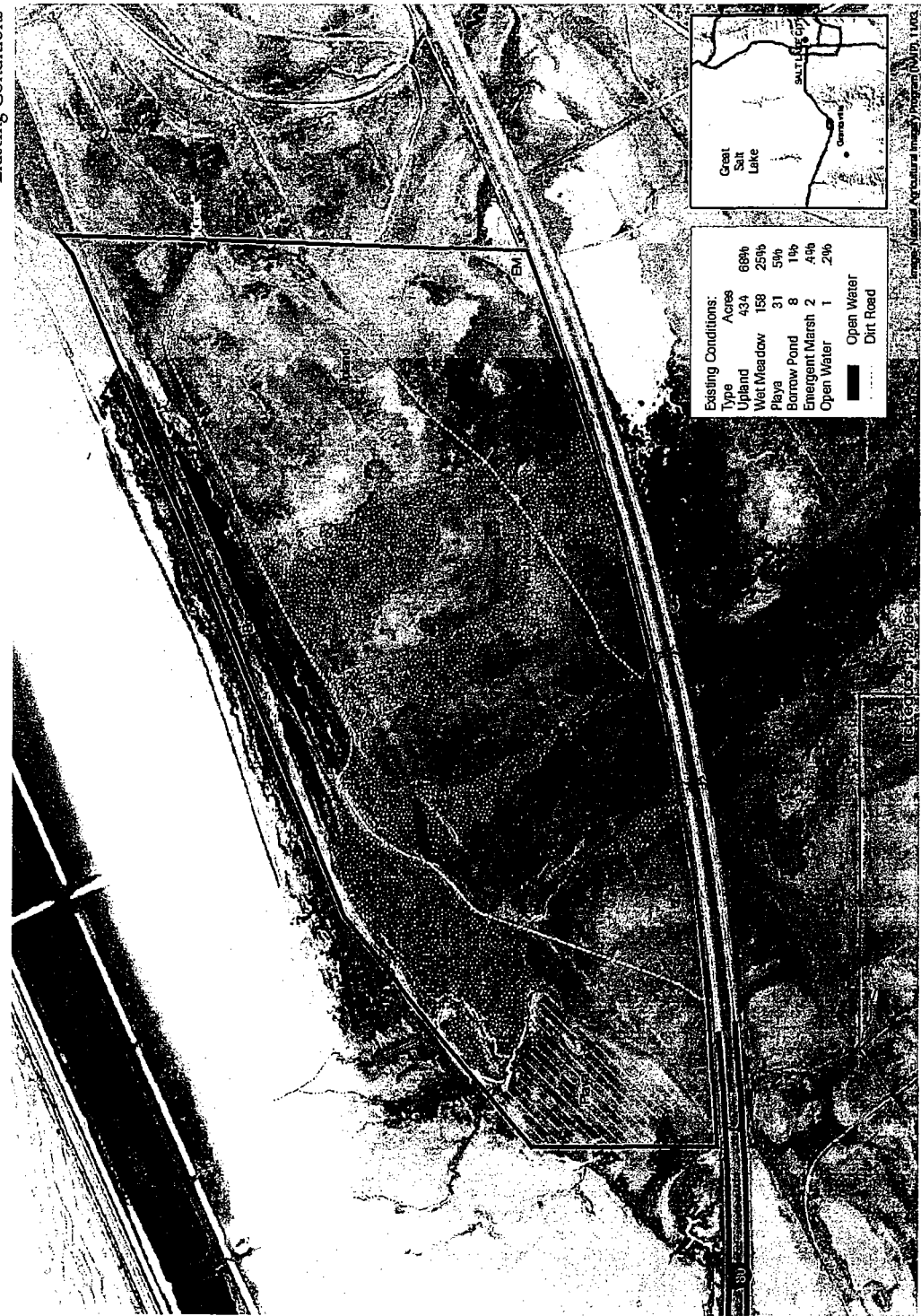
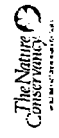
The Lakepoint property is located on the south shore of the Great Salt Lake, approximately three miles north-west of Tooele, Utah, and approximately six miles west of the KUCC North Zone Wetlands. Prior to its selection as a site for restoration (ca. 2003), the property had been leased by KUCC for cattle grazing and ponds on the property were managed by duck hunting clubs that leased hunting rights during the fall. Land use in the area of the Lakepoint property is currently primarily agricultural (grazing); however at this time, eastern Tooele County is experiencing very high growth rates because of its proximity to the Salt Lake City metropolitan area. The Lakepoint property is accessed via a frontage road originating at the Tooele interchange on Interstate Highway I-80; this location and freeway access makes it fairly likely that upland portions of the property could be developed in the future.

3.2 Present Habitat Description, Wildlife Use

The Lakepoint property is essentially flat with a slight north-northwest down sloping gradient towards the lake to the north. At present, approximately 70% of the property is upland, dominated primarily by saltgrass (*Distichilis spicata*), with a few other grasses present. Subshrubs, including greasewood (*Sarcobatus vermiculatus*), rabbit brush (*Chrysothamnus* spp.) and others are present, especially in the southeastern quadrant of the property. Presently (i.e., prior to restoration) about 30% of the property is wetland, oriented along the two branching watercourses of Mill Creek that flow through the property. These wetlands consist of a variety of types, including seasonally flooded wet meadows, emergent marsh, and open water ponds, and are vegetated primarily with saltgrass and halophytic forbs such as pickleweed (*Salicornia* spp.) and ink weed (*Suaeda* spp.). There are some open playa areas with hypersaline soils and essentially no vegetation; these are restricted primarily to the northern border of the property nearest to the Great Salt Lake shore. Irrigation and drainage ditches bordering the property on the north and west are edged by tamarisk (*Tamarix* spp.) and common reed (*Phragmites* spp.). These habitats are not currently mapped, but The Nature Conservancy will develop a pre-restoration map as part of the management activities at the Lakepoint property.

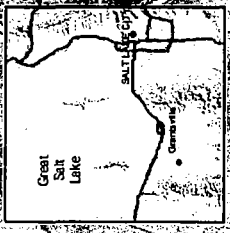
A schematic map of current conditions at the property is presented in Figure 1; photographs of pre-restoration conditions at the site (photos taken at various times in 2005 and 2006) are presented in Figure 2.

At present, the Lakepoint property is used by a variety of migratory bird species similar to those that occur at the North Zone wetlands, including American avocet, stilt, and killdeer (*Charadrius vociferous*); waterfowl such as mallard, blue-wing teal, northern shoveler and others. In addition,



Existing Conditions:	
Type	Acres
Upland	68%
Wet Meadow	15%
Playa	3%
Borrow Pond	8%
Emergent Marsh	2%
Open Water	1%

Legend:
Open Water
Dirt Road



Map prepared by The Nature Conservancy (08/02/04)

Figure 1 Map of Existing Conditions at Lakepoint Wetland Property, Tooele County, Utah



Figure 2 (a). Lakepoint Property in early spring (2003). View of pond formed by west branch of Mill Creek, south of gravel access road.



Figure 2 (b). Lakepoint Property in autumn (2005). View of channel downstream of pond shown in Figure 2a, above, leading into the "Borrow Pond" in the northeast corner of the property

Figure 2. Photographs of the Lakepoint Property (before restoration)

grassland songbirds including western meadowlark (*Sturnella neglecta*), horned lark (*Eremophila alpestris*) and Savannah sparrow (*Passerculus sandwichensis*) use the upland areas of the property. Other wetland dependent bird species that occur on the Lakepoint property are relatively rare on the North Zone Wetlands. These include long-billed curlews (*Numenius americanus*), which use upland areas, and snowy plover (*Charadrius alexandrinus*), which feed and nest on the salt playas on the north and west margins of the property. Raptors, including northern harriers (*Circus cyaneus*), American kestrels (*Falco sparverius*) and red tail hawk (*Buteo jamaicensis*) can be seen hunting for small mammals or songbirds on the property; the peregrine falcon occurs in the Great Salt Lake ecosystem, and may pursue shorebirds, waterfowl and other species on the property.

3.3 Opportunities for habitat improvement and enhancement

As further explained and discussed in the Restoration Plan, the Lakepoint property was selected for perpetual protection and restoration because it contains natural resource qualities similar to those found at the KUCC North Zone wetlands, such as the existence of a permanent water source, proximity to the Great Salt Lake and suitable soils and terrain to support avian species similar to those that formerly used the North Zone (i.e., in-kind replacement value). In addition to these, the Lakepoint property also has the potential for active restoration steps to increase the property's productivity and value relative to avian populations (e.g., in-kind restoration) using relatively simple and sustainable restoration activities. The objective of these restoration steps is to potentially increase the natural resource value of the parcel to a level that compensates for the natural resources injured at the North Zone wetlands.

4.0 DESIRED FUTURE CONDITIONS

The desired future condition of the Lakepoint Property is described as follows:

1. An area that provides habitat for migratory birds, focusing on birds that use shallow fresh-salt gradient ponds and playas, and associated upland habitats typical of the GSL South Shore, with enhancements to the area focused on improvements in these values.
2. Water resources, soil and vegetation managed in a sustainable manner that supports the area's use as migratory bird habitat, including plant communities that consist of native and desirable non-native species, managed to maximize habitat richness and complexity (e.g., a variety of successional stages, a mosaic of vegetative and water-supported habitat types, a minimum of noxious or non-native weed and plant species)
3. An area that is managed with habitat for migratory birds as its primary value—no hunting, off-road vehicle use, etc. Grazing will only be used if it is judged to be an appropriate tool to manage upland areas to promote habitat health and diversity. Other secondary uses (e.g., education) will only be allowed as appropriate to further, but not adversely impact habitat value.
4. An area that will be used as an educational resource under controlled conditions that do not impair or overwhelm the primary use and value of the site. All educational use will be under the control and discretion of FWS and TNC.
5. An area that is a significant Utah resource, a good neighbor to adjoining landowners, and an outstanding example of excellence in wildlife and habitat management.

5.0 MANAGEMENT GOALS LISTED IN ORDER OF PRIORITY

5.1 Maintain and Improve Waterfowl and Shorebird Habitat

Maximize the value of habitats that are onsite at present (e.g., shallow pond habitats that support nesting waterfowl, American avocet, Black-necked stilt). To the extent possible, increase habitat value for sensitive species that might especially benefit from this area (e.g., snowy plover, long-billed curlew)

5.2 Maintain and Improve Habitat for Other Species

Secondary to the provision of waterfowl and shorebird habitat, provide habitat for other native bird and other wildlife species that are present on the Lakepoint Wetland. This includes maintenance and/or enhancement of habitats for sensitive species such as Federally listed Threatened and Endangered Species, State of Utah listed Sensitive Species and Species of Conservation Concern that are not also included in the objectives of Management Goal 1.

5.3 Water Quantity

Manage and monitor available water resources to the extent possible to provide sufficient water in aquatic habitat areas on the property. For further explanation of water sources and the selection of water source for the Lakepoint property, see Section 2.3.2.1 of the Restoration Plan. For discussion of water conveyance system, see Section 2.3.2.2 of the Restoration Plan.

5.4 Limited Public Access and Use of the Property

Limit public use to those that are consistent with the primary management goal. For example, wildlife education, non-disturbing recreational activities such as bird watching, art, etc. If grazing is to be allowed, it will only be if it as useful as a tool to manage or enhance habitats for the primary species of concern at Lakepoint.

5.5 Good Neighbor Relations

Maintain working, cooperative relationships with adjacent and surrounding property owners, consistent with the primary management goal. For example, weed control, water management, fire control or management.

5.6 Cultural Resources

If culturally significant resources are discovered to be present on the property (e.g., Native American or pioneer use sites), manage these areas to promote their preservation.

6.0 MANAGEMENT GOALS, ACTIONS AND STRATEGIES

The accomplishment of goals and objectives and implementation of strategies will be dependent on priorities and available funding for projects and personnel.

6.1 **Goal: Maintain and Improve Waterfowl and Shorebird Habitat.**

A. Strategy: Protect nesting habitat for waterfowl and shorebirds

Actions:

1. Habitat management:
 - a) Develop and implement plans to improve habitat for waterfowl, shorebirds, or other avian species of interest in areas that are presently not being used or receive little nesting use.
 - b) Implement habitat improvements where appropriate,
 - c) Maintain, monitor and document the avian use of habitats on the Lakepoint property
 - d) Utilize management tools such as grazing and fire in a conservative and judicious manner such that benefits are gained without incurring unforeseen losses or adverse effects.
2. Research and monitoring of avian use:
 - a) Monitor and document use of nesting areas, and nesting success by waterfowl and shorebirds, and other species where appropriate
 - b) Census avian populations at relevant times of year (e.g., nesting season, fall and spring migratory stopover periods, etc.) to characterize use of the area by resident and migrating birds, and document the occurrence of species that could or should be included in management goals and objectives.
3. Other Uses:
 - a) Restrict public use to those activities that are consistent with the primary management goals of the property (e.g., education, research, public outreach), and that such uses, if permitted, are subject to restriction and control by TNC land managers.
 - b) Manage grazing (if utilized at all) only as a tool to improve habitat. In the event that grazing is to be used for habitat improvement it will be for limited periods of time and under the strict control of TNC.
 - c) To the extent allowable within the primary management goals of the

- property, cooperate with other individuals, businesses or agencies to minimize the impact of the property on adjacent lands or landowners
- B. Strategy: Manage available water to provide a diverse mixture of aquatic, wetland and upland habitats for waterfowl and shorebird production.

Actions:

1. Maintain available water levels in ponds and wetlands throughout the waterfowl production season to provide suitable waterfowl habitat.
 2. Survey the property to determine the potential for improving or enhancing existing habitat (e.g., ponds, playas, wet meadows, uplands) as well as opportunities to create and/or restore habitat areas.
 3. Creation of new wetland habitat should be undertaken in a manner that minimizes impacts on existing native plant communities.
 4. Minimize encroachment of undesirable plant species and maintain habitat diversity.
- C. Strategy: Provide one cfs of water in wetlands as much as possible throughout the breeding and migration periods for shorebirds and waterfowl.

Actions:

1. Maintain ditches and water structures within the control of TNC.
 2. Maintain and monitor water levels and flows consistent with TNC's acquired water rights and proper water management.
 3. Maximize water management utilizing TNC's current water rights and develop new water sources if available and considering funding constraints.
- D. Strategy: While not required, take steps to protect additional property that may provide a variety of wetland/upland habitats if opportunities become available.

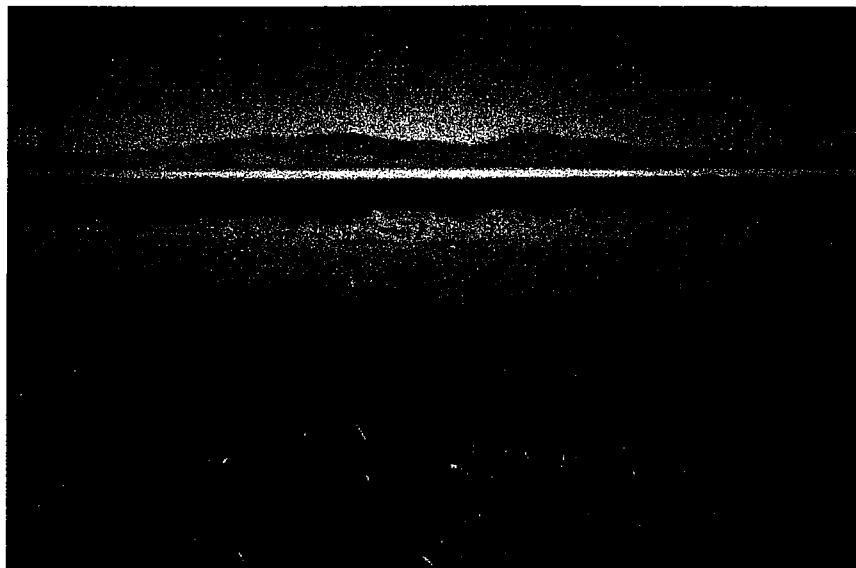
Actions:

1. Identify key parcels for acquisition.

EXHIBIT "E"

**DRAFT RESTORATION PLAN AND
ENVIRONMENTAL ACTION STATEMENT
(PUBLIC REVIEW DRAFT RP/EAS)**

*FOR THE
PRESERVATION, RESTORATION AND MANAGEMENT OF THE
LAKEPOINT WETLANDS SITE
TOOELE COUNTY, UTAH*



*ADDRESSING INJURIES TO MIGRATORY BIRDS AND OTHER
U.S. DEPARTMENT OF THE INTERIOR TRUST NATURAL RESOURCES*
AT
**THE KENNECOTT UTAH COPPER CORPORATION
NORTH ZONE WETLANDS SITE (OU-22)**
SALT LAKE COUNTY, UTAH

Prepared by:
U.S. Department of the Interior
U.S. Fish and Wildlife Service
Utah Ecological Services Field Office, Salt Lake City, Utah

DOCUMENT TITLE:

Draft Restoration Plan and Environmental Action Statement for the Preservation, Restoration and Management of the Lakepoint Wetlands Site, Tooele County, Utah
(Addressing injuries to migratory birds and other U.S. Department of Interior Trust natural resources at the Kennecott Utah Copper Corporation (KUCC) North Zone Wetlands Site (OU-22), Salt Lake County, Utah.)

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ACRONYMS AND ABBREVIATIONS

AO	Authorized Official
CAA	Clean Air Act
CD	Consent Decree
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
CWA	Clean Water Act
DOI	Department of the Interior
EA	Environmental Assessment
EAS	Environmental Action Statement
EO	Executive Order
EPA	[United States] Environmental Protection Agency
ESA	Endangered Species Act
FR	Federal Register
FWCA	Fish and Wildlife Coordination Act
FWS	[United States] Fish and Wildlife Service
GSL	Great Salt Lake
ISSR	Inland Sea Shorebird Reserve
KUCC	Kennecott Utah Copper Corporation
MBTA	Migratory Bird Treaty Act
MOA	Memorandum of Agreement
NEPA	National Environmental Policy Act
NRD	Natural Resource Damage(s)
NRDA	Natural Resource Damage Assessment
NRDAR	Natural Resource Damage and Restoration
NWP	Nationwide Permit (Under Section 404 of the Clean Water Act)
OSHA	Occupational Safety and Health Agency
ppm	parts per million (milligram per kilogram, milligram per liter)
ppm-dw	parts per million dry weight (relative to biotic tissues)
ROD	Record of Decision
Se	Selenium

ACRONYMS AND ABBREVIATIONS, continued

T&E	Threatened and Endangered (as designated by Endangered Species Act)
TNC	The Nature Conservancy
UDEQ	Utah Department of Environmental Quality
UDNR	Utah Department of Natural Resources
UDWR	Utah Division of Wildlife Resources
USACOE	United States Army Corps of Engineers
U.S.C.	United States Code
USFWS	United States Fish and Wildlife Service
USHPO	Utah State Historical Preservation Office

GLOSSARY

Note: Where applicable, terms that have a regulatory or statutory definition have been noted with the source of the definition. General biological, ecological or toxicological terms have been defined for clarity to the general public but do not necessarily have identified sources for the definitions. Terms used in definitions that have specific meaning within the context of NRDA, and which are defined in this section, are highlighted by italicized, underlined text in the definitions.

Assessment area: means the area or areas within which *natural resources* have been affected directly or indirectly by the discharge of oil or release of a *hazardous substance* and that serves as the geographic basis for the injury assessment (*NRDA Definitions, 43CFR § 11.14*).

Assessment: (see *Natural Resource Damage Assessment*)

Authorized Official: The Federal or State official to whom is delegated the authority to act on behalf of the Federal or State agency designated as *trustee*, or an official designated by an Indian tribe, pursuant to section 126(d) of CERCLA, to perform a *natural resource damage assessment*. As used in this document, authorized official is equivalent to the phrase “authorized official or lead authorized official,” as appropriate (*NRDA Definitions, 43CFR § 11.14*).

Baseline (natural resource value): means the condition or conditions that would have existed at the *assessment area* had the discharge of oil or release of the *hazardous substance* under investigation not occurred (*NRDA Definitions, 43CFR § 11.14*).

Bioaccumulation: a process by which a compound is taken up by organisms, but is not readily metabolized and/or excreted, thus accumulating in increasing concentrations in the organism. Plants can take these compounds up from soils or sediments; animals may take them up by consuming plants or other animals that have accumulated the compound, or by direct ingestion of soil, sediments or water containing the compound. Therefore, concentrations of bioaccumulating compounds can build up in exposed organisms to many times the concentration of the surrounding soil, sediment or water.

Biological Resources: means those *natural resources* referred to in section 101(6) of CERCLA as fish and wildlife and other biota. Fish and wildlife include marine and freshwater aquatic and terrestrial species; game, non-game, and commercial species; and threatened, endangered, and State sensitive species.

GLOSSARY, continued

Biota: Living organisms. In the context of CERCLA and NRDA, biota make up the living component of habitat and ecosystems (e.g., soil microorganisms, invertebrates, plants, animals). Other biota encompass shellfish, terrestrial and aquatic plants, and other living organisms not otherwise listed in this definition¹ (*NRDA Definitions, 43CFR § 11.14*).

Categorical Exclusion (relevant to NEPA): A category of actions which do not individually or cumulatively have a significant effect on the human environment and which have been found to have no such effect in procedures adopted by a Federal agency in implementation of those regulations, and for which, therefore, neither an environmental assessment nor an environmental impact statement is required.

CERCLA (“Superfund”): The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, 42 U.S.C. 9601 *et seq.*, as amended. CERCLA is commonly known as "Superfund."

Compensatory Restoration: Any action taken to compensate for *interim losses* of *natural resources* and *services* that occur from the date of the *release* or discovery of the release until *recovery* (*defined in the Oil Pollution Act of 1990, 33 U.S.C. 2701-2761, and codified in 15 CFR § 990.30; relevant to NRDA under CERCLA*).

Contaminants of Concern: Contaminants of concern are that subset of *hazardous substances* or other constituents that have been determined to potentially lead to toxicity and adverse effects in *exposed* organisms, due to a combination of factors such as the concentration or form of the contaminant of concern, exposure routes to the organism, or physiological or other characteristics of the organism that may result in toxicity or adverse effects.

Damages (of natural resources): means the amount of money [or other compensation] sought by the *natural resource trustee* as compensation for *injury, destruction* or *loss* of natural resources as set forth in section 107(a) or 111(b) of CERCLA (*NRDA Definitions, 43CFR § 11.14*).

Destruction: Means the total and irreversible *loss* of a *natural resource* (*NRDA Definitions, 43CFR § 11.14*).

¹ Note: This restoration plan is for biological resources under the trusteeship of the United States government that are under the jurisdiction of the U.S. Fish and Wildlife Service; e.g., migratory birds and their supporting habitats.

GLOSSARY, continued

Environmental Assessment (EA): A concise public document prepared pursuant to the NEPA by a Federal agency that serves to briefly provide evidence and analysis for determining whether to prepare an environmental impact statement (EIS) or a Finding of No Significant Impact. An EA aids in an agency's compliance with the NEPA when no EIS is necessary, and facilitates preparation of an EIS when one is necessary.

Environmental Impact Statement (EIS): A detailed written statement prepared pursuant to section 102 (2)(C) of the NEPA regulations. An EIS includes detailed discussions of the need for a proposed action and provides an analysis of the environmental impacts of the the proposed action as well as other potential alternatives to the proposed action, including a "no action" alternative.

Exposure: Means that all or part of a natural resource is, or has been, in physical contact with oil or a *hazardous substance*, or with media containing oil or a hazardous substance (*NRDA Definitions, 43CFR § 11.14*).

Hazardous substances: Means a hazardous substance as defined in Section 101(13) of *CERCLA*. This includes specific chemicals, chemical wastes, and chemical constituents that are hazardous due to physical characteristics and/or chemical properties that render them toxic to humans and/or biota (*NRDA Definitions, 43CFR § 11.14*).

