

**Section 4.0**  
**Land Management Appendices**

## Land Management Appendix 1

LIFE FORM	SPECIES	SCIENTIFIC NAME	COMMON NAME
<b>Forb</b>	AMAL	<i>Amaranthus albus</i>	prostrate pigweed
	AMARA	<i>Amaranthus sp.</i>	pigweed
	ANCA10	<i>Anemopsis californica</i>	yerba mansa
	APCA	<i>Apocynum cannabinum</i>	dogbane
	ARLU	<i>Artemisia ludoviciana</i>	white sagebrush
	ASTRA	<i>Astragalus sp.</i>	milkvetch
	ATPH	<i>Atriplex phyllostegia</i>	leafcover saltweed
	ATRIP	<i>Atriplex sp.</i>	saltbush species
	ATSES	<i>Atriplex serenana var. serenana</i>	bractscale
	ATTR	<i>Atriplex truncata</i>	wedgescale saltbush
	BAHY	<i>Bassia hyssopifolia</i>	fivehorn smotherweed
	CALI4	<i>Castilleja linerifolia</i>	Wyoming Indian paintbrush
	CAMIS	<i>Camissonia sp.</i>	suncup species
	CHBR	<i>Chorizanthe brevicornu</i>	brittle spineflower
	CHENO	<i>Chenopodium sp.</i>	goosefoot species
	CHHI	<i>Chenopodium hians</i>	hians goosefoot
	CHIN2	<i>Chenopodium incanum</i>	mealy goosefoot
	CHLE4	<i>Chenopodium leptophyllum</i>	narrowleaf goosefoot
	CHST	<i>Chaenactis stevioides</i>	Steve's dusky maiden
	CIMO	<i>Cirsium mohavense</i>	Mojave thistle
	CLEOM2	<i>Cleomella sp.</i>	stinkweed species
	CLOB	<i>Cleomella obtusifolia</i>	bluntleaf stinkweed
	CLPA4	<i>Cleomella parviflora</i>	slender cleomella
	COMAC	<i>Cordylanthus maritimus var. canescens</i>	alkali bird's beak
	CORA5	<i>Cordylanthus ramosus</i>	bushy bird's beak
	CRCI2	<i>Cryptantha circumscissa</i>	cushion cryptantha
	CRTR5	<i>Cressa truxillensis</i>	spreading alkaliweed
	CRYPT	<i>Cryptantha</i>	cryptantha
	CUSCU	<i>Cuscuta sp.</i>	dodder species
	DESO2	<i>Descurainia sophia</i>	herb sophia
	ERAM2	<i>Eriogonum ampullaceum</i>	Mono buckwheat
	ERIAS	<i>Eriastrum sp.</i>	woolystar species
	ERIOG	<i>Eriogonum sp</i>	buckwheat
	ERMA2	<i>Eriogonum maculatum</i>	spotted buckwheat
	ERPR4	<i>Eriophyllum pringlei</i>	Pringle's wooly sunflower
	ERSP3	<i>Eriastrum sparsiflorum</i>	Great Basin woolystar
	ERWI	<i>Eriastrum wilcoxii</i>	Wilcox's woolystar
	FRSA	<i>Frankenia salina</i>	alkali seaheath
	GILIA	<i>Gilia sp.</i>	gilia species
	GITR	<i>Gilia transmontana</i>	transmontane gilia
	GLLE3	<i>Glycyrrhiza lepidota</i>	American licorice
	GRIND	<i>Grindelia sp.</i>	gumweed species
	HEAN3	<i>Helianthus annuus</i>	common sunflower
	HECU3	<i>Heliotropium curassavicum</i>	salt heliotrope
	LACO13	<i>Laennecia coulteri</i>	conyza

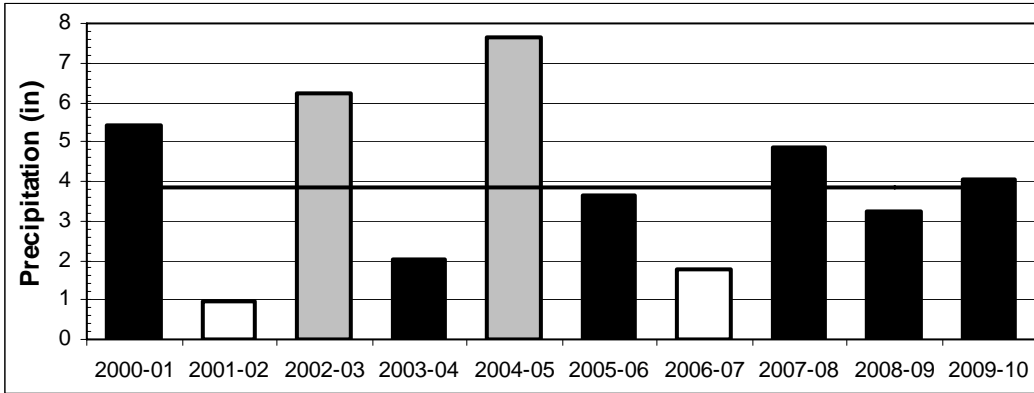
LIFE FORM	SPECIES	SCIENTIFIC NAME	COMMON NAME	
<b>Forb</b>	LASE	<i>Lactuca serriola</i>	prickly lettuce	
	LEFL2	<i>Lepidium flavum</i>	yellow pepperweed	
	LOCO6	<i>Lotus corniculatus</i>	birdsfoot deervetch	
	MACA2	<i>Machaeranthera canescens</i>	hoary tansyaster	
	MACA2	<i>Machaeranthera leptophylla</i>	hoary tansyaster	
	MALAC3	<i>Malacothrix</i>	desert dandelion	
	MALE3	<i>Malvella leprosa</i>	alkali-mallow	
	MEAL6	<i>Mentzelia albicaulis</i>	little blazing star	
	MENTZ	<i>Mentzelia sp.</i>	blazingstar species	
	MEOF	<i>Melilotus officinalis</i>	white sweetclover	
	MEOF	<i>Melilotus officinalis</i>	yellow sweetclover	
	NADE	<i>Nama demissum</i>	purplemat	
	NIOC2	<i>Nitrophila occidentalis</i>	boraxweed	
	OENOT	<i>Oenothera</i>	evening primrose	
	PHFR2	<i>Phacelia fremontii</i>	Fremont's phacelia	
	POAR11	<i>Polygonum aviculare var. arenastrum</i>	common knotweed	
	PSATH	<i>Psathyrotes ramosissima</i>	velvet turtleback	
	PSRA	<i>Psathyrotes ramosissima</i>	velvet turtleback	
	PYRA	<i>Pyrrocoma racemosa</i>	clustered goldenweed	
	SATR12	<i>Salsola tragus</i>	tumbleweed	
	SEVE2	<i>Sesuvium verrucosum</i>	verrucose seapurslane	
	SICO2	<i>Sidalcea covillei</i>	Owens Valley sidalcea	
	SMST	<i>Smilacina stellata</i>	starry false lily of the valley	
	STEPH	<i>Stephanomeria sp.</i>	wirelettuce species	
	STEX	<i>Stephanomeria exigua</i>	small wirelettuce	
	STPA4	<i>Stephanomeria pauciflora</i>	brownplume wirelettuce	
	STPI	<i>Stanleya pinnata</i>	desert princesplume	
	SUMO	<i>Suaeda moquinii</i>	inkweed	
	TRFR2	<i>Trifolium fragiferum</i>	strawberry clover	
	XAST	<i>Xanthium strumarium</i>	rough cocklebur	
	2FORB	<i>herbaceous forb sp.</i>	unidentified forb	
	<b>Graminoid</b>	AGEL3	<i>Agropyron elongatum</i>	tall wheatgrass
		ARPU9	<i>Aristida purpurea</i>	purple threeawn
BRRU2		<i>Bromus rubens</i>	red brome	
BRTE		<i>Bromus tectorum</i>	cheatgrass	
CADO2		<i>Carex douglasii</i>	Douglas' sedge	
CAPR5		<i>Carex praegracilis</i>	clustered field sedge	
CAREX		<i>Carex sp.</i>	sedge species	
CYDA		<i>Cynodon dactylon</i>	bermuda grass	
DISP		<i>Distichlis spicata</i>	saltgrass	
ELEL5		<i>Elymus elymoides</i>	bottlebrush squirreltail	
ELEOC		<i>Eleocharis sp.</i>	spikerush species	
FESTU		<i>Festuca sp.</i>	fescue species	
HOJU		<i>Hordeum jubatum</i>	foxtail barley	
JUBA		<i>Juncus balticus</i>	baltic rush	
LECI4		<i>Leymus cinereus</i>	basin wildrye	

Life form	Species	Scientific name	Common name
Graminoid	LETR5	<i>Leymus triticoides</i>	beardless wildrye
	LOLIU	<i>Lolium sp.</i>	ryegrass species
	MUAS	<i>Muhlenbergia asperifolia</i>	alkali muhly
	PADI6	<i>Paspalum distichum</i>	knotgrass
	POA	<i>Poa sp.</i>	bluegrass species
	POMO5	<i>Polypogon monspeliensis</i>	annual rabbitsfoot grass
	POSE	<i>Poa secunda</i>	sandberg bluegrass
	SCAM6	<i>Schoenoplectus americanus</i>	chairmaker's bulrush
	SCAR	<i>Schismus arabicus</i>	Arabian schismus
	SCPH	<i>Schedonorus phoenix</i>	reed fescue
	SCPH	<i>Schedonorus phoenix</i>	tall fescue
	SPAI	<i>Sporobolus airoides</i>	alkali sacaton
	SPGR	<i>Spartina gracilis</i>	alkali cordgrass
	STIPA	<i>Stipa sp.</i>	needlegrass species
	THPO7	<i>Thinopyrum ponticum</i>	rush wheatgrass
	TYLA	<i>Typha latifolia</i>	broadleaf cattail
	2GRAM	<i>graminoid sp.</i>	unidentified graminoid
Shrub	ALOC2	<i>Allenrolfea occidentalis</i>	iodinebush
	ARTR2	<i>Artemisia tridentata</i>	big sagebrush
	ATCA	<i>Atriplex canescens</i>	fourwing saltbush
	ATCO	<i>Atriplex confertifolia</i>	shadscale
	ATPA3	<i>Atriplex parryi</i>	Parry's saltbush
	ATPO	<i>Atriplex polycarpa</i>	cattle saltbush
	ATRIP	<i>Atriplex sp.</i>	saltbush species
	ATTO	<i>Atriplex torreyi</i>	Nevada saltbush
	EPNE	<i>Ephedra nevadensis</i>	Nevada jointfir
	EPVI	<i>Ephedra viridis</i>	green mormon-tea
	ERNA10	<i>Ericameria nauseosus</i>	rubber rabbitbrush
	FOPU2	<i>Forestiera pubescens</i>	desert olive
	GUSA2	<i>Gutierrezia sarothrae</i>	broom snakeweed
	HYSA	<i>Hymenoclea salsola</i>	burrobrush
	LEFR2	<i>Lepidium fremontii</i>	desert lepidium
	MACA2	<i>Machaeranthera canescens</i>	hoary tansyaster
	MACA17	<i>Machaeranthera carnosia</i>	shrubby alkali aster
	PSAR4	<i>Psoralethamnus aborescens</i>	Mojave indigobush
	ROWO	<i>Rosa woodsii</i>	Woods' Rose
	SAEX	<i>Salix exigua</i>	coyote willow
	SALIX	<i>Salix sp.</i>	willow species
	SAVE4	<i>Sarcobatus vermiculatus</i>	greasewood
	STEPH	<i>Stephanomeria sp.</i>	wirelettuce species
	SUMO	<i>Suaeda moquinii</i>	inkweed
	TARA	<i>Tamarisk ramosissima</i>	tamarisk

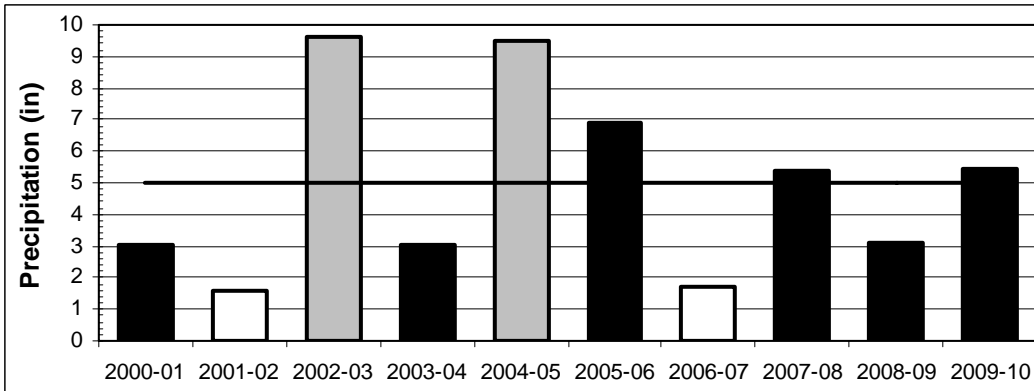
## Land Management Appendix 2

**Figure 1.** Annual precipitation (October through September) at a) Lone Pine, (b) Independence, and (c) Intake between 2000 and 2010. Black indicates precipitations falling within 50% of a historical value. Gray indicates precipitations 50% greater than a historical value. White indicates precipitations 50% less than a historical value. Black lines indicate mean values.

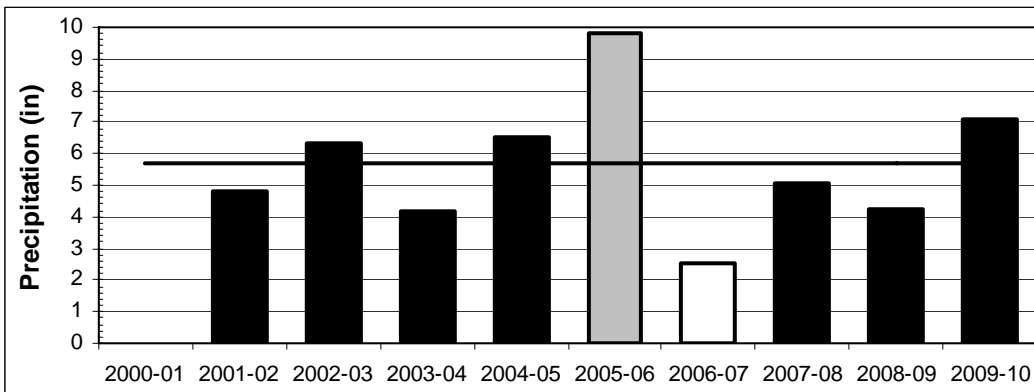
a) Lone Pine



b) Independence

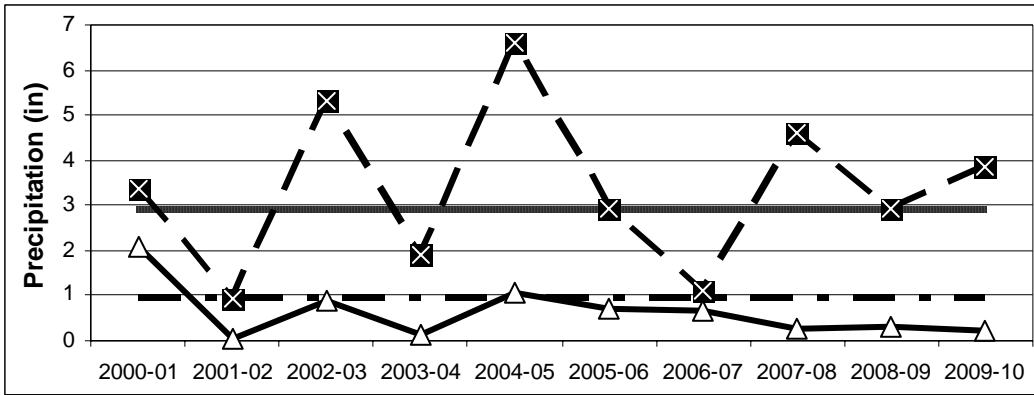


c) Intake



**Figure 2.** Mean precipitations for cold and warm seasons at a) Lone Pine, (b) Independence, and (c) Intake between 2000 and 2010.

