



desert conservation
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respect, protect and enjoy our desert!

Adaptive Management Program

Clark County – 574

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AMP Tasks

- Objective, Science-based Advice
- Land Use Trends
- Habitat Loss by Ecosystem
- Species and Ecosystem Status
- Implementation Effectiveness



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- Objective, Science-based Advice

- Several products of MSHCP (and of AMP) were peer reviewed

- 2008 & 2009 Symposia



Other Scientists

- 2006 Competitive selection for Science Advisor



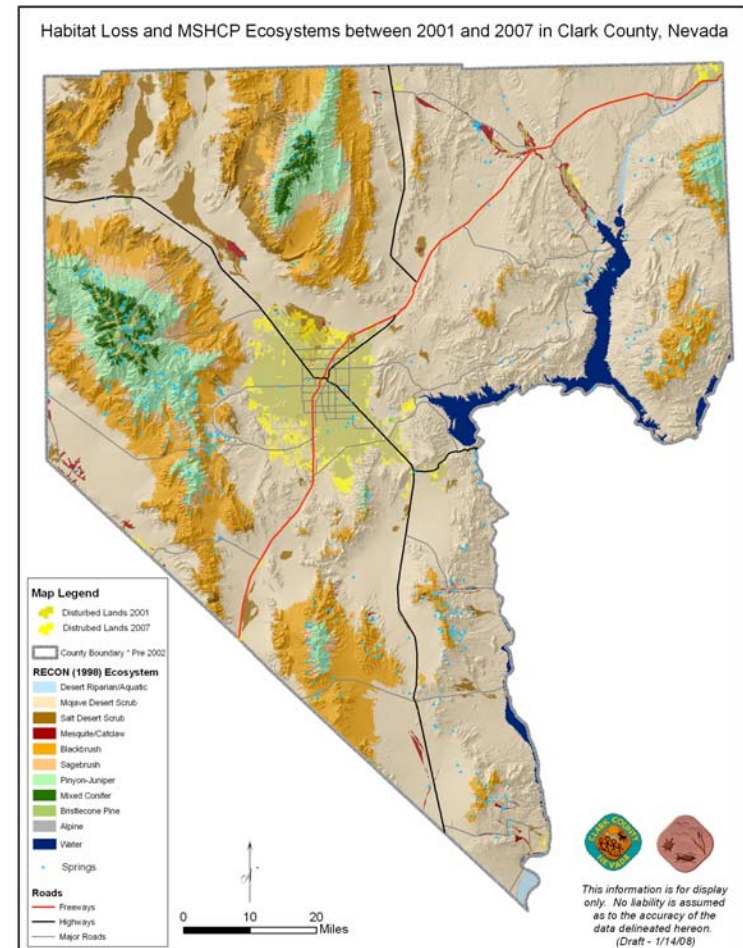
2007-2009 MSHCP Science Advisor, contract completed



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Outcomes of 2007-2009 DRI Science Advisor project

- Land Use Trends & Habitat Loss by Ecosystem
 - With review, advice and guidance of DRI, DCP staff created new analyses 2007 & 2008
 - Results used as criteria for 2009-2011 funding recommendations





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Outcomes of 2007-2009 DRI
Science Advisor project

- Species and Ecosystem Status
 - DRI hosted inter-agency workshop (2008) to address conceptual models of “ecosystem health” for MSHCP’s 11 ecosystems, report on website
 - DRI created a species status tracking database, entered data for 12 species and updated data for 10 of those in June 2009



Captures list of available data and description of methods

Captures reported or calculated summary statistics from each dataset as appropriate

Microsoft Access

File Edit View Insert Format Records Tools Window Help Adobe PDF

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Species Tracking

Species: Gopherus agassizii Population Name: Year: Method

Sample Data:

Sample Date: 1990 1992 1993 1994 1995 1995-03 Sample Methods: 14 1km-square plot survey Compliance survey Incidental sighting Line distance sampling Radio telemetry Telemetry Sample Years: 1990 1992 1993 1994 1995 1996 Surveyor

Species Data Environmental Data

Population Sample Data Files: Population Sample Data Method Files:

NPS_NRPP_triangle_tortoise NPS_SNWA_tortoise observed_centroids_2006_11_20 USFWS_nem_observations_01 USFWS_nem_observations_02 USFWS_nem_observations_03

NPS_NRPP_triangle_tortoise NPS_SNWA_tortoise observed_centroids_2006_11_20 rangewide_monitoring_report_20061024.pdf rangewide_monitoring_report_20061024.pdf rangewide_monitoring_report_20061024.pdf

Generate Report Abundance Estimates Summary

Summary Population Data: Population Name: Sample Year: Enter Sample Year

Est. Abundance: Area of Occupied Habitat (m2): Mean Density: No. Breeding Pairs

Est. Area of Occupied Habitat: Est. Population Size: Standard Error Density: No. Active Nests:

Est. Area of Breeding Habitat: Est. Population Size Standard Error: Median Density: No. Fledglings:

PDF Sketch of Occupied Habitat: Shapefile of Occupied Habitat Perimeter: No. Site/Observations:

Form View NUM



- Implementation Effectiveness
 - DRI designed new implementation database

Imported key data
from prior database

focused on
project
outcomes

Data entry form

Contract Information:
Project Name: Legal representation of special interest groups and rural communities
Project Number: 1999-BF-1-A
Agency: BUREAU OF LAND MANAGEMENT
Start Date: End Date:
Biennium Approval:

Project Status:
 Active
 Amended
 Completed
Proposal Number:
Amount Funded: \$0.00

Species Information:
Choose Species Name
 Common Name Scientific Name
Major Taxon:
MSHCP Status:
Species:

Threat Information:
Threat Type:
Threat Number: 0
Threat Description:

Conservation Action:
Conservation Action Category:
Conservation Action Number:
Conservation Action Description:

Ecosystems Information:
Ecosystem:

Keywords:
Keyword_id:
Add Image

Record: 1 of 1



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Outcomes of 2007-2009 DRI
Science Advisor project

- Implementation Effectiveness
 - DRI hosted an interagency workshop to address goals for Programmatic (Overall) MSHCP Effectiveness Monitoring
 - Several programs presented as examples, shared lessons learned (Coachella, Chesapeake Bay)
 - More specific, measurable objectives for program are needed, current MSHCP program goal (no net unmitigated loss) is too vague to design monitoring.
 - Project-specific effectiveness monitoring efforts reviewed. More specificity in project objectives and monitoring design recommended.