Hemispheric Shorebird Reserve: An area that has been designated for protection because it has worldwide significance as habitat for shorebird species. In order to qualify as a Hemispheric Reserve, an area must support at least 250,000 birds or at least 30% of a flyway population of at least one shorebird species. Hemispheric shorebird reserves are part of an intercontinental network of protected sites known formally as the Western Hemisphere Shorebird Reserve Network. The Great Salt Lake is one of only 15 such sites in the Americas (Canada, U.S., Mexico, Central and South America).

Injury (of natural resources): means a measurable adverse change, either long- or short-term, in the chemical or physical quality or the viability of a *natural resource* resulting either directly or indirectly from *exposure* to a discharge of oil or a *release* of a *hazardous substance*, or *exposure* to a discharge of oil or release of a hazardous substance, or exposure to a product of reactions resulting from the discharge of oil or release of a hazardous substance (*NRDA Definitions, 43CFR § 11.14*).

Interim Loss (of natural resources): a loss of a *natural resource* that occurs from the time that the *release* of a hazardous substance began (or since the inception of the Natural Resources Damage and Assessment Regulations in 1980, in the case of releases of hazardous substances that began prior to that date) until the time that the *response* action to the release is completed.

GLOSSARY, continued

Lakepoint Property: Property owned by Kennecott Utah Copper Corporation (KUCC) which was transferred in fee title to The Nature Conservancy (TNC) under the terms of a Consent Decree between KUCC and the Department of Interior (DOI) in partial resolution of a Natural Resource Damage claim brought by DOI for injuries to Trust Resources at KUCC's North Zone Wetlands (see Section 2.1 and Figure 2-1 of the Restoration Plan).

Lakepoint Wetland: Wetlands that will be restored/created at the Lakepoint Property under the management of The Nature Conservancy, acting on behalf of the Department of Interior (DOI) and the U.S. Fish and Wildlife Service (the Service), under a series of agreements set forth in a Consent Decree between DOI and Kennecott Utah Copper Corporation in resolution of a DOI's NRDA Claim at the North Zone Wetlands. The Lakepoint Wetlands will be restored according to objectives and management activities presented in this Restoration Plan and managed pursuant to a Management Plan developed by TNC (presented as Attachment 3 to this Restoration Plan).

Lead Authorized Official: a Federal or State official authorized to act on behalf of all affected Federal or State agencies acting as trustees where there are multiple agencies, or an official designated by multiple tribes where there are multiple tribes, affected because of coexisting or contiguous natural resources or concurrent jurisdiction (*NRDA Definitions, 43CFR § 11.14*).

Loss (of natural resources): means a measurable adverse reduction of a chemical or physical quality or viability of a natural resource (*NRDA Definitions, 43CFR § 11.14*).

National Environmental Policy Act (NEPA): An act of congress, codified at 42 U.S.C. 4321 (15 CFR § 990.30) that requires Federal agencies to evaluate the environmental impacts of actions undertaken or funded by those agencies. Depending on the nature of the action, this analysis may be undertaken either as an environmental assessment (EA) or Environmental Impact Statement (EIS).

National Contingency Plan (NCP): the National Oil and Hazardous Substances Contingency Plan and revisions promulgated by EPA, pursuant to Section 105 of CERCLA and codified in 40 CFR Part 300 [The NCP outlines the responsibilities and authorities for responding to releases into the environment of hazardous substances and other pollutants and contaminants under the statutory authority of CERCLA and Section 311 of the Clean Water Act] (*NRDA Definitions, 43CFR § 11.14*).

National Priorities List (NPL): The list, compiled by EPA pursuant to CERCLA Section 105 (40 CFR Part 300), of uncontrolled hazardous substance releases in the U.S. that are priorities for long-term remedial evaluation and response.

GLOSSARY, continued

Natural Resources: means land, fish, wildlife, biota, air, water, groundwater, drinking water supplies and other such resources belonging to, managed by, held in trust by, appertaining to, or otherwise controlled by the United States...*[definition of marine resources omitted]*, any State or local government, any foreign government, any Indian tribe, or, if such resources are subject to a trust restriction on alienation, any member of an Indian tribe. These natural resources have been categorized into the following five groups: surface water resources, ground water resources, air resources, geologic resources, and *biological resources*² (NRDA Definitions, 43CFR § 11.14).

Natural Resource Damage Assessment (or Assessment): means the process of collecting, compiling, and analyzing information, statistics, or data through prescribed methodologies to determine *damages* for *injuries* to *natural resources* (NRDA Definitions, 43CFR § 11.14).

(Natural Resource) Trustee: means any Federal natural resources management agency designated in the *National Contingency Plan* and any State agency designated by the Governor of each State, pursuant to section 107(f)(2)(B) of CERCLA, that may prosecute claims for *damages* under section 107(f) or 111(b) of CERCLA; or an Indian tribe, that may commence an action under section 126(d) of CERCLA (NRDA Definitions, 43CFR § 11.14).

NRDAR (Natural Resource Damage Assessment and Restoration): Assessment of *injuries* to *natural resources*, and actions needed to restore those resources to the public. This process is governed by regulations under CERCLA, published in the Federal Register (56 FR 19752) and found in the Code of Federal Regulations at 43 CFR 11.

North Zone Wetlands: Wetlands located in the North Zone Operational Unit at Kennecott Utah Copper Corporation (KUCC), as defined by the U.S. Environmental Protection Agency (EPA) and KUCC for the purposes of CERCLA associated environmental *remediation*. For the purposes of this Restoration Plan, this area is specifically defined in the Consent Decree between KUCC and the U.S. Fish and Wildlife Service (FWS) settling the FWS' claim of *damages* pursuant to the *Natural Resource Damage Assessment* regulations found at 43 CFR 11 and sections 107(a) or 111(b) of CERCLA. These wetlands consist of emergent saline-to-fresh water emergent marshes and shallow ponds, and are located down gradient and adjacent to the KUCC North Zone ore processing and tailings storage facilities and the south shore of the Great Salt Lake (see Section 1.3 of the Restoration Plan and Figure 1-2).

² See Footnote No. 1

GLOSSARY, continued

Permanent loss (of natural resources): The loss of natural resources (compared to baseline) that cannot be regained following response actions taken under CERCLA. That portion of a natural resource that has undergone destruction due to the release of a hazardous substance.

Primary Restoration : Any action, including natural recovery, that returns injured natural resources and services to baseline (defined in the Oil Pollution Act of 1990, 33 U.S.C. 2701-2761, and codified in 15 CFR § 990.30; relevant to NRDA under CERCLA).

Record of Decision (ROD): A public document that explains which cleanup alternative(s) will be used at National Priority List (NPL) sites. The ROD is based on information and technical analysis generated during the site investigations and evaluations of remedial alternatives, and consideration of public comments and community concerns.

Recovery: means the return of injured natural resources and services to baseline (defined in the Oil Pollution Act of 1990, 33 U.S.C. 2701-2761, and codified in 15 CFR § 990.30; relevant to NRDA under CERCLA, also).

Recovery period: means either the longest length of time required to return the services of the injured resource to their baseline condition, or a lesser period of time selected by the authorized official (NRDA Definitions, 43CFR § 11.14).

Release: means a release of a hazardous substance as defined in section 101(22) of CERCLA. Briefly, this includes any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment of a hazardous substance, with exceptions and conditions specified in section 101(22) of CERCLA (NRDA Definitions, 43CFR § 11.14).

Remediation: A measure or solution that stops or substantially reduces a release or threatened release of hazardous substances that is serious, but does not pose an immediate threat to public health and/or the environment.

Replacement or Acquisition of the Equivalent: means the substitution for an injured resource with a resource that provides the same or substantially similar services, when such substitutions are in addition to any substitutions made or anticipated as part of response actions and when such substitutions exceed the level of response actions determined appropriate to the site pursuant to the NCP (NRDA Definitions, 43CFR § 11.14).

GLOSSARY, continued

Response: means remove, removal, remedy, or remedial actions as those phrases are defined in sections 101(23) and 101(24) or CERCLA (to employ various means of cleanup to reduce concentrations of *hazardous substances* to levels at which adverse effects attributable to those substances are not expected to occur) (*NRDA Definitions, 43CFR § 11.14*).

Restoration or rehabilitation: means actions undertaken to return an *injured resource* to its *baseline* condition, as measured in terms of the injured resource's physical, chemical, or biological properties or the *services* it previously provided, when such actions are in addition to *response* actions completed or anticipated, and when such actions exceed the level of response actions determined appropriate to the site pursuant to the *NCP*. Restoration means any action or combination of actions undertaken to restore, rehabilitate, replace or acquire the equivalent of injured natural resources and services. Restoration may include either, or a combination of, *primary restoration* and/or *compensatory restoration* (any action taken to compensate for interim losses of natural resources and services that occur from the date of the release or discovery of the release until recovery) (*NRDA Definitions, 43CFR § 11.14*).

Services: means the physical and biological functions performed by [a *natural resource*] including the human uses of those functions. These services are the result of the physical, chemical, or biological quality of the resource (*defined in the Oil Pollution Act of 1990, 33 U.S.C. 2701-2761, and codified in 15 CFR § 990.30; relevant to NRDA under CERCLA, also*).

EXECUTIVE SUMMARY

This Draft Restoration Plan and Environmental Action Statement (Draft RP/EAS) was prepared in compliance with the Natural Resource Damage, Assessment and Restoration (NRDAR) provisions of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, 42 U.S.C. 9601 *et seq.*, and the National Environmental Policy Act (NEPA) (42 U.S.C. 4321, *et seq.*) to address restoration of natural resources held in trust by the U. S. Fish and Wildlife Service (the Service), acting on behalf of the U.S. Department of Interior (DOI), alleged to have been injured by the release of hazardous substances (as defined by CERCLA and other regulations) associated with industrial operations by Kennecott Utah Copper Corporation (KUCC) at the "North Zone Wetlands" on the south shore of the Great Salt Lake in Salt Lake County, Utah.

The purpose of restoration, as outlined in this Draft RP/EAS, is to make the environment and public whole for injuries to natural resources and natural resource services alleged by the Service to have occurred at the North Zone Wetlands by compensating for the losses of these resources and services by the acquisition, restoration, management, and protection into perpetuity of natural resources of a similar type and magnitude at the Lakepoint Wetlands, a property owned by KUCC, located approximately 10-15 miles west of the North Zone Wetlands.

This Draft RP/EAS was developed by the Service, acting as the Trustee for DOI Natural Resources, as part of a cooperative settlement of the DOI's claim against KUCC for the alleged injuries to natural resources. The parties were joined as a neutral third party in this process by The Nature Conservancy (TNC), a non-profit 501(c)(3) organization whose mission is to "preserve the plants, animals and natural communities that represent the diversity of life on Earth by protecting the lands and waters they need to survive" (TNC website, www.nature.org). The negotiated settlement of the natural resources damage claim against KUCC by DOI is set forth in a Consent Decree between KUCC and the U.S. Department of Justice (DOJ), representing the Service and DOI, lodged in the U.S. District Court for the State of Utah, to which this Draft RP/EAS is attached.

The restoration actions negotiated between the parties, and described in this Draft RP/EAS, are summarized as follows:

- KUCC will transfer title to 616 acres of property near Lakepoint, in Tooele County, Utah (the Lakepoint Property) to TNC for the purpose of management and improvement of natural resources, chiefly migratory shorebirds and waterfowl and their habitats. To assure that the property has sufficient water to sustain these resources, KUCC will also transfer water rights to TNC for 1 cubic foot per second of water from the Factory Springs/Factory Creek watershed, also in Tooele County, Utah. Additionally, KUCC will also provide an endowment to

TNC in the amount of \$175,000 for the purposes of long-term management of the property.

- KUCC will, within the time frame cooperatively negotiated between the parties, and presented within this Draft RP/EAS, complete specified construction activities on the property that will increase natural resource values of the Lakepoint Property, and/or increase the ability to manage these resources. These activities include construction of a pipeline to supply water from Factory Creek to the Lakepoint Property, and construction/repair of water conveyance channels, culverts and other improvements for water management on the property.
- TNC will, through a Memorandum of Agreement (MOA) with the Service, manage the Lakepoint Wetlands (as it will be known following restoration construction activities) for perpetuity for the primary benefit of Trust natural resources of the Service, chiefly migratory shorebirds and waterfowl, and their habitats. The property may be used and/or managed by TNC for other species and purposes as well, as long as these are consistent with the objectives of both this Draft RP/EAS and TNC's Management Plan for the Lakepoint Wetland, included with this Draft RP/EAS as Attachment 3.

The Draft RP/EAS also fulfills the Service's and DOI's obligations under the NEPA, which is to evaluate the potential environmental impacts of the proposed actions. As detailed in Section 1.5.1 of the Draft RP/EAS, based on their analysis, the Service determined that the proposed actions are categorically exempt from the NEPA. The reasoning behind this, and documentation of the decision-making process, is detailed in Section 1.5.1 and Attachment 2 of the Draft RP/EAS.

The Draft RP/EAS also includes information on how the public can provide comments on the proposed restoration activities. This Draft RP/EAS, along with its attachments, is itself an attachment to the Consent Decree negotiated between the Service and KUCC. Public notice of the availability of the Consent Decree for a 30-day public review and comment period will be published by the Department of Justice in the Federal Register; a 30-day public comment period for this Draft Restoration Plan will run concurrently with the public comment period for the Consent Decree. The Federal Register Notice will include information about how the public can obtain copies of the Consent Decree and its attachments (including this Draft Restoration Plan) for review. Other locations where the Draft RP/EAS and accessory documents can be reviewed, and methods of providing comment, are presented in Section 1.6.1 of this Draft Restoration Plan.

1.0 Introduction to the Restoration Plan

This restoration plan documents the actions taken and to be taken by the Department of the Interior (DOI) and the U.S. Fish and Wildlife Service (the Service), acting as Trustees, and Kennecott Utah Copper Corporation (KUCC), acting as the responsible party to resolve a natural resource damage (NRD) claim asserted under provisions of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 by the DOI and the Service for injuries to natural resources held in trust by the DOI and the Service.

Section 1 documents the circumstances underlying the need for restoration of Natural resources, including an introduction to the regulatory responsibilities of natural resource Trustees, the history of operations and evidence of natural resource injuries near KUCC's smelter facility in Salt Lake County, Utah that led to the natural resource damage claim by the Trustees. Section 1 also summarizes the actions that were agreed upon by the Trustees and KUCC in a legal settlement of this claim (included with the Restoration Plan as Attachment 1). Section 1 also describes the relationship of these restoration actions to other Federal laws, policies and Presidential Executive Orders, as well as how public and other Federal and State regulatory agencies play a role in the restoration planning process by public and agency comment.

Because this Restoration Plan is being undertaken by a federal "action agency" (the DOI), it is subject to the requirements of the National Environmental Policy Act (NEPA). It is also the policy of the DOI to coordinate NRDAR restoration planning and implementation with the requirements of the NEPA. In this case, NEPA evaluation has occurred concurrently with restoration planning, and the Restoration Plan also fulfills NEPA documentation requirements. The outcome of this evaluation was that the actions described in this Restoration Plan are categorically exempt from NEPA (e.g., there is no need for further analysis under either an Environmental Assessment [EA] or Environmental Impact Statement [EIS]) because they fall under certain exceptions

described in the DOI Departmental Manual (DM) Section 516. The relevant NEPA requirements and exceptions, and the coordination of NEPA analysis and restoration planning are described in Section 1.5.1. Documentation of the decision-making process is provided in Attachment 2 to this Restoration Plan.

Section 2 of the Restoration Plan describes the Restoration Actions agreed upon by the Trustees and KUCC in the Settlement, including the transfer of land and water rights at the Lakepoint Wetland area in Tooele County, about six miles west of KUCC's smelter facility to a third-party nongovernmental conservation organization, The Nature Conservancy (TNC); and the accomplishment of certain restoration actions by KUCC, including water conveyance improvements at the Lakepoint Wetland, and the funding of an endowment for TNC to provide for management of the restored lands according to TNC's Management Plan (included with this Restoration Plan as Attachment 3).

Section 3 of the Restoration Plan details how the Restoration and Management actions at the Lakepoint Wetland will be monitored and evaluated to determine if and how the natural resources that are the subject of this Restoration Plan are being restored. Section 3 includes a description of the performance criteria that will be used to assess restoration success, and guidelines and schedules for the development of monitoring plans and procedures, as well as anticipated schedules for periodic reports and management meetings between TNC, the Trustees, and if desired, KUCC and the Public.

Other Sections of this Restoration Plan include Section 4, a list of the people involved in the preparation of this plan, and Section 5, a list of Federal, State, local, and tribal agencies consulted during the preparation of this plan. Other Attachments to this Restoration Plan include Attachment 4, which will (in the final version of this document) include copies of letters and correspondence to agencies and the public inviting public comment, and Attachment 5, which will (in the final version of this document) include copies of public comments received and the Trustees' response to those comments.

1.1 Trustee Responsibilities under CERCLA

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, commonly known as "Superfund," provides for the assessment of damages and restoration of natural resources lost or injured by releases of hazardous substances. Cleanup of CERCLA sites (also referred to as "remediation") eliminates or reduces the potential for future contamination, but may not restore or bring back natural resources that were injured by past releases of contamination. Designated Federal and State agencies can act on behalf of the public as "trustees" in restoring injured natural resources. The CERCLA Natural Resource Damage Assessment (NRDA) Regulations appear in 43 CFR Part 11.

The Secretary of the Interior is one of the officials designated to act on behalf of the public for Federally-protected natural resources. For this case, The U.S. Fish and Wildlife Service (FWS, or Service) has been designated to represent the DOI as the Federal trustee for, among other things, migratory birds, federally-listed threatened and endangered species, and their habitats. State natural resource trustees are designated by the Governor of each State. Natural resource trustees may determine injuries to natural resources and obtain damages. *Injury* is a measurable adverse change, either long- or short-term, in the chemical or physical quality or the viability of a *natural resource* resulting either directly or indirectly from *exposure* to a discharge of oil or a *release of a hazardous substance*, or *exposure* to a discharge of oil or release of a hazardous substance, or exposure to a product of reactions resulting from the discharge of oil or release of a hazardous substance. *Damages* means the amount of money [or other compensation] sought by the *natural resource trustee* as compensation for *injury*, *destruction* or *loss* of natural resources as set forth in section 107(a) or 111(b) of CERCLA.

Damages recovered under the CERCLA NRDA provisions can only be used for the restoration of injured natural resources. "Restoration" is defined under the NRDA regulations as "any action or combination of actions undertaken to restore, rehabilitate, replace or acquire the equivalent of injured natural resources and services" (43CFR §

11.14). Although not officially defined as DOI policy, implicit within the language of this definition is an order of preferred restoration alternatives, starting with on-site restoration of natural resources where possible, but extending to acquisition of equivalent natural resources that are similar to those that were injured. Restoration may include either, or a combination of, primary restoration and/or compensatory restoration (any action taken to compensate for interim losses of natural resources and services that occur from the date of the release or discovery of the release until recovery) (NRDA Definitions, 43CFR § 11.14). In the case of the KUCC North Zone Wetlands, while primary restoration was a component of the remedial actions described in the CERCLA Record of Decision (ROD) (discussed further in Section 1.3.2), the actions detailed in this Restoration Plan fall primarily in the category of compensatory, off-site restoration.

1.2 Summary of Settlement

This Restoration Plan details actions that will be implemented at the Lakepoint property, presently owned by KUCC and located northwest of the town of Tooele, in Tooele County, Utah. These actions are being undertaken in order to restore and replace natural resources that the Service identified as injured within the area known as the North Zone Wetlands, located just north of the KUCC copper smelting facility, approximately six miles east of the Lakepoint property. The North Zone Wetlands are currently owned by KUCC and contain hazardous substances resulting from releases associated at least in part with the operation of copper processing facilities. A natural resource damages claim for injuries to trust resources was developed by the Service on behalf of the DOI, which is the Federal Trustee for protected migratory bird species and their habitats (“trust resources”). DOI and KUCC agreed to work cooperatively to resolve the Service’s claim for injury and damages at the North Zone Wetlands and to identify restoration needs and opportunities. As an outcome of that cooperative effort, DOI and KUCC have negotiated a Consent Decree (CD) to be lodged contemporaneously with finalization of this Restoration Plan.

Under the terms of the Consent Decree, KUCC will transfer the Lakepoint property in fee title along with necessary water rights, and will establish an endowment fund for use by TNC to be used for future management and long-term restoration. In a Memorandum of Agreement (MOA) between TNC and DOI which will be executed contemporaneously with the CD between KUCC and DOI, TNC, for itself and its successors and assigns, has committed to manage the Lakepoint Wetland to benefit trust resources into perpetuity, with land uses restricted to those that will primarily benefit those resources. The MOA between TNC and DOI further specifies that TNC will implement certain long-term restoration actions and will manage the restored wetlands at the Lakepoint property according to the goals, objectives and methods identified in Section 2 of this Restoration Plan and in TNC's Management Plan for the Lakepoint Wetlands (included with this document as Attachment 3). While TNC will hold and manage the Lakepoint Wetland independent of the DOI or the Service, under the terms of the MOA they will provide monitoring data and report periodically to the Service as specified in this Restoration Plan (Section 3) and TNC's Management Plan (Attachment 3). Specifics of the property and water rights transfers, and rights and responsibilities of the various parties to the CD, MOA and other documents associated with this settlement can be found in these documents, which will be made available at repositories of public records identified in Section 1.6.1 of this Restoration Plan, and also online at:

<http://mountain-prairie.fws.gov/nrda/LakepointWetlands.htm>.

1.3 *Operational History, On-Site Remediation and Injury to Trust Resources*

This section provides a brief history of the operations at KUCC's "North End" facilities, including the Smelter and Refinery, the releases of hazardous substances defined under CERCLA that led to an agreement between KUCC and the U.S. Environmental Protection Agency (EPA) that designated and stipulated remediation of the North Zone area impacted by these releases, a description of how these releases impacted wetlands within the North Zone (the "North Zone Wetlands"), and what actions

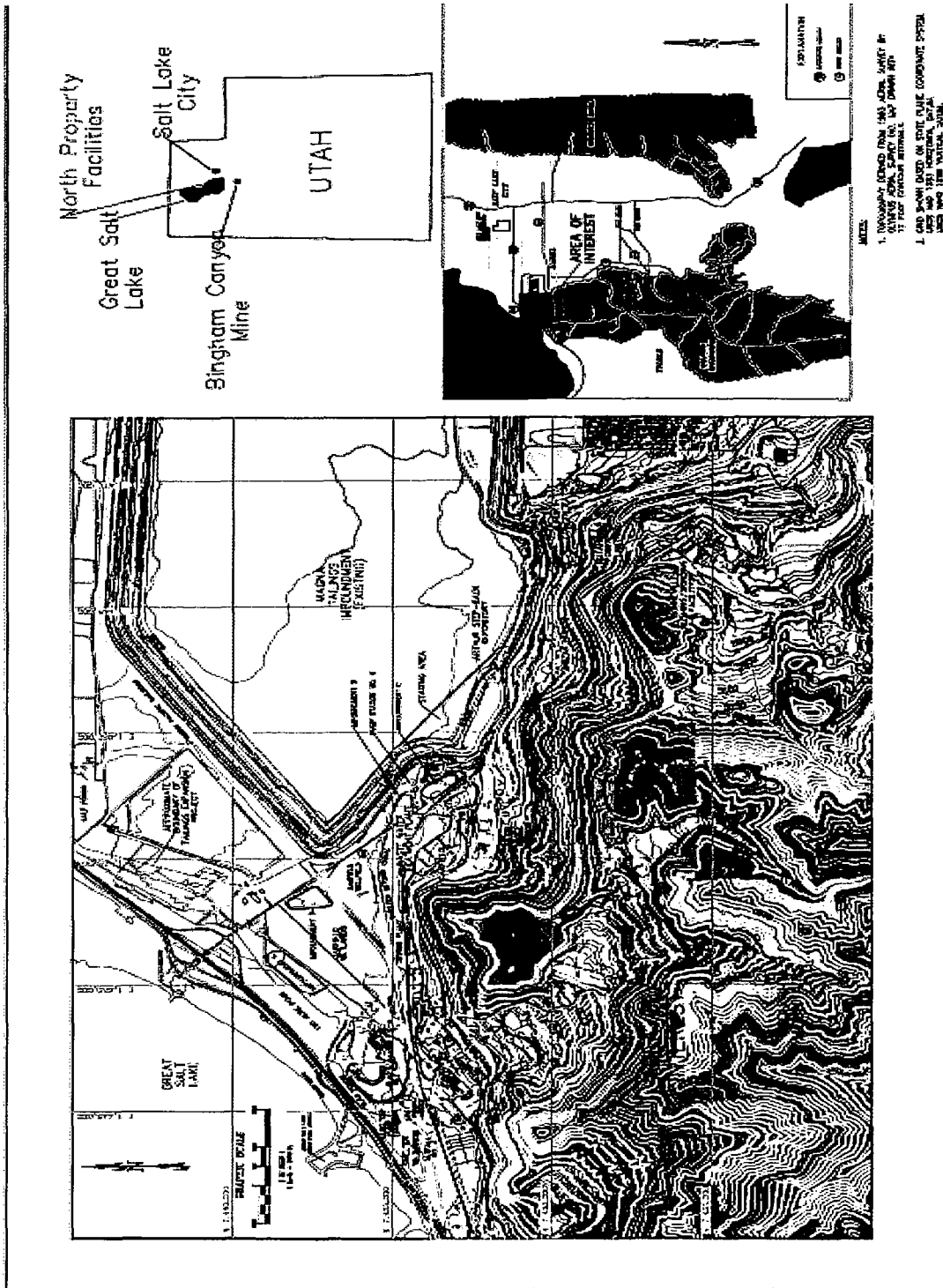
were taken by KUCC to remediate these releases. Section 1.3.3 provides information on the injuries to trust resources that formed the basis of DOI's NRD claim.