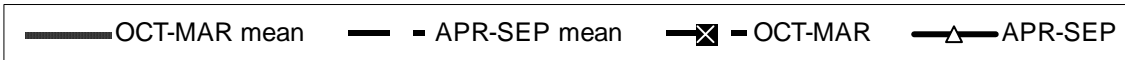
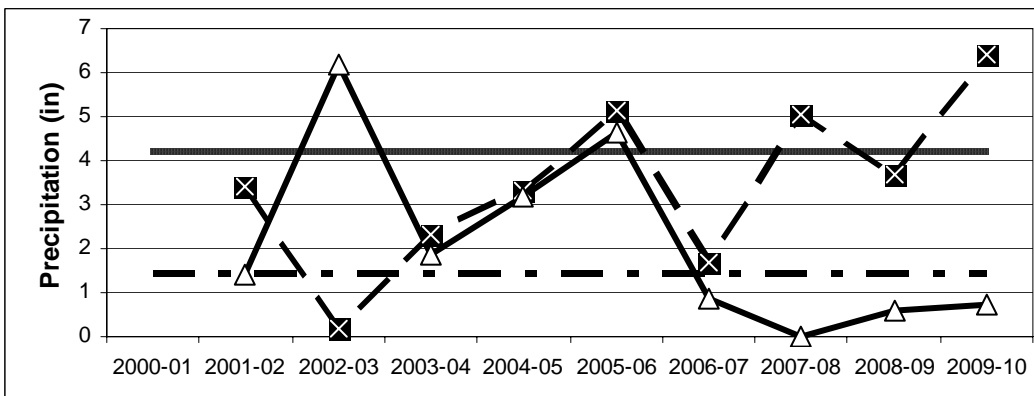
a) Lone Pine



b) Independence



c) Intake



## **LAND MANAGEMENT APPENDIX 3**

### **LOWER OWENS RIVER PROJECT**

#### **Range Trend Monitoring Site Photos**





**LOWER OWENS RIVER PROJECT**

**Range Trend Monitoring Site Photos**

**Intake Lease (RLI-475)**

**2009-2010**

**Transect**  
INTAKE\_01

**Pasture**  
Upper Blackrock Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
September 3, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**INTAKE\_01**

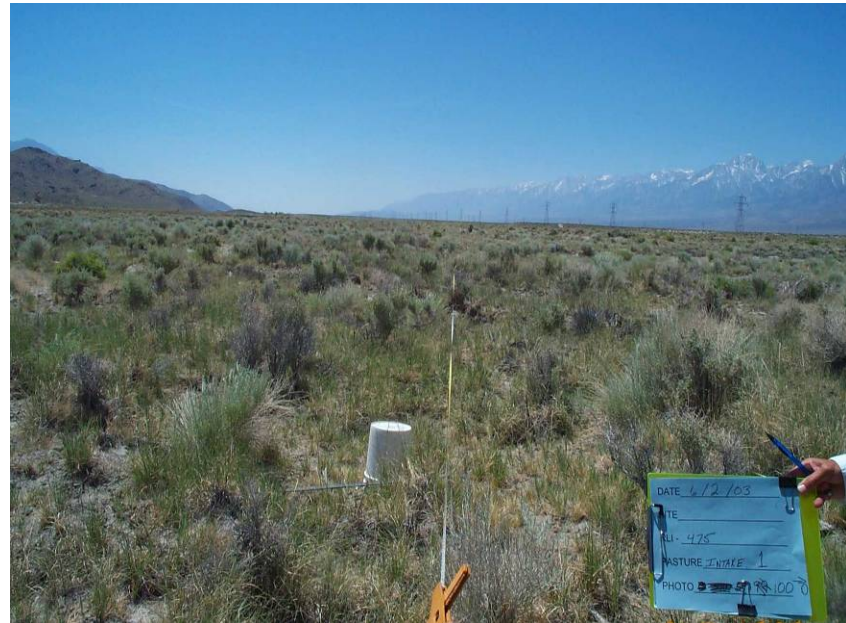
**Transect**  
INTAKE\_01

**Pasture**  
Upper Blackrock Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 2, 2003

Photo Not Available



0 – 100 meters

100 - 0 meters



0 meters



51 meters



99 meters

**INTAKE\_01**

**Transect**  
INTAKE\_01

**Pasture**  
Upper Blackrock Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
May 24, 2004



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**INTAKE\_01**

**Transect**  
INTAKE\_01

**Pasture**  
Upper Blackrock Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 2, 2007



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**INTAKE\_01**

**Transect**  
INTAKE\_01

**Pasture**  
Upper Blackrock Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 5, 2009



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**INTAKE\_01**

**Transect**  
INTAKE\_01

**Pasture**  
Upper Blackrock Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 5, 2010



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**INTAKE\_01**





**LOWER OWENS RIVER PROJECT**

**Range Trend Monitoring Site Photos**

**Stewart Lease (RLI-475)**

**2009-2010**

**Transect**  
STEWART\_01

**Pasture**  
Intake Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 6, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
STEWART\_01

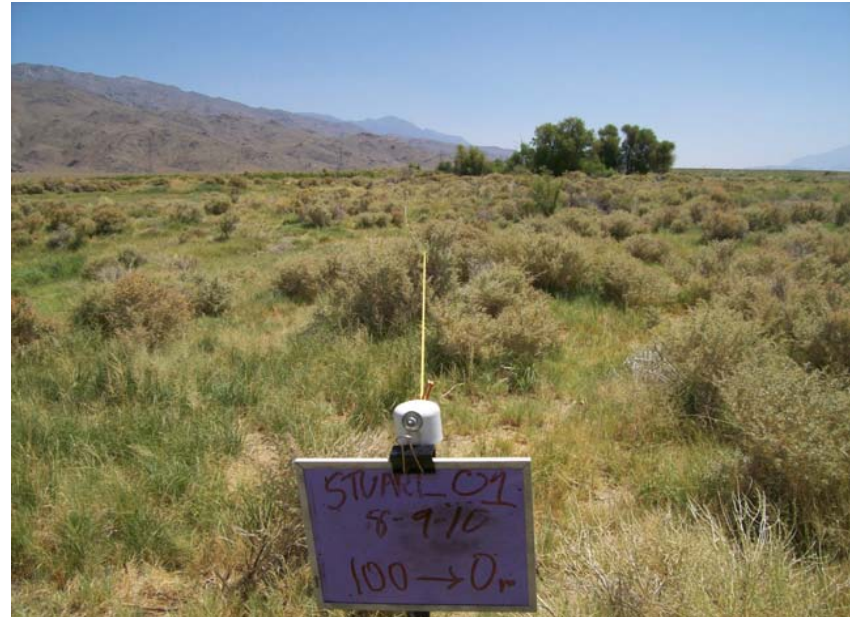
**Pasture**  
Intake Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 9, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LOWER OWENS RIVER PROJECT**

**Range Trend Monitoring Site Photos**

**Twin Lakes Lease (RLI - 491)**

**2002-2010**

**Transect**  
TWINLAKES\_02

**Pasture**  
Lower Blackrock Field

**Ecological Site**  
Saline Bottom Wetland

**Sampling Date**  
June 1, 2003



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**Transect**  
TWINLAKES\_02

**Pasture**  
Lower Blackrock Field

**Ecological Site**  
Saline Bottom Wetland

**Sampling Date**  
June 29, 2004



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**TWINLAKES\_02**

**Transect**  
TWINLAKES\_02

**Pasture**  
Lower Blackrock Field

**Ecological Site**  
Saline Bottom Wetland

**Sampling Date**  
July 25, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**TWINLAKES\_02**

**Transect**  
TWINLAKES\_02

**Pasture**  
Lower Blackrock Field

**Ecological Site**  
Saline Bottom Wetland

**Sampling Date**  
August 4, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**TWINLAKES\_02**



**Transect**  
TWINLAKES\_02

**Pasture**  
Lower Blackrock Field

**Ecological Site**  
Saline Bottom Wetland

**Sampling Date**  
August 9, 2010



0 – 100 meters



100 - 0 meters



0 meters



51meters



99 meters

**Transect**  
TWINLAKES\_03

**Pasture**  
Lower Blackrock Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 31, 2002



0 – 100 meters



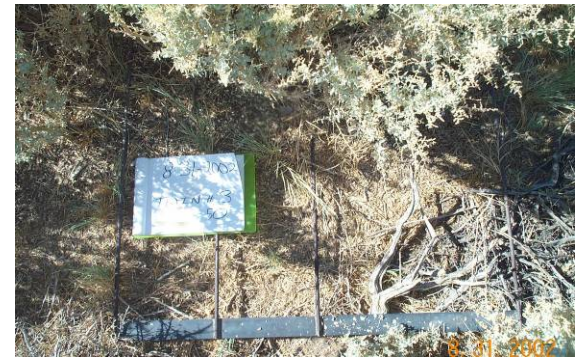
100 - 0 meters



0 meters



50 meters



95 meters

**TWINLAKES\_03**

**Transect**  
TWINLAKES\_03

**Pasture**  
Lower Blackrock Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 1, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters

Photo Not Available

99 meters

**TWINLAKES\_03**

**Transect**  
TWINLAKES\_03

**Pasture**  
Lower Blackrock Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 24, 2004



0 – 100 meters

Photo Not Available

100 - 0 meters



0 meters



51 meters



99 meters

**TWINLAKES\_03**

**Transect**  
TWINLAKES\_03

**Pasture**  
Lower Blackrock Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 25, 2007



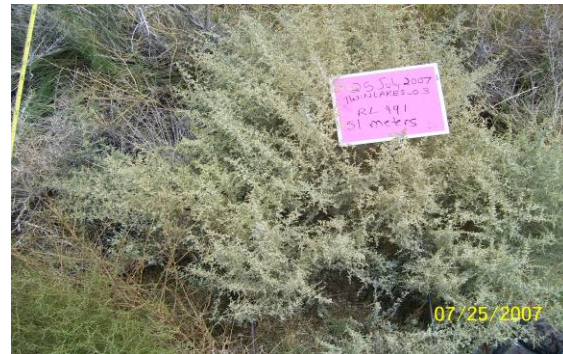
0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**TWINLAKES\_03**

**Transect**  
TWINLAKES\_03

**Pasture**  
Lower Blackrock Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 27, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**TWINLAKES\_03**

**Transect**  
TWINLAKES\_03

**Pasture**  
Lower Blackrock Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 9, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
TWINLAKES\_04

**Pasture**  
Lower Blackrock Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 30, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**TWINLAKES\_04**



**Transect**  
TWINLAKES\_04

**Pasture**  
Lower Blackrock Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 4, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
TWINLAKES\_04

**Pasture**  
Lower Blackrock Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 25, 2004

Photo Not Available



0 – 100 meters

100 - 0 meters



0 meters



51 meters



99 meters

**TWINLAKES\_04**

Transect TWINLAKES_04	Pasture Lower Blackrock Riparian Field	Ecological Site Moist Floodplain	Sampling Date July 9, 2007
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0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
TWINLAKES\_04

**Pasture**  
Lower Blackrock Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 5, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**TWINLAKES\_04**

**Transect**  
TWINLAKES\_04

**Pasture**  
Lower Blackrock Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 9, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
TWINLAKES\_05

**Pasture**  
Lower Blackrock Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
September 3, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**TWINLAKES\_06**

**Transect**  
TWINLAKES\_05

**Pasture**  
Lower Blackrock Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 4, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
TWINLAKES\_05

**Pasture**  
Lower Blackrock Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 9, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**TWINLAKES\_06**



**Transect**  
TWINLAKES\_05

**Pasture**  
Lower Blackrock Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 6, 2007



0 – 100 meters

Photo Not Available

100 - 0 meters



0 meters



51 meters



99 meters

**TWINLAKES\_06**

<b>Transect</b>	<b>Pasture</b>	<b>Ecological Site</b>	<b>Sampling Date</b>
TWINLAKES_05	Lower Blackrock Field	Saline Meadow	

Transect submerged. Not run in 2009 or 2010.

