

"Ecological Assets Have Redefined Rural Land Values"



Appraisal Institute

Northern California Chapter

South San Francisco, CA

September, 2019

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Calvin and HobbEs HWEESH





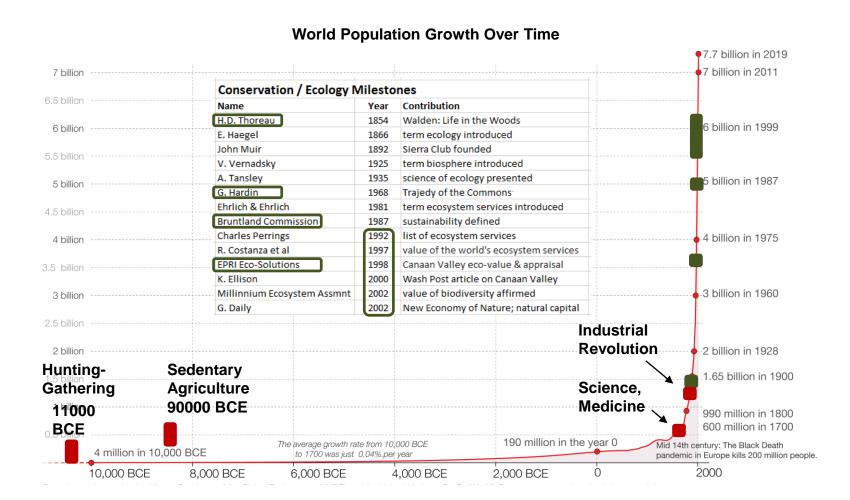




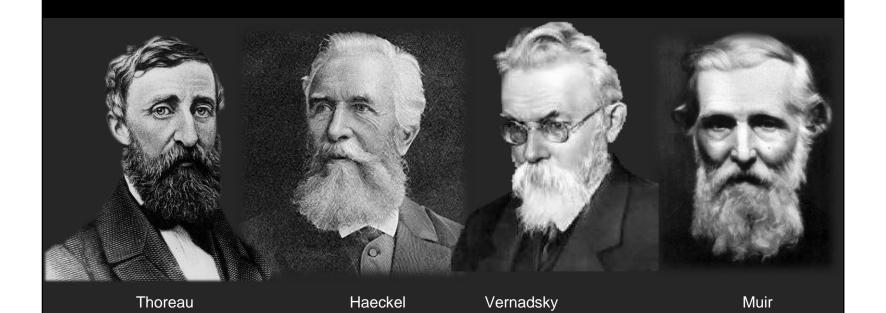


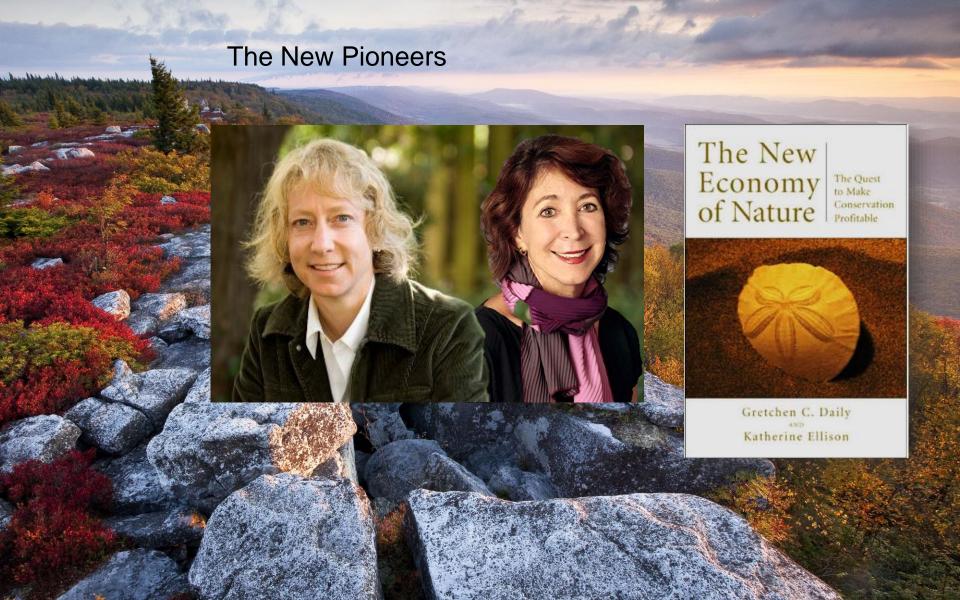
In the early days, production was highly valued!.