1.3.1 Operational History

KUCC operates a large open pit copper mine, mill, and concentrator situated on the east side of the Oquirrh Mountains, west of the Salt Lake Valley, in Salt Lake County (Figure 1-1). After crushing and concentrating at the Copperton Concentrator facility, the concentrate is slurried to the northern end of the Oquirrh Range for processing at the Smelter and Refinery. These facilities are located on a strip of land between the northern end of the Oquirrh mountains and the south shore of the Great Salt Lake (Figure 1-2), and are referred to by KUCC as the "North End" of the entire KUCC facility.

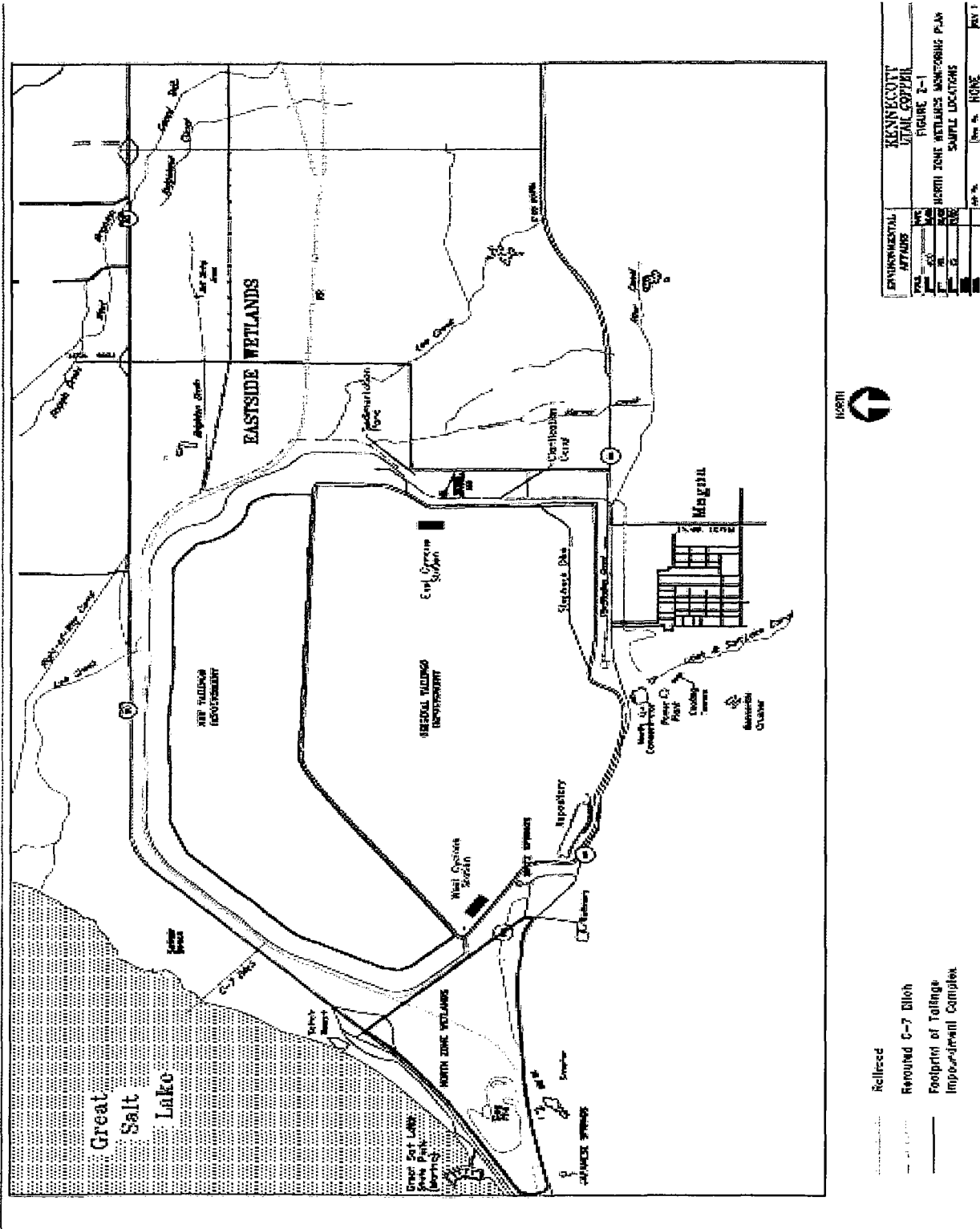
Under the current operational status of the KUCC facility, crushed concentrated ore is slurried from the Copperton Concentrator facility (located on the southern end of the Oquirrh mountains) to the Smelter, where it is processed to produce anodes that are 99 percent copper. The anodes are then refined to 99.9 percent pure copper cathodes at the Refinery facility adjacent to the smelter.. Byproducts, including gold and silver, are recovered during the refining process and produced at the Precious Metals facility located adjacent to the Refinery. Inert tailings remaining after the initial ore processing step are slurried to the Tailings Impoundment east of the smelter facility (Figure 1-1). Prior to 1999, crushing and concentrating operations also were conducted at the Bonneville Crusher and the North Concentrator. The North End crushing and concentrator facilities were shut down in 1999. Releases of hazardous substances associated with the refining and smelting activities resulted in contamination of ground water, surface water, and freshwater wetland sediments. These releases, which covered a large area of the KUCC North End facilities, were designated by the EPA and KUCC as the "North Zone" CERCLA site. Contaminants of concern at the North Zone include selenium, copper, arsenic, lead, zinc, and cadmium. Selenium and arsenic entered groundwater underlying the North End processing facilities, and were transported down gradient, emerging in groundwater seeps and artesian springs that supply wetlands located between the processing facilities and the south shore of the Great Salt Lake. Habitats for migratory birds and other wildlife (including freshwater

Figure 1-1



Vicinity Map for Kennecott Utah Copper Corporation (KUCC) Facility and North Zone Wetland

Figure 1-2



Map of KUCC North Zone Area

marshes, riparian areas and freshwater ponds) have been affected by these releases to varying degrees. A major focus of remedial activities in the North Zone CERCLA site (see following section) has been the identification, delineation and control of contaminant source areas, and where necessary, down gradient contaminant release/discharge areas.

1.3.2 On-Site Remediation

The EPA became involved in environmental cleanup activities at KUCC in 1991. The Kennecott North and South Zone sites were proposed for the Superfund National Priorities List in January 1994. In 1995, KUCC, EPA and the State of Utah signed a Memorandum of Understanding, under which KUCC agreed to a voluntary cleanup of the sites under EPA oversight. In return, EPA agreed to defer listing the Kennecott sites on the National Priorities List. The remedial approach for the sites was formulated in stages, with early removal actions to reduce higher-level risks, and longer term phased cleanups to address less severe, but more persistent or pervasive contamination issues. Initial cleanup actions in the North Zone focused on removal of surface contamination found during modernization of the smelter and refinery in 1994-1996. A Record of Decision³ (ROD) for the Kennecott North Zone was signed by EPA in 2002.

Beyond initial cleanup of source areas, the longer-term phases of cleanup at the North Zone have focused on the remediation of waste-water treatment-plant sludge ponds, wetlands, other affected soil sites, and groundwater. Included among these were two areas of wetland habitat in the North Zone referred to in remedial investigation and cleanup documents as sludge ponds. "Sludge Pond A" was filled prior to December 11, 1980 (the date after which CERCLA regulations took effect) and "Sludge Pond D" was mitigated under Section 404 of the Clean Water Act. The sludge in these ponds was a by-product of the treatment of processing waters from the refinery and smelter, and contained high levels of lead, arsenic and selenium. The initial remediation efforts in the North Zone, completed in 2001, included excavating the

³ See Glossary section for definition. The ROD for the KUCC North Zone Wetland was signed by the EPA following review by a variety of stakeholder entities including the Service.

sludge pond materials and transporting it to a CERCLA permitted repository located on KUCC property.

Longer-term remedial efforts in the North Zone have focused on “plumes” of contaminated groundwater, including groundwater that has been released into the North Zone Wetlands. Contamination of groundwater in this area originated from releases of hazardous substances into groundwater underlying the Smelter and Refinery processing areas. Groundwater in this area travels down gradient towards the north, and is forced to the surface by local geologic and hydrologic conditions, discharging as springs and seeps within the wetlands. Releases to soil and groundwater identified during remedial investigations included loss of electrolyte from an unlined electrolyte holding pond near the precious metal building, and losses of acid from the smelting operations. As part of KUCC’s cleanup effort, contaminated soils in these source areas were removed to a depth of several feet and the areas capped; monitoring wells were also installed to ensure that these contamination sources are controlled. Groundwater treatment methods for the contaminant plume are currently being evaluated for feasibility and effectiveness, but in general, the remedy involves 1) in-situ treatment of groundwater by injection of selenium-reducing microbes into the aquifer; 2) collection and management of contaminated spring and well water; and 3) groundwater monitoring. KUCC is currently preparing a Remedial Design for Remedial Action (RDRA) for the selected remedy. At present, contaminated groundwater water recovered from the area is being added into the facility’s process water system to be used in mining operations. An alternative treatment solution which can be used if needed when mining operations cease is still being evaluated.

1.3.3 Injury to Trust Resources

Selenium is present in the North Zone groundwater plume at elevated concentrations, and is a primary constituent of concern to the USFWS. Information collected by KUCC, the EPA and others in support of site characterization, remedial site investigation, ecological risk assessment and other activities at the North Zone wetlands documented that DOI trust resources (i.e., migratory birds and their supporting habitats) were being exposed to concentrations of metals, including selenium, a hazardous

substance associated with mining operations at KUCC that were comparable to concentrations that had been documented to cause injury to migratory birds at other sites in the United States. Other metals (e.g., arsenic, cadmium, lead, copper) were also identified in RSI documents as posing a risk to DOI trust resources, but the Service determined that the concentrations of selenium were such that this metal was the “driver” for the Service’s concerns at the North Zone Wetlands.

The DOI’s trust resource species of concern at the North Zone Wetlands include wetland-dependent shorebirds such as American avocets (*Recurvirostra americana*) and Black-necked stilts (*Himantopus mexicanus*) and waterfowl such as mallard (*Anas platyrhynchos*), cinnamon teal (*Anas cyanoptera*), and northern shoveler (*Anas clypeata*). These species are at particular risk of exposure and potential consequent adverse effects because they use habitats found in the North Zone Wetlands both during the breeding season and as migratory stopover habitat. Birds are attracted to these habitats because the shallow ponds in the wetland appear to provide food, nesting resources, and a safe rest area on migratory stopovers. Selenium found in groundwater, surface water, sediments and dietary items during the RSI were present at concentrations presumed to cause injury (loss of habitat and reduced reproductive productivity) to birds using the wetlands. In addition to wetland dependent species, predatory birds such as the bald eagle (*Haliaeetus leucocephalus*) and peregrine falcon (*Falco peregrinus*) also occur at the North Zone Wetlands, and could potentially have been exposed to contaminants by consuming birds from the wetlands which had taken up contaminants from the site through the food chain.

The function and significance of the North Zone wetlands is increased by the fact that it is part of the complex of freshwater wetlands bordering the Great Salt Lake, which form a relatively small, but highly productive part of the much larger Great Salt Lake ecosystem. The lake is of local, regional, and international importance, and has been listed as a “Hemispheric Shorebird Reserve,” one of only 15 such sites in the Americas (Canada, U.S., Mexico, Central and South America). The Great Salt Lake has been designated for this protection because it has worldwide significance as habitat

for several shorebird and other waterfowl species including American avocet, black-necked stilt, Wilson's phalarope (*Phalaropus tricolor*) and eared grebe (*Podiceps nigricollis*), supporting at least 30% of the total flyway population of these species at some point in their annual breeding and migration cycle. Birds make significant use of the abundance of brine shrimp that occur on the Great Salt Lake during the late summer and early fall to fuel themselves for successful migration to their destinations. In addition to the Lake itself, birds also make use of the wetlands on the shores of the Lake (including those in the North Zone area) for nesting, feeding and resting during migration.

Although the North Zone wetlands are contaminated with a variety of constituents, selenium has been the primary contaminant of concern with regard to trust resources. Selenium is a trace metal that is a required nutrient at very low concentrations; however, the Service has identified it as a source of injury to DOI's trust resources because of its tendency to accumulate to toxic concentrations in water/sediment associated food chains, and because reproductive success in some bird species is particularly sensitive to selenium toxicity^{4,5}. Selenium imported into sediments in the North Zone wetlands via contaminated groundwater and other sources can be taken up and bioaccumulated in plants, invertebrates and fish in the shallow wetlands and ponds. These organisms can then be consumed by waterfowl, shorebirds and other wetland-dependent birds. Birds can also be exposed to selenium in sediments and soils via direct ingestion while feeding on plants or invertebrates in these substrates. Although limited sampling of birds and eggs at the North Zone wetlands did not demonstrate direct effects on embryo development or nesting success, it is recognized that levels of selenium in some samples of avian dietary items (e.g., algae, aquatic insects) and bird eggs were high enough to potentially cause effects. Birds are highly sensitive to selenium contamination, with relatively low concentrations in the diet

⁴ Heinz, G.H., 1996. "Selenium in Birds," in: *Environmental Contaminants in Wildlife*, Beyer, W.N, G.H. Heinz, A.W. Redmon-Norwood, eds. CRC Press, Boca Raton, FL; pp 447-458.;

⁵ Ohlendorf, H.M., 2003. "Ecotoxicology of Selenium," in: *Handbook of Ecotoxicology*, Second Edition, Hoffman, D.J., et al., eds. CRC Press, Boca Raton, FL; pp 465-491.

leading to reproductive failure, including alterations in egg-laying and malformation and death of chick embryos⁵.

The Service considered chemical analytical data, ecological risk assessments, biological surveys and other lines of evidence in evaluating injuries to Trust natural resources at the North Zone Wetlands. Selenium concentrations in many of the eggs collected by KUCC in the North Zone wetlands for ecological risk assessments exceeded toxicity-based benchmarks for adverse reproductive effects in birds, including teratogenic effects (congenital deformations) and embryo mortality. In egg samples where dietary items (aquatic macroinvertebrates) had been collected in locations in close proximity to where the eggs were collected, there was a high correspondence between elevated selenium concentrations in eggs and elevated selenium concentrations in the corresponding aquatic macroinvertebrate samples, indicating that dietary uptake was a plausible mechanism for the elevated selenium concentrations observed in the eggs.

Based on this information and other factors, the Service evaluated what would be necessary to restore, replace or acquire Trust resources equivalent to those injured in the North Zone. This evaluation considered residual injury to avian populations and their supporting habitats. The Service also concluded there is an increment of natural resource injury associated with the habitats that are being remediated and restored on-site at the North Zone wetlands. Typically, wetlands and other habitats that are restored do not achieve full ecological services for some period of time. The Service considers these lost services as an interim lost use, and were also taken into consideration in the DOI's assessment of injury and losses at the North Zone wetlands. These losses were not fully quantified as part of the development of the cooperative resolution of potential NRDA claims between the DOI and KUCC; however, their identity and magnitude of impact were considered in developing the restoration alternatives that were evaluated and that are presented in this Restoration Plan. The Service believes that the restoration presented in this document is appropriate for the losses for which the DOI determined to have occurred to its trust resources.

1.4 Purpose and Goals of Restoration

The purpose of Restoration as described in this Plan is to return migratory bird and waterfowl populations (Trust natural resources) injured at the KUCC North Zone Wetlands to a state where they can provide ecological and social services at the same level as occurred before hazardous substances were released (i.e., “baseline”; see Glossary for definition). There are a variety of potential means to accomplish this, including rehabilitation of the natural resources at the site of the injury (known as primary restoration), or replacement or acquisition of equivalent resources that provide the same services as the injured resource (known as compensatory restoration). Restoration projects can be designed to accomplish one or both of these goals, generally depending on the type of natural resource injury involved, and the availability of restoration opportunities. In general, restoration projects are evaluated on their ability to restore, rehabilitate or replace (e.g., through acquisition) natural resources similar to those that were injured (known as “in-kind” restoration); when these opportunities may not be available, restoration, rehabilitation or replacement of other natural resources (known as “out-of-kind” restoration) may be considered.

The response actions at the North Zone Wetlands that are being performed pursuant to the ROD signed by the EPA will eventually result in the recovery of a certain level of natural resource services; however, the Service does not anticipate that natural resources at the North Zone Wetlands will recover to “baseline” levels (defined in 43CFR § 11.14 as levels of service that existed, or would exist if the release of hazardous substances had not occurred) even when remediation is completed. This baseline level, while not quantified, is considered by Service biologists to be a function of the areas (extents) of various wetland habitat types at the North Zone Wetlands, the food sources and other habitat attributes associated with those habitat types, and of primary importance to the DOI and the FWS, the occurrence and productivity (e.g., nesting success and success in rearing young) of migratory birds and waterfowl that would be associated with these habitat types and areas in a baseline condition. Accordingly, the primary goal of natural resource restoration as addressed in the CD and in this Restoration Plan is to acquire and/or restore in-kind natural resources in the

vicinity of the loss (e.g., the south shore of the Great Salt Lake). The success of this action in restoring natural resources lost at the North Zone Wetlands will be primarily determined by evaluating changes in the natural resource characteristics described above (i.e., habitat types and areas, and avian productivity) compared to a pre-restoration “baseline” condition at the site selected for restoration (see Section 3, Monitoring Program and Performance Standards).

A strategy to accomplish these restoration goals has been negotiated between KUCC and DOI. This strategy, jointly agreed upon, consists of:

- 1) Acquisition of land and water in the vicinity of the North Zone Wetlands that will support natural resources of a type and quantity (i.e., in-kind) that the Service determined to be injured or permanently lost due to releases of hazardous substances at the North Zone Wetlands;
- 2) Completion of habitat enhancement activities on the acquired land that will proportionally increase the natural resource value for the benefit of DOI trust resources;
- 3) Management, preservation and protection of acquired land in perpetuity to ensure restoration of natural resources the Service determined to be impacted at the North Zone Wetlands.

1.5 Compliance with Other Authorities

Although this Restoration Plan is written in accordance with DOI policies and CERCLA NRDA regulations, the actions anticipated under this plan are subject to a variety of other Federal environmental regulations and Presidential Executive Orders (EOs). Current DOI guidance requires the integration of environmental review into restoration planning pursuant to the National Environmental Policy Act (NEPA). NEPA review requires:

- 1) A determination of the appropriate level of environmental analysis for the project, ranging from a determination of categorical exclusion (for projects meeting the assumptions and conditions of such an exclusion) to an

- Environmental Impact Statement (in cases where activities having major environmental effects and implications are contemplated); and
- 2) if analysis is required, comparison of a range of action alternatives to accomplish the goals (“purpose and need”) of the project, including a “no action alternative.”

Section 1.5.1 contains information regarding the level of NEPA analysis required for the actions proposed under this Restoration Plan; the following sub-sections evaluate the impacts that the proposed actions could have to other components of the physical environment and human environment (i.e., cultural, social and economic impacts).

1.5.1 National Environmental Policy Act

The Service has determined that this Draft Plan and the proposed action described herein are categorically excluded (see glossary) from the National Environmental Policy Act (NEPA) (42 U.S.C. § 4321 et seq.) in accordance with the DOI’s Departmental Manual (DM) at DM 6 §516. This determination is based on the conclusion that the proposed actions represent a resource management action where:

- 1) “the construction of new, or the addition of, small structures or improvements, including structures and improvements for the restoration of wetland, riparian, instream, or native habitats, which result in no or only minor changes in the use of the affected local area (including the construction of small water control structures) (516 DM 8.5 B(3));” and
- 2) “Natural resource damage assessment restoration plans, prepared under sections 107, 111, and 122(j) of the CERCLA... when only minor or negligible change in the use of the affected areas is planned.” (516 DM 8.5 B(11))

Attachment 2 to this plan contains the text of 516 DM 8.5 with the relevant exclusions highlighted, and other NEPA compliance documentation including a categorical exclusion checklist and verification form (FWS Form 3-2185), and an Environmental

Action Statement (EAS), which provides written justification for the categorical exclusion.

Based on this determination, no other alternatives (including the no-action alternative) were formally identified and analyzed for environmental impact during the development of this Restoration Plan. However, during the planning process, several alternatives for various aspects of the project, such as water sources and land and water management alternatives were considered by the parties to the Settlement (DOI, FWS, KUCC and TNC). However, the actions presented in this Restoration Plan were selected as being the most effective, sustainable, and/or cost-efficient for the purposes of accomplishing the objectives of the restoration of natural resources in this case.

1.5.2 Other Relevant Environmental Regulations

In addition to the NEPA, federally-linked actions such as the proposed restoration actions at the Lakepoint property must conform to all other relevant laws, and relevant Executive Orders (EOs) issued by the Executive Branch of the Federal government. These laws and orders include other environmental regulations, management and coordination laws, human health and worker safety laws, and cultural regulations. These authorities and the actions or consultations that have been performed to conform to them are presented below, grouped by general area of applicability.

1.5.2.1 Clean Air Act

The Clean Air Act Amendments of 1990 (CAA), 42 USC 13101 *et seq.* directs the EPA to set limits on air emissions from both regulated and unregulated sources to ensure basic protection of human health and the environment. Restoration actions at the Lakepoint property will involve basic construction techniques and equipment and will involve a relatively small area of impact (less than 5 acres in total disturbed area). These actions are not anticipated to generate air quality concerns other than an occasional need for dust control (e.g., while installing/modifying ditches, canals or culverts). Construction techniques such as excavation and grading will be expected to be conducted in accordance with any requirements regarding dust control or other fugitive emission sources. Entities (e.g., KUCC) or contractors performing construction

activities at the site will be expected to maintain compliance with any applicable CAA requirements, such as emissions requirements on heavy construction equipment.

1.5.2.2 Clean Water Act

The Clean Water Act (CWA), 33 USC 11 *et seq.* is the principal law governing pollution control and water quality of the nation's waterways. The CWA also addresses the function and water quality of wetlands under Section 404. This body of regulations authorizes permit programs for the disposal of dredged or fill material into statutorily defined navigable waterways (including most wetlands), and is administered by the US Army Corps of Engineers (USACOE).