**Transect**  
TWINLAKES\_06

**Pasture**  
Lower Blackrock Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 11, 2006



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**TWINLAKES\_06**

**Transect**  
TWINLAKES\_06

**Pasture**  
Lower Blackrock Riparian Field

**Ecological Site**  
Moist Floodplain

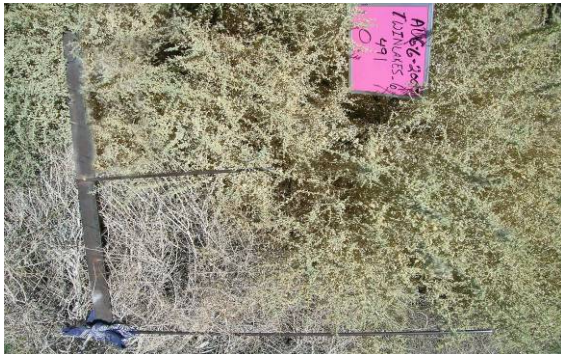
**Sampling Date**  
August 6, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**TWINLAKES\_06**

**Transect**  
TWINLAKES\_06

**Pasture**  
Lower Blackrock Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 5, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
TWINLAKES\_06

**Pasture**  
Lower Blackrock Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 9, 2010



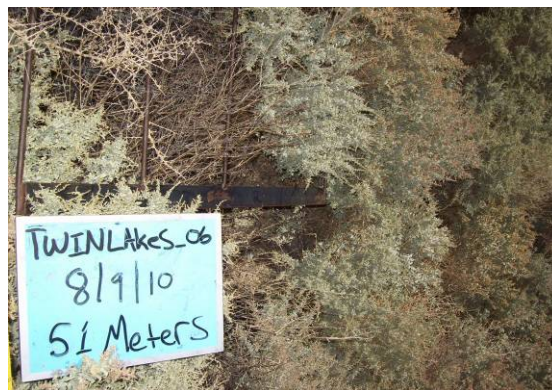
0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

# **LOWER OWENS RIVER PROJECT**

## **Range Trend Monitoring Site Photos**

### **Blackrock Lease (RLI-428)**

**2002 – 2010**

**(Part 1 of 3)**

**Transect**  
BLKROC\_01

**Pasture**  
White Meadow Field

**Ecological Site**  
Saline Bottom

**Sampling Date**  
August 30, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters



**Transect**  
BLKROC\_01

**Pasture**  
White Meadow Field

**Ecological Site**  
Saline Bottom

**Sampling Date**  
June 4, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_01

**Pasture**  
White Meadow Field

**Ecological Site**  
Saline Bottom

**Sampling Date**  
July 9, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_01**

Transect BLKROC_01	Pasture White Meadow Field	Ecological Site Saline Bottom	Sampling Date July 30, 2007
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0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_01

**Pasture**  
White Meadow Field

**Ecological Site**  
Saline Bottom

**Sampling Date**  
August 4, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_01**

<b>Transect</b> BLKROC_01	<b>Pasture</b> White Meadow Field	<b>Ecological Site</b> Saline Bottom	<b>Sampling Date</b> July 28, 2010
------------------------------	--------------------------------------	---	---------------------------------------



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_02**

**Transect**  
BLKROC\_02

**Pasture**  
Reservation Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 30, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**Transect**  
BLKROC\_02

**Pasture**  
Reservation Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 5, 2003



Photo not available

0 – 100 meters

100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_02**

**Transect**  
BLKROC\_02

**Pasture**  
Reservation Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 12, 2004



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters



**Transect**  
BLKROC\_02

**Pasture**  
Reservation Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 30, 2007



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

<b>Transect</b> BLKROC_02	<b>Pasture</b> Reservation Field	<b>Ecological Site</b> Saline Meadow	<b>Sampling Date</b> July 29, 2009
------------------------------	-------------------------------------	---	---------------------------------------



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**BLKROC\_02**

<b>Transect</b> BLKROC_02	<b>Pasture</b> Reservation Field	<b>Ecological Site</b> Saline Meadow	<b>Sampling Date</b> July 27, 2010
------------------------------	-------------------------------------	---	---------------------------------------



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

BLKROC\_02

**Transect**  
BLKROC\_03

**Pasture**  
Reservation Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 29, 2002



0 - 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**Transect**  
BLKROC\_03

**Pasture**  
Reservation Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 09, 2003



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**BLKROC\_03**

**Transect**  
BLKROC\_03

**Pasture**  
Reservation Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 30, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_03**

**Transect**  
BLKROC\_03

**Pasture**  
Reservation Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 30, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_03**

**Transect**  
BLKROC\_03

**Pasture**  
Reservation Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 30, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



<b>Transect</b> BLKROC_03	<b>Pasture</b> Reservation Field	<b>Ecological Site</b> Saline Meadow	<b>Sampling Date</b> July 27, 2010
------------------------------	-------------------------------------	---	---------------------------------------



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_04**

**Transect**  
BLKROC\_04

**Pasture**  
Robinson Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 29, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**BLKROC\_04**

**Transect**  
BLKROC\_04

**Pasture**  
Robinson Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 9, 2003

Photo Not Available



0 – 100 meters

100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_04**

**Transect**  
BLKROC\_04

**Pasture**  
Robinson Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 21, 2004



0 – 100 meters



100 - 0 meters



0 meters

Photo Not Available

51 meters



99 meters

**BLKROC\_04**

**Transect**  
BLKROC\_04

**Pasture**  
Robinson Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 27, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_04**

**Transect**  
BLKROC\_04

**Pasture**  
Robinson Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 29, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_04

**Pasture**  
Robinson Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 26, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_05

**Pasture**  
Russel Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 29, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters



**Transect**  
BLKROC\_05

**Pasture**  
Russel Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 12, 2003



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**BLKROC\_05**

**Transect**  
BLKROC\_05

**Pasture**  
Russel Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 22, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_05**

**Transect**  
BLKROC\_05

**Pasture**  
Russel Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 31, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_05**

**Transect**  
BLKROC\_05

**Pasture**  
Russel Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 29, 2009



0 - 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_05

**Pasture**  
Russel Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 26, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_06**

<b>Transect</b> BLKROC_06	<b>Pasture</b> Locust Field	<b>Ecological Site</b> Saline Meadow	<b>Sampling Date</b> August 29, 2002
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0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**Transect**  
BLKROC\_06

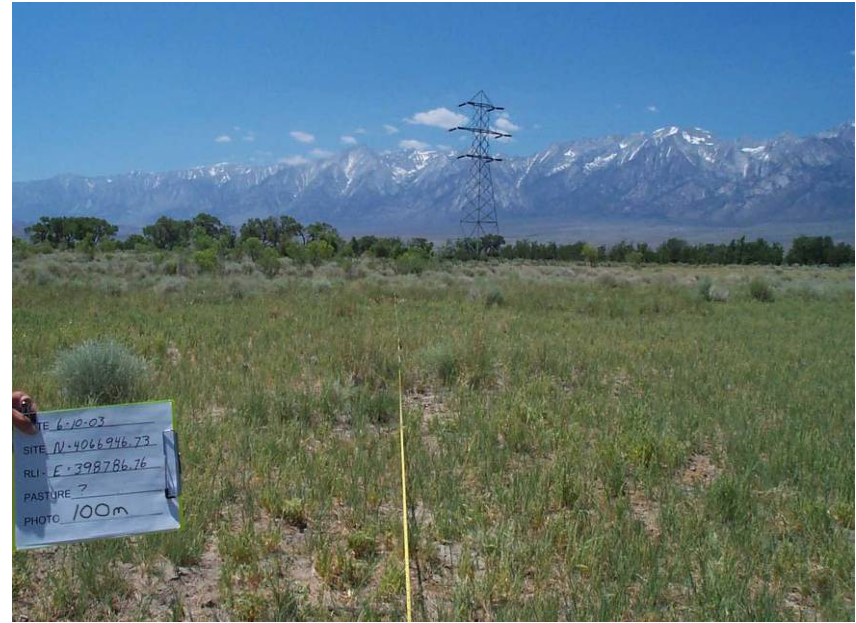
**Pasture**  
Locust Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 10, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_06

**Pasture**  
Locust Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 22, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
BLKROC\_06

**Pasture**  
Locust Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 27, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_06

**Pasture**  
Locust Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 29, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_06

**Pasture**  
Locust Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 26, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_07

**Pasture**  
Wrinkle Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 28, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**Transect**  
BLKROC\_07

**Pasture**  
Wrinkle Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 10, 2003



Photo Not Available

0 – 100 meters

100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
BLKROC 07

**Pasture**  
Wrinkle Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 22, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_07

**Pasture**  
Wrinkle Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 27, 2007



7/27/2007

0 – 100 meters



7/27/2007

100 - 0 meters



7/27/2007

0 meters



7/27/2007

51 meters



7/27/2007

99 meters

**BLKROC\_07**



**Transect**  
BLKROC\_07

**Pasture**  
Wrinkle Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 29, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_07

**Pasture**  
Wrinkle Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 22, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_08

**Pasture**  
Springer Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 28, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**Transect**  
BLKROC\_08

**Pasture**  
Springer Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 10, 2003



0 – 100 meters

100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_08

**Pasture**  
Springer Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 23, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_08**

**Transect**  
BLKROC\_08

**Pasture**  
Springer Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 06, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect BLKROC\_08 discontinued in 2009**

**Site not representative of saline meadow due to influence of adjacent ditch**

**Transect**  
BLKROC\_09

**Pasture**  
Horse Holding

**Ecological Site**  
Sodic Fan

**Sampling Date**  
August 27, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters



**Transect**  
BLKROC\_09

**Pasture**  
Horse Holding

**Ecological Site**  
Sodic Fan

**Sampling Date**  
June 12, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_09

**Pasture**  
Horse Holding

**Ecological Site**  
Sodic Fan

**Sampling Date**  
July 31, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_09

**Pasture**  
Horse Holding

**Ecological Site**  
Sodic Fan

**Sampling Date**  
July 28, 2009

Photo Not Available



0 – 100 meters

100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_09

**Pasture**  
Horse Holding

**Ecological Site**  
Sodic Fan

**Sampling Date**  
July 22, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_10

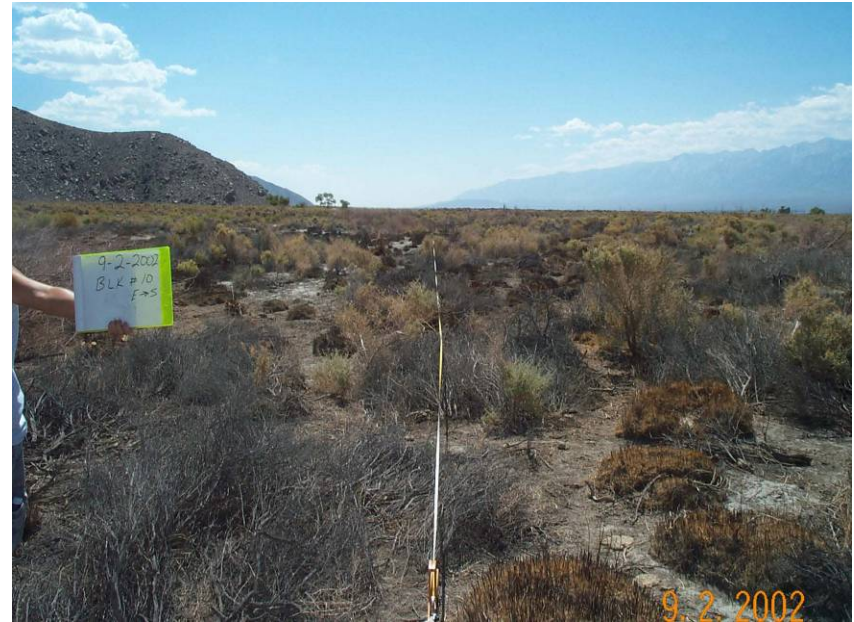
**Pasture**  
White Meadow Riparian Field

**Ecological Site**  
Moist Floodplain

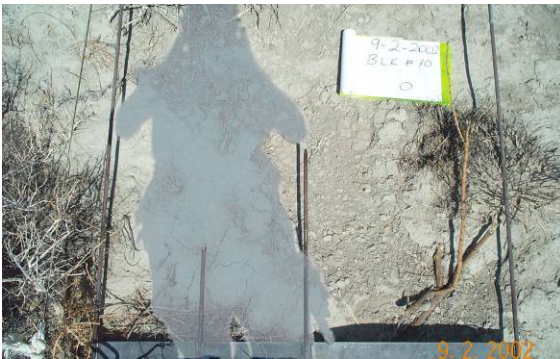
**Sampling Date**  
September 2, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**Transect**  
BLKROC\_10

**Pasture**  
White Meadow Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 4, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_10

**Pasture**  
White Meadow Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 25, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_10

**Pasture**  
White Meadow Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 4, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
BLKROC\_10

**Pasture**  
White Meadow Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 9, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_11

**Pasture**  
White Meadow Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
September 2, 2002



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_11

**Pasture**  
White Meadow Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 5, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_11

**Pasture**  
White Meadow Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 26, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_11

**Pasture**  
White Meadow Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 10, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_11

**Pasture**  
White Meadow Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 4, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_11

**Pasture**  
White Meadow Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 29, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_12

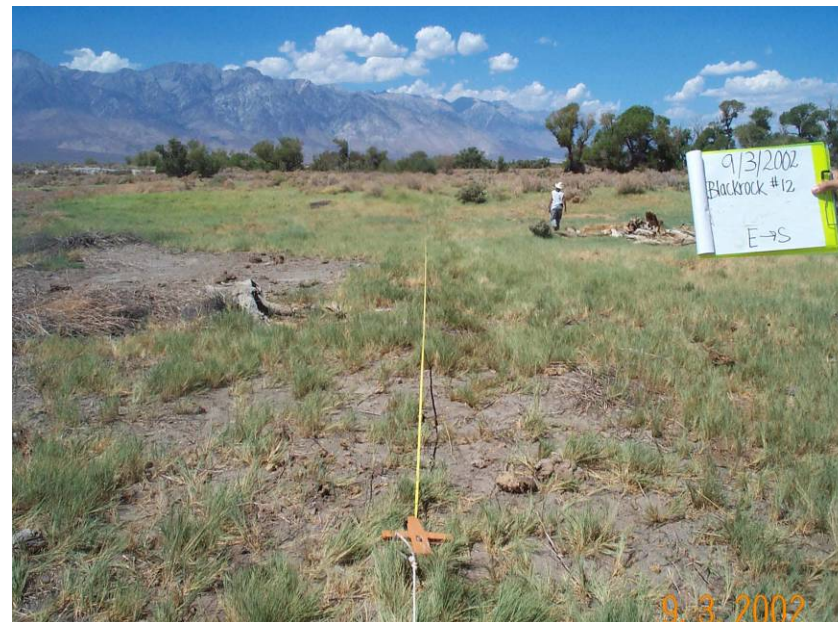
**Pasture**  
North Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
September 3, 2002



0 – 100 meters



100 - 0 meters



0 meters



51 meters



95 meters



**Transect**  
BLKROC\_12

**Pasture**  
North Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 26, 2003



0 – 100 meters



100 - 0 meters



0 meters

Photo not available

51 meters

Photo not available

99 meters

**BLKROC\_12**

**Transect**  
BLKROC\_12

**Pasture**  
North Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 13, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_12

**Pasture**  
North Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 30, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_12

**Pasture**  
North Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 30, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect BLKROC\_012 not sampled in 2010**

**Site not accessible due to river.**



**LOWER OWENS RIVER PROJECT**

**Range Trend Monitoring Site Photos**

**Blackrock Lease (RLI-428)**

**2002 – 2010**

**(Part 2 of 3)**

**Transect**  
BLKROC\_13

**Pasture**  
South Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
September 3, 2002



0 – 100 meters



100 - 0 meters



0 meters

Photo not Available

51 meters



95 meters



**Transect**  
BLKROC\_13

**Pasture**  
South Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 9, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_13

**Pasture**  
South Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 1, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

<b>Transect</b> BLKROC_13	<b>Pasture</b> South Riparian Field	<b>Ecological Site</b> Moist Floodplain	<b>Sampling Date</b> July 12, 2007
------------------------------	--	--	---------------------------------------



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_13

**Pasture**  
South Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 30, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_13

**Pasture**  
South Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 26, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_14

**Pasture**  
White Meadow Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 24, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**Transect**  
BLKROC\_14

**Pasture**  
White Meadow Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 5, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_14

**Pasture**  
White Meadow Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 26, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



<b>Transect</b> BLKROC_14	<b>Pasture</b> White Meadow Riparian Field	<b>Ecological Site</b> Moist Floodplain	<b>Sampling Date</b> July 11, 2007
------------------------------	---	--	---------------------------------------