- Food production
- · Raw materials

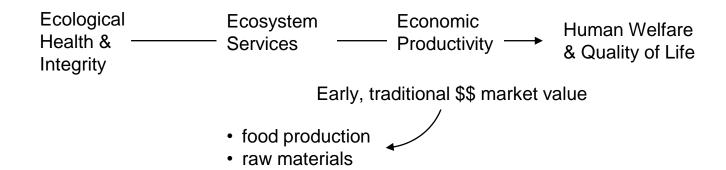


Early Conservation / Ecology Personalities





"We only manage what we measure. We only value what we struggle for."



What about all these other eco-services as we 'struggle' to adapt in a rapidly changing world?

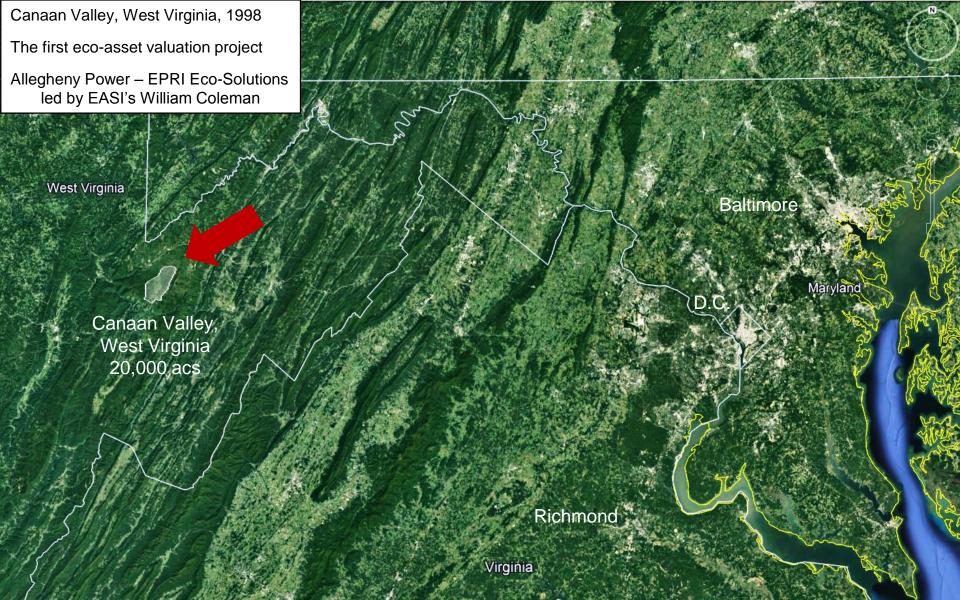
- atmospheric gas regulation
- climate regulation
- · disturbance regulation
- · water regulation
- water supply
- soil formation
- · soil maintenance
- · biodiversity maintenance
- nutrient cycling
- waste treatment
- pollination
- pest control
- · genetic library
- · cultural components

No value?

No measurable value?

Non-market value only?

Measurable, eco-asset market value?



Allegheny Power Company - 1998

Canaan Valley

20,000 acres acquired in 1900s

Pump Storage Power Plant Sell the land! (At what price?)

Sell 8000 acres for vacation homes & recreation

Conduct an eco-asset review and appraisal of the wildest parts, about 12.000 acres

Conservation Fund, managing the Land & Water Conservation Fund for USFWS, offered \$16M using Yellow Book methods



\$33M appraised eco-asset value!

Really?

- Wetland credits
- Stream credits
- Species credits
- Carbon credits

Price Waterhouse affirmed our method; IRS gave a supporting Opinion Letter



\$33M bulk/gross eco-asset value

\$16M sale paid out of L&WCF \$17M 'gift' to federal govt.



\$5M tax deduction! (30% bracket)

\$21M project value to Allegheny Power \$11M on remaining land sale \$32M total value

+ industry awards and repeat PR value



The Washington Post

Democracy Dies in Darkness

Land and Eco-Assets for Sale

By Katherine Ellison January 25, 2002

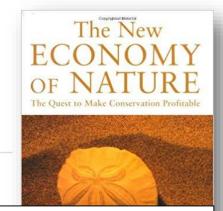
The Canaan Valley in Tucker County, West Virginia, long has been a kind of promisconservationists.

The scenic Appalachian Mountain basin features extraordinary biological diversity, was becoming more broadlargest wetlands east of the Mississippi. It offers habitat for the threatened Cheat Mountain salamander and potential habitat for the endangered West Virginia northern flying squirrel and the Indiana bat.