Some restoration activities planned for the Lakepoint Property might fall under the scope of Section 404 of the CWA, such as upgrades or modifications to existing ditches and culverts on the property. It is not anticipated that any of these activities will require an individual 404 permit (e.g., dredging/filling of natural stream channels, re-directing or re-routing of water in natural stream channels); instead the relatively minor hydrologic modifications that are planned at the Lakepoint Property are expected to be within the scope of Nationwide Permit 27 (NWP27). This permit is applicable to stream and wetland restoration activities involving the enhancement, creation and restoration of tidal and non-tidal stream, wetlands, riparian areas, and open water areas.

In addition to wetland permitting, and depending on the final design of the conveyance system that transports supplemental water to the Lakepoint Property, additional permitting may be required to authorize changes in diversion points on existing streams and canals. These permits are administered by the Utah Department of Natural Resources Office of the State Engineer, but are certified by the Utah Department of Environmental Quality under Section 401 of the CWA.

Per agreements outlined in the CD, KUCC will have the responsibility of contacting the USACOE and/or the State of Utah to supply necessary documentation and obtain required permits for these activities at the Lakepoint Property.

1.5.2.3 *Endangered Species, Migratory Birds and Eagles*

The Endangered Species Act (ESA), 16 USC 1531, *et seq.*, 50 CFR Parts 17, 222, and 224, directs all federal agencies to conserve threatened and endangered (T&E) species and their habitats, and encourages such agencies to utilize their authority to further these purposes. Section 7 of the ESA requires that federal agencies consult with USFWS to minimize the effects of their actions on endangered and threatened species. Although USFWS is the lead Federal action agency in the proposed restoration at the Lakepoint property, these consultation requirements are still applicable.

A list of endangered and threatened species for Tooele County was requested and obtained (see correspondence, Attachment 4) to assess the possibility of adverse impacts to T&E species at the Lakepoint property. Other than occasional transient individuals, no federally listed or proposed T&E species are known to exist at the Lakepoint property. In addition, no habitat in the project area is currently designated or proposed as “critical habitat” for any T&E species in accordance with provisions of the ESA. Therefore, no Biological Assessment or further Section 7 consultation under the ESA is required with the Service. Should project plans change, or if additional information on listed or proposed species or critical habitat becomes available, this determination may be reconsidered.

The Migratory Bird Treaty Act (MBTA), 16 USC 715 *et seq.*, and EO 13186, Migratory Bird Protection, provide for the protection of migratory birds. These regulations do not specifically protect the habitats of these birds, but may be used to consider time-of-year restrictions for remedial activities on sites where it is likely migratory birds may be nesting and/or to stipulate maintenance schedules that would avoid the nesting seasons of migratory birds. The Management Plan incorporates these timing restrictions.

Because one of the primary management goals for the Lakepoint Wetland is to provide nesting habitat for migratory birds, construction and maintenance activities will be scheduled in such a way as to minimize impacts to migratory birds, including nesting

seasons and migratory stop-over periods. Migratory bird specialists within the Service's Utah Field Office were consulted about ways to accomplish this during the development of this Restoration Plan; consultation will also occur as necessary in the future as part of the involvement of the Service in the implementation of the Restoration Plan and also in TNC's ongoing management of the Lakepoint Wetlands, as directed in their Management Plan (Attachment 3).

The Bald Eagle and Golden Eagle Protection Act specifically provides for the protection of these raptors. Their requirements regarding restrictions on time of year and other protections are similar to those outlined in the MBTA. As discussed above, no eagles currently nest on, or utilize the Lakepoint property; however, if this were to change in the future, management activities at the site would be scheduled and conducted to avoid impacts to these birds.

1.5.2.4 Fish and Wildlife Coordination Act

The Fish and Wildlife Coordination Act (FWCA), 16 USC 661, *et seq.*, states that wildlife conservation shall receive equal consideration with other features of water-resource development. The FWCA requires Federal permitting and licensing agencies to consult with Federal natural resource Trustee agencies including USFWS, National Marine Fisheries Service (NMFS), and the National Oceanic and Atmospheric Administration (NOAA) and with state wildlife agencies before permitting any activity that in any way modifies any body of water in order to minimize the adverse impacts of such actions on fish and wildlife resources and habitat.

The USFWS is the lead Federal agency, and Natural Resource Trustee for this Restoration Plan, and no permits (e.g., CWA Section 404 permits; see Section 1.5.1.1) are anticipated to be needed to complete the actions called for in the Plan. Therefore, the FWCA does not specifically apply to this project. However, in the course of developing the plan, the Service has consulted internally with biologists who normally review plans from other agencies. In addition, the Public Comment Draft versions of this Restoration Plan will be made available to these biologists and to the Utah Division of Wildlife Resources during the public comment period.

1.5.2.5 Executive Order 11990 Protection of Wetlands

Executive Order 11990 (40 CFR 6392 (a) and Appendix A) requires federal agencies to avoid the adverse impacts associated with the destruction or loss of wetlands, to avoid new construction in wetlands if alternatives exist, and to develop mitigative measure if adverse impacts are unavoidable.

The activities proposed in this Restoration Plan are in compliance with and fully address the intent of this Executive Order.

1.5.3 American Indian Tribes

The Lakepoint property that is the subject of this Restoration Plan consists of about 600 acres of land located adjacent to the south shore of the Great Salt Lake. This area has historically been a resource to people living near the lake, including Native American Indian tribes. Ancestors of at least three currently existing tribes used areas of the Great Salt Lake shore that may have included the Lakepoint property: the Western Shoshone, the Utes, and the Goshutes. The Skull Valley Goshute Band is currently located about 40-50 miles southwest of the property, in Skull Valley.

While the Lakepoint property is privately owned land that is not within any native American reservation boundaries, there are several laws relating to American Indian tribes that could potentially be relevant based on possible historic use of the site by ancestors of these Native Americans. These laws and orders include the American Indian Religious Freedom Act; the Native American Graves Protection and Repatriation Act; EO 13175, Consultation and Coordination with Indian Tribal Governments, and EO 13007, Indian Sacred Sites. In fulfillment of the requirements of these regulations and guidance, the Western Shoshone, Goshute, and Skull Valley Goshute tribes will be consulted as part of the public comment process following finalization of the Consent Decree between DOI and KUCC. This consultation will be undertaken to determine if there are any cultural concerns about the Lakepoint property relative to their tribal history. Correspondence to and from the tribes regarding this inquiry will be included as part of the public record and the final Restoration Plan.

1.5.4 Cultural and Historic Resources

In addition to potential Native American historic use, the Lakepoint property has also been evaluated for the potential that historic structures or other culturally significant uses associated with settlement by European pioneers or other groups might exist on the property. The laws associated with these uses are the Archaeologic Resources Protection Act, and the National Historic Preservation Act. These acts require federal action agencies to consult with State Historical Preservation Offices to determine if a project area has, or is likely to have culturally significant resources, and if the proposed project may potentially impact those resources. In fulfillment of this requirement, the Service will provide Utah State Historical Preservation Office (USHPO) with maps and a description of the proposed restoration project following finalization of the Consent Decree between DOI and KUCC for their determination as to the presence or knowledge of known historic or pre-historic data, sites, or relics that may be lost or impacted by the proposed project. Correspondence to and from the USHPO regarding this finding inquiry will be included as part of the public record and the final Restoration Plan.

1.5.5 Environmental Justice, Human Health and Worker Protection

1.5.5.1 Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations; Executive Order 12948, Amendment to Executive Order 12898.

Executive Orders 12898 and 12948 require each federal agency to identify and address, as appropriate, disproportionately high and adverse human health or environmental effects of its programs, policies and activities on minority and low-income populations. The Trustee has concluded that there are no low income or ethnic minority communities that would be adversely affected by the proposed restoration activities. The project will be implemented on land that is currently owned by KUCC and is in an area where there are no residences within a ½ mile radius. To the extent that the Lakepoint Wetland will be a community resource (e.g., limited educational and conservation outreach opportunities), this resource will be equally available to all communities in a manner consistent with the Management Plan.

1.5.5.2 Occupational Safety and Health Act

The Occupational Safety and Health Act of 1970 created the Occupational Safety and Health Administration (OSHA) within the Department of Labor and encouraged employers and employees to reduce workplace hazards and to implement safety and health programs. OSHA standards may require conditions, or the adoption or use of one or more practices, means, methods or processes reasonably necessary and appropriate to protect workers on the job. Where OSHA has not promulgated specific standards, employers are responsible for following the Act's general duty clause, which states that each employer "shall furnish a place of employment which is free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees." Crews conducting restoration work at the Lakepoint property are anticipated to be employed by KUCC, TNC, or their contractors, and specific worker health and safety requirements related to those activities (e.g., excavation, construction, operation of other equipment, conduct around water, etc.) are the responsibility of those employers. The Service is committed to a safe workplace and supports and expects that those employers will have an adequate OSHA program in place for the activities that they will be conducting.

1.6 Coordination with Interested Parties and the Public

This Restoration Plan was developed pursuant to a negotiated settlement of the DOI's NRD claim between the U.S. Fish and Wildlife Service and KUCC. The Nature Conservancy was also involved in the development of this plan as the independent third party that will be responsible for the implementation of restoration and subsequent management of the property. KUCC's involvement in the development and implementation of this plan has been and will be substantial including designation of the property to be restored, implementation of certain property improvements for restoration prior to land transfer (e.g., water conveyance structures, fencing, etc.), transfer of water rights and points of diversion, and certain other in-kind contributions.

Because of the nature of the development of this Restoration Plan as a negotiated settlement, the public, including other state and federal agencies, has not been involved in the development and coordination of this plan in the development

stages. The State of Utah did not participate in settlement negotiations leading to the consent decree and this restoration plan. However, coordination with the public and state and federal agencies will be conducted as part of the public comment process that will occur once the settlement is lodged.

1.6.1 Public Notification

As required by CERCLA, this restoration plan and the actions outlined shall not be finalized or implemented until after adequate public notice and opportunity for hearing and consideration of all public comment. Once the Consent Decree has been lodged with the United States District Court for the District of Utah, a Notice of Availability for the Consent Decree, including a Draft version of this Restoration Plan as an attachment to the Consent Decree, will be published in the Federal Register. Notice will be published as well in local newspapers for Salt Lake and Tooele Counties (the Salt Lake Tribune, the Deseret News, and the Tooele Transcript-Bulletin). This notice will open a 30-day public comment period for the Consent Decree and for the Draft Restoration Plan, including all attachments to both the Consent Decree and the Draft Restoration Plan. Copies of the Consent Decree, the Draft Restoration Plan, and all attachments will also be available for review during office hours at the following locations:

- Salt Lake County Library-- Magna Branch, 8339 West 3500 South, Magna, 84044 (telephone: 801-944-7626)
- J. Willard Marriott Library, University of Utah, 295 S 1500 E, Salt Lake City, UT 84112 (telephone: 801-581-6273 or fax: 801-585-3464).
- U.S. Fish and Wildlife Service, Salt Lake City Ecological Services Field Office, 2369 W. Orton Circle, Suite 50, Salt Lake City, UT 84119 (telephone (801) 975-3330; fax: (801)975-3331)

In addition, the Draft Plan and supporting documents will be made available on the internet at:

<http://mountain-prairie.fws.gov/nrda/LakepointWetlands.htm>.

Service and TNC, and following completion of restoration activities that will be performed by KUCC (with the input of TNC), TNC will:

- implement their Management Plan (Attachment 3 to this Restoration Plan);
- establish and maintain an endowment for the implementation of provisions of this Restoration Plan for which TNC is responsible, as well as provisions of their Management Plan, using funds provided by KUCC for that purpose under the terms of the settlement of NRD claims between KUCC and the Service;
- Oversee restoration implementation, and monitoring, use of endowment funds, and other information relevant to restoration and management of the restored Lakepoint Wetland. This oversight will include updates to the Service in the form of agreed-upon periodic reporting and meetings.

1.6.4 Administrative Record

An administrative record for the NRDAR Restoration Process (including the Restoration Plan) will be maintained at the U.S. Fish and Wildlife Service, Salt Lake City Ecological Services Field Office, 2369 W. Orton Circle, Suite 50, Salt Lake City, UT 84119 (telephone (801) 975-3330; fax: (801)975-3331). Pertinent public documents relating to the restoration will be available for public review, by appointment, during normal business hours at the above address. These documents will be cataloged and an index will be available by contacting the FWS Utah Field Office.

2.0 Proposed Restoration Action

2.1 *Criteria for Identifying and Selecting the Proposed Action*

As explained in Section 1.4, the goal for restoration of natural resources injured at the KUCC North Zone wetland is to restore and/or improve in-kind natural resources in the vicinity of the loss (e.g., the south shore of the Great Salt Lake). Therefore, the primary criteria for the selection of the proposed action were:

- Similarity of habitats, natural resources and services to those that occurred at the site under baseline conditions;
- Proximity to the South Shore of the Great Salt Lake, and functional connection with the hydrology, soils, plant communities and avian communities that comprise the Great Salt Lake freshwater wetland ecosystem
- Possibility of wetland enhancement or creation such that the magnitude or quantity of in-kind natural resources injured at the North Zone wetland could be made whole

Secondary selection criteria included a variety of legal and pragmatic considerations, such as the availability and legal status of property, the existence of a willing seller, the likelihood and type of development expected on adjacent properties, the feasibility and expense of modifications that would be required to restore and replace natural resources similar to those lost at the KUCC North Zone, the technical and financial sustainability of restoration efforts over time, and the existence and willingness of a third party to receive the lands for future management and protection in perpetuity.

Through cooperative negotiations with KUCC, a suitable property currently owned by KUCC was identified that met these criteria. This property (“the Lakepoint property”) is located approximately six miles west-southwest of the North Zone Wetlands, and is directly adjacent to the south shore of the Great Salt Lake. During negotiations, other options for restoration were explored, including but not limited to on-site (KUCC North Zone) restoration, off-site restoration at other properties, both on the Great Salt Lake shoreline and at other locations, and contributions or participation in other wetland restoration and preservation efforts, such as mitigation banks.

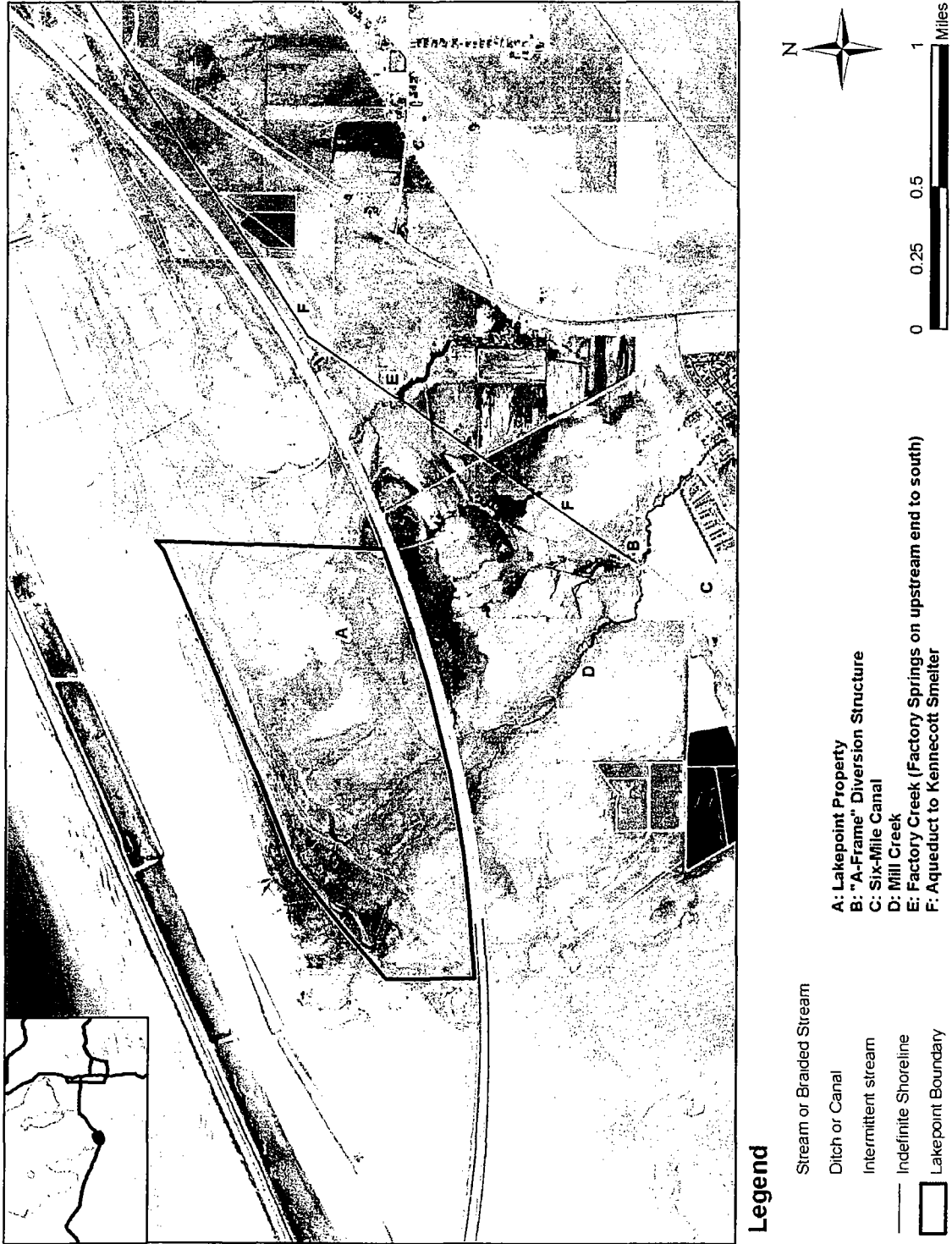
The NEPA process was followed in the development of this plan. Moreover, by evaluating the nature and scope of the actions contemplated for restoration (see Section 1.5) it was determined that actions associated with the restoration plan can be categorically excluded from NEPA analysis.

The Lakepoint property was selected for restoration because it was determined and agreed-upon by the Service, KUCC and TNC that the property was a viable location for restoration activities that would yield an increase in natural resources of a type and magnitude similar to those injured at the North Zone wetland, at an expense and level of effort that was consistent with the Service's claim for natural resource damages at the North Zone. It is the judgment of the Service that the restoration actions described below will result in restoration that will compensate the public for losses incurred at the North Zone wetlands.

2.2 Description, Protection and Present Conditions at the Lakepoint Property

The Lakepoint property is located on the south shore of the Great Salt Lake, approximately three miles north-west of Tooele, Utah, and approximately six miles west of the KUCC North Zone Wetlands (Figure 2-1). Prior to its selection as a site for restoration (ca. 2003), the property had been leased by KUCC for cattle grazing and ponds on the property were managed by duck hunting clubs that leased hunting rights during the fall. Land use in the area of the Lakepoint property is currently primarily agricultural (grazing); however at this time, eastern Tooele County is experiencing very high growth rates because of its proximity to the Salt Lake City metropolitan area. The Lakepoint property is accessed via a frontage road originating at the Tooele interchange on Interstate Highway I-80; this location and freeway access makes it fairly likely that upland portions of the property could be developed in the future.

Figure 2-1



Lakepoint Wetland Property and Nearby Hydrologic Features

The Lakepoint property is essentially flat with a slight north-northwest down sloping gradient towards the lake to the north. At present, approximately 70% of the property is upland, dominated primarily by saltgrass (*Distichlis spicata*), with a few other grasses present. Sub-shrubs, including greasewood (*Sarcobatus vermiculatus*), rabbit brush (*Chrysothamnus* spp.) and others are present, especially in the southeastern quadrant of the property. Presently (i.e., prior to restoration) about 30% of the property is wetland, oriented along the two branching watercourses of Mill Creek that flow through the property. These wetlands consist of a variety of types, including seasonally flooded wet meadows, emergent marsh, and open water ponds, and are vegetated primarily with saltgrass and halophytic forbs such as pickleweed (*Salicornia* spp.) and ink weed (*Suaeda* spp.). There are some open playa areas with hypersaline soils and essentially no vegetation; these are restricted primarily to the northern border of the property nearest to the Great Salt Lake shore. Irrigation and drainage ditches bordering the property on the north and west are edged by tamarisk (*Tamarix* spp.) and common reed (*Phragmites* spp.).

At present, the Lakepoint property is used by a variety of migratory bird species similar to those that occur at the North Zone wetlands, including American avocet, stilt, and killdeer (*Charadrius vociferous*); waterfowl such as mallard, blue-wing teal, northern shoveler and others. In addition, grassland songbirds including western meadowlark (*Sturnella neglecta*), horned lark (*Eremophila alpestris*) and Savannah sparrow (*Passerculus sandwichensis*) use the upland areas of the property. Other wetland dependent bird species that occur on the Lakepoint property are relatively rare on the North Zone Wetlands. These include long-billed curlews (*Numenius americanus*), which use upland areas, and snowy plover (*Charadrius alexandrinus*), which feed and nest on the salt playas on the north and west margins of the property. Raptors, including northern harriers (*Circus cyaneus*), American kestrels (*Falco sparverius*) and red tail hawk (*Buteo jamaicensis*) can be seen hunting for small mammals or songbirds

on the property; the peregrine falcon occurs in the Great Salt Lake ecosystem, and may pursue shorebirds, waterfowl and other species on the property.

2.3 Proposed Restoration Actions

The desired future conditions at the restored Lakepoint Wetland are listed as management objectives in TNC's Management Plan, which is attached to this Restoration Plan (Attachment 3). These objectives include:

- 1) Maintaining high quality shorebird habitat;
- 2) Improving lower-quality shorebird habitat via water manipulations, vegetation treatments and other management measures;
- 3) Providing habitat for other native wildlife species including songbirds, raptors and mammals;
- 4) Maintaining and managing water, sediment and soil quality in habitats on the property;
- 5) Providing limited public access and educational opportunities consistent with the primary habitat uses of the property; and
- 6) Operating the Lakepoint Wetland in a manner that is compatible with land use on surrounding properties to the extent possible given the primary management objectives of the property.

It is the goal of the Service to ensure that these objectives are maintained into perpetuity.

In order to meet the objectives described above at the Lakepoint Wetland, a variety of restoration activities are needed both to improve the amount and quality of natural resources that can be supported by the property, and to ensure that these resources are maintained in a sustainable manner into the future. The following

sections summarize the management and restoration actions that are needed to accomplish these goals.

2.3.1 Land Transfer

Under the terms of the Consent Decree, KUCC has agreed to convey the Lakepoint property to TNC. Additional terms of this conveyance, such as documentation concerning the value of the property, up-to-date environmental surveys, and title searches were provided to the Service during negotiations with KUCC and are described in the Consent Decree and its attachments.

2.3.2 Restoration Activities

The Lakepoint property was selected for perpetual protection and restoration because it contains natural resource qualities similar to those found at the KUCC North Zone wetlands, such as the existence of a permanent water source, proximity to the Great Salt Lake and suitable soils and terrain to support avian species similar to those that formerly used the North Zone (i.e., in-kind replacement value). In addition to these, the Lakepoint property also has the potential for active restoration steps to increase the property's productivity and value relative to avian populations (e.g., in-kind restoration) using relatively simple and sustainable restoration activities. These restoration steps will increase the natural resource value of the parcel to a level that compensates for the natural resources injured at the North Zone wetlands.