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_14

**Pasture**  
White Meadow Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 4, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_14

**Pasture**  
White Meadow Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 6, 2010



0 - 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

<b>Transect</b> BLKROC_15	<b>Pasture</b> Reservation Riparian Field	<b>Ecological Site</b> Moist Floodplain	<b>Sampling Date</b> June 20, 2003
------------------------------	--	--	---------------------------------------



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_15

**Pasture**  
Reservation Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 1, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_15

**Pasture**  
Reservation Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 24, 2005



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_15

**Pasture**  
Reservation Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 11, 2007



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_15

**Pasture**  
Reservation Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 31, 2009



0 - 100 meters



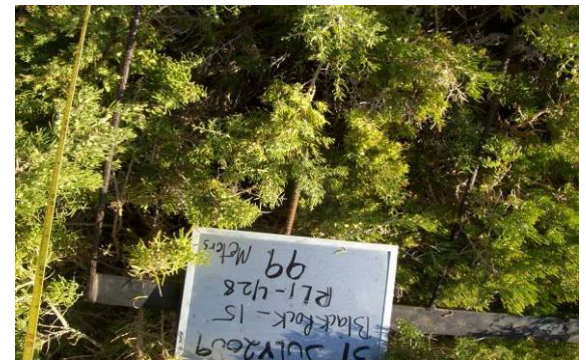
100 - 0 meter



0 meters

Photo not Available

51 meters



99 meters



**Transect**  
BLKROC\_15

**Pasture**  
Reservation Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 29, 2010



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_16

**Pasture**  
Reservation Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 20, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

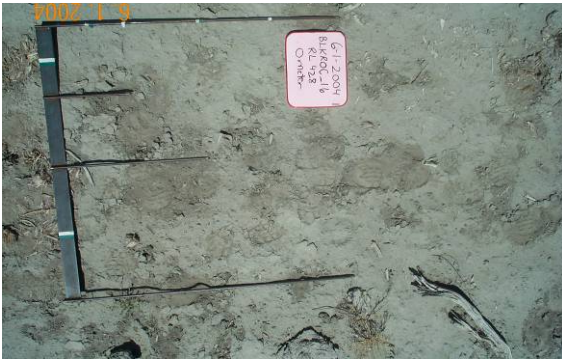
<b>Transect</b> BLKROC_16	<b>Pasture</b> Reservation Riparian Field	<b>Ecological Site</b> Moist Floodplain	<b>Sampling Date</b> June 1, 2004
------------------------------	--	--	--------------------------------------



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_16

**Pasture**  
Reservation Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 25, 2005



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_16

**Pasture**  
Reservation Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 31, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_16

**Pasture**  
Reservation Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 30, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_16

**Pasture**  
Reservation Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 29, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_17

**Pasture**  
Reservation Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 20, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
BLKROC\_17

**Pasture**  
Reservation Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 27, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_17**

**Transect**  
BLKROC\_17

**Pasture**  
Reservation Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 25, 2005



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_17

**Pasture**  
Reservation Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 31, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_17

**Pasture**  
Reservation Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 30, 2009



0 – 100 meters



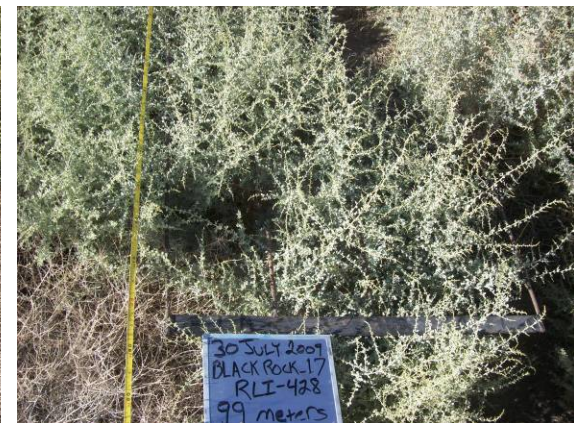
100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_17

**Pasture**  
Reservation Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 26, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_18

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 23, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_18

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 2, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_18**

**Transect**  
BLKROC\_18

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 25, 2005



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
BLKROC\_18

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 12, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_18

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 30, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_18

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 26, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_19

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 23, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_19

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 2, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_19**

**Transect**  
BLKROC\_19

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 31, 2005



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_19

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 13, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_19

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 29, 2009



0 – 100 meters

100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
BLKROC\_19

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 22, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_20

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 20, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_20

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 2, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_20

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

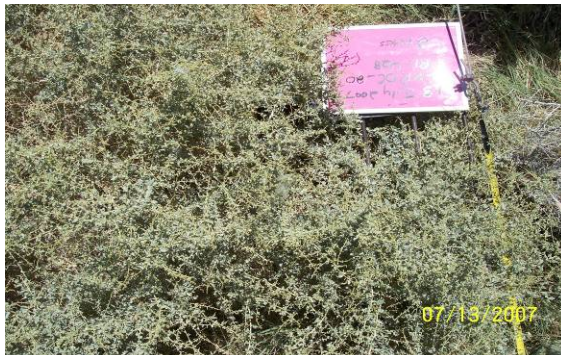
**Sampling Date**  
July 13, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_20

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 29, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_20

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

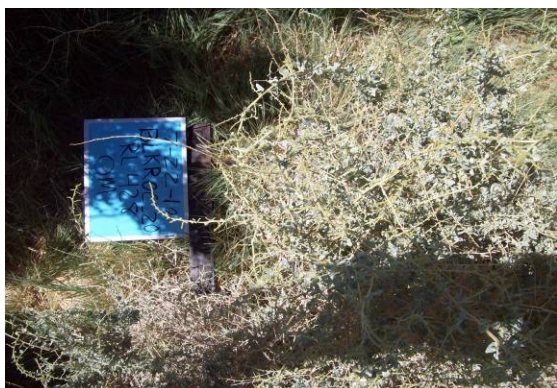
**Sampling Date**  
July 22, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_21

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 2, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_21

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 31, 2005



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
BLKROC\_21

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 13, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_21

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 29, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_21

**Pasture**  
Wrinkle Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 22, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_22

**Pasture**  
North Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 11, 2006



0 – 100 meters

100 - 0 meters



0 meters

51 meters

99 meters

**BLKROC\_22**

**Transect**  
BLKROC\_22

**Pasture**  
North Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 18, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_22

**Pasture**  
North Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 30, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_22

**Pasture**  
North Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 26, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_23

**Pasture**  
South Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 12, 2006



0 – 100 meters

100 - 0 meters



0 meters

51 meters

99 meters



**Transect**  
BLKROC\_23

**Pasture**  
South Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 30, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_23

**Pasture**  
South Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 26, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

# **LOWER OWENS RIVER PROJECT**

## **Range Trend Monitoring Site Photos**

### **Blackrock Lease (RLI-428)**

**2002 – 2010**

**(Part 3 of 3)**

**Transect**  
BLKROC\_37

**Pasture**  
Lower Blackrock Field

**Ecological Site**  
Saline Bottom

**Sampling Date**  
August 20, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**BLKROC\_39**

**Transect**  
BLKROC\_37

**Pasture**  
Lower Blackrock Field

**Ecological Site**  
Saline Bottom

**Sampling Date**  
June 3, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_37

**Pasture**  
Lower Blackrock Field

**Ecological Site**  
Saline Bottom

**Sampling Date**  
July 23, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_39**

**Transect**  
BLKROC\_37

**Pasture**  
Lower Blackrock Field

**Ecological Site**  
Saline Bottom

**Sampling Date**  
July 25, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_39**

**Transect**  
BLKROC\_37

**Pasture**  
Lower Blackrock Field

**Ecological Site**  
Saline Bottom

**Sampling Date**  
August 4, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
BLKROC\_37

**Pasture**  
Lower Blackrock Field

**Ecological Site**  
Saline Bottom

**Sampling Date**  
July 28, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_39

**Pasture**  
White Meadow Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 20, 2002



0 – 100 meters



100 - 0 meters



0 meters



51 meters



95 meters

**Transect**  
BLKROC\_39

**Pasture**  
White Meadow Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 24, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_39

**Pasture**  
White Meadow Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 12, 2004



0 – 100 meters



100 - 0 meters

Photo not available

0 meters



51 meters



99 meters

**BLKROC\_39**

**Transect**  
BLKROC\_39

**Pasture**  
White Meadow Field

**Ecological Site**  
Saline Bottom

**Sampling Date**  
August 4, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_39

**Pasture**  
White Meadow Field

**Ecological Site**  
Saline Bottom

**Sampling Date**  
July 28, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_44**

**Transect**  
BLKROC\_44

**Pasture**  
Reservation Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 20, 2002



0 – 100 meters



100 - 0 meters



0 meters



51 meters



95 meters

**Transect**  
BLKROC\_44

**Pasture**  
Reservation Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 24, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
BLKROC\_44

**Pasture**  
Reservation Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 12, 2004

Photo not available



0 – 100 meters

100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_44**

**Transect**  
BLKROC\_44

**Pasture**  
Reservation Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 10, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_44

**Pasture**  
Reservation Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 29, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_44**

<b>Transect</b> BLKROC_44	<b>Pasture</b> Reservation Field	<b>Ecological Site</b> Saline Meadow	<b>Sampling Date</b> July 27, 2010
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0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_49

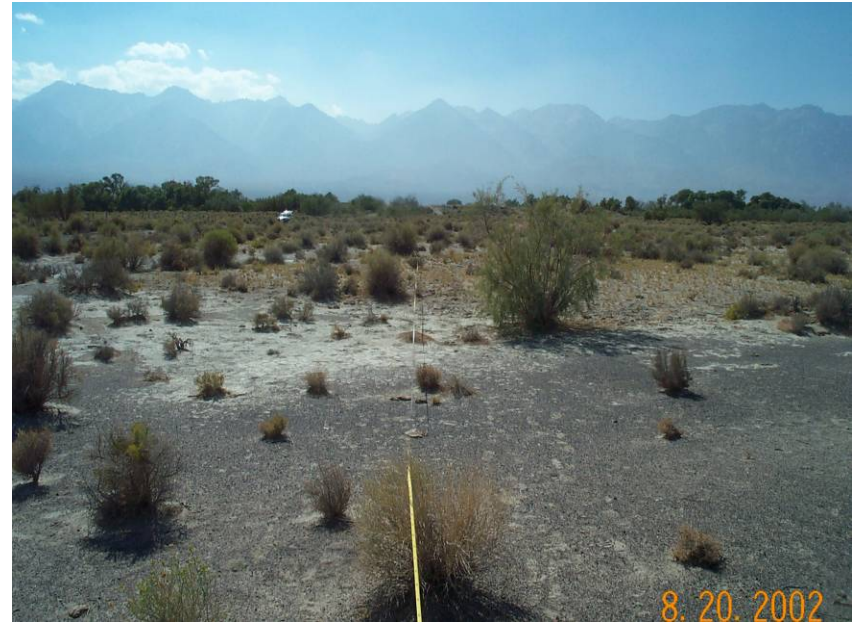
**Pasture**  
Reservation Field

**Ecological Site**  
Sandy Terrace

**Sampling Date**  
August 20, 2002



0 – 100 meters



100 - 0 meters

Photo not available



0 meters

51 meters



95 meters

**Transect**  
BLKROC\_49

**Pasture**  
Reservation Field

**Ecological Site**  
Sandy Terrace

**Sampling Date**  
June 3, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_49

**Pasture**  
Reservation Field

**Ecological Site**  
Sandy Terrace

**Sampling Date**  
July 12, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_49**

**Transect**  
BLKROC\_49

**Pasture**  
Reservation Field

**Ecological Site**  
Sandy Terrace

**Sampling Date**  
July 18, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
BLKROC\_49

**Pasture**  
Reservation Field

**Ecological Site**  
Sandy Terrace

**Sampling Date**  
July 29, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_49

**Pasture**  
Reservation Field

**Ecological Site**  
Sandy Terrace

**Sampling Date**  
July 27, 2010



0 – 100 meters



100 - 0 meters



0 meters

51 meters

99 meters

BLKROC\_51

**Transect**  
BLKROC\_51

**Pasture**  
Reservation Field

**Ecological Site**  
Sodic Fan

**Sampling Date**  
August 20, 2002



0 – 100 meters



100 - 0 meters



0 meters



51 meters



95 meters

**BLKROC\_51**

**Transect**  
BLKROC\_51

**Pasture**  
Reservation Field

**Ecological Site**  
Sodic Fan

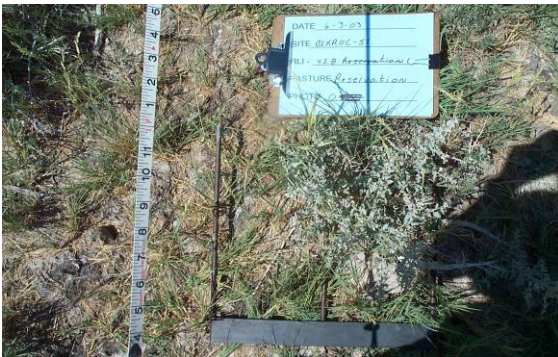
**Sampling Date**  
June 3, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
BLKROC\_51

**Pasture**  
Reservation Field

**Ecological Site**  
Sodic Fan

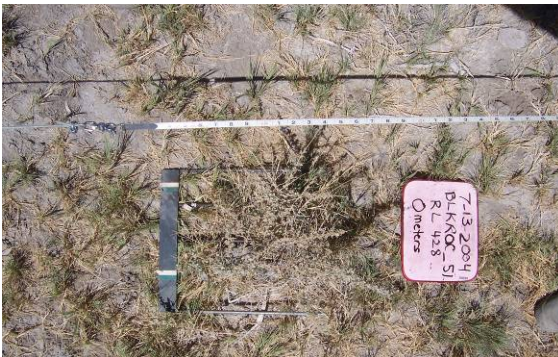
**Sampling Date**  
July 13, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_51**

**Transect**  
BLKROC\_51

**Pasture**  
Reservation Field

**Ecological Site**  
Sodic Fan

**Sampling Date**  
July 12, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_51**

**Transect**  
BLKROC\_51

**Pasture**  
Reservation Field

**Ecological Site**  
Sodic Fan

**Sampling Date**  
July 30, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**BLKROC\_51**

**Transect**  
BLKROC\_51

**Pasture**  
Reservation Field

**Ecological Site**  
Sodic Fan

**Sampling Date**  
July 27, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**LOWER OWENS RIVER PROJECT**

**Range Trend Monitoring Site Photos**

**Thibaut Lease (RLI – 430)**

**2002 – 2010**

<b>Transect</b> THIBAUT_01	<b>Pasture</b> Waterfowl Management Area	<b>Ecological Site</b> Saline Meadow	<b>Sampling Date</b> August 26, 2002
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0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**Transect**  
THIBAUT\_01