But it wasn't until a dollar value could be established for such natural assets -- including the contribution of regenerated forests toward regulating the global climate -- that the property's owners prepared to turn it over for preservation.

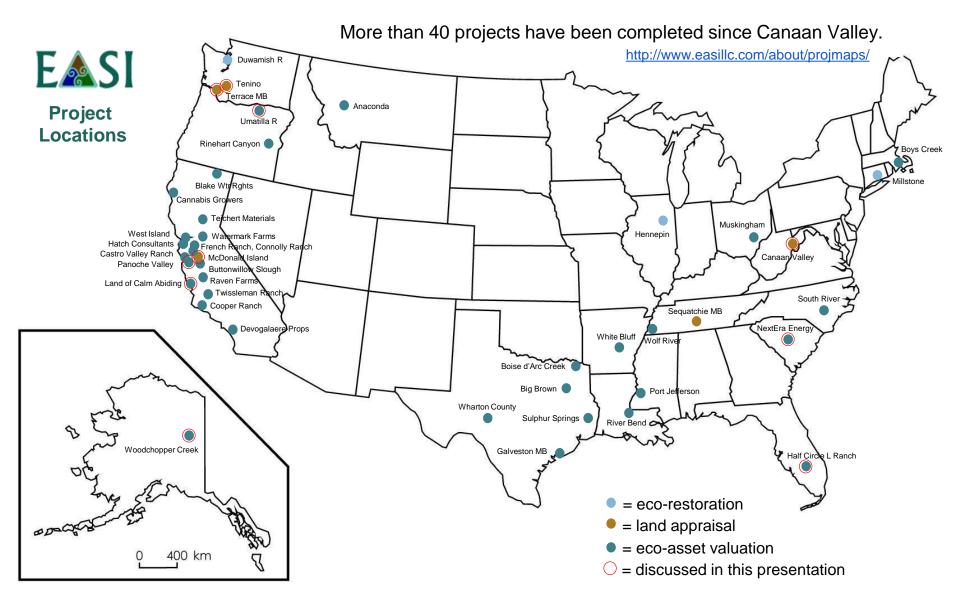
In what may be an unprecedented effort to showcase a new approach to conservation, Allegheny Energy Inc. plans to sell roughly 12,000 acres of Canaan Valley land to the U.S. Fish and Wildlife Service, possibly as soon as next week. What makes the plan remarkable is how the power company calculated the property's value for tax purposes. By including the worth of the land's ecosystems, it came up with a figure that more than doubled traditional estimates.





The EPRI project represented one of the world's most advanced efforts to calculate concrete values for environmental services that for so long had been taken for granted. It was also another sign of how a hitherto radical notion—treating ecosystems as vital capital assets—was becoming more broadly accepted.





About Ecological Assets (review)

The economic benefits of ecosystem services went unappreciated and therefore unquantified for far too long.





That changed in the 1990s. Economists revealed that ecosystem services are worth twice as much as global GDP.

They showed that <u>eco-services support all</u> <u>economic productivity and all quality of life</u>.

This makes sense if you think about it. Eco-services are like the bricks and mortar, the wiring and switches, the conveyor belts of nature's 'factory'. They create 'natural *capital*' flowing through the economy.

Example: Wetland habitats (natural capital) buffer floodwaters, filter toxins from rainwater and store water in aquifers. Wetlands provide housing for wildlife and plants. Biodiversity enables habitat production.

Economists realized the <u>replacement value</u> of these eco-services is huge. Preserving and restoring eco-services becomes a high priority.



Ecosystem Services

- atmospheric gas regulation
- climate regulation
- disturbance regulation
- water regulation
- water supply
- soil formation
- soil maintenance
- biodiversity maintenance
- nutrient cycling
- waste treatment
- pollination
- pest control
- food production
- raw materials
- genetic library
- cultural components



Eco-Services, Mitigation Banks, Eco-Asset Value, Land Value

- Eco-services needed to have consistent, measurable economic value. Landowners needed a way to monetize these services. They needed *market-based* incentives to get things going.
- Policy-makers created voluntary <u>compensatory mitigation programs</u> to accomplish these goals.
- These programs require developers to *compensate* for impacts to local ecological features by *offsetting* or *mitigating* these impacts. This gives developers <u>cost-effective compliance options</u>.
- The programs permit landowners to develop <u>wetland or conservation banks</u> that can earn <u>mitigation credits</u>. Credit prices are set by the landowner, applying basic market principles of supply, demand, cost recovery, profits, and willingness-to-pay.
- Developers can buy mitigation credits to offset their project's environmental impacts. This is usually less expensive than other options they have.
- The policies originated during the Ronald Reagan and George W. Bush years. A \$300 billion economy has developed as a result.
- Congress would have to rewrite the Clean Water Act Endangered Species Act to undo these policies.