Restoration at the Lakepoint property can be divided into two phases, initial restoration and longer-term restoration and management. Initial restoration steps will be completed by KUCC as part of the terms of the Consent Decree, with the input of both the Service and TNC (see Table 2-1). These initial restoration activities include:

- 1) Setting aside for perpetuity a suitable tract of land;
- 2) Securing and supplying to the property a reliable supply of adequate quality water;

Table 2-1 Summary of Initial Restoration Actions at Lakepoint property

ACTION	RESPONSIBILITY
1. Land Transfer	
a) Appraisal	TNC/KUCC
b) Phase I Environmental (Pre-Acquisition) Site Assessment	KUCC
c) Legal- title cleanup and transfer, recording, etc.	KUCC
2. Water Diversion from Factory Creek Springs	
a) Legal (water rights, point of diversion permit, etc)	KUCC
b) Engineering design (incl. surveying, etc.)	KUCC, in consultation with TNC and FWS
c) Construction and Construction Oversight	KUCC / TNC as to construction oversight
3. Water Control Structures and Habitat Features on Lakepoint Property	
a) Legal (water rights, necessary permits)	KUCC
b) Structural design	
i) Conceptual Design ⁷	TNC, in consultation with FWS and KUCC
ii) Engineering Design (incl. surveying, etc)	KUCC
c) Construction and Construction Oversight	KUCC with field input from TNC, FWS
4. Other Actions	
a) Fencing and Signage	KUCC with input from TNC, FWS
b) initial seeding and/or weed control	KUCC with input from TNC, FWS
c) Removal of unwanted structures & debris	KUCC with input from TNC, FWS
d) Roads- grading & gravel on main access road; removal/reclamation of unwanted roadways	KUCC with input from TNC, FWS

⁷ Anticipated elements: upgrade/realign/construct 2-3 distribution ditches, construct 1-2 water retention dikes, construct 6-7 total water control points, excavate/re-contour 1-2 ponds, construct 1-2 nesting islands, limited additional upland excavation/construction (e.g., road grading or removal, excavation of burrowing owl nesting boxes)

- 3) Eliminating land uses that are inconsistent with the intended purpose of migratory bird and waterfowl habitat preservation and enhancement. KUCC initiated these steps in 2003 by terminating grazing and hunting leases, and removing cattle from the property.
- 4) Building and/or improving structures to convey water to the property and to distribute it as needed, and/or performing minor earthwork to improve drainage and create areas of standing water;
- 5) Performing any needed initial weed control and seeding; and
- 6) Upgrading and/or improving existing fencing and signage to improve site security and provide needed interpretive or other information to the public.

Longer-term restoration and management of the Lakepoint Wetland will primarily be accomplished by TNC with input and feedback from the Service. This phase of restoration will take the form of “adaptive management” where evaluations of present conditions and the response of the site to previous treatments and activities are used to inform decision-making, with the goal of maximizing natural resource benefits and responding to changing biotic and abiotic conditions at the property. TNC will communicate and coordinate with the Service in this process through reporting and periodic meetings.

The following sections provide additional detail about the activities that will be undertaken during initial restoration at the Lakepoint property; these activities are also summarized in Table 2-1.

2.3.2.1 Water Sources and Selection of Water Source for the Lakepoint Property

Water is currently supplied to the Lakepoint property primarily from the Mill Creek Pond via the Mill Creek drainage. The pond originates from springs near the Benson Mill near Stansbury Park, Utah, about 3-4 miles south of the property (Figure 2-1). Water from the Mill Pond flows north for a short distance before entering a water diversion structure (the “A-Frame”), from which water can be diverted by other water

users for irrigation, and KUCC can divert water into a 36" aqueduct that connects with the Factory Springs area (discussed below). Water not diverted out of the A-Frame continues northward down the Mill Creek drainage, which splits into two branches (an east and west channel) about a mile downstream of the A-Frame, and is carried in two culverts underneath Interstate Highway I-80, before entering the Lakepoint Property on its southern boundary. At present, water from a second source in the area, Factory Springs, can also flow onto the Lakepoint Property. This occurs primarily in the spring, when excess flows from the spring spill over a retention dam, drain north then west along the south side of I-80, and then commingle with flows in the eastern Mill Creek Cannel before flowing under I-80 and onto the Lakepoint Property.

Under the terms of the Consent Decree, KUCC has agreed to provide TNC with water to the Lakepoint property such that the first cubic foot per second (cfs) of water from Factory Springs will be diverted to the property year-round. This amount was determined to be adequate based on the anticipated restored aquatic habitat area on the property, and TNC's knowledge of water needs for Great Salt Lake south shore wetlands based on other habitat areas they manage in the Great Salt Lake ecosystem.

Three potential sources of water were evaluated to provide this water right. The first was water from the Mill Pond, for which KUCC has water rights, along with other water users. The second source of water evaluated was that from Cassidy Springs. This water originates at a spring complex approximately 5 miles west of the A-Frame; it flows eastward in the "Six-Mile Canal" before joining other flows at the A-Frame (Figure 2-1). KUCC owns all rights to this water; at present it is directed from the A-Frame to the Smelter Facility via the Factory Springs aqueduct. However, at present, rights to water in the Mill Pond and A-Frame are shared among several users, including KUCC. Other water users' rights are primarily for irrigation; KUCC has process water rights as well. Because of the variety of water rights holders and water users, the amount of water flowing out of the A-Frame (the control point for the Mill Pond, Cassidy Springs, and the Mill Creek channel) can vary considerably in terms of volume throughout the year, and KUCC has somewhat limited control over this. In addition, because water

upstream of the A-frame may include irrigation return flows from other water-users, there is no way that KUCC can control or guarantee the quality of water.

The third water source that was evaluated was Factory Creek, originating at Factory Springs (Figure 2-1). Factory Creek has a perennial flow, and has historically sustained flows exceeding 5 cfs, including through a recent 5-year drought (about 1999-2004); based on these records it is anticipated that these flows will continue at this capacity into the future. Additionally, all of the flow of Factory Creek is owned and controlled by KUCC. Based on these factors, KUCC selected Factory Creek as the most suitable source from which water could reliably be provided to the Lakepoint Property. Water from this source would be supplied to the property via a 12-inch pipeline that would enter the southeast corner of the property.

The water right to the first cfs of the flow from Factory Creek will be transferred by KUCC to TNC. However, if a prolonged drought or changes in groundwater extraction by non-Kennecott entities causes total discharge from Factory Springs to decrease below 1 cfs, diversion of water to the Lakepoint property would only be equivalent to the water available from the Factory Springs source. The specifics and limitations if such conditions occur are described in detail in the property transfer agreement between KUCC and TNC, which is included with the Consent Decree in Attachment 1.

In addition to this provided water source, water that is presently supplied to the Lakepoint Property as described above may continue flowing onto the property, resulting in flows greater than 1 cfs to the property. However, there is no guarantee or certainty to the quantity and duration of these flows because water management changes by KUCC or others may decrease or increase these excess water flows at any time (in fact, this is why KUCC elected to provide water from the Factory Springs source). TNC may elect to apply for rights to this water in order to secure the ability to divert these excess flows for wetland restoration on the Lakepoint property. However, from the standpoint of NRDA restoration on the Lakepoint Property, FWS and KUCC

have agreed that the 1 cfs provided by KUCC in the Consent Decree is adequate to ensure that restoration goals at the property will be met.

2.3.2.2 Water Conveyance

Under the terms of the Consent Decree, KUCC will construct a pipeline to deliver water from Factory Creek to the Lakepoint Property. This will involve the placement of a 12-inch high density polyethylene pipeline within a 16-inch boring underneath the interstate, terminating on the southeast corner of the property. Water delivered to this point, which is at the highest elevation on the property, will be routed and used where needed for restoration activities, with field construction design jointly performed by KUCC and TNC, and construction activities carried out by KUCC.

A planned valve and diversion structure for the pipeline will be located at the water delivery point on the Lakepoint property to allow the restoration property managers (TNC) to control the amount and destination of water without having to gain access to other properties off-site of the restoration property. However, this water delivery mechanism will necessitate the granting of a perpetual easement by KUCC to TNC for access to and maintenance of the pipeline on lands owned by KUCC upstream (southeast) of the Lakepoint property (i.e., between the Factory Creek pipeline origin point and the Lakepoint property). Under the terms of the Consent Decree and Transfer Agreement, the endowment provided by KUCC includes funding to cover anticipated long-term pipeline maintenance costs. KUCC will endeavor to design the pipeline route so that it avoids existing wetlands. However, as discussed in Section 1.4.1.2, if Section 404 or Stream Alteration Permits are needed in order to work in wetlands, KUCC will work with the USACOE and/or the State of Utah Department of Water Quality to obtain any necessary permits.

Because the present Mill Creek channel alignments will not be modified, water that flows into these alignments will continue to be able to report to the Lakepoint property when the water is available. This water will then be in addition to the water provided by the pipeline from Factory Creek.

Downstream of the water delivery point, KUCC will construct or improve currently existing water diversion structures. The goal of these improvements will be to improve the ability of TNC's wetland manager to direct water throughout the parcel as needed. This will involve building or upgrading currently existing channels to distribute water to the Mill Creek Channel alignments and to the eastern portions of the property, upgrading three presently existing culverts that allow water to pass under the access road running through the property, construction or expansion of a dike upstream of the "Borrow Pond" to increase the acreage of ponded water upstream of the dike, and upgrade/reconstruction of the presently existing outflow structure (at the downgradient end of the Borrow Pond) both to ensure that it can handle anticipated flows, and to locate it at the topographic bottom of the pond so it can be drained if required (Figure 2-2).

The surveying and engineering work required to design this diversion and delivery system has not been completed, but under the terms of the Consent Decree KUCC will provide and/or finance this work. However, the Service, KUCC, and TNC will work cooperatively to design these features. TNC, as the final property holder and manager, will operate the water management structures on the Property on a day-to-day basis.

2.3.2.3 Habitat Management

Once KUCC's construction and restoration activities have been completed in accordance with this Restoration Plan, and administrative (property and water rights) and water distribution and management activities have been completed, TNC will assume responsibility for long-term management of the Lakepoint Wetland. This will be conducted according to the goals, objectives, strategies and activities identified in TNC's "Restoration and Management Plan for the Lakepoint Wetland" (the Management Plan), attached to this Restoration Plan (Attachment 3). Further specifics of the relationship that the Service will have with TNC with respect to management of the Lakepoint Wetland are described in a Memorandum of Agreement (MOA) which is attached to the Consent Decree.

The primary habitat management objectives identified in TNC's Management Plan for the Lakepoint Wetland (Attachment 3) are as follows: 1) maintaining and improving habitats for shorebirds, waterfowl and other wetland dependent avian species, including protection of existing nesting habitat and the expansion of nesting habitat through increase in area of ponded water; 2) maintaining and improving habitat for other avian, mammalian and other wildlife species that may also occur on the property; and 3) managing water quality on the property to support the uses described above.

A secondary habitat management objective for the Lakepoint Wetland is the provision and management of the area as a public resource, with use subject to limitations that support the primary management goals of the area, such as closure of the property during nesting seasons, closure of more sensitive areas such as nesting or resting areas, and closure to uses such as hunting. Opportunities for public education are anticipated under this use, such as through the use of interpretive signage or kiosks, guided tours and visits, and research or educational outreach activities.

As the Lakepoint Wetland is adjacent to other private and public properties, and may be included in other entities' management plans (e.g., mosquito control programs managed by local governmental agencies), it is also an objective of the TNC to manage habitats in such a way to maintain "good neighbor" relations with these entities, and to work to integrate these activities with habitat management at the property. Specific strategies and activities that can be undertaken to accomplish these habitat management goals are identified in TNC's Management Plan. However, an "adaptive management" approach will be used to adapt these strategies and activities as needed, as this has proved to be the most effective way to "fine-tune" habitat restoration and management at other projects across the country.

2.3.2.4 Water Quality Management

One of the significant factors in the design and management of restoration of the Lakepoint property is a concern for the maintenance of adequate water quality to support the use of the property as nesting and feeding habitat for shorebirds and other

Service trust resource species. Besides water quantity, another concern of the FWS is the accumulation, buildup and/or bioaccumulation of salts and metals (specifically selenium) at the Lakepoint property. Because natural resource injuries at the KUCC North Zone Wetlands were centered on adverse impacts from selenium, special attention was paid to this possibility while evaluating the restoration potential of the Lakepoint property. Water, soil and sediment samples were collected and evaluated for selenium in areas of the property that are either currently ponded wetland habitat, or might be converted to ponded habitat during restoration. Water sources, including Factory Creek, Mill Creek upstream of the property, and water from Cassidy Spring and the Six Mile canal were also analyzed. The results of these analyses indicate that water samples from the source areas, and on the property, contain in some cases more than the 2 micrograms per liter ($\mu\text{g/L}$) total selenium considered unequivocally safe by the Service, but in all cases less than 5 micrograms per liter ($\mu\text{g/L}$), the current Utah and EPA Chronic Criteria for the protection of aquatic life. Selenium concentrations in sediments and soils in upland areas that might be converted to aquatic habitat following restoration range from 2 to 6 milligrams per kilogram (mg/kg) selenium. Based on knowledge of the land use history of the site and the surrounding area, these concentrations appear to represent local geologic and hydrologic background conditions. As such, the Service has judged that that the water quality and sediments at the site are suitable for restoration, and that water management such as those described in this Restoration Plan may optimize habitat restoration and enhancement.

While selenium concentrations in water and soils at the Lakepoint property appear to be representative of background, there were some cases where they approached the 5 $\mu\text{g/L}$ benchmark, and based on experiences at other restoration sites in Utah and the western United States, Service scientists believe that water resources on the property should be managed to minimize the accumulation of selenium in wetland biota (avian food sources). This may be accomplished by strategies such as periodically allowing ponds to dry during the summer, flushing them in the fall, and drawing them down in the winter. Drying ponds and wetlands may stimulate the biomethylation and oxidation of selenium, with flushing intended to remove the re-

dissolved selenium from the system. Other management strategies may include designing ponds so that they can be drained and managed independently; and if necessary, minimizing the residence time of water in ponds (e.g., “flow-through” ponds) during summer and fall. Initial and post-restoration (e.g., for five years after restoration activities have been completed) monitoring, including chemical analysis of water and sediments for selenium (see Section 3.1.3), will be used to determine actual trends in selenium accumulation. If warranted by monitoring results, water management strategies for the wetland may be adjusted to address adverse accumulation of selenium.

2.3.3 Long Term Management

TNC will implement long term management of the Lakepoint Property (i.e., beyond the 5-10 years of management, monitoring and reporting discussed in Section 3 below) according to the goals, objectives and management activities presented by TNC in their Management Plan for the Lakepoint Wetland (Attachment 3). It is expected that this document may be revised and adapted during the initial restoration and management period discussed in Section 3, and when the property is completely turned over to TNC (i.e., there are no more reporting requirements between TNC and the Service), that the Management Plan, along with this Restoration Plan, will form the basis for long-term management of the Service’s Trust natural resources at the site into perpetuity.

In addition to TNC’s Management Plan, a notice of the Consent Decree contained within the title to the property transferred from KUCC to TNC, the nature of use designation in the water right transferred from KUCC to TNC, a Memorandum of Agreement (MOA) between TNC and the Service (all attachments to the Consent Decree between KUCC and the Service), and TNC’s commitment (under the MOA) to obtain an easement on the property, all constitute protective legal mechanisms that will limit uses of the Lakepoint Property that are inconsistent with this Restoration Plan or

other documents. If, in the future, it becomes necessary for TNC to alter their use or management of the property, conditions and procedures contained within those documents will become the primary guidance for that process.

Another similar topic is the area of dispute resolution. It is anticipated that, under foreseeable circumstances, this will be addressed as a part of the meetings and reports that are discussed in the Section 3 (Monitoring and Reporting) below. However, if disputes cannot be resolved within this setting, the documents referred to above, especially the MOA between TNC and the Service, will become the controlling documents for that process.

3.0 Monitoring Program and Performance Criteria

The primary objective of the NRDAR program is to restore natural resources that have been injured by releases of hazardous wastes. A fundamental part of that process involves linking restoration to the injury—i.e., have the natural resource losses caused by the injury been restored by the restoration action. In the case of this restoration plan, the link is between injuries to shorebird and waterfowl species and their supporting habitats that the Service believes occurred at the KUCC North Zone Wetlands (Section 1.3.3), and restoration of those natural resources at the Lakepoint Property (Section 2). However, there is a need for some sort of measure to be associated with that goal in order to be able to assess whether the goal is being achieved. Ideally, these measures should also give managers enough information to determine what might be happening if the goal does not appear to be getting met, in order to make management changes to achieve the goals if possible. This evaluation requires two elements: monitoring-- the evaluation of specific measurements that are closely associated with the goal (i.e., the restoration of the injured natural resources), and performance criteria—a “yardstick” that is used to indicate if the goal is being met or not.

At the Lakepoint wetland, the measure that the Service has selected to indicate whether restoration is being achieved will be the trend in productivity of waterfowl and shorebirds at the site—i.e., how many individual birds of these species are successfully raised (to independence and dispersal). Trends in productivity at the Lakepoint wetland will be compared to a “baseline”⁸ that will be established during pre-restoration monitoring (described further in Section 3.1.2). Avian productivity monitoring will therefore be the one required element of monitoring to be performed by the site manager, TNC. However, the Service anticipates that TNC will also perform other monitoring as outlined in their Management Plan for the wetland (Attachment 3), based on monitoring they carry out at other wetlands they manage in Utah. This additional

⁸ This baseline will not be absolutely defined, but will be relative to, and evaluated prior to, major restoration construction activities that will commence once the Consent Decree, Restoration Plan, and other documents are finalized. This monitoring will not be able to capture or quantify any changes or improvements in natural resource values that may have occurred when KUCC implemented the initial restoration activities on the property in 2003, that is, removing grazing cattle from the property and terminating waterfowl hunting leases on the property.

monitoring has several benefits. First is to provide information during the restoration process regarding the response of bird populations to the changes at the site, which then allows managers to adjust activities to improve benefits to the natural resources-- i.e., "adaptive management." Secondly, ongoing monitoring at a site with an established "baseline" can often detect changes that may eventually become adverse (e.g., affect productivity) early in the process—such as an increase in predation, or a lack of food productivity or availability). Finally, the information provided by monitoring adds to the body of information and science that can be used to restore and manage natural resources at other sites.

As more restoration projects have been initiated, implemented and completed across the United States, it has also become apparent that performance criteria are helpful in allowing all involved parties to determine whether or not they are "finished" with the tasks of restoration, as well as whether the restoration effort has been "successful." These criteria may be framed in qualitative or quantitative terms depending on what is involved with the restoration, but should be clear-cut and understandable to all parties and to the public. In the case of the Lakepoint Wetland, performance criteria can be separated into restoration activities (largely the responsibility of KUCC) and management activities (largely the responsibility of TNC). Performance criteria for KUCC's restoration activities will primarily involve completion by agreed-upon dates. For site management, the productivity of shorebirds and waterfowl (i.e., success of young birds reaching independence and dispersing from the site) will be the main performance criterion that will be used to determine if natural resources are being restored.

The monitoring plan and performance criteria that have been developed for the Lakepoint wetlands are intended to provide information needed to assess initial and ongoing restoration success with a level of effort that is within the cost and effort capabilities of the parties to perform. Monitoring is also intended to proceed far enough into the future to determine whether or not it is likely that the natural resources that are the focus of restoration are being protected into perpetuity, which is one of the goals of the DOI NRDAR program. Although it is impossible to assure that a particular site or management practice will protect natural resources forever, the post-restoration

monitoring period should be long enough to incorporate variability in ecologically significant factors such as temperature, rainfall, avian productivity, etc. This will give land managers and the Service enough information to predict whether the site's productivity and function will remain constant throughout the life of the project, assuming management goals and practices remain. Because of the differing reasons for monitoring in the initial- and post restoration phases, the monitoring plan is also designed in phases, with more intense monitoring at the outset of restoration (while "adaptive management" is most needed), and more routine, lower effort long-term monitoring after the site and management methods have stabilized.

3.1 *Lakepoint Property Monitoring Components*

Ongoing monitoring at the Lakepoint Property will primarily be the responsibility of TNC, and will focus on measuring performance against the restoration objectives set out in their Management Plan (Attachment 3). For the most part, these objectives involve improving and managing the site in order to increase nesting habitat, and therefore productivity, of shorebirds, waterfowl and other avian species that use GSL wetland habitats. Therefore, monitoring activities will be focused on comparing avian community characteristics against these management activities. Other management objectives reflect general goals for the site that are consistent with the need for restoration projects to serve as a source of education and outreach to scientists, land managers and the public, and for them to operate within the overall needs of the community within which they are located. These do not require specific monitoring, but rather should be noted in the periodic reports that will be required to document restoration. The following sections discuss monitoring measures, performance criteria and reporting requirements linked to these objectives.

3.1.1 Habitat Monitoring

Beyond the activities that will be completed by KUCC, restoration activities within the first 5-year "post-restoration" period at the site will involve habitat manipulations intended to increase the acreage of high-value Great Salt Lake shoreline avian habitat; that is, pond, wetland, playa, and other areas that can be used for nesting and foraging

as well as other uses. As discussed in TNC's management plan for the site, the overall goals of habitat improvement and management at the site are to:

- 1) provide increased nesting areas for shorebirds, waterfowl, and other species of interest;
- 2) Identify areas that are not being used much by birds but that could be improved by promoting the development of ponds, playas or wetlands, and make those improvements;
- 3) Identify areas where undesirable species (e.g., *Phragmites* or canary reed grass, white-top (*Cardaria draba*), etc.) exist or may be encroaching, and carry out measures to prevent this;
- 4) Promote a diverse mix of habitats that will provide for the diverse needs of a wider range of avian species (but with primary emphasis on shorebirds and waterfowl); and,
- 5) Manage these areas to increase their use by birds over time as the habitats mature and diversify.

Methods and objectives to achieve these goals are discussed in TNC's management plan, and the monitoring components described below are linked to, and will serve to evaluate the performance of the site against those goals. Performance will be evaluated by tracking changes in these components against the initial condition of the site before restoration activities are undertaken, and by evaluating trends in shorebird and waterfowl productivity in the context of these habitat changes. Habitat monitoring components will include:

Baseline Monitoring (Year 1, or prior to restoration actions by KUCC)

TNC will establish baseline monitoring points, transects and/or photographic documentation (photo points, aerial photography) that will allow for the delineation and mapping of existing habitat conditions at the time that TNC assumes responsibility for the property. Specific methods used to provide this information will be proposed to the Service by TNC and will be agreed upon in initial management meetings. Mapping of

baseline water resources and locations (as built by KUCC, see Section 2.3.2) will be part of this effort. Components of baseline habitat monitoring should include:

- Habitat Mapping- TNC will generate a vegetation and/or habitat classification map as part of the initial (baseline) monitoring effort during the first year they take title to the Lakepoint Property, and ideally prior to the initiation of KUCC's restoration construction activities. This map will provide an initial snapshot of vegetative conditions at the property, so should also be generated at an optimal time of year in which to make good determinations of vegetation type. Designation of habitat types and areas (e.g., seasonally inundated saltgrass marsh, playa, riparian channel, upland scrub/shrub grassland, etc) will be up to TNC, but should be related to avian use of the site for nesting, feeding, etc.
- Characterization of vegetative habitat types and diversity- including information about dominant vegetation species, and avian species most closely associated with these areas and their use(s) of the areas. Although the Lakepoint Wetland is not being managed with the primary goal of vegetation species diversity, increased habitat diversity (and measures of this diversity) is consistent with the goal of providing habitat for an increased diversity of avian species.
- Planned habitat improvements- TNC will generate maps or descriptions of areas where improvements are planned- such as ponds or expanded wetland areas (possibly in cooperation with KUCC, as they design and construct the water features discussed in Section 2.3), construction of nesting islands, etc.
- Exotic/Invasive vegetation- Baseline habitat mapping should also identify areas where exotic or invasive vegetation currently exists and is slated for removal or treatment.

Post-Restoration Monitoring (Years 2-5)

Habitat monitoring in the first five years after restoration will primarily be focused on tracking changes and trends in habitat conditions from baseline consequent to changes in water and vegetation management. Monitoring methods used during baseline monitoring (transects, photo-points, etc) will be repeated throughout this period to detect and track changes in habitat conditions. It is also expected that TNC and the

Service will be able to determine the measures that are the most useful for informing adaptive management decisions. As the post-restoration period draws to a close, TNC and the Service will decide which measures will be retained for a reduced level-of-effort ongoing monitoring program. If TNC institutes new habitat restoration or management practices in the post-restoration period, closer monitoring of these projects may be called for; it is expected that this would be discussed and decided upon in management meetings between TNC and the Service. If TNC independently conducts research consistent with restoration goals on the property, or allows others such as academic or governmental researchers to do so, the Service would be provided with reports or other information that arises out of these activities as part of the required monitoring reporting discussed below in Section 3.2.