**Pasture**  
Waterfowl Management Area

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 11, 2003



0 – 100 meters



100 - 0 meters

Photo not available

0 meters

Photo not available

51 meters



99 meters

**Transect**  
THIBAUT\_01

**Pasture**  
Waterfowl Management Area

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 16, 2004



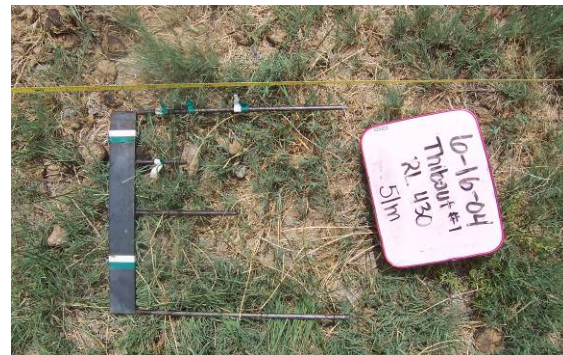
0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

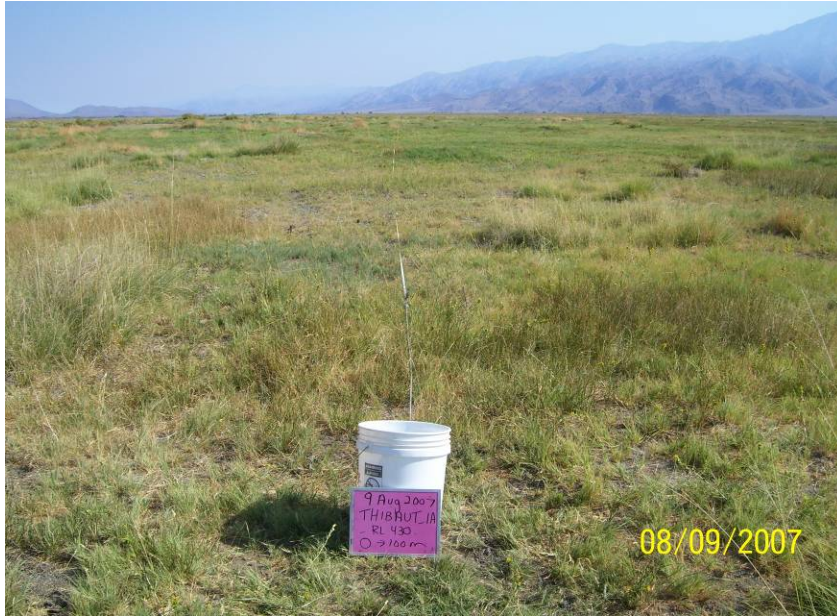
Transect rotated in 2008 and renamed THIBAUT\_1A.  
The previous end point was retained as the new start point.

**Transect**  
THIBAUT\_01A

**Pasture**  
Waterfowl Management Area

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 9, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**THIBAUT\_01A**

**Transect**  
THIBAUT\_01A

**Pasture**  
Waterfowl Management Area

**Ecological Site**  
Saline Meadow

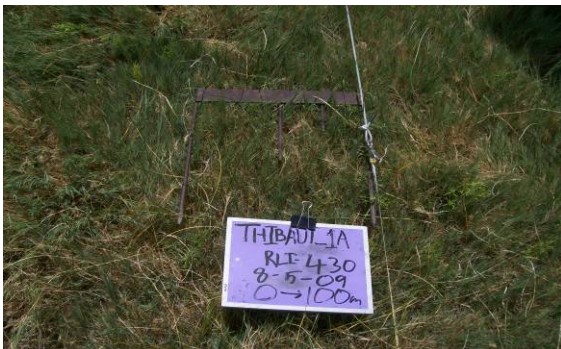
**Sampling Date**  
August 5, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters

Photo not available

99 meters

**THIBAUT\_01A**

**Transect**  
THIBAUT\_01A

**Pasture**  
Waterfowl Management Area

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 29, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

THIBAUT\_02



**Transect**  
THIBAUT\_02

**Pasture**  
Rare Plant Management Area

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 26, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



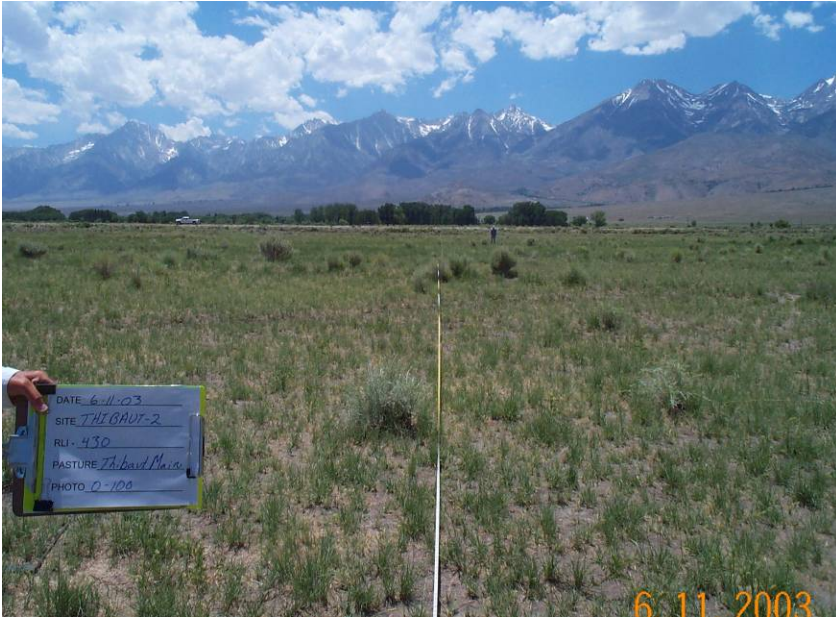
95 meters

**Transect**  
THIBAUT\_02

**Pasture**  
Rare Plant Management Area

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 11, 2003



0 – 100 meters



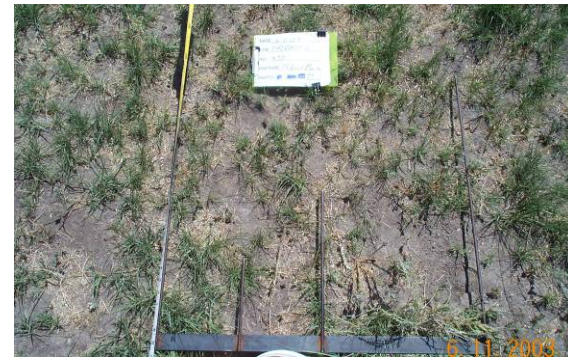
100 - 0 meters



0 meters



51 meters



99 meters

<b>Transect</b> THIBAUT_02	<b>Pasture</b> Rare Plant Management Area	<b>Ecological Site</b> Saline Meadow	<b>Sampling Date</b> July 14, 2004
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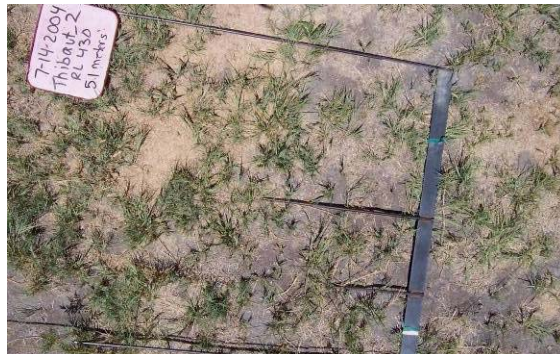
0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_02

**Pasture**  
Rare Plant Management Area

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 9, 2007



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_02

**Pasture**  
Rare Plant Management Area

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 5, 2009



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**THIBAUT\_02**

**Transect**  
THIBAULT\_02

**Pasture**  
Rare Plant Management Area

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 29, 2010



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**THIBAULT\_03**

<b>Transect</b> THIBAUT_03	<b>Pasture</b> Thibaut Field	<b>Ecological Site</b> Saline Meadow	<b>Sampling Date</b> August 26, 2002
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0 – 100 meters



100 - 0 meters



0 meters

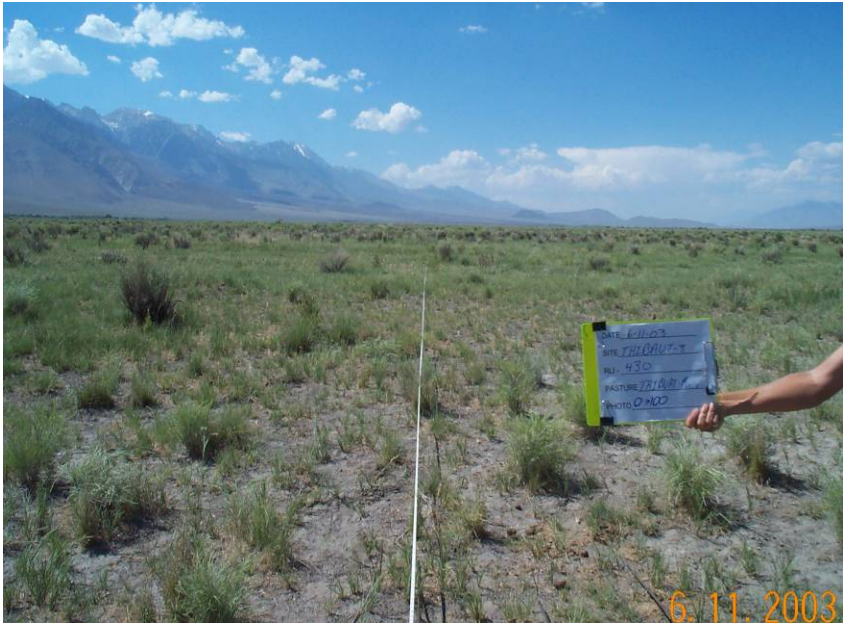


50 meters



95 meters

<b>Transect</b> THIBAUT_03	<b>Pasture</b> Thibaut Field	<b>Ecological Site</b> Saline Meadow	<b>Sampling Date</b> June 11, 2003
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0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters



**Transect**  
THIBAUT\_03

**Pasture**  
Thibaut Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 21, 2004



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**THIBAUT\_03**

**Transect**  
THIBAUT\_03

**Pasture**  
Thibaut Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 21, 2007



0 – 100 meters



100 - 0 meters



0 meters



51meters



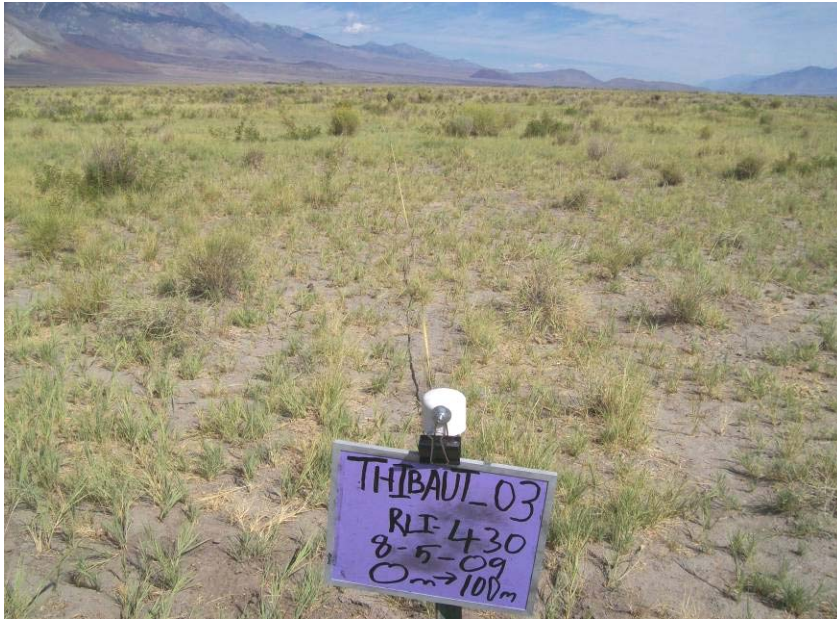
99 meters

**Transect**  
THIBAUT\_03

**Pasture**  
Thibaut Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 5, 2009



0 – 100 meters



100 - 0 meters



0 meters



51meters



99 meters

**THIBAUT\_03**

**Transect**  
THIBAUT\_03

**Pasture**  
Thibaut Field

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 29, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_04

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 24, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters

Photo not available

95 meters

**THIBAUT\_04**

**Transect**  
THIBAUT\_04

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 5, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**THIBAUT\_04**

**Transect**  
THIBAUT\_04

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 27, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_04

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 10, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
THIBAUT\_04

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 3, 2009

Photo not available



0 – 100 meters

100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_04

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 6, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**THIBAUT\_04**

**Transect**  
THIBAUT\_05

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 23, 2003



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**Transect**  
THIBAUT\_05

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 27, 2004



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**THIBAUT\_04**

**Transect**  
THIBAUT\_05

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 23, 2005



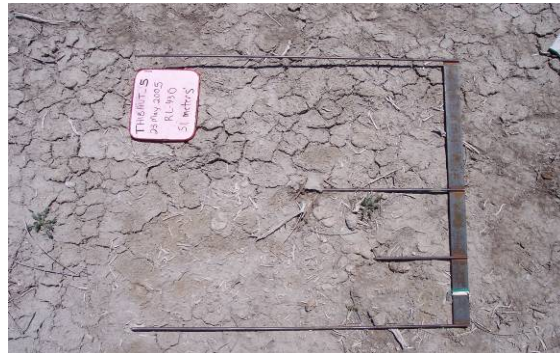
0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_05

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 6, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_05

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 3, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

THIBAUT\_05

**Transect**  
THIBAUT\_05

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 6, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**THIBAUT\_06**



**Transect**  
THIBAUT\_06

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 23, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_06

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 26, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_06

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 23, 2005



0 – 100 meters



100 - 0 m



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_06

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 11, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_06

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 3, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_06

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 5, 2010



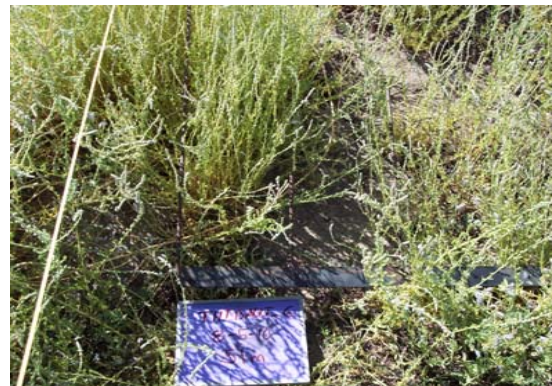
0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_07

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 23, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_07

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 26, 2004



0 – 100 meters



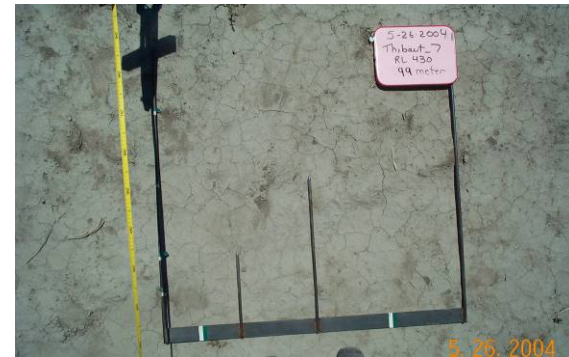
100 - 0 meters



0 meters



51 meters



99 meters

**THIBAUT\_07**



**Transect**  
THIBAUT\_07

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
May 23, 2005



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**THIBAUT\_07**

**Transect**  
THIBAUT\_07

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 11, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_07