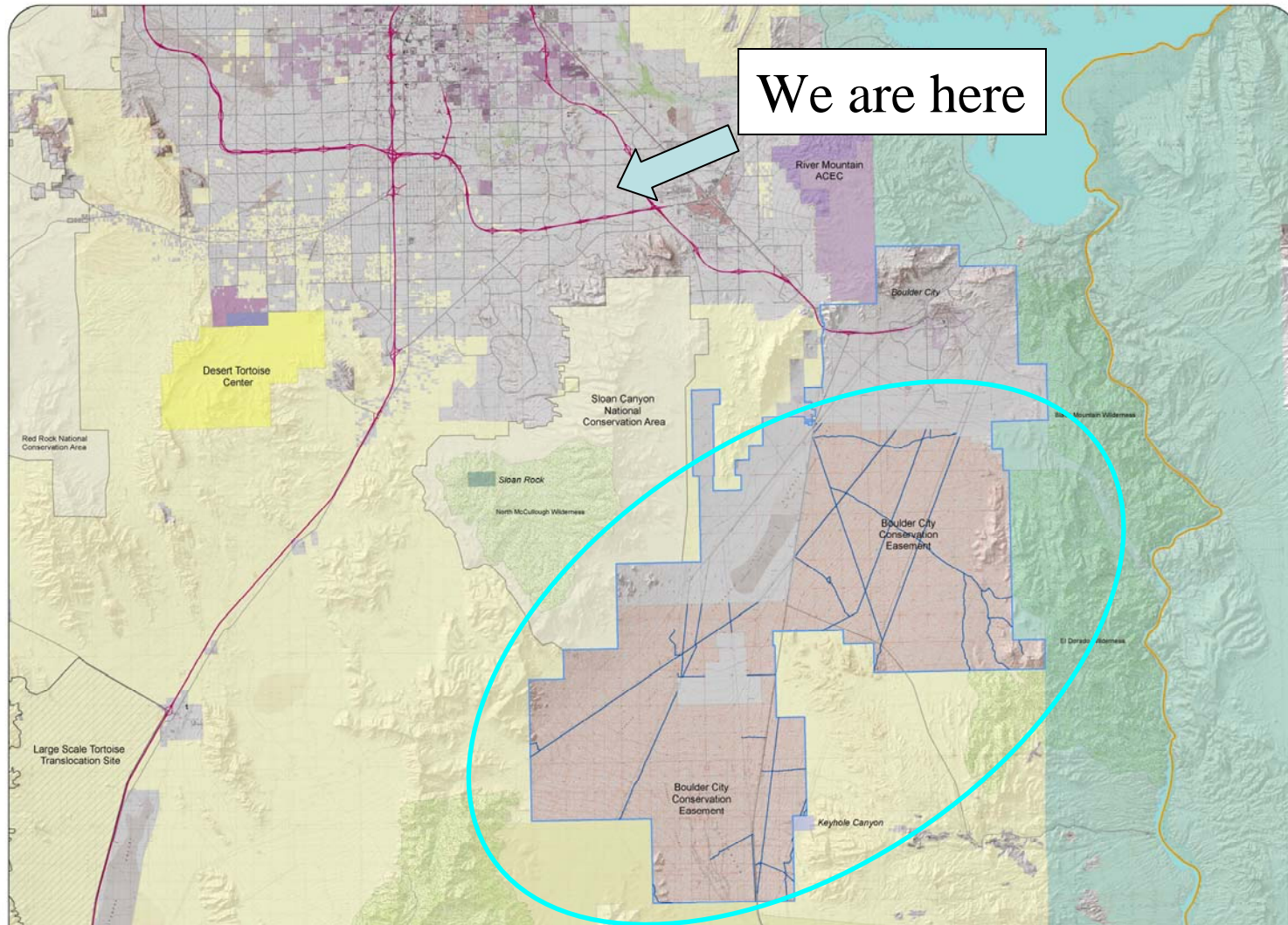


- Other duties and responsibilities
 - In the MSHCP Section 10 permit (Condition P.), AMP is to maintain N-S connectivity within the Boulder City Conservation Easement.
 - A proposal was made in 2008 by Boulder City to amend the boundaries of the Energy Zone (1:1 acreage swap)
 - Similar to swaps proposed in 2001 to enlarge the habitat corridor to the W of Hwy 95