3.1.2 Avian Monitoring

As discussed above, productivity of shorebirds and waterfowl at the Lakepoint Wetland is the clearest measure of whether or not habitat restoration at the site is compensating for the natural resource injuries that are the basis of this action. However, other characteristics of avian use at the site are also important from a management perspective, including occurrence of different species throughout different times of year at the site, and use of habitats on the property by these species throughout the year. Similar to habitat monitoring and performance assessment, initial conditions will be used to the extent possible as the standard for comparison to gauge changes and hoped-for increases in avian productivity and use of the Lakepoint Wetland. Again similar to the habitat monitoring program, baseline monitoring will be followed by four years of relatively intensive post-restoration monitoring to track changes in avian use and productivity, with the most informative parameters retained in a less intensive long-term monitoring program that is designed to detect adverse changes soon enough to make management adaptations if possible. Ideally, avian “baseline” monitoring will include a full year (i.e., spring migratory and breeding periods, summer and fall migratory periods) of data collected before water improvements are constructed (i.e., construction of pipeline, canals, culverts, etc) and implemented (e.g., filling ponds with water). This will increase the probability that increases in avian use of

the site following restoration actions can be detected. Avian monitoring measures will include:

Avian Productivity-

Productivity is a measure of the young birds that are successfully reared at a site and that survive long enough to join the breeding population and produce more chicks. Exact determination of this characteristic can be very difficult and time-consuming because of factors such as weather, predation, and events that occur once young leave the area of concern. There are quantitative methods, such as the Mayfield nesting success index that can determine productivity with a relatively high degree of certainty, however these require the collection of large amounts of data, which can be labor intensive, as well as having the potential to adversely impact nesting success by the monitoring activity itself (e.g., by attracting predators to nests while locating and counting eggs in them). These methods are generally more appropriate when making decisions about larger areas, or when comparing productivity at different areas or consequent to different management manipulations. Because none of these are the case at the Lakepoint Wetland, the intent of productivity monitoring is to determine, with a reasonable level of effort, a) about how many young of shorebird and waterfowl species are produced per year at the property, b) whether there is a positive trend in productivity associated with implementation and maturation of water management and habitat changes, and c) to detect potential declines in productivity in order to determine if they may be associated with site management activities, and if so, to attempt to correct these activities. As with habitat monitoring, it is hoped that productivity monitoring activities will be refined and reduced during the five-year post-restoration period to a lower-effort long term program that will continue to provide information about avian productivity at the site until ecological conditions at the site appear to have stabilized and the site becomes more self-sustaining.

Productivity of shorebird species can be assessed by counting nests and eggs during the incubation period because they are relatively visible (e.g., nests are typically located in bare areas with high visibility, with adults luring predators- or surveyors- away with distracting displays); young can later be counted relatively easily because they

leave the nest soon after hatching and because they are typically in open habitat. Nest locations and surveys for waterfowl may be more difficult because nests are often concealed in tall vegetation; it is typically easier to conduct brood counts once the young are on the water with their parents. In either case, counts of young birds should be conducted periodically before fledging in order to determine if overall productivity is being impacted by predation or other factors; it is anticipated that enough experience can be gained in the 5-year post-restoration period to develop a lower level-of-effort monitoring program based on ideal counting locations and times.

Methods used by TNC to assess shorebird and waterfowl productivity should be qualitative or semi-quantitative methods that are generally accepted by professional wildlife managers. While it is understood that avian productivity may be difficult to quantify using survey methods, particularly for shorebirds (where nesting birds have little nest fidelity, and precocious chicks can leave the nest and travel a considerable distance from it after hatching), TNC should develop a survey program that will allow a reasonably certain estimate of productivity at the Lakepoint Wetland, and survey methodology and timing should be consistent enough from year-to-year to allow for between-year comparisons and a longer-term assessment of trends in productivity. Surveys should be conducted often enough throughout the nesting season to detect potential adverse factors such as predation or weather-related loss, and ideally should be able to provide information on the relative ratio of young fledged to those hatched. Additional information, such as the number of nests initiated, may be valuable to site managers, and if collected, should be reported, but will not be required by FWS.

Avian Population and Area Use Surveys

In addition to nest and brood counts, it is anticipated that TNC will also conduct the routine avian monitoring that it performs on other properties it manages, as reflected in their Management Plan (Attachment 3). The purpose of this monitoring is to characterize the avian species that use the Lakepoint Wetland at different times of the year in order to identify potential opportunities for habitat improvements that may benefit species of concern, and to help in the general understanding of population and occurrence trends for birds in the Great Salt Lake ecosystem. A variety of methods are

used for avian censuses, including strip transect counts (where all birds observed within a given distance from a transect line such as a road or shoreline are counted), and point counts (where all birds observed within set amount of time and within a given radius of a point are counted). Counts may be conducted at various times of the year to record different species and different uses (breeding, migratory stop-overs, etc.) As described in TNC's Management Plan, census data will be recorded in the context of habitat areas—e.g., types and numbers of birds nesting, feeding, etc., by specific habitat types. Use monitoring will be focused on the shorebird and waterfowl species that are central to restoration efforts on the property, however, presence and use by other bird species should also be noted. Use by other species of conservation concern (e.g., raptors, threatened/endangered species, etc.) should also be noted for inclusion in management planning if compatible with management for shorebirds and waterfowl.

Avian surveys are measures of occurrence (whether or not a particular species occurs on the site) or relative abundance (i.e., which species are the most abundant at the site at different times of the year) but do not measure production, which is, as discussed above, the key factor in determining whether the injured natural resources that are the concern of this plan are being restored. For this reason, the choice of avian census methods and timing will be up to TNC, with documentation supplied to the Service in periodic monitoring and management reports. During the initial 5-year post-restoration period, censuses ideally will be scheduled to measure species occurrence and use in:

- Winter (year-round resident and wintering species);
- Spring (migratory transients and nesting species);
- Summer (focused on productivity surveys as described above, but also to record occurrence of year-round and early migratory transients); and
- Late summer/fall (year-round residents and fall transients)

The timing and number of surveys will be proposed by TNC based on the approach they select to measure these endpoints and on their familiarity with the GSL ecosystem.

Monitoring reports from these activities will be supplied to the Service on a periodic basis as discussed below in Section 3.2.

Predation

Based on experience gained by TNC, KUCC and others at similar managed habitat areas (e.g., TNC's Layton Marsh Preserve, KUCC's Inland Sea Shorebird Reserve, etc.), predation, either by mammals (e.g., red fox, coyote) or other birds (e.g., raven, raptors) can be a possible factor in overall avian productivity at the Lakepoint Wetlands. If this is observed, or suspected to be a contributor to productivity declines on the site, monitoring data may be needed to establish the extent to which predation is having an impact, and therefore, which management strategies may be needed or desired to offset predation. This is an example of an issue that would be appropriate for discussion and resolution between TNC and the Service in the reporting and meeting process discussed in Section 3.2.

3.1.3 Water, Sediment and Soil Monitoring

Chemical Monitoring- As discussed in Section 1.3.3, the bioaccumulation of selenium was one of the chief mechanisms of injury to trust resources at the KUCC North Zone wetlands; and as discussed in Section 2.3.2.4, background concentrations of selenium in water at the site may be close to levels of concern to the Service. Past experience with management of waterfowl and shorebird habitat in similar conditions has indicated that it is important to monitor selenium concentrations as new aquatic habitat is created in order to ensure that this or other elements of concern (e.g., salts, iron) are not increasing in either sediments or water. As part of restoration monitoring for the Lakepoint Wetland, the Service will collect and analyze samples of water and sediment at the property. *A minimum of one pair of water and sediment samples will be collected at least five locations once per year in the first three years after water management changes are implemented; the number of locations may be cut back for the following two years based on results of previous years' sampling. Samples will be collected in the late summer when evaporation, water use and vegetation growth are at their peak; analytical results and their interpretation will be provided to TNC in a timely manner for*

discussion at periodic management meetings. The need for additional sampling locations, parameters and/or matrices (e.g., aquatic macroinvertebrates) may be decided by FWS and TNC during these meetings, however, the costs of additional sampling are not included in the endowment provided by KUCC. The anticipated number and type of samples involved in this effort are summarized in Table 3-1.

Water samples will be collected using standard methods for surface water sampling (samples collected from non-stagnant waters, about 2/3 of the distance from the bottom of the stream or pool) into bottles containing a small amount of acid to preserve the samples (prevent subsequent biological or chemical action from changing the relative concentration or form of selenium) and placed on ice for transport to the analytical laboratory. Sediment samples will be collected as composites (from several locations in the pond or area to be sampled) from surface sediments in areas where aquatic macroinvertebrates (one of the primary food items for shorebirds and some waterfowl) may be found. Sediment samples will be collected into chemically clean jars and stored on ice for transport to the analytical laboratory. Samples will be analyzed for selenium at a FWS contract laboratory, or at another laboratory that is approved by the Service.

Flow Monitoring- It is expected that TNC will want to measure inflows and outflows of water at the Lakepoint Wetland as a normal part of water management on the site.

These measures should include measurement of incoming flow from the Factory Creek pipeline to insure that the agreed-upon amount (1 cfs) is entering the property, and to identify upstream issues (e.g., pipeline blockage) in a timely manner. In addition, it is expected that a seasonably variable amount of water will be entering the property from the east and west channels of Mill Creek. This may be a relatively large quantity in the spring, but may be minimal in late summer and fall. During restoration implementation and within the initial post-restoration (5-year) period, TNC should conduct flow measurements from early spring to late fall in order to characterize the amount of water that is typically available during that period. These measurements will not require a high degree of precision, and could be aided by the installation of weirs or staff-gauges if desired. TNC should propose a measuring method to FWS as part of the final monitoring plan for the property; in addition, FWS may collect flow measurements as part of water quality measurements.

Table 3-1

Planned Post-Restoration Sampling for Selenium in Sediment and Water at the Lakepoint Wetland

Year	Locations	Planned Number of Samples
1	1) Inlet Pond (water coming onto property) (S, W) 2) East Millcreek Branch, Intermediate Pond (S,W) 3) West Millcreek Branch, Intermediate Pond (S, W) 4) "New" Pond (S,W) 5) Borrow Pond and Outlet flow (S, W) <i>(anticipated to be "initial phase of restoration" sampling)</i>	10 (5 sediment, 5 water)
2	Locations 1-5, sediment and water	10 (5 each water & sediment)
3	Locations 1-5, sediment and water	10 (5 each water & sediment)
4	Based on results of Year 1-3 sampling, locations 2 and 3 may be omitted	6 (3 each water & sediment)
5	Based on results of Year 1-4 sampling, locations 1, 2, 3 may be omitted	4 (2 each water & sediment)
6-on	Will be evaluated based on Year 1-5 results	---

Measurement of the outflow from the project area (at the outlet located in the "Borrow Pond" in the northeastern corner of the property) will help to determine the amount of water lost to evaporation and used by wetland plants and soils ("consumptive use"), as well as to understand the water budget of the property. These measurements can be aided by the installation of a weir and staff-gauge at the outlet during its construction by KUCC.

3.1.4 Other Monitoring

TNC may elect to conduct other monitoring or measurement programs at the Lakepoint Wetland at their discretion, as long as its purposes and/or methods are consistent with the goals of natural resource restoration as discussed in this plan and consistent with the management objectives that TNC has laid out in their Management

Plan (Attachment 3). The Service should be notified of this type of activity prior to its initiation (particularly if it is the first time that type of activity has been conducted on the site), either in the context of periodic reports or meetings, or separately if necessitated by the timing of the monitoring project. If such monitoring is conducted the Service requests to be informed of the results of that monitoring, either separately or in regularly scheduled reports or meetings; and to receive copies of any literature (e.g., scientific publications, etc.) generated from that monitoring.

3.2 Reporting Requirements and Schedule

As discussed in Sections 3.1 and 3.2, habitat, avian productivity and avian use monitoring will be conducted at the Lakepoint Wetland to determine the effectiveness of habitat manipulations in restoring natural resources lost at the KUCC North Zone wetlands, and to fine-tune management activities to maximize the use and productivity of the area for shorebirds, waterfowl and other bird species. Monitoring and management assessment reports from TNC, as well as periodic management meetings between TNC and the Service will be used to document and discuss these changes. Monitoring and management reports will be used both to evaluate and/or demonstrate that natural resource restoration is being accomplished at the site, and perhaps more importantly, to add to the body of knowledge regarding natural resource restoration and management in general and specifically within the Great Salt Lake ecosystem. These reports and meetings will also be essential in the process of “adaptive management”, which basically consists of applying best professional judgment to site-specific observations to determine the best course of action to maintain or improve natural resource values at the site.

Monitoring measures and reporting requirements will be greater in the first years after water management structures are installed and habitat improvements are implemented, with lesser requirements as these features mature and as habitat management procedures are optimized for the site. However, since one of the concerns of DOI is that restoration projects be managed for DOI trust resources “into perpetuity”, there is some requirement for minimal monitoring and maintenance for a period of time long enough to be able to speak with some assurance about this. Based

on these conditions and requirements, a proposed restoration, monitoring, reporting and meeting schedule is summarized in Table 3-2. This schedule will be finalized by the Service and TNC within the first year of restoration implementation.

3.3 Restoration Schedule

The final schedule for restoration activities will be negotiated between the Service, KUCC, and TNC. Depending on when the Consent Decree and other documents are finalized, it is expected that KUCC will complete its initial restoration obligations within six to twelve months from that date. As discussed in Section 3.2 above, TNC should perform at least one iteration of pre-restoration habitat mapping and monitoring prior to the initiation and/or completion of KUCC's restoration activities, so that pre-restoration baseline conditions are documented. Depending on timing, baseline avian productivity monitoring and censuses should also be conducted before restoration activities are completed. Table 3-3 presents a general list of initial restoration steps and a "months out" time-table; these will be finalized to an anticipated construction schedule based on discussion and consensus between the DOI, KUCC and TNC.

TABLE 3-2

Monitoring and Reporting Schedule for Years 0-5 of Restoration Activity at Lakepoint Wetland, Tooele County, Utah

YEAR	RESTORATION CONSTRUCTION (KUCC)	MONITORING (TNC)	REPORTING (TNC)	MEETINGS (FWS & TNC)
0-1	<ul style="list-style-type: none"> • Fulfillment of CD obligations • Finalization of Construction Design, construction schedule • Construction of pipeline and water delivery and distribution features at Lakepoint 	<ul style="list-style-type: none"> • Pre-restoration habitat mapping • Decision (with FWS) on census and productivity monitoring methods, timetable • Pre-restoration avian census and use surveys⁹ • Pre-restoration shorebird and waterfowl productivity surveys¹⁰ 	<ul style="list-style-type: none"> • Pre-restoration annual report- baseline census and productivity monitoring, habitat mapping, proposed habitat management and monitoring program for years 2-5 	<ul style="list-style-type: none"> • Meetings with FWS to discuss construction scheduling (KUCC), monitoring methods and timetable (TNC) (Year 0) • Quarterly management meetings during restoration construction and baseline monitoring
2	<ul style="list-style-type: none"> • Completion & fine-tuning of any remaining restoration construction activities 	<ul style="list-style-type: none"> • Avian census and habitat use (4x/year)¹⁰ • Shorebird/waterfowl productivity monitoring 	<ul style="list-style-type: none"> • First post-restoration annual report- comparisons with baseline, identification of management issues 	<ul style="list-style-type: none"> • Quarterly management meetings
3	No further requirements if restoration obligations are complete	<ul style="list-style-type: none"> • Avian census and habitat use (4x/year) • Shorebird/waterfowl productivity monitoring 	<ul style="list-style-type: none"> • Second post-restoration annual report- comparisons with baseline, trends, management issues 	<ul style="list-style-type: none"> • Quarterly management meetings (frequency may be decreased if agreed by FWS and TNC)

⁹ Number and timing of meetings to be agreed upon by TNC and FWS, and will depend on when legal and administrative requirements of the restoration planning process are completed, and when construction activities are scheduled to begin and to be completed by KUCC.

¹⁰ See Section 3.1.2

TABLE 3-2, continued

Monitoring and Reporting Schedule for Years 0-5 of Restoration Activity at Lakepoint Wetland, Tooele County, Utah

YEAR	RESTORATION CONSTRUCTION (KUCC)	MONITORING (TNC)	REPORTING (TNC)	MEETINGS (FWS & TNC)
4		<ul style="list-style-type: none"> • Avian census and habitat use (frequency may be decreased if agreed by FWS and TNC) • Shorebird/waterfowl productivity monitoring 	<ul style="list-style-type: none"> • Third post-restoration annual report- comparisons with baseline, trends, identification of management issues 	<ul style="list-style-type: none"> • Semi-annual (pre-season & post-season) management meetings
5		<ul style="list-style-type: none"> • Avian census and habitat use (frequency may be decreased if agreed by FWS and TNC) • Shorebird/waterfowl productivity monitoring 	<ul style="list-style-type: none"> • Fourth post-restoration annual report- comparisons with baseline, trends, identification of management issues 	<ul style="list-style-type: none"> • Semi-annual (pre-season & post-season) management meetings
6-10		<ul style="list-style-type: none"> • Decreased level-of-effort shorebird/waterfowl productivity monitoring (as agreed by FWS & TNC) 	<ul style="list-style-type: none"> • Decreased level-of-effort summary reporting— significant events or changes from previous conditions 	<ul style="list-style-type: none"> • Semi-annual or annual management meetings as agreed by FWS & TNC
10-20		<ul style="list-style-type: none"> • Monitoring based on TNC's standard management practices, with input from FWS 	<ul style="list-style-type: none"> • Summary reports- content as agreed by FWS & TNC 	<ul style="list-style-type: none"> • Meetings scheduled if needed by FWS or TNC

Note: Beyond Years 0-1, planning years will begin in the early winter, with pre-season management meetings conducted in the January-March time-frame, and post-season management meeting to be conducted in the November-December timeframe.

Table 3-3

Timetable for Initial Restoration and Baseline Monitoring Activities (Preliminary¹),

Lakepoint Wetland, Tooele County, Utah.

(Page 1 of 2)

Activity	Responsible Party	Completion Timeframe (months after execution of CD)
<i>Legal/ Coordination/Design</i>		
Meet to discuss/finalize timetable, coordinate activities	FWS, KUCC, TNC	1 month
Land Transfer Activities (see Table 2-1)	KUCC	2 months
Endowment Funding, other financial issues	KUCC	see timeframes specified in CD
Water Improvements- Legal, Permitting, Design	KUCC with input from FWS, TNC	3 months
<i>Restoration Construction</i>		
Water Improvements- Construction- Pipeline from source to property	KUCC	first available construction season
Water Improvements- Culvert/channel/pond modifications	KUCC with input from FWS, TNC	1 year
Other Land Improvement Actions- fencing, debris removal, etc (see Table 2-1)	KUCC	6 months
<i>Baseline Monitoring</i>		
Meet to discuss/finalize monitoring plan, field schedule, reporting schedule	TNC, FWS	3 months (initial meeting within 30 days)
Baseline habitat monitoring, mapping	TNC	6 months (first suitable season)
Baseline avian census	TNC	as agreed in monitoring plan
Baseline productivity monitoring	TNC	6 months (first available season)
Baseline water/sediment monitoring/analysis	FWS	6 months (before water improvements implemented)

Table 3-3, continued

Timetable for Initial Restoration and Baseline Monitoring Activities (Preliminary¹),

Lakepoint Wetland, Tooele County, Utah.

(Page 2 of 2)

Activity	Responsible Party	Completion Timeframe (months after execution of CD)
<i>Management Meetings/ Reporting</i>		
First-year management meetings	TNC, FWS, KUCC	As determined/needed by FWS, TNC, KUCC
Water/ Sediment quality data and interpretation	FWS	8 months (or as agreed by TNC and FWS)
Baseline Monitoring and Management Report	TNC	10 months (or as agreed by TNC and FWS)
Completion Assessment	FWS	12 months
Planning for Year 2 activities	FWS, TNC, KUCC ²	12 months
<i>Post-Restoration Monitoring & Management (Years 2-5)</i>		
Proposed Post-Restoration Habitat and Avian monitoring Plan (yearly updates)	TNC	February of years 2-5
Habitat and Avian monitoring	TNC	As determined by TNC, FWS
Water/ sediment quality monitoring	FWS	As determined by TNC, FWS
Management Meetings	FWS, TNC	As determined by TNC, FWS
Water/ Sediment quality data and interpretation	FWS	As determined by TNC, FWS
Ongoing Annual Monitoring and Management Reports	TNC	As determined by TNC, FWS
Planning for subsequent year	TNC, FWS	As determined by TNC, FWS
Water delivery/distribution system implementation issues	KUCC (as notified by TNC and/or FWS)	As decided by parties

1) More specific dates will be added to this table following Public Comment and finalization of the Consent Decree, this Restoration Plan, and other associated documents.

2) KUCC will remain involved with Restoration at this point if necessary- based on status of completion of their obligated Restoration Activities (outlined in Table 2-1), and their discretion.

4.0 List of Preparers and Reviewers

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---	--

Ute Indian Tribe

Uintah & Ouray Business Committee
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Chair: Maxine Natchess

6.0 ATTACHMENTS

ATTACHMENT 1

Consent Decree (including Exhibits- except for Restoration Plan)

ATTACHMENT 2

NEPA Categorical Exclusion Documentation

ATTACHMENT 3

TNC Management Plan for the Lakepoint Wetlands

ATTACHMENT 4

Letters and Correspondence

ATTACHMENT 5

Public Comment and Response (won't be in Draft RP)

ATTACHMENT 1

Consent Decree (including Exhibits except for Restoration Plan)

ATTACHMENT 2

NEPA Categorical Exclusion Documentation

NEPA Categorical Exclusions

Text from U.S. Department of the Interior Departmental Manual 6, Section 516, Chapter 8.5 (516 DM 8.5)

The text presented below is from the above-cited section of the Department of Interior Departmental Manual (DM). This section is referred to in FWS Form 3-2185 (attached) as 516 DM 6 Appendix 1.

Sections of text that are relevant to the Lakepoint Wetland NRDA Restoration Project are highlighted by **underlined, bold text**; notes and comments documenting the reasoning used (in the evaluation of whether the actions anticipated in the Lakepoint Restoration Plan are categorically excluded under NEPA) are noted in ***bold italic text***.

8.5 **Categorical Exclusions.** Categorical exclusions are classes of actions which do not individually or cumulatively have a significant effect on the human environment. Categorical exclusions are not the equivalent of statutory exemptions. If exceptions to categorical exclusions apply, under 516 DM 2, Appendix 2 of the Departmental Manual, the Departmental categorical exclusions cannot be used. **In addition to the actions listed in the Departmental categorical exclusions outlined in Appendix 1 of 516 DM 2, the following Service actions are designated categorical exclusions unless the action is an exception to the categorical exclusion.**

A. General.

- (1) Changes or amendments to an approved action when such changes have no or minor potential environmental impact.
- (2) Personnel training, environmental interpretation, public safety efforts, and other educational activities, which do not involve new construction or major additions to existing facilities.
- (3) The issuance and modification of procedures, including manuals, orders, guidelines, and field instructions, when the impacts are limited to administrative effects.
- (4) The acquisition of real property obtained either through discretionary acts or when acquired by law, whether by way of condemnation, donation, escheat, right-of-entry, escrow, exchange, lapses, purchase, or transfer and that will be under the jurisdiction or control of the United States. Such acquisition of real property shall be in accordance with 602 DM 2 and the Service's procedures, when the acquisition is from a willing seller, continuance of or minor modification to the existing land use is planned, and the acquisition planning process has been performed in coordination with the affected public.