**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 3, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**THIBAUT\_07**

**Transect**  
THIBAUT\_07

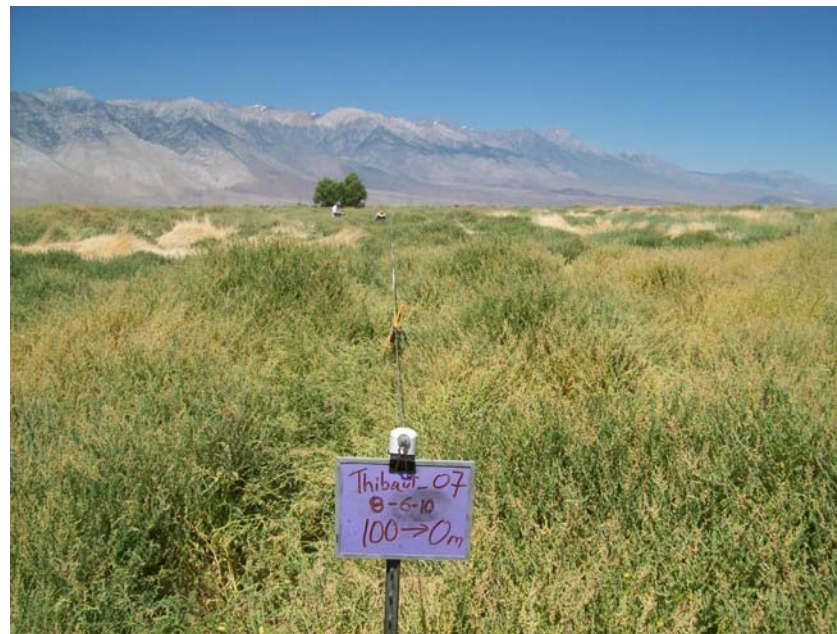
**Pasture**  
Thibaut Riparian Exclosure

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 6, 2010



0 – 100 meters



100 - 0 meters

Photo not available

0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_08

**Pasture**  
Thibaut Field

**Ecological Site**  
Saline Bottom

**Sampling Date**  
August 21, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**THIBAUT\_08**

**Transect**  
THIBAUT\_08

**Pasture**  
Thibaut Field

**Ecological Site**  
Saline Botom

**Sampling Date**  
July 30, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_08

**Pasture**  
Thibaut Field

**Ecological Site**  
Saline Botom

**Sampling Date**  
July 28, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
THIBAUT\_09

**Pasture**  
Thibaut Field

**Ecological Site**  
Saline Bottom

**Sampling Date**  
August 21, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
THIBAUT\_09

**Pasture**  
Thibaut Field

**Ecological Site**  
Saline Bottom

**Sampling Date**  
July 30, 2009

Photo not available



0 – 100 meters

100 - 0 meters



0 meters



51 meters



99 meters

**THIBAUT\_09**

**Transect**  
THIBAUT\_09

**Pasture**  
Thibaut Field

**Ecological Site**  
Saline Bottom

**Sampling Date**  
July 28, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LOWER OWENS RIVER PROJECT**

**Range Trend Monitoring Site Photos**

**Islands Lease (RLI-489)**

**2002 – 2010**

**Transect**  
ISLAND\_06

**Pasture**  
Carasco Riparian Field South

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 27, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**ISLAND\_06**

**Transect**  
ISLAND\_06

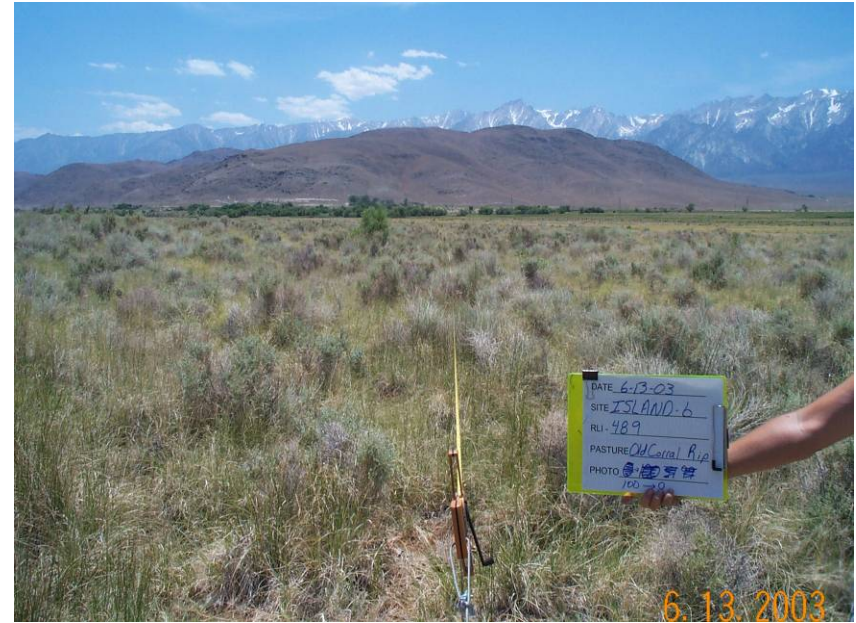
**Pasture**  
Carasco Riparian Field South

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 13, 2003



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**Transect**  
ISLAND\_06

**Pasture**  
Carasco Riparian Field South

**Ecological Site**  
Saline Meadow

**Sampling Date**  
June 14, 2004



0 – 100 meters

Photo not available

100 - 0 meters



0 meters



51 meters



99 meters

**ISLAND\_06**

**Transect**  
ISLAND\_06

**Pasture**  
Carasco Riparian Field South

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 25, 2008



Photo not available

0 – 100 meters

100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
ISLAND\_06

**Pasture**  
Carasco Riparian Field South

**Ecological Site**  
Saline Meadow

**Sampling Date**  
August 1, 2007



Photo not available

0 – 100 meters

100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
ISLAND\_06

**Pasture**  
Carasco Riparian Field South

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 27, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**ISLAND\_06**

**Transect**  
ISLAND\_06

**Pasture**  
Carasco Riparian Field South

**Ecological Site**  
Saline Meadow

**Sampling Date**  
July 22, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**ISLAND\_07**

**Transect**  
ISLAND\_07

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 29, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**ISLAND\_07**

**Transect**  
ISLAND\_07

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 13, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
ISLAND\_07

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 15, 2004



0 – 100 meters



100 - 0 m



0 meters



51 meters



99 meters

**ISLAND\_07**

**Transect**  
ISLAND\_07

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 3, 2007



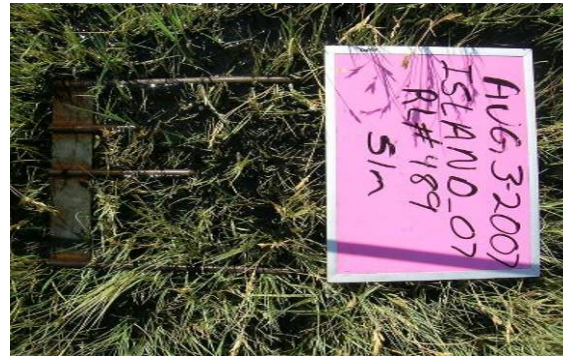
0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**ISLAND\_07**

**Transect**  
ISLAND\_07

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 26, 2008



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
ISLAND\_07

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 28, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
ISLAND\_07

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 22, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**ISLAND\_08**

**Transect**  
ISLAND\_08

**Pasture**  
Depot Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 28, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



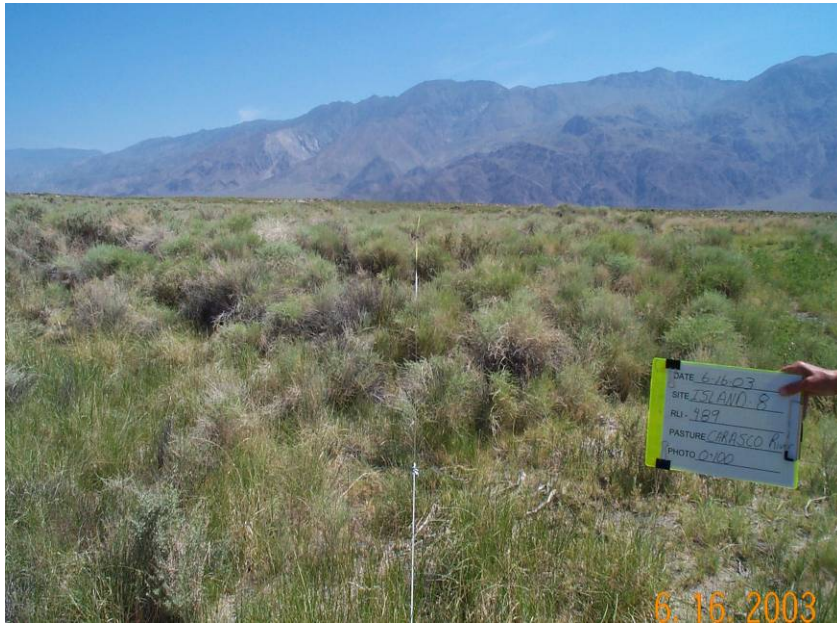
95 meters

**Transect**  
ISLAND\_08

**Pasture**  
Depot Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 16, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
ISLAND\_08

**Pasture**  
Depot Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 26, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**ISLAND\_08**

**Transect**  
ISLAND\_08

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 27, 2008



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
ISLAND\_08

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 27, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
ISLAND\_08

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 21, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**ISLAND\_09**

**Transect**  
ISLAND\_09

**Pasture**  
Depot Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 12, 2006



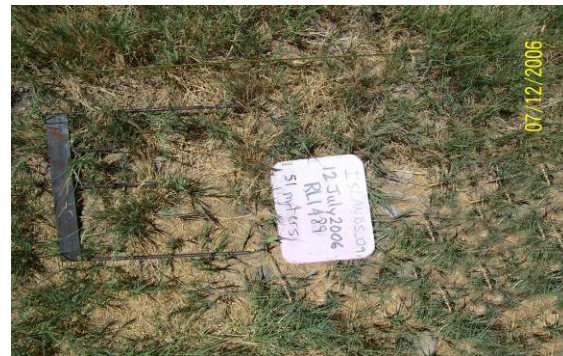
0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**ISLAND\_09**



**Transect**  
ISLAND\_09

**Pasture**  
Depot Riparian Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 31, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
ISLAND\_09

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 27, 2008



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
ISLAND\_09

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 24, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



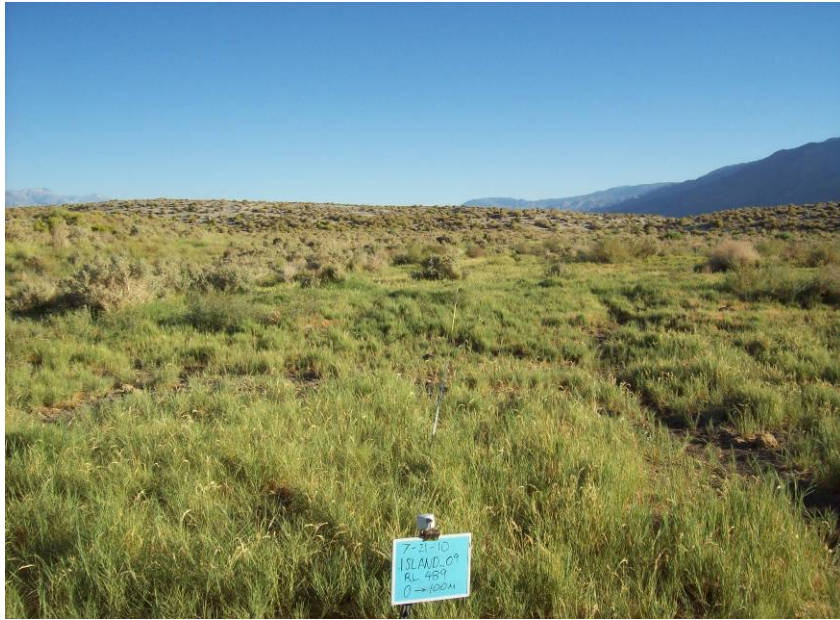
99 meters

**Transect**  
ISLAND\_09

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 21, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**ISLAND\_10**

**Transect**  
ISLAND\_10

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 13, 2006



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**ISLAND\_10**

**Transect**  
ISLAND\_10

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 26, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
ISLAND\_10

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 27, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
ISLAND\_10

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 21, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**ISLAND\_11**



**Transect**  
ISLAND\_11

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 13, 2006



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
ISLAND\_11

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 26, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

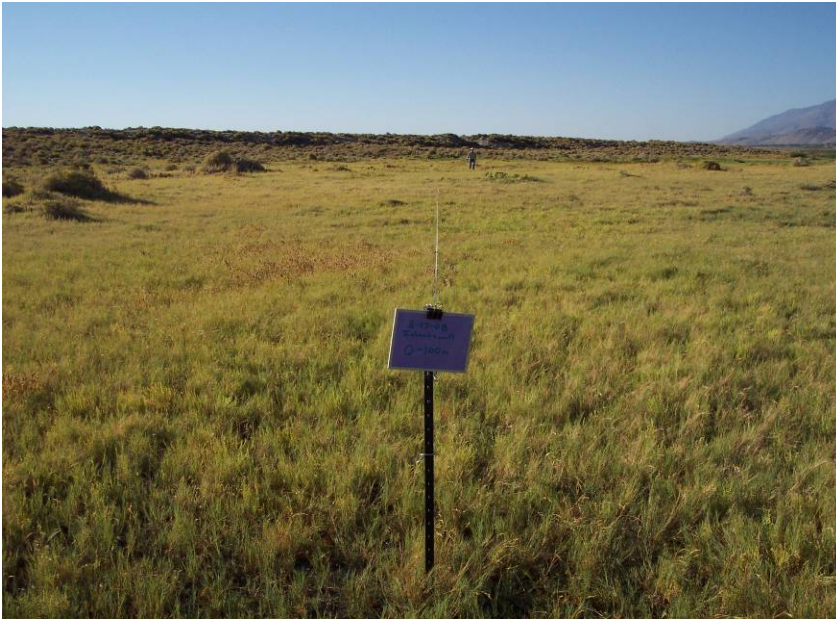
**ISLAND\_11**

**Transect**  
ISLAND\_11

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 27, 2008



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
ISLAND\_11

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 23, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
ISLAND\_11

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 21, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LOWER OWENS RIVER PROJECT**

**Range Trend Monitoring Site Photos**

**Lone Pine Lease (RLI - 456)**

**2002 – 2010**

**Transect**  
LONEPINE\_01

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 23, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**LONEPINE\_01**