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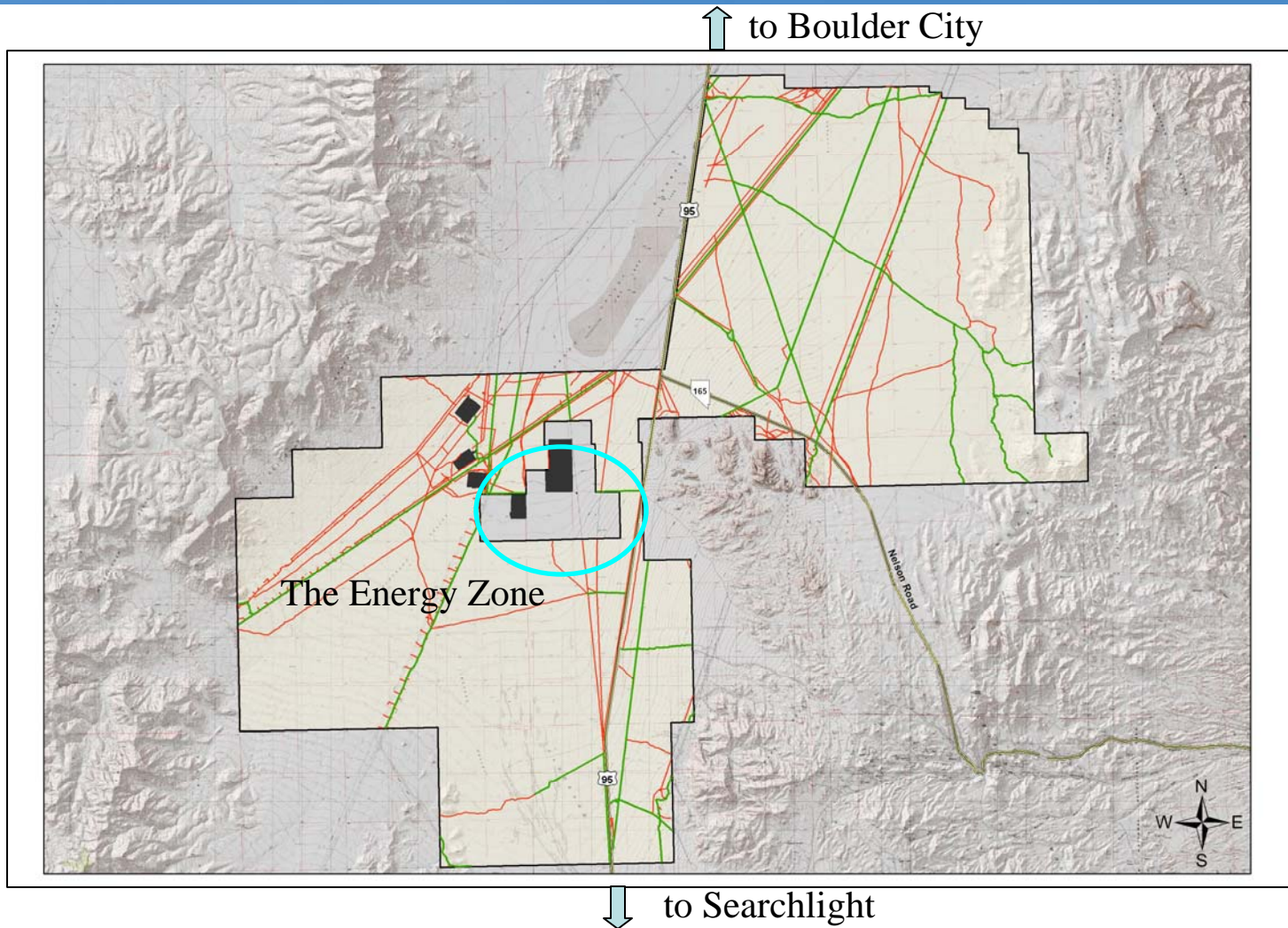
BCCE boundary change assessment