NOTE: This exclusion does not apply in the case of the Lakepoint NRDA Restoration Project because DOI (or a bureau within DOI) is

not acquiring real property

- B. Resource Management. Prior to carrying out these actions, the Service should coordinate with affected Federal agencies and State, tribal, and local governments.
- (1) Research, inventory, and information collection activities directly related to the conservation of fish and wildlife resources which involve negligible animal mortality or habitat destruction, no introduction of contaminants, or no introduction of organisms not indigenous to the affected ecosystem.
 - (2) The operation, maintenance, and management of existing facilities and routine recurring management activities and improvements, including renovations and replacements which result in no or only minor changes in the use, and have no or negligible environmental effects on-site or in the vicinity of the site.
 - (3) **The construction of new, or the addition of, small structures or improvements, including structures and improvements for the restoration of wetland, riparian, instream, or native habitats, which result in no or only minor changes in the use of the affected local area. The following are examples of activities that may be included.**
 - (a) **The installation of fences.**
 - (b) **The construction of small water control structures.**
 - (c) **The planting of seeds or seedlings and other minor revegetation actions.**
 - (d) **The construction of small berms or dikes.**
 - (e) **The development of limited access for routine maintenance and management purposes.**

This section addresses the restoration actions that are anticipated at the Lakepoint Wetland site, and form the basis for the determination that the anticipated activities are categorically excluded from the requirements of NEPA.
 - (4) The use of prescribed burning for habitat improvement purposes, when conducted in accordance with local and State ordinances and laws.
 - (5) Fire management activities, including prevention and restoration measures, when conducted in accordance with Departmental and Service procedures.

- (6) The reintroduction or supplementation (e.g., stocking) of native, formerly native, or established species into suitable habitat within their historic or established range, where no or negligible environmental disturbances are anticipated.
- (7) Minor changes in the amounts or types of public use on Service or State-managed lands, in accordance with existing regulations, management plans, and procedures.
- (8) Consultation and technical assistance activities directly related to the conservation of fish and wildlife resources.
- (9) Minor changes in existing master plans, comprehensive conservation plans, or operations, when no or minor effects are anticipated. Examples could include minor changes in the type and location of compatible public use activities and land management practices.
- (10) The issuance of new or revised site, unit, or activity-specific management plans for public use, land use, or other management activities when only minor changes are planned. Examples could include an amended public use plan or fire management plan.
- (11) Natural resource damage assessment restoration plans, prepared under sections 107, 111, and 122(j) of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA); section 311(f)(4) of the Clean Water Act; and the Oil Pollution Act; when only minor or negligible change in the use of the affected areas is planned.**

This section is also relevant to the Lakepoint Restoration Plan, which is one of the outcomes of a settlement between DOI and the Kennecott Utah Copper Corporation (KUCC) to settle a claim for natural resource damages at the KUCC North Zone Wetlands, which are within the KUCC North Zone (OU-22) CERCLA site, Salt Lake County, Utah. See accompanying Restoration Plan and attachments (including Consent Decree between DOI and KUCC).

C. Permit and Regulatory Functions.

- (1) The issuance, denial, suspension, and revocation of permits for activities involving fish, wildlife, or plants regulated under 50 CFR Chapter 1, Subsection B, when such permits cause no or negligible environmental disturbance. These permits involve endangered and threatened species, species listed under the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), marine mammals, exotic birds, migratory birds, eagles, and injurious wildlife.

- (2) The issuance of ESA section 10(a)(1)(B) "low-effect" incidental take permits that, individually or cumulatively, have a minor or negligible effect on the species covered in the habitat conservation plan.
- (3) The issuance of special regulations for public use of Service-managed land, which maintain essentially the permitted level of use and do not continue a level of use that has resulted in adverse environmental effects.
- (4) The issuance or reissuance of permits for limited additional use of an existing right-of-way for underground or above ground power, telephone, or pipelines, where no new structures (i.e., facilities) or major improvement to those facilities are required; and for permitting a new right-of-way, where no or negligible environmental disturbances are anticipated.
- (5) The issuance or reissuance of special use permits for the administration of specialized uses, including agricultural uses, or other economic uses for management purposes, when such uses are compatible, contribute to the purposes of the refuge system unit, and result in no or negligible environmental effects.
- (6) The denial of special use permit applications, either initially or when permits are reviewed for renewal, when the proposed action is determined not compatible with the purposes of the refuge system unit.
- (7) Activities directly related to the enforcement of fish and wildlife laws, not included in 516 DM 2, Appendix 1.4. These activities include:
 - (a) Assessment of civil penalties.
 - (b) Forfeiture of property seized or subject to forfeiture.
 - (c) The issuance or reissuance of rules, procedures, standards, and permits for the designation of ports, inspection, clearance, marking, and license requirements pertaining to wildlife and wildlife products, and for the humane and healthful transportation of wildlife.
- (8) Actions where the Service has concurrence or coapproval with another agency and the action is a categorical exclusion for that agency. This would normally involve one Federal action or connected actions where the Service is a cooperating agency.

D. Recovery Plans. Issuance of recovery plans under section 4(f) of the ESA.

E. Financial Assistance.

- (1) State, local, or private financial assistance (grants and/or cooperative agreements), including State planning grants and private land restorations, where the environmental effects are minor or negligible.
- (2) Grants for categorically excluded actions in paragraphs A, B, and C, above; and categorically excluded actions in Appendix 1 of 516 DM 2.

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State: Federal Financial Assistance Grant/Agreement/Amendment Number: N/A

Grant/Project Name: Lakepoint Wetland Restoration Plan, Tooele County, Utah

This proposal is; is not
completely covered by:

categorical exclusion _____ in 516 DM 2, Appendix _____; and/or

categorical exclusion **8.5 B(3) and 8.5 B(11) , in 516 DM 8,**

(check () one)

(Review proposed activities. An appropriate categorical exclusion must be identified before completing the remainder of the Checklist. If a categorical exclusion cannot be identified, or the proposal cannot meet the qualifying criteria in the categorical exclusion, or an extraordinary circumstance applies (see below), an EA must be prepared.)

Extraordinary Circumstances:

Will This Proposal (check () yes or no for each item below):

Yes No

- | | | |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 1. Have significant adverse effects on public health or safety. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2. Have significant adverse effects on such natural resources and unique geographic characteristics as historic or cultural resources; park, recreation or refuge lands; wilderness areas; wild or scenic rivers; national natural landmarks; sole or principal drinking water aquifers; prime farmlands; wetlands (Executive Order 11990); floodplains (Executive Order 11988); national monuments; migratory birds (Executive Order 13186); and other ecologically significant or critical areas under Federal ownership or jurisdiction. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. Have highly controversial environmental effects or involve unresolved conflicts concerning alternative uses of available resources [NEPA Section 102(2)(E)]. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. Have highly uncertain and potentially significant environmental effects or involve unique or unknown environmental risks. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. Have a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects. |

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- ✓ 6. Have a direct relationship to other actions with individually insignificant but cumulatively significant environmental effects.
- ✓ 7. Have significant adverse effects on properties listed or eligible for listing on the National Register of Historic Places as determined by either the bureau or office, the State Historic Preservation Officer, the Tribal Historic Preservation Officer, the Advisory Council on Historic Preservation, or a consulting party under 36 CFR 800.
- ✓ 8. Have significant adverse effects on species listed, or proposed to be listed, on the List of Endangered or Threatened Species, or have significant adverse effects on designated Critical Habitat for these species.
- ✓ 9. Have the possibility of violating a Federal law, or a State, local, or tribal law or requirement imposed for the protection of the environment.
- ✓ 10. Have the possibility for a disproportionately high and adverse effect on low income or minority populations (Executive Order 12898).
- ✓ 11. Have the possibility to limit access to and ceremonial use of Indian sacred sites on Federal lands by Indian religious practitioners or significantly adversely affect the physical integrity of such sacred sites (Executive Order 13007).
- ✓ 12. Have the possibility to significantly contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area or actions that may promote the introduction, growth, or expansion of the range of such species (Federal Noxious Weed Control Act and Executive Order 13112).

(If any of the above extraordinary circumstances receive a "Yes" check (✓), an EA must be prepared.)

✓ Yes No This grant/project includes additional information supporting the Checklist.

DOI NEPA COMPLIANCE CHECKLIST

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Concurrences/Approvals

Project Leader: _____

Date: 9/10/07

State Authority Concurrence: N/A

Date: N/A

(with financial assistance signature authority, if applicable)

Within the spirit and intent of the Council of Environmental Quality's regulations for implementing the National Environmental Policy Act (NEPA) and other statutes, orders, and policies that protect fish and wildlife resources, I have established the following administrative record and have determined that the grant/agreement/amendment:

- is a categorical exclusion as provided by 516 DM 6, Appendix 1 and/or 516 DM 2, Appendix 1. No further NEPA documentation will therefore be made.
- is not completely covered by the categorical exclusion as provided by 516 DM 6, Appendix 1 and/or 516 DM 2, Appendix 1. An EA must be prepared.

Service signature approval:

RO or WO Environmental Coordinator: _____

Date: _____

Staff Specialist, Division of Federal Assistance: N/A

Date: _____

(or authorized Service representative with financial assistance signature authority)

FWS Form 3-2185 OMB Control Number 1018-0110

Revised 02/2004 Expiration Date 06/30/2007

OMB Control Number 1018-0110

Expiration Date 06/30/2007

NOTICE

In accordance with the Paperwork Reduction Act (44 U.S.C. 3501et seq.), please be advised that:

1. The gathering of information from potential grant recipients is authorized by The National Environmental Policy Act (NEPA, 42 U.S.C. 4321-4347). NEPA requires that a number of items be considered prior to any activity under a grant.
2. The submission of requested information is required for entities competing for federal assistance grants. This completed checklist is a record that these NEPA issues were considered prior to commencing grant activity.
3. You are not required to respond to a collection of information unless it displays a currently valid OMB control number.
4. This information collection has been approved by OMB and assigned clearance number 1018-0110.
5. The requested information may be subject to disclosure under provisions of the Freedom of Information Act (5 U.S.C. 552).

The public reporting burden for the information collected on this form is 30 minutes. This burden estimate includes time for reviewing instructions, gathering data, and completing and reviewing form. Comments on this form should be mailed to the Information Collection Officer, Mail Stop 222, Arlington Square, U.S. Fish and Wildlife Service, Washington, DC 20240. Thank you.

ATTACHMENT 3

TNC Management Plan

MANAGEMENT PLAN

FOR

THE LAKEPOINT PROPERTY,
TOOELE COUNTY, UTAH

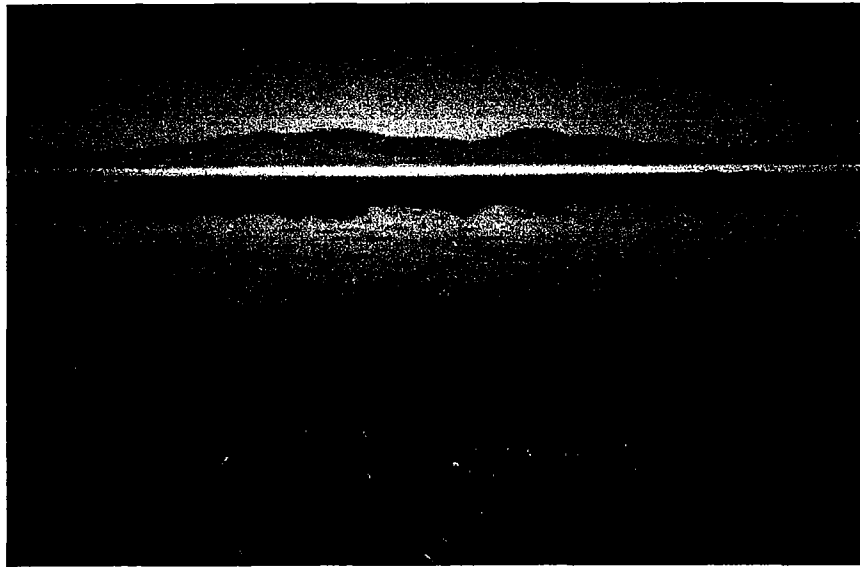


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1.0 FOREWORD

Key elements of wildlife habitat management in Utah involve managing land and water, the habitat base for all fish and wildlife species

To provide habitat for wildlife species and public access, The Nature Conservancy will develop a system for wildlife management on lands managed along the Great Salt Lake.

The Lakepoint Property is a wetland complex in Tooele County, Utah, that was acquired by The Nature Conservancy as a result of a Consent Decree between Kennecott Utah Copper Corporation (Kennecott) and the U.S. Fish and Wildlife Service, in cooperative resolution of claims of natural resource damage and assessment costs associated with Kennecott's "North Zone" area, which is being remediated under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). This document is the long-term management plan for the Lakepoint Property. This plan was developed to address the management of current wetland and wildlife habitat resources on the Lakepoint Property, and restoration through the enhancement of additional resources. The plan contains management priorities with defined goals, objectives and strategies and will be used to guide activities on the Property in the future.

This planning effort is being done for long-term protection and management of land and wildlife resources on Lakepoint, within biological limits, funding, social, and manpower constraints. Funding is being provided by Kennecott through an endowment required under the Consent Decree. This plan will be used as a guideline for land and resource management decisions. The plan will periodically be subject to change, if necessary, as new data regarding habitat and wildlife resources becomes available.

2.0 MISSION STATEMENT

The Nature Conservancy's mission on Lakepoint is to protect, enhance, and provide high quality and secure habitat, and manage it to maximize its benefit to waterfowl, shorebirds, species of conservation concern (such as threatened and endangered species), and a variety of other wildlife species that use this habitat in perpetuity.

3.0 PROPERTY DESCRIPTION

3.1 Introduction and History

The Lakepoint property is located on the south shore of the Great Salt Lake, approximately three miles north-west of Tooele, Utah, and approximately six miles west of the KUCC North Zone Wetlands. Prior to its selection as a site for restoration (ca. 2003), the property had been leased by KUCC for cattle grazing and ponds on the property were managed by duck hunting clubs that leased hunting rights during the fall. Land use in the area of the Lakepoint property is currently primarily agricultural (grazing); however at this time, eastern Tooele County is experiencing very high growth rates because of its proximity to the Salt Lake City metropolitan area. The Lakepoint property is accessed via a frontage road originating at the Tooele interchange on Interstate Highway I-80; this location and freeway access makes it fairly likely that upland portions of the property could be developed in the future.

3.2 Present Habitat Description, Wildlife Use

The Lakepoint property is essentially flat with a slight north-northwest down sloping gradient towards the lake to the north. At present, approximately 70% of the property is upland, dominated primarily by saltgrass (*Distichlis spicata*), with a few other grasses present. Sub-shrubs, including greasewood (*Sarcobatus vermiculatus*), rabbit brush (*Chrysothamnus* spp.) and others are present, especially in the southeastern quadrant of the property. Presently (i.e., prior to restoration) about 30% of the property is wetland, oriented along the two branching watercourses of Mill Creek that flow through the property. These wetlands consist of a variety of types, including seasonally flooded wet meadows, emergent marsh, and open water ponds, and are vegetated primarily with saltgrass and halophytic forbs such as pickleweed (*Salicornia* spp.) and ink weed (*Suaeda* spp.). There are some open playa areas with hypersaline soils and essentially no vegetation; these are restricted primarily to the northern border of the property nearest to the Great Salt Lake shore. Irrigation and drainage ditches bordering the property on the north and west are edged by tamarisk (*Tamarix* spp.) and common reed (*Phragmites* spp.). These habitats are not currently mapped, but The Nature Conservancy will develop a pre-restoration map as part of the management activities at the Lakepoint property.

A schematic map of current conditions at the property is presented in Figure 1; photographs of pre-restoration conditions at the site (photos taken at various times in 2005 and 2006) are presented in Figure 2.

At present, the Lakepoint property is used by a variety of migratory bird species similar to those that occur at the North Zone wetlands, including American avocet, stilt, and killdeer (*Charadrius vociferous*); waterfowl such as mallard, blue-wing teal, northern shoveler and others. In addition,

-- Existing Conditions

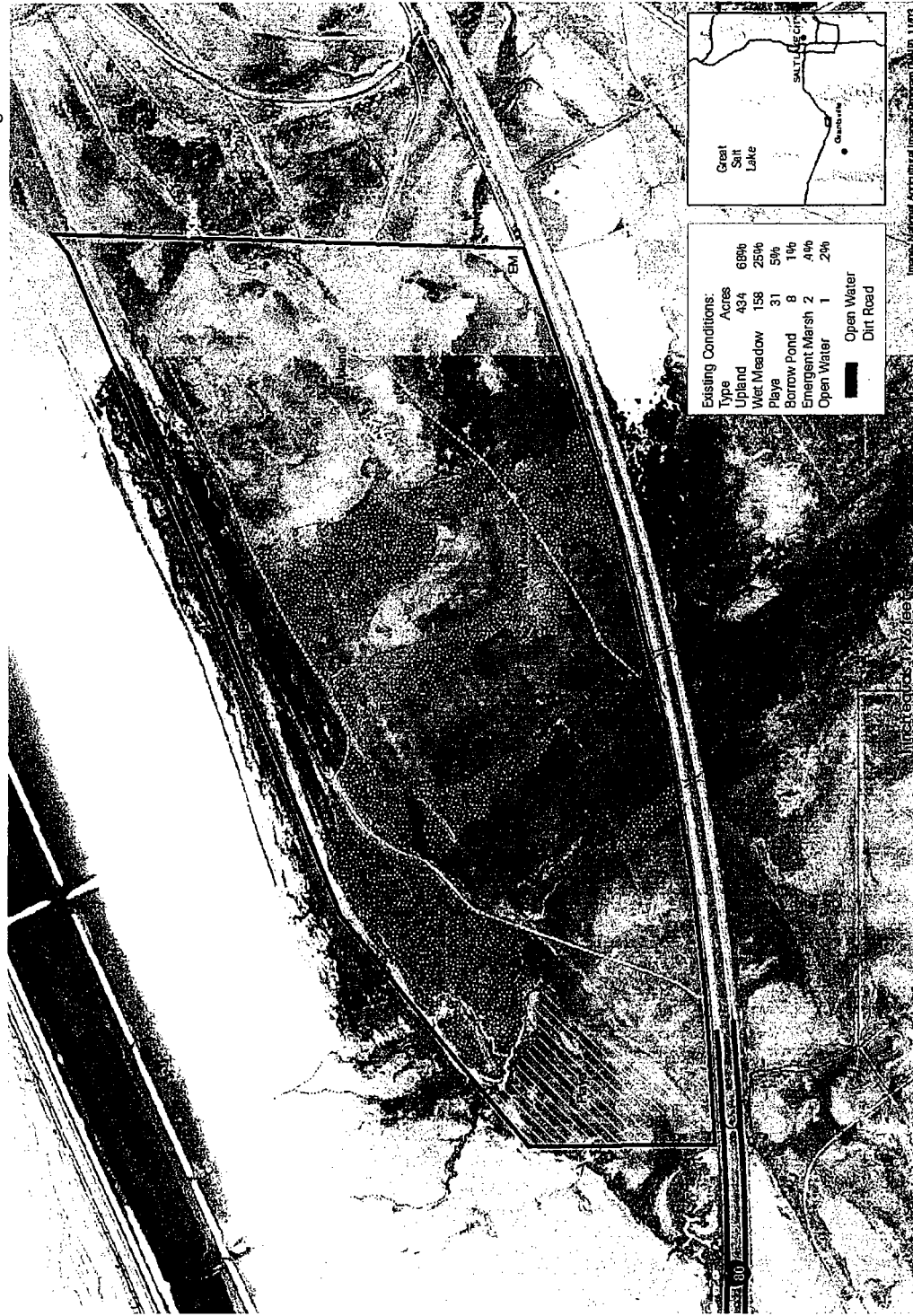


Figure 1 Map of Existing Conditions at Lakepoint Wetland Property, Tooele County, Utah



Figure 2 (a). Lakepoint Property in early spring (2003). View of pond formed by west branch of Mill Creek, south of gravel access road.



Figure 2 (b). Lakepoint Property in autumn (2005). View of channel downstream of pond shown in Figure 2a, above, leading into the “Borrow Pond” in the northeast corner of the property

Figure 2. Photographs of the Lakepoint Property (before restoration)

grassland songbirds including western meadowlark (*Sturnella neglecta*), horned lark (*Eremophila alpestris*) and Savannah sparrow (*Passerculus sandwichensis*) use the upland areas of the property. Other wetland dependent bird species that occur on the Lakepoint property are relatively rare on the North Zone Wetlands. These include long-billed curlews (*Numenius americanus*), which use upland areas, and snowy plover (*Charadrius alexandrinus*), which feed and nest on the salt playas on the north and west margins of the property. Raptors, including northern harriers (*Circus cyaneus*), American kestrels (*Falco sparverius*) and red tail hawk (*Buteo jamaicensis*) can be seen hunting for small mammals or songbirds on the property; the peregrine falcon occurs in the Great Salt Lake ecosystem, and may pursue shorebirds, waterfowl and other species on the property.

3.3 Opportunities for habitat improvement and enhancement

As further explained and discussed in the Restoration Plan, the Lakepoint property was selected for perpetual protection and restoration because it contains natural resource qualities similar to those found at the KUCC North Zone wetlands, such as the existence of a permanent water source, proximity to the Great Salt Lake and suitable soils and terrain to support avian species similar to those that formerly used the North Zone (i.e., in-kind replacement value). In addition to these, the Lakepoint property also has the potential for active restoration steps to increase the property's productivity and value relative to avian populations (e.g., in-kind restoration) using relatively simple and sustainable restoration activities. The objective of these restoration steps is to potentially increase the natural resource value of the parcel to a level that compensates for the natural resources injured at the North Zone wetlands.

4.0 DESIRED FUTURE CONDITIONS

The desired future condition of the Lakepoint Property is described as follows:

1. An area that provides habitat for migratory birds, focusing on birds that use shallow fresh-salt gradient ponds and playas, and associated upland habitats typical of the GSL South Shore, with enhancements to the area focused on improvements in these values.
2. Water resources, soil and vegetation managed in a sustainable manner that supports the area's use as migratory bird habitat, including plant communities that consist of native and desirable non-native species, managed to maximize habitat richness and complexity (e.g., a variety of successional stages, a mosaic of vegetative and water-supported habitat types, a minimum of noxious or non-native weed and plant species)
3. An area that is managed with habitat for migratory birds as its primary value—no hunting, off-road vehicle use, etc. Grazing will only be used if it is judged to be an appropriate tool to manage upland areas to promote habitat health and diversity. Other secondary uses (e.g., education) will only be allowed as appropriate to further, but not adversely impact habitat value.
4. An area that will be used as an educational resource under controlled conditions that do not impair or overwhelm the primary use and value of the site. All educational use will be under the control and discretion of FWS and TNC.
5. An area that is a significant Utah resource, a good neighbor to adjoining landowners, and an outstanding example of excellence in wildlife and habitat management.

5.0 MANAGEMENT GOALS LISTED IN ORDER OF PRIORITY

5.1 Maintain and Improve Waterfowl and Shorebird Habitat

Maximize the value of habitats that are onsite at present (e.g., shallow pond habitats that support nesting waterfowl, American avocet, Black-necked stilt). To the extent possible, increase habitat value for sensitive species that might especially benefit from this area (e.g., snowy plover, long-billed curlew)

5.2 Maintain and Improve Habitat for Other Species

Secondary to the provision of waterfowl and shorebird habitat, provide habitat for other native bird and other wildlife species that are present on the Lakepoint Wetland. This includes maintenance and/or enhancement of habitats for sensitive species such as Federally listed Threatened and Endangered Species, State of Utah listed Sensitive Species and Species of Conservation Concern that are not also included in the objectives of Management Goal 1.

5.3 Water Quantity

Manage and monitor available water resources to the extent possible to provide sufficient water in aquatic habitat areas on the property. For further explanation of water sources and the selection of water source for the Lakepoint property, see Section 2.3.2.1 of the Restoration Plan. For discussion of water conveyance system, see Section 2.3.2.2 of the Restoration Plan.

5.4 Limited Public Access and Use of the Property

Limit public use to those that are consistent with the primary management goal. For example, wildlife education, non-disturbing recreational activities such as bird watching, art, etc. If grazing is to be allowed, it will only be if it is as useful as a tool to manage or enhance habitats for the primary species of concern at Lakepoint.