**Transect**  
LONEPINE\_01

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 16, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LONEPINE\_01**



**Transect**  
LONEPINE\_01

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 7, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
LONEPINE\_01

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 31, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LONEPINE\_01**

**Transect**  
LONEPINE\_01

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 28, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LONEPINE\_01**

**Transect**  
LONEPINE\_01

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 20, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LONEPINE\_02**

**Transect**  
LONEPINE\_02

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 23, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**LONEPINE\_02**

**Transect**  
LONEPINE\_02

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 17, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LONEPINE\_02**

**Transect**  
LONEPINE\_02

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

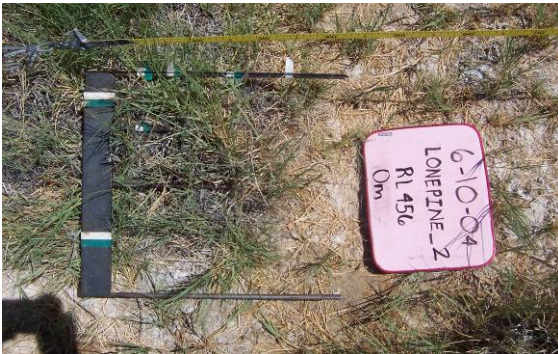
**Sampling Date**  
June 10, 2004



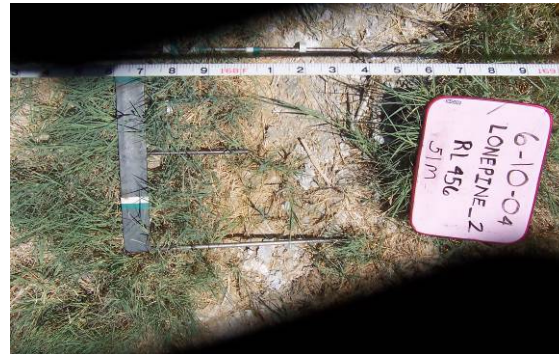
0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**LONEPINE\_02**

**Transect**  
LONEPINE\_02

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 1, 2007



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**LONEPINE\_02**



**Transect**  
LONEPINE\_02

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 28, 2009



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**LONEPINE\_02**

**Transect**  
LONEPINE\_02

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 20, 2010



0 – 100 meters



100 - 0 meter



0 meters



51 meters



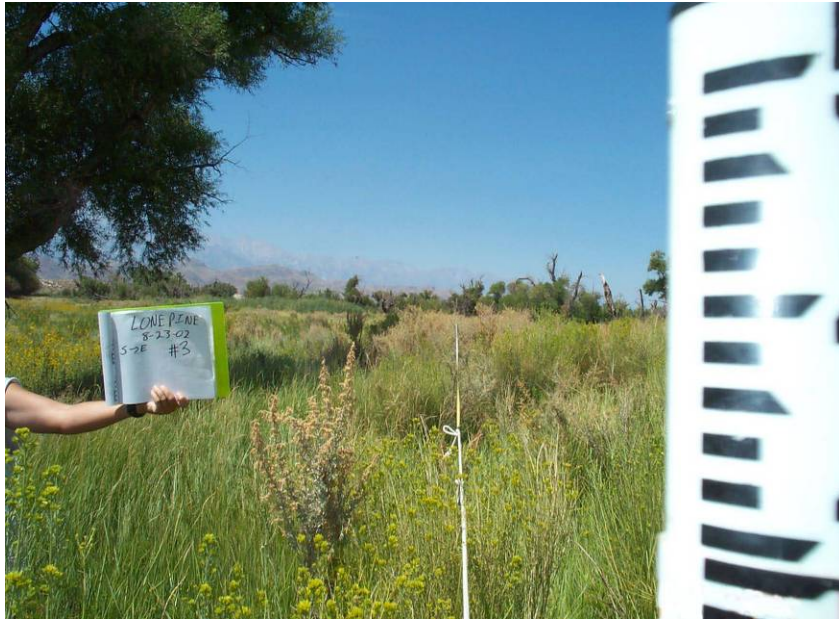
99 meters

**Transect**  
LONEPINE\_03

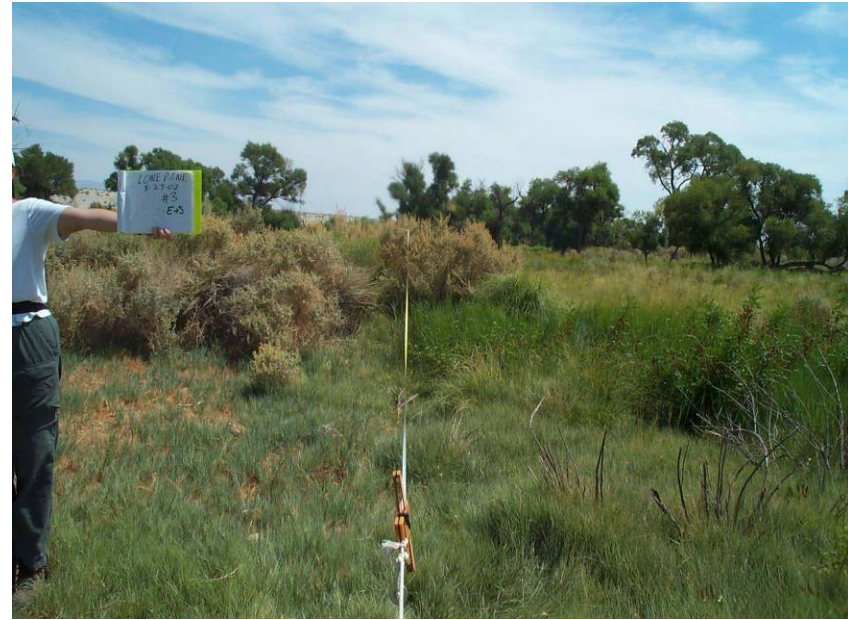
**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 23, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**Transect**  
LONEPINE\_03

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 17, 2003



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**Transect**  
LONEPINE\_03

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 9, 2004



0 – 100 meters



100 - 0 meter



0 meters

Photo Not Available

51 meters



99 meters

**LONEPINE\_03**

**Transect**  
LONEPINE\_03

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 1, 2007



0 – 100 meters



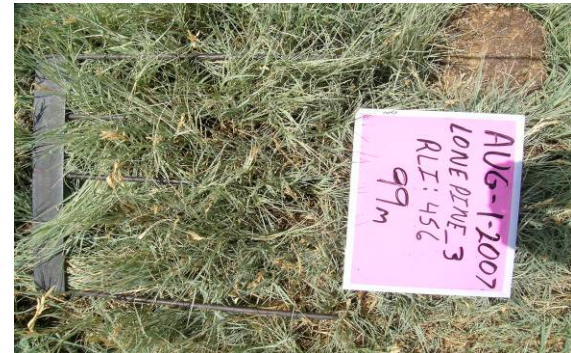
100 - 0 meters



0 meters



51meters



99 meters

**LONEPINE\_03**

**Transect**  
LONEPINE\_03

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 28, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
LONEPINE\_03

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 20, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
LONEPINE\_04

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 23, 2002



0 – 100 meters



100 - 0 meters

Photo Not Available

0 meters



50 meters



95 meters

**LONEPINE\_04**

**Transect**  
LONEPINE\_04

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 17, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LONEPINE\_04**

**Transect**  
LONEPINE\_04

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 10, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
LONEPINE\_04

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 1, 2007



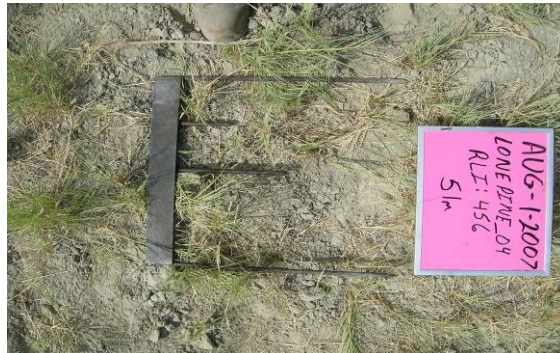
0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LONEPINE\_04**

<b>Transect</b> LONEPINE_04	<b>Pasture</b> River Field	<b>Ecological Site</b> Moist Floodplain	<b>Sampling Date</b> July 28, 2009
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0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
LONEPINE\_04

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 20, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
LONEPINE\_05

**Pasture**  
Johnson Pasture

**Ecological Site**  
Sodic Fan

**Sampling Date**  
August 23, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**Transect**  
LONEPINE\_05

**Pasture**  
Johnson Pasture

**Ecological Site**  
Sodic Fan

**Sampling Date**  
June 17, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters

Photo Not Available

99 meters

**LONEPINE\_05**



**Transect**  
LONEPINE\_05

**Pasture**  
Johnson Pasture

**Ecological Site**  
Sodic Fan

**Sampling Date**  
August 1, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LONEPINE\_05**

**Transect**  
LONEPINE\_05

**Pasture**  
Johnson Pasture

**Ecological Site**  
Sodic Fan

**Sampling Date**  
July 28, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
LONEPINE\_05

**Pasture**  
Johnson Pasture

**Ecological Site**  
Sodic Fan

**Sampling Date**  
July 20, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
LONEPINE\_06

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 19, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LONEPINE\_06**

**Transect**  
LONEPINE\_06

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 10, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
LONEPINE\_06

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 4, 2005



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LONEPINE\_06**

**Transect**  
LONEPINE\_06

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 30, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LONEPINE\_06**

**Transect**  
LONEPINE\_06

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 28, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
LONEPINE\_06

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 20, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LONEPINE\_07**

<b>Transect</b> LONEPINE_07	<b>Pasture</b> River Field	<b>Ecological Site</b> Moist Floodplain	<b>Sampling Date</b> August 7, 2007
--------------------------------	-------------------------------	--	--



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LONEPINE\_07**

**Transect**  
LONEPINE\_07

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 28, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
LONEPINE\_07

**Pasture**  
River Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 20, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**LONEPINE\_07**

# **LOWER OWENS RIVER PROJECT**

## **Range Trend Monitoring Site Photos**

### **Delta Lease (RLI-490)**

**2002 – 2010**

**Transect**  
DELTA\_01

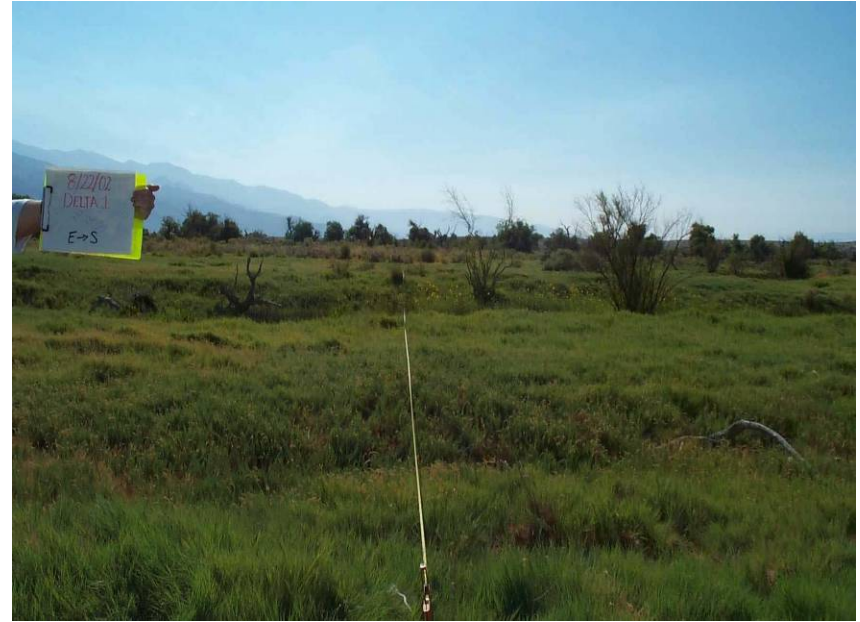
**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 22, 2002



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**DELTA\_01**

**Transect**  
DELTA\_01

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 16, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_01

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 3, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
DELTA\_01

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 17, 2007



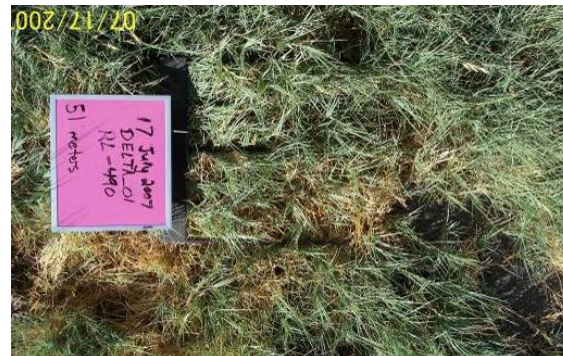
0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

<b>Transect</b> DELTA_01	<b>Pasture</b> Delta Field	<b>Ecological Site</b> Moist Floodplain	<b>Sampling Date</b> July 22, 2009
-----------------------------	-------------------------------	--	---------------------------------------



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_01

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 20, 2010



Note- Transect name corrected on photos.

0 – 100 meters

100 - 0 meters



0 meters



51 meters



99 meters

**DELTA\_02**

**Transect**  
DELTA\_02

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 22, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**Transect**  
DELTA\_02

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 18, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_02

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 9, 2004

Photo Not Available



0 – 100 meters

100 - 0 meter

Photo Not Available



0 meters

51 meters



99 meters

**DELTA\_02**

<b>Transect</b> DELTA_02	<b>Pasture</b> Delta Field	<b>Ecological Site</b> Moist Floodplain	<b>Sampling Date</b> July 24, 2007
-----------------------------	-------------------------------	--	---------------------------------------



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**Transect**  
DELTA\_02

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 20, 2010



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters



**Transect**  
DELTA\_03

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 22, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**Transect**  
DELTA\_03

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 18, 2003



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**Transect**  
DELTA\_03

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 8, 2004



0 – 100 meters



100 - 0 meter



0 meters



51 meters



99 meters

**DELTA\_03**

**Transect**  
DELTA\_03

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 24, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_03

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 23, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_03

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 19, 2010



Note- Transect name corrected on photos.