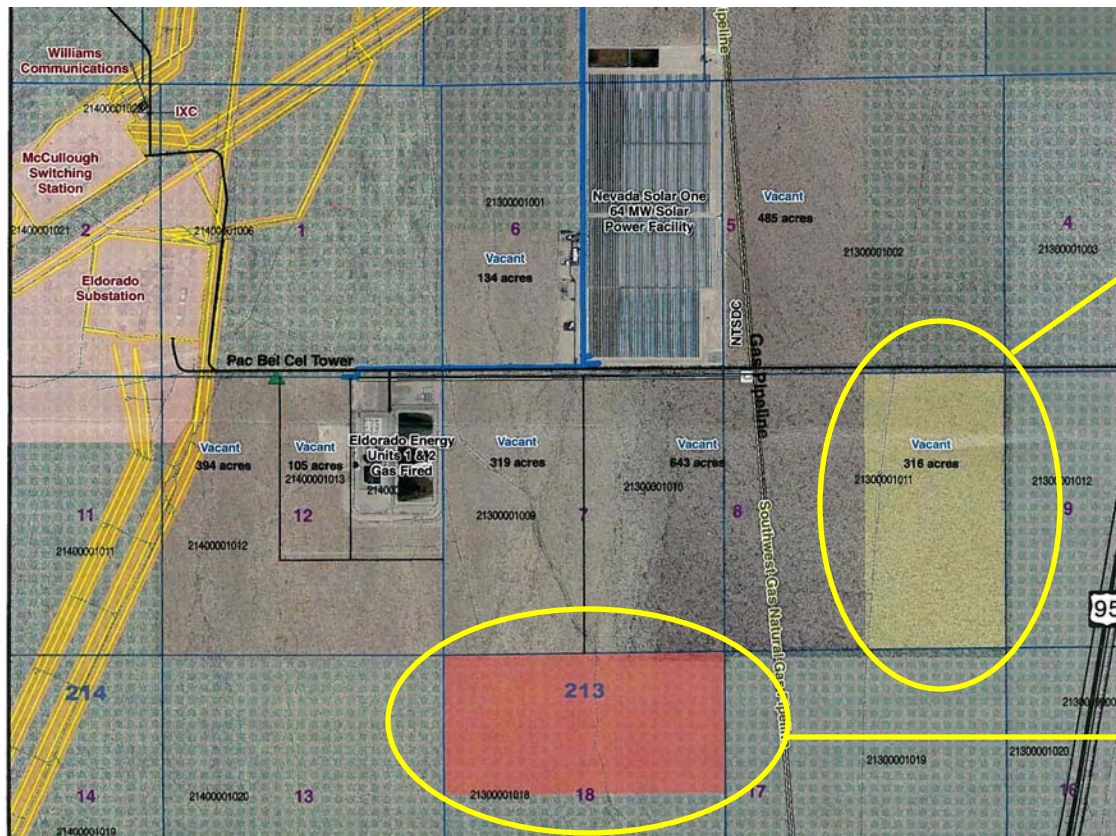
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BCCE boundary change assessment





2008 Proposed BCCE and Energy Zone boundary change



Area
proposed for
addition to
easement

Area
proposed for
removal from
easement



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BCCE boundary change assessment

- No clear guidance in literature or among experts re: what width would be too narrow
 - Criterion: if area to be added to BCCE is better or equivalent, move forward with change (all things equal, wider is better)
- No data on habitat quality/tortoise density of two areas
 - Knight and Leavitt Associates selected to perform 100% survey for tortoise and tortoise sign, habitat characteristics
 - Surveys performed in July, but within 2 week period for better comparison
 - Area proposed for addition to BCCE “low” and area proposed for removal “medium”
 - Decision made not to swap



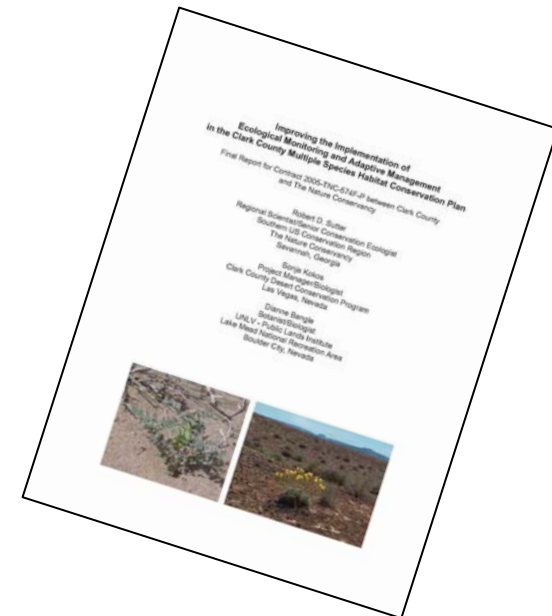
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- Other duties and responsibilities
 - Addressing technical conditions for funding of 2005-2007 approved projects
 - Review of Scopes of Work prior to award
 - Deliverable reviews
 - Workshops to review bird and low elevation plant monitoring methods
 - USGS provided experts for November 2008 bird monitoring workshop



- Other duties and responsibilities
 - Addressing technical conditions for funding of 2005-2007 approved projects
 - The Nature Conservancy led workshops in 2007 and 2008 to review and evaluate low elevation rare plant monitoring





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- Other duties and responsibilities
 - Data! – Lee Bice, Sr. GIS Specialist,
Desert Conservation Program

Reports can be found on:
www.accessclarkcounty.com