Other habitats like <u>woodlands</u>, <u>grasslands</u> and <u>desert lands</u> provide valuable eco-services, including fertile soil, pollination, pest control and production of raw materials like timber and pasture.

Experienced policy makers understand the

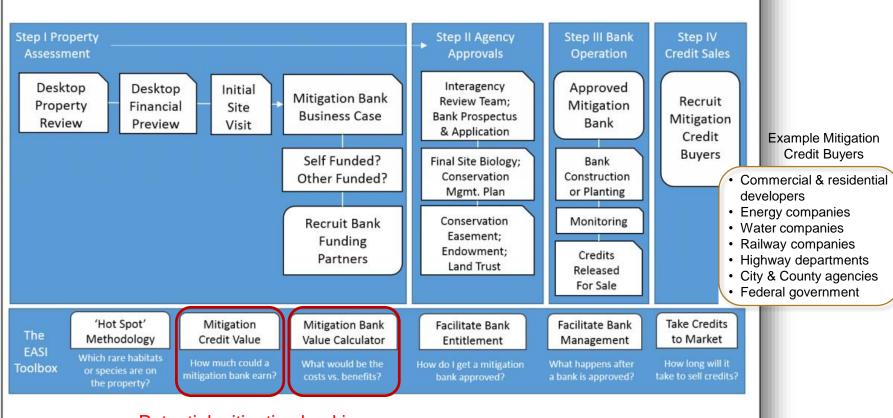
Experienced policy makers understand the economic and social importance of preserving and restoring these landscapes.

Ecosystem Services

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Four Steps for Landowners – Building a Successful Mitigation or Conservation Bank



Potential mitigation banking revenue can influence highest-and-best-use determinations during appraisals



US Army Corps of Engineers (Clean Water Act)

> Wetland & Stream Mitigation Credits

US Fish & Wildlife Service (Endangered Species Act)

Species & Habitat
Conservation Credits
(also called mitigation credits)

US Environmental Protection Agency (Clean Water Act)

> Water Quality Credits (in some areas)



About Mitigation Credits

A mitigation credit is a **unit of trade** used to offset loss of ecosystem quality, usually from construction, development or operation of built infrastructure. A mitigation credit has carefully controlled utility and liquidity.

A mitigation credit is a standard unit of measure representing the protection or increase (called 'lift') in ecosystem quality that results from preservation, enhancement, restoration or creation (PERC) of important ecological features such as wetlands or other rare habitat types.

Mitigation credits are **awarded to landowners** in exchange for a) dedicating land via a conservation easement to the public domain in-perpetuity, b) investing in the measured PERC of land to purposefully compensate for lost ecological quality, and c) implementing a wildlife and habitat management plan (WHMP) to ensure that ecological resources are protected long term.

A mitigation bank is the usual result of these efforts. Agencies approve each step of the process leading to mitigation bank operation.

Once earned, mitigation credits can be sold to buyers as proof of the buyers' effort to compensate (mitigate) for development impacts. The price of a mitigation credit is set by basic market principles of supply, demand, development cost, desired profits and willingness-to-pay.

Buyers are those who have to secure certain kinds of environmental permits from federal agencies. They are 'permittees'. They can include commercial & residential developers, city & county governments, industry and others entities who impact ecological quality.

Mitigation credits are **intangible assets** in that they lack physical substance; they are anchored to the land just like a mineral certificate is, but they are not subject to depreciation like structures, vehicles, equipment or inventory (tangible assets).

Mitigation credits are a) **authorized** by state/federal agencies; a <u>ledger account</u> is then established. Credits are b) **released** for sale as the mitigation bank achieves agency-approved performance standards. Credits can then be c) 'withdrawn' (sold) from the ledger as buyers need to compensate for ecological impacts. Once money changes hands the mitigation credit has become a **liquid asset**.

Demand for mitigation credits depends on rates of economic growth driven by planned development projects. It can take years, even decades, for a mitigation bank to sell all of its authorized mitigation credits.