5.5 Good Neighbor Relations

Maintain working, cooperative relationships with adjacent and surrounding property owners, consistent with the primary management goal. For example, weed control, water management, fire control or management.

5.6 Cultural Resources

If culturally significant resources are discovered to be present on the property (e.g., Native American or pioneer use sites), manage these areas to promote their preservation.

6.0 MANAGEMENT GOALS, ACTIONS AND STRATEGIES

The accomplishment of goals and objectives and implementation of strategies will be dependent on priorities and available funding for projects and personnel.

6.1 Goal: Maintain and Improve Waterfowl and Shorebird Habitat.

A. Strategy: Protect nesting habitat for waterfowl and shorebirds

Actions:

1. Habitat management:
 - a) Develop and implement plans to improve habitat for waterfowl, shorebirds, or other avian species of interest in areas that are presently not being used or receive little nesting use.
 - b) Implement habitat improvements where appropriate,
 - c) Maintain, monitor and document the avian use of habitats on the Lakepoint property
 - d) Utilize management tools such as grazing and fire in a conservative and judicious manner such that benefits are gained without incurring unforeseen losses or adverse effects.
2. Research and monitoring of avian use:
 - a) Monitor and document use of nesting areas, and nesting success by waterfowl and shorebirds, and other species where appropriate
 - b) Census avian populations at relevant times of year (e.g., nesting season, fall and spring migratory stopover periods, etc.) to characterize use of the area by resident and migrating birds, and document the occurrence of species that could or should be included in management goals and objectives.
3. Other Uses:
 - a) Restrict public use to those activities that are consistent with the primary management goals of the property (e.g., education, research, public outreach), and that such uses, if permitted, are subject to restriction and control by TNC land managers.
 - b) Manage grazing (if utilized at all) only as a tool to improve habitat. In the event that grazing is to be used for habitat improvement it will be for limited periods of time and under the strict control of TNC.
 - c) To the extent allowable within the primary management goals of the

- property, cooperate with other individuals, businesses or agencies to minimize the impact of the property on adjacent lands or landowners
- B. Strategy: Manage available water to provide a diverse mixture of aquatic, wetland and upland habitats for waterfowl and shorebird production.

Actions:

1. Maintain available water levels in ponds and wetlands throughout the waterfowl production season to provide suitable waterfowl habitat.
 2. Survey the property to determine the potential for improving or enhancing existing habitat (e.g., ponds, playas, wet meadows, uplands) as well as opportunities to create and/or restore habitat areas.
 3. Creation of new wetland habitat should be undertaken in a manner that minimizes impacts on existing native plant communities.
 4. Minimize encroachment of undesirable plant species and maintain habitat diversity.
- C. Strategy: Provide one cfs of water in wetlands as much as possible throughout the breeding and migration periods for shorebirds and waterfowl.

Actions:

1. Maintain ditches and water structures within the control of TNC.
 2. Maintain and monitor water levels and flows consistent with TNC's acquired water rights and proper water management.
 3. Maximize water management utilizing TNC's current water rights and develop new water sources if available and considering funding constraints.
- D. Strategy: While not required, take steps to protect additional property that may provide a variety of wetland/upland habitats if opportunities become available.

Actions:

1. Identify key parcels for acquisition.

2. Assist neighboring landowners to identify management techniques they can implement to improve habitat.
3. Continue relationship with FWS to ensure success of management goals on Lakepoint.

6.2 Goal: Provide Habitat for other Native Species.

- A. Strategy: Provide secure habitat for wildlife at risk, such as species listed as threatened, endangered, and sensitive or species of special concern.

Actions:

1. Inventory, map, and monitor locations or areas of use by wildlife species at risk. Develop and implement plans to provide optimum protection and habitat security for these species at risk.
2. Provide and protect nesting areas for sensitive wildlife species.

- B. Strategy: Protect plant species at risk, such as, species listed as threatened, endangered, and sensitive or species of special concern.

Actions:

1. Conduct plant surveys to determine if species at risk are present.
2. Inventory, map, and monitor locations of plant species at risk. Develop and implement plans to provide optimum protection and habitat security for species at risk.

- C. Strategy: Provide habitat for a variety of other wildlife and plant species that occur on the Lakepoint site and use habitats managed to protect the primary species of concern.

Actions:

1. Maintain and improve habitat for a variety of bird species, mammals where opportunities exist and are consistent with primary goals.
3. Evaluate the need for nest boxes or structures for songbirds, bats, swallows, great blue herons, and kestrels and install where appropriate.

6.3 Goal: Monitor and Manage Water, Sediment, and Soil Quality.

Actions:

1. Conduct periodic water monitoring to determine whether constituents of concern for migratory birds (e.g., chemical contaminants, excessive nutrients) are present at levels that are adverse to migratory birds and other wildlife. Monitor at adequate locations (e.g., at water's entry onto the property and across the property) to understand the fate and transport of these constituents across the site.
2. Manage water resources to the extent possible to minimize accumulation of contaminants in sediment or vegetation by conducting winter draw-downs on ponds to consolidate sediments and flushing any contaminants from wetlands.

6.4 Goal: Provide Limited Public Access and Use of the Property Consistent with Habitat Goals.

- A. Strategy: Provide limited public access consistent with the habitat plan for the property.

Actions:

1. Evaluate public use and access proposals to ensure consistency with Habitat Goals
2. Provide educational and wildlife viewing opportunities as appropriate and at TNC's discretion.
3. Mow roadways and parking areas where necessary.

- B. Strategy: Manage motorized vehicle access to provide wildlife security and habitat protection throughout the year.

Actions:

1. Restrict motorized vehicle travel to designated roadways.
2. Fence areas that may lead to trespass .

- C. Strategy: Provide for public and Nature Conservancy staff safety on Lakepoint.

Actions:

1. Maintain wildlife safety zones around property.
 2. Maintain facilities with proper care and detail at all times.
- D. Strategy: Use the Lakepoint site as a resource to educate the public on importance of natural lake level fluctuations, salinity balance, wetland functions and wildlife viewing, in a manner consistent with primary site goals.

Actions:

1. At TNC's discretion, provide wildlife base education, viewing, and other non- consumptive opportunities at Lakepoint.
2. At TNC's discretion, conduct limited tours, provide information, and give presentations to appropriate groups, organizations, and individuals.

6.5 Goal: Good Neighbor Relations

- A. Strategy: Strive to develop and maintain good working relationships with neighboring landowners and residents.

Actions:

1. Clearly mark Lakepoint property boundaries.
2. Cooperatively maintain common fences to regulate livestock.
3. Attend and participate in local meetings where appropriate.
4. Coordinate with adjacent landowners to control noxious weeds.
5. Coordinate with adjacent landowners and Kennecott to manage water flows in ditches and field drains.
6. Maintain contact with neighboring landowners and address any problems that may occur.
7. Notify neighbors when conducting management activities that may affect them.

8. Maintain working relations with Local County Mosquito Abatement to help with localized mosquito problems and reduce potential chemical impacts on the property.
9. Coordinate and cooperate with governmental agencies on activities such as fire control, emergency response, etc.

6.6 Goal: Protect Cultural and Historic Resources

- A. Strategy: Protect culturally significant resources such as native American or pioneer use sites if they are determined to be present on the property.

Actions:

1. Cooperate with cultural resource agencies if surveys are determined to be necessary on the property
2. If found, map location of cultural resources on property, and determine potential effects of site management on these resources
3. Develop modifications of the management plan to accommodate these resources within the primary management goals for the site.

APPENDIX A. MANAGEMENT ISSUES

Major Issues

The following major management issues associated with the Lakepoint property have been identified. Goals and objectives that address each issue are identified within the plan.

1. **Issue:** Protection and enhancement of shorebird and waterfowl habitat must be the primary management priority at the Lakepoint property.

Background: The Lakepoint property was acquired by TNC as part of a cooperative Consent Decree lodged by the U.S. Fish and Wildlife Service and Kennecott Utah Copper Corporation to resolve potential legal claims for natural resource losses and damages to shorebird and waterfowl habitat of similar size and quality as the Lakepoint site. This settlement requires that the Lakepoint property be initially restored by Kennecott and then managed such that its valuable wetlands provide a variety of quality habitats to species and that these qualities are enhanced in order to provide the desired natural resource compensation. Long-term management of the Lakepoint property is the responsibility of TNC with the continued cooperation of the USFWS.

2. **Issue:** Vegetative manipulations to improve habitat for wildlife.

Background: Over the years the previous landowner (Kennecott Utah Copper Corporation) has not actively managed vegetation on the property. At this time a variety of habitat manipulation projects should be undertaken to improve and enhance wildlife habitat. These projects should include and not be limited to manipulations and enhancements of water distribution, seeding of grass and shrub species, controlled burns and mechanical manipulations.

3. **Issue:** The need to protect and preserve plant and wildlife species that are listed with special management designations (i.e., Federal threatened and endangered species, State of Utah sensitive species, species of conservation concern).

Background: In addition to its value for the primary species addressed by the Consent Decree discussed above, the Lakepoint property provides habitat elements for a variety of other species of special management concern (i.e., threatened and endangered species, sensitive species, species of conservation concern). Plant species in this category have yet to be surveyed or identified on the preserve. Wildlife species (in addition to waterfowl and shorebirds) are transient and habitats will be

preserved for those species where consistent with the primary management objectives for the property.

4. **Issue:** Livestock grazing at Lakepoint.

Background: At the present time most pastures on the Lakepoint are in poor condition. These upland areas need sufficient rest from grazing to restore function. Any future livestock grazing will be evaluated to determine if it will benefit wildlife habitat, consistent with the mission and management goals of the property, and would be conducted in a way that would comply with conservation and management guidelines.

5. **Issue:** Public access and recreational opportunities.

Background: Public access and use will be evaluated and managed to ensure consistency with the mission and management goals of the property.

6. **Issue:** The control and use of water sources. For further discussion of water issues, refer to Sections 2.3.2.1, 2.3.2.2, and 2.3.2.4 of the Restoration Plan.

Background: Currently the property is fed by one central irrigation ditch. In accordance with the Restoration Plan, this water source will be improved and be consistent with the water quality standards set by The Nature Conservancy, and FWS. This water source should supply the property with a minimum of one (1) cubic foot per second (cfs) in perpetuity. Kennecott will also install water control structures and repair of existing dikes to complement and improve impoundment of water on the property.

APPENDIX B. BUILDINGS, STRUCTURES AND ROADS

Currently on the property there are no buildings and structures, with exception of a small corral and water control structures. All fences and gates are in good condition and will be maintained as such. The installation of new water control structures will alleviate problems with existing structures.

APPENDIX C. WEED CONTROL PLAN

During the first season of implementation of this plan, Lakepoint will be surveyed to determine what species are present and to what extent. Noxious weed control efforts will begin immediately and target all species that are identified on the property.

Common weed infestations in the area of Lakepoint are:

Canada Thistle (*Cirsium arvense*)
Field Bindweed (*Calystegia sepium*)
White top (*Cardaria draba*)
Phragmites (*Phragmites australis*)
Dyers Woad (*Isatis tinctoria*)
Tamarisk (*Tamarix ramosissima*)

Noxious/invasive species control efforts will be a combination of chemical, physical, and biological methods. Individual infestations will be evaluated to determine best methods of treatment. A greater emphasis will be placed on the use of biological and mechanical methods whenever possible to reduce use of herbicides. Summer fallowing will be used primarily on large areas of infestation. Where mechanical and biological control methods are deemed non-feasible, chemical methods will be used. 2,4-D will likely be the primary means of chemical weed control. All chemical use on the property will be evaluated to determine if it is labeled for the use intended, and will be used in a manner that will minimize impacts on non-target plants and animal species.

Noxious/invasive species infestations will be monitored. Monitoring will involve inspecting infected areas throughout the growing season for response to current and previous year's treatments. Areas will be monitored for new infestations of noxious/invasive species during the course of other activities. Locations of new infestations will be recorded and appropriate control measures implemented. Annual treatments will be monitored and documented.

APPENDIX D. MONITORING PLAN

A monitoring plan is essential in order to provide the information necessary for managers to develop sound management plans. Monitoring results (“data”) should provide a means of linking and comparing present conditions to desired future conditions, and determining if conditions are trending towards or away from the desired outcome. As such, monitoring results should be useful in altering existing strategies or developing new ones to achieve desired conditions. Initially, monitoring is also necessary to provide baseline data, and subsequent monitoring is needed to evaluate and document the effectiveness of management strategies and actions in achieving the goals of the management plan. The following is an outline of anticipated monitoring for Lakepoint.

The Goals of the Lakepoint monitoring program are to:

1. Obtain reliable baseline information on the status of wildlife species and habitats on the property.
2. Obtain reliable information to evaluate responses of wildlife and habitats to various future management practices.
3. Provide a permanent record of information to evaluate long-term trends in species occurrence, production, and distribution.
4. Provide a permanent record of habitat changes, and document that habitat for waterfowl and shorebirds is being preserved and enhanced over time.
5. Document public use over time.
6. Document management practices over time.

Potential Survey and Monitoring Activities at Lakepoint

The following information and activities needs to be periodically monitored to achieve the management goals stated in this plan. All of these monitoring activities will not necessarily be undertaken all of the time, but rather in response to needs for information to manage the site.

1. Shorebird and Waterfowl

A. Waterfowl and shorebird nesting surveys

Objective: Obtain data on habitats used by waterfowl and shorebirds and on nesting success. Determine whether or not current management practices and habitats are providing optimum nesting opportunity

B. Waterfowl and shorebird migratory use surveys

Objective: Obtain data on use of habitats by migrating waterfowl and shorebirds, such as numbers, dates of use, habitats used, etc. Determine whether or not current management practices and habitats are providing optimum migratory stopover benefit.

2. Other Wildlife Species

A. Other bird species

Objective: Obtain baseline data for other bird species to determine presence and abundance, and use of habitats on the property.

B. Mammals, other wildlife

Objective: Obtain baseline data for mammals and other wildlife species that occur on the property (e.g., amphibians) to determine presence, abundance and use of habitats on the property.

3. Habitat Conditions, Use and Changes

A. Habitat Condition

Objective: Obtain baseline vegetation data on the various habitat types at Lakepoint.

Background: Permanent vegetative transects and photo plots will be established in the various habitat types at Lakepoint using appropriate methodology. A vegetative and habitat classification map will be generated and maintained.

B. Habitat Utilization

Objective: Monitor use of specific areas by wildlife.

C. Habitat Manipulation

Objective: Monitor the effects of habitat manipulation projects over time.

Background: Plans that include objectives and monitoring will be completed prior to project implementation. Monitoring will be used to determine whether or not objectives are met.

4. Management Practices

A. Water Quantity Measurements

Objective: Monitor water flows to ensure full water rights documentation.

B. Water Quality Measurements

Objective: Monitor water chemistry for constituents of concern (e.g., selenium, nutrients) consistent with the management goals of the property, and to guide water management decisions to minimize to the extent practical salt or toxic constituent accumulation in playas and wetlands.

C. Vegetative Enhancements

Objective: Monitor rehabilitation activities such as numbers and species of grasses and shrubs planted, planting success, use by wildlife, and weed control.

D. Weed Control

Objective: Monitor location and size of infested areas, species controlled, control method, areas treated, and treatment success. Monitor changes in weed and undesirable plant populations over time.

E. Grazing

Objective: If grazing is used as a method of habitat manipulation, monitoring should evaluate whether this management tool is having the desired outcome (i.e., if habitat conditions are moving in the desired direction), if unforeseen adverse effects are also occurring, and when the use of grazing as a management tool can be discontinued (i.e., if equilibrium conditions of the habitat have moved to the desired condition).

F. Public Use

Objective: Monitor educational, wildlife viewing, scientific or other public use of the Lakepoint property. Document information such as type of use, times of use, identity of groups, and numbers of visitors.

APPENDIX E. FENCING PLAN

Lakepoint has both a perimeter fence and various internal pasture fences consisting of different types of fencing. The fences must be maintained to provide site security, keep neighboring livestock out of pastures and to manage habitat on the property. The perimeter fence will be evaluated annually to determine if replacement is necessary. All perimeter fencing that has not already been replaced will be replaced over-time. This should be done to improve visual appearance and correct trespass problems. Funding levels will dictate whether targeted replacement sections are completed. There is also considerable amount of interior fencing. These fences will be evaluated and slated for removal if they are deemed unnecessary. Fence will be removed, as resources are available.

APPENDIX F. FARMING PLAN

Food plots will not be established at Lakepoint for wildlife use on the property or to maintain Green Belt Status. The suitability for the area for farming and available water for irrigation is not sufficient to maintain food plots for wildlife. Agricultural fields not used for crop production will be planted into permanent cover using a seed mixture of native plant species or acceptable non-native species that provide optimum cover.

Farming activities will be structured to restore habitat to provide optimum benefits to wildlife. It will largely depend on suitability of soil and water resources, funding, and personnel time. The following are options that will be considered in future restoration farming plans.

1. Use resources to restore grasses and shrub species for wildlife use. These can be accomplished by utilizing TNC personnel and equipment for restoration activities.
2. Grazing may be used for management of habitat values on the property. If grazing is used, guidelines for its use are presented in Appendix H.

APPENDIX G. FIRE PLAN

Fire is an important component of proper wetland ecosystem management. Fire is an inexpensive tool to remove rank overgrown vegetation. Fire is important to increase plant diversity and to open up feeding areas for shorebirds and waterfowl. Presently fire has not been used as a tool at Lakepoint. Fire should be used in the future as a tool for managers to increase diversity.

The preserve has many areas that should be looked at in the future for prescribed burns. When burning on the preserve many issues must be looked at to insure a proper burn and to reach the goals of the prescribed burn.

1. Ability to control and contain burns on Lakepoint lands.
2. Proper burning conditions.
3. Environmental factors such as air quality.
4. Personnel to help monitor burn.
5. Equipment sufficient to work the burn.
6. Wildlife issues.
7. Timing of burns.
8. Coordination with State Lands, Tooele County Fire Marshall, and City fire agencies.

All of the above factors must be considered as well as others that may arise to ensure the success of a prescribed burn. The Lakepoint property has several areas that could benefit from a prescribed burn to increase diversity. These areas will have to be delineated and evaluated to determine whether a prescribed burn is feasible at those sites. Coordination with state, county, and city agencies is important to ensure success and include them as a safety net, in the event of losing control of a prescribed burn.

In cases of wildfire started by lightning or other natural causes the appropriate agencies need to be notified. Tooele County Fire Marshall should be notified to coordinate city agencies if the fire is deemed hazardous to neighbors, structures, or other important resources. Natural fires should be evaluated to determine if they are detrimental or threatening. If natural fires are not deemed

APPENDIX H. GRAZING PLAN

Historically lands at Lakepoint have been used for livestock grazing—mainly cows and horses. It has been shown that grazing when used properly can be used as a management tool to increase habitat diversity, weed control, and improve wildlife habitat. Grazing should only be used in the future as a management tool and must fall within the goals and mission of the property. A successful grazing plan on Lakepoint should consider the following factors:

1. Current habitat conditions
2. Rangeland health.
3. Sensitive plant and wildlife species.
4. Carrying capacity.
5. Season of use.

Currently the pastures are being utilized on the Lakepoint for grazing purposes. These pastures have traditionally been used year-round. These pastures are in poor condition with the presence of many annual and weed species. The shrub component of the property is also showing the effects of continual grazing. Grazing should be suspended as a management activity on the property. Vegetation on the property should be rested and allowed to restore to proper conditions before utilizing any further grazing.

Grazing can be utilize as a tool to increase feeding areas for shorebirds, weed control, and control of emergent vegetation. Grazing can also provide open water areas for birds by removing emergent vegetation that is rank and overgrown. Any future grazing on Lakepoint will have to be closely monitored. Numbers of livestock grazed during these times will have to be substantially smaller utilizing approximately 50 cow calf pairs. Pastures to be grazed during this time will be determined on a case-by-case basis and evaluated annually.

As land is rehabilitated further opportunities to utilize grazing may become available. Revisions within this plan will need to be made at that time.

Grazing on the property is a great land management tool for managers to manipulate habitat and improve conditions on the property. The area is dynamic and as new tools and grazing systems are developed grazing on the property may be modified.

ATTACHMENT 4

Letters and Correspondence with Consulting Agencies

INTRA-SERVICE SECTION 7 BIOLOGICAL EVALUATION FORM

Originating Person: Chris Cline
Telephone Number: (801) 524-5001 x. 145
Date: October 4, 2007

I. Region: 6

II. Service Activity (Program): Ecological Services, Endangered Species

III. Pertinent Species and Habitat:

A. Listed species and/or their critical habitat within the action area: Threatened species, "Ute lady's tresses" (*Spiranthes diluvialis*), does not occur in the action area. Bald eagle (*Haliaeetus leucocephalus*) recently de-listed, also does not occur in the action area.

B. Proposed species and/or proposed critical habitat within the action area: None

C. Candidate species within the action area: Yellow-billed cuckoo (*Coccyzus americanus*); does not occur in the action area.

D. Include species/habitat occurrence on a map. N/A

IV. Geographic Area or Station Name and Action:

Utah Ecological Services Field Office

"Draft Restoration Plan and Environmental Action Statement (Draft RP/EAS) for the Preservation, Restoration and Management of the Lakepoint Wetlands Site, Tooele County, Utah"

This project is a compensatory wetlands restoration project being conducted as part of a settlement of a claim for Natural Resource Damages that has been brought by the U.S. Department of Justice, acting on behalf of the Service and the U.S. Department of Interior, against Kennecott Utah Copper Corporation (KUCC), for natural resource damages alleged by the Service to have occurred at the North Zone Wetlands, located adjacent to KUCC's smelter and refining facility, in Salt Lake County, Utah. See Attachment 1, Executive Summary for the Draft RP/EAS.

V. Location (attach map):

A. Ecoregion Number and Name: (6) Interior Basin

B. County and State: Tooele County, Utah

C. Section, township, and range (or latitude and longitude): 40° 40' 05.03" N latitude, 112° 18' 18.32" W longitude

D. Distance (miles) and direction to nearest town: 2.2 miles S-SE to Stansbury Park, Tooele County, Utah.

E. Species/habitat occurrence: See Section III above. Project area does not contain habitat for Ute lady's tresses or yellow-billed cuckoo.

VI. Description of Proposed Action (attach additional pages as needed): See Attachment 1, Executive Summary for the Draft RP/EAS

VII. Determination of Effects:

A. Explanation of effects of the action on species and critical habitats in items III. A, B, and C (attach additional pages as needed): none; species do not occur

B. Explanation of actions to be implemented to reduce adverse effects: N/A

VIII. Effect Determination and Response Requested: [* = optional]

A. Listed species/designated critical habitat: None; See Section III

Determination

Response Requested

no effect/no adverse modification

(species: none; see Section III)

X *Concurrence

may affect, but is not likely to adversely affect
species/adversely modify critical habitat
(species: _____)

_____ Concurrence

may affect, and is likely to adversely affect
species/adversely modify critical habitat
(species: _____)

_____ Formal
Consultation

B. Proposed species/proposed critical habitat

Determination

Response Requested

**no effect on proposed species/no adverse
modification of proposed critical habitat
(species: none; see Section III)**

X *Concurrence

is likely to jeopardize proposed species/adversely
modify proposed critical habitat
(species: _____)

___ Conference

C. Candidate species:

Determination

Response Requested

**no effect
(species: none; see Section III)**

X *Concurrence

is likely to jeopardize candidate species
(species: _____)

___ Conference

Larry Crist
Field Supervisor

9/10/07
Date

IX. Reviewing ESO Evaluation:

A. Concurrence X Nonconcurrence _____

B. Formal Consultation Required _____

C. Conference Required _____

D. Informal Conference Required _____

E. Remarks (attach additional pages as needed):

Signature
Reviewing Official

RLC Section 7 coordinator

11/1/07
Date

ATTACHMENT 5

Public Comment and Agency Response