0 – 100 meters

100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_04

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 22, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**DELTA\_04**

**Transect**  
DELTA\_04

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 18, 2003



0 - 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
DELTA\_04

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

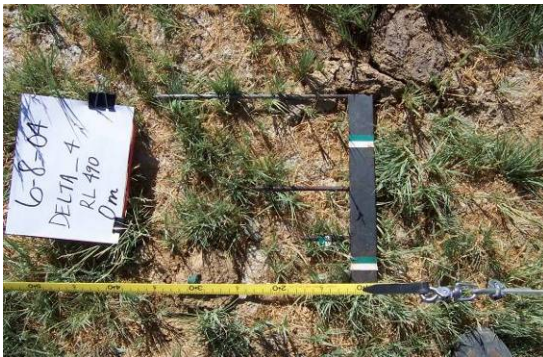
**Sampling Date**  
June 8, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**DELTA\_04**

**Transect**  
DELTA\_04

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 24, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**DELTA\_04**

**Transect**  
DELTA\_04

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 23, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**DELTA\_04**

**Transect**  
DELTA\_04

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 18, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_05

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 21, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**DELTA\_05**

**Transect**  
DELTA\_05

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 19, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_05

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 7, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**DELTA\_05**

**Transect**  
DELTA\_05

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 17, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
DELTA\_05

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 23, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_05

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 19, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_06

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 21, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**Transect**  
DELTA\_06

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 19, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**DELTA\_06**

**Transect**  
DELTA\_06

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 4, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_06

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 23, 2007



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

<b>Transect</b> DELTA_06	<b>Pasture</b> Delta Field	<b>Ecological Site</b> Moist Floodplain	<b>Sampling Date</b> July 24, 2009
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0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_06

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 19, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
DELTA\_07

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
August 21, 2002



0 – 100 meters



100 - 0 meters



0 meters



50 meters



95 meters

**Transect**  
DELTA\_07

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 18, 2003



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**DELTA\_07**

**Transect**  
DELTA\_07

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
June 7, 2004



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

<b>Transect</b> DELTA_07	<b>Pasture</b> Delta Field	<b>Ecological Site</b> Moist Floodplain	<b>Sampling Date</b> July 25, 2007
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0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_07

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 23, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_07

**Pasture**  
Delta Field

**Ecological Site**  
Moist Floodplain

**Sampling Date**  
July 19, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_08

**Pasture**  
Delta Field

**Ecological Site**

**Sampling Date**  
July 22, 2009



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_08

**Pasture**  
Delta Field

**Ecological Site**

**Sampling Date**  
July 21, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters



**Transect**  
DELTA\_09

**Pasture**  
Delta Field

**Ecological Site**

**Sampling Date**  
July 22, 2009



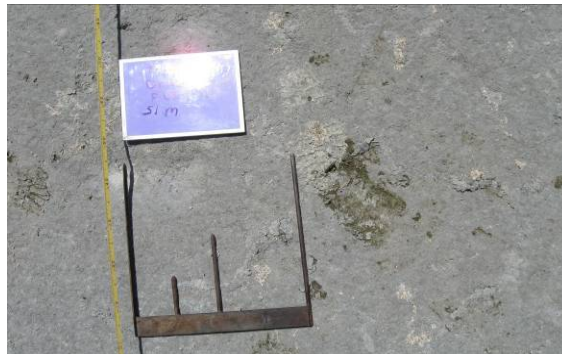
0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Transect**  
DELTA\_09

**Pasture**  
Delta Field

**Ecological Site**

**Sampling Date**  
July 21, 2010



0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

<b>Transect</b> DELTA_10	<b>Pasture</b> Delta Field	<b>Ecological Site</b>	<b>Sampling Date</b> July 23, 2009
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0 – 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**DELTA\_10**

**Transect**  
DELTA\_10

**Pasture**  
Delta Field

**Ecological Site**

**Sampling Date**  
July 21, 2010



0 - 100 meters



100 - 0 meters



0 meters



51 meters



99 meters

**Land Management Appendix 4**

**Streamside Monitoring Protocol for Woody Species and Other Riparian  
Conditions within the LORP**

## Summary

This document outlines a methodology designed to provide managers with measurable long-term trend monitoring of riparian vegetation, woody species and other conditions on stream banks. A multi-disciplinary team including LADWP staff, the MOU Consultants and respective lessees will select Designated Monitoring Areas (DMAs) at which belt transects will be established. Transects will measure vegetation composition and woody species condition at 40 plots along each transect. This protocol will be able to measure trends through time for stream side habitat in the LORP.

## Purpose

Monitoring riparian conditions, especially woody species development, is essential to determining progress toward LORP goals within riparian areas. Existing vegetation monitoring transects are primarily located away from stream banks. As a consequence, the MOU Parties and the MOU Consultants made an adaptive management recommendation in 2009 to include additional monitoring along stream banks within the LORP to pick up information on woody recruitment that was otherwise being missed. Additional information on riparian development near the river's edge will aid in evaluating the effectiveness of LORP management strategies.

## Goal

Provide managers with measurable long-term trend monitoring of riparian conditions including woody species regeneration on stream banks within the LORP.

Objectives:

Within each riparian pasture, measure and track trends through time for:

- 1) Vegetation community composition and changes
- 2) Bank Condition
- 3) Woody Species recruitment and changes over time

## Approach

A multi-disciplinary team including LADWP, Lessees, and the MOU Consultants will select up to two designated monitoring areas (DMAs) on each side of the river within each riparian pasture. Every riparian pasture will have at least one DMA on each side of the river. Proper site selection is critical to the success of this protocol. Reference DMAs may be selected within exclosures or other control areas. Monitoring procedures are compatible with accepted methods tested over time by agencies (BLM and Forest Service) for long-term monitoring. The effort encompasses only key habitat development indicators, as other monitoring efforts in the LORP will supply managers with the important indicators of range condition and riparian development (e.g. stubble height, in-stream substrate and geometry, riparian and wetland development). The approach uses 3 meter wide belt transects extending from the summer base flow water's edge into the riparian area.

## Selecting Designated Monitoring Areas (DMAs)

A designated monitoring area (DMA) is the location, or stream reach, where monitoring occurs. These are where the transects will be located. Essentially, there are two types of DMAs:

**1. Representative DMA:** A reach chosen to be representative of a larger area. Representative DMAs should be located within an identified riparian complex. Riparian complexes are defined by Winward (2000) as "a unit of land with a unique set of biotic and abiotic factors. Complexes are identified on the basis of their overall geomorphology, substrate characteristics, stream gradient and associated water flow features, and general vegetation patterns." Representative DMAs should be located in areas representative of the riparian area being assessed. Winward (2000) suggests that

monitoring should be located at sites within the complex that “best represent influences of major activities in that complex.” Generally, more than one riparian complex occurs in a management unit; therefore, the DMA should be placed in the riparian complex that is the most sensitive to management influences. The premise is that if the DMA is placed in the most sensitive complex, and that complex is being monitored and managed to achieve desired conditions, the other less sensitive complexes will also be managed appropriately. However, it is inappropriate to place Representative DMAs in water gaps or other specific concentration zones.

The following criteria should be used to select Representative DMAs:

- Representative DMAs should only be selected by an interdisciplinary team of qualified personnel with a good understanding of stream functions and riparian ecology and a detailed knowledge of the area.
- Representative DMAs should occur within riparian complexes that best characterize major influences in that complex.
- Where multiple riparian complexes occur in a management unit and it is not possible to establish DMAs in all complexes, select the one that is most sensitive to management influences.
- Representative DMAs should be placed in areas where it is clear that the achievement of established resource objectives can be monitored and measured. The site should have the potential to respond to and demonstrate measurable trends in condition resulting from changes in those management activities influencing stream channels and riparian vegetation (e.g., stream flows, plant competition, limited grazing, invasive species, and channel changes).
- Do not place representative DMAs near bridges, culverts, tributary confluences, at water gaps or locations intended for livestock concentration, or areas where riparian vegetation and stream bank impacts are the result of site-specific conditions (such as flow measurement stations, along fences where use is not *representative* of the riparian area).

**3. Reference DMA:** A reach chosen to obtain reference data useful for identifying potential condition, and for establishing initial desired condition objectives for a similar riparian complex. A common example is an enclosure or other areas where land and water uses are minimal.

### **Establishing the Belt Transect**

After the DMA is selected, a line transect is established on each side of the stream. The line transect at the DMA extends at least 110 meters (361 feet) along the stream. Longer reaches may be needed in areas with extreme variability or site complexity. Mark the upstream and downstream limits of the transect with a GPS unit and record the projection system and UTM coordinates.

### **Skills, Training, Collection Time, and Equipment**

#### **Skills**

Individuals must have a basic understanding of riparian ecology and stream function. This requires knowledge of riparian species identification and basic gps operation.

#### **Collection Time**

Sample time is estimated at approximately 1-2 hours per site. There will be up to four sites (transects) per selected area.

## Equipment

Handheld GPS Units, digital camera, PVC quadrat frame (0.5 m x 1.5 m doubled to create a 0.5 m x 3 m survey area), dry erase board and marker, data sheets, pencil, clipboard.

## Monitoring Procedures

### Timing

These procedures were designed to be completed mid-to late summer or early fall. Monitoring data will be gathered the first three years of this protocol, and then spaced out to three year intervals. The first three years of monitoring are designed to establish initial conditions and determine initial ecological response to natural and induced influences. Following this initial period, the three year interval between sampling allows vegetation and stream banks time to respond. In some cases, the period may be extended because of slower recovery rates.

### Systematic Procedure

1. Upon locating the preestablished GPS points for representative and reference DMAs in the field, photographs will be taken before data is collected. Four photos will be taken at each of three locations along the transect (beginning, middle, and end at quadrats 0, 20, and 40, respectively). There will be an upriver shot (UP on dry erase board), downriver (DWN), towards opposite bank across river (H2O), and towards bank (BNK) capturing vegetation along the streambank. Photo Boards shall be labeled with transect name, date, transect location, and photo direction (i.e., Delta\_Belt1a, 9/17/10, MID-UP). At a minimum there will be 12 photos for each side of the riverbank. Take additional photographs as needed to document specific site conditions or to demonstrate trends across sites (i.e., wildlife use, vegetation communities, etc.).
2. Monitoring should begin at the downstream end of the transect and work upstream. When establishing the transect, take a GPS point 3m away from waters edge at downstream marker and 3m away from waters edge at upstream marker on both sides of the river. These four points will be used to draw a polygon and analyze the macroplot using repeat aerial imagery.
3. Determine a random number between 1 and 10; begin the transect that number of meters along the stream bank to the first plot location. Place the monitoring frame down with the 50 cm edge along the stream bank with the 3m sides of the quadrat perpendicular to the stream channel. Continue the procedure at predetermined intervals so that 40 plots are read within each transect. In some cases, this may need to be shortened to capture the entire transect within exclosures. If this is the case, shorten the distance between plots so that 40 sampling points are recorded. Additional plots may be required in large and heavily variable sites.
4. Once the first plot has been located five site attributes will be estimated:
  - a) bank condition
  - b) vegetation/ground cover composition
  - c) woody species regeneration
  - d) canopy over hang
  - e) woody species use



### Bank Condition

Conduct an ocular evaluation of bank condition along the bank within the quadrat and give a dot tally using one of the following categories:

- a) Barren
- b) Vegetated
- c) Broken/Actively Eroding
- d) Root Stabilized
- e) Litter

The total number of sample points for bank condition should equal 40.

### Point Intercept for Ground Cover

In addition, five point intercepts along each 0.5 meter edge (12.5 cm apart) were recorded for ground cover. Ground cover attributes were recorded as vegetation by species, litter, wood (>1cm), dung, fine/silty soil, sandy soil, gravelly soil, cobble, or water. The total number of sample points for ground cover should equal 200.

### Woody Species Condition

Woody species condition is modified from Winward (2000). The original procedure developed by Winward is a six-foot wide by 110-meter belt transect with the center of the six-foot belt over the greenline. Within each 0.5 meter by 3 m meter plot woody plants will be counted by species and age classed.

Identify the plant by species as possible; count the number of plants rooted in the plot, and determine the age class (according to Table 1 below) of each woody plant within the plot.

1. The woody species regeneration plot is the same 0.5 meter wide by 3 meter survey plot used for point intercept data collection.
2. Place the 0.5 m end of the monitoring frame (quadrat) on and perpendicular to the summer baseflow water's edge, and count the number of woody plants by species **rooted** within the monitoring frame. If one stem at ground level is within the plot and several other stems are immediately outside the plot, determine if the stem within the plot is actually connected to those outside the plot. If it is, record the age of the entire plant to which the stem is connected. Generally, stems at ground level within 1 foot of each other are considered the same plant. If it is not connected, consider the stem as an individual plant and record the age class appropriately. Record by species and age class. (Do not count woody species canopy cover as woody species.) Tables 1 and 2 provide descriptions of woody species age classes. It is difficult to age class rhizomatous species such as coyote willow (*S. exigua*) and wild rose (*Rosa* spp.). Their use as an indicator must be viewed in this context.

### Canopy Overhang

Identify any woody species which intersect the vertical projection of the quadrat which are not rooted in the quadrat, assign an age class to each individual plant.

### Woody Species Use

Describe any use of woody species located within the vertical projection of the quadrat (this will include both rooted and overhanging plants).

Categories of use are:

- f) Browsing (must be during this growing season)
- g) High lining
- h) Antler rubs

**Table 1.** Woody Species Age Classes for Multiple Stem Species Includes clumped willow (*Salix* spp.) species and shrubby forms of mountain alder (*Alnus incana*), and water birch (*Betula occidentalis*).

Number of Stems at the Ground Surface	Age Class
1 stem	Seedling
2 to 10 stems	Young
>10 stems	Mature
0 stems alive	Dead

**Table 2.** Woody Species Age Class for Single Stemmed Species. Single stemmed species include cottonwoods and tree willows.

Age Class	Cottonwood	Other Broadleaf Species
Seedling	Stem is < 4.5 ft. tall or < 1 in. diameter at breast height (dbh)	Stem is < 3ft. Tall and less than 1 in. in diameter at the base
Young	Stem is ≥ 4.5 ft. tall and 1 to <5 in. dbh, or stem is < 4.5 ft. tall and 1 to < 5 in. dbh	Stem is ≥ 3 ft. tall and < 3 in. dbh
Mature	≥ 5 in. dbh	Stem is ≥ 6 ft. tall and ≥ 3 in. dbh, or <6 ft. tall and ≥ 3 in. dbh, or <3 ft. tall with multiple branching (hedged) near the top of the stem
Decadent	> 50 percent of the canopy is dead	
Dead		

*Adapted from (Thompson et al. 1998)*

<b>2010 LORP Streamside Monitoring</b>		Site Name:		Lease:						
Transect										
Start:										
Photos: Q1 <input type="checkbox"/> Q20 <input type="checkbox"/> Q40 <input type="checkbox"/>		Personnel:		Date:						
<b>Bank Condition</b>		<b>(Summary of 0.5 meter band- total 40)</b>			<b>Notes</b>					
Barren										
Broken/Actively Eroding										
Vegetated										
Root Stabilized Bank										
Litter										
<b>Ground Cover</b>		<b>(Point Intercept - total 200)</b>								
Species										
Litter										
Wood (>1 cm)										
Dung										
Soil	Fine									
	Sandy									
	Gravelly									
Cobble										
<b>Woody Species Condition</b>							<b>Woody Species Use (x)</b>			
	Species	Seedling	Juvenile	Mature	Decadent	Dead	Browsing	High Lining	Antler Rubs	Other (Describe)
Rooted										
Canopy										