Mitigation credit broker/sellers may sell credits to permittees from an approved mitigation bank. **Broker/sellers** may manage the marketing of mitigation credits, draft sales agreements, coordinate and track credit transfers. But <u>a credit may only be sold once</u> to offset an impact. <u>Credits may not be purchased for resale</u>. All sales are reported to the agencies to ensure that credits are accounted for from authorization to withdrawal.

Once a credit is withdrawn from a ledger (sold), it is permanently retired. The credit-acre (the land to which the credit is anchored) is then managed for conservation purposes by a third-party entity — a land trust, an environmental group, or an agency itself.

- <u>Monetizing eco-services</u> creates a business argument for land conservation.
 (Long term protection for eco-services is assured through *conservation easements* required for every mitigation bank.)
- The 'business of conservation' blends free market principles with society's quality of life needs.
- Ecological assets can significantly boost land value and protect or restore eco-services.
- Developing mitigation credits leads to <u>bookable assets</u> that are subject to familiar methods of land pricing, purchasing, accounting and tax valuation.
- Appraisal methods should now uniformly incorporate eco-asset data and business methods.

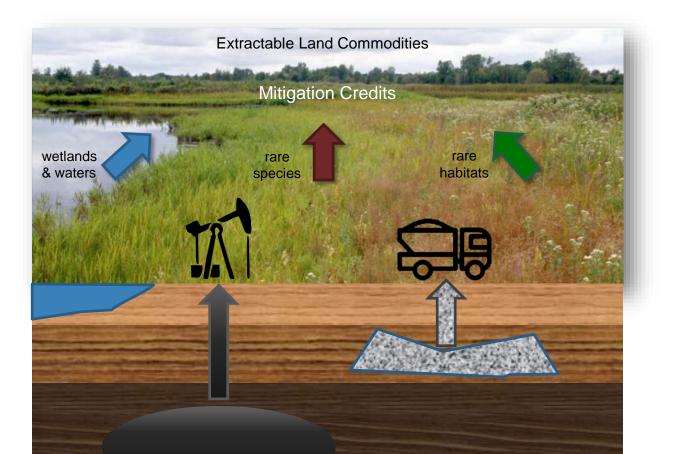




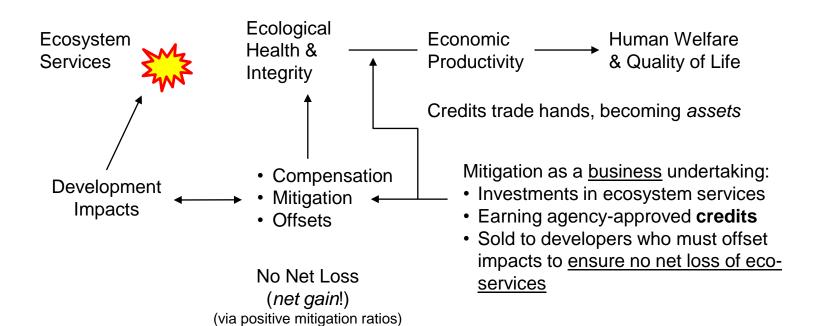
Once again: Ecological Assets are like other <u>extractable natural resource</u> fixed to the land.

They are like minerals, or oil & gas. They are natural resource stocks that can be developed to flow into the economy.

As mitigation credits taken to market, they offset development impacts (becoming bookable assets...(<u>ecological assets</u>) while the acre of land is retired for low-impact compatible uses – grazing, recreation, etc.



Protecting Quality of Life & Sustainable Economic Productivity Calls for 'No Net Loss' of Ecosystem Services



Making Ecological Assets 'Revenue Real'

Requires a reliable set of market data, plus methods and tools, that can:

- 1. <u>Identify high-value lands</u> carrying potential ecological assets
- 2. Estimate gross eco-asset value based on:
 - a) the land's ability to generate mitigation credits and
 - b) the market value of these credits
- 3. Estimate eco-asset revenue potential measured as mitigation bank NPV and ROI
- 4. Determine a property's current <u>appraised value*</u> (or <u>estate value</u>) following Appraisal Institute (MAI) guidelines



^{*}EASI valuations are conducted in partnership with experienced, certified appraisers. Appraised value stems from highest-and-best-use determinations built upon a property's eco-asset valuation.

Here's how to do it!

Land ecological characteristics

"Creditable" features



X, Y, Z

Land & water ecological asset value

Mitigation credit prices



\$\$, \$, \$\$\$



[(X*\$\$)*acs]+[(Y*\$)*acs]+[(Z*\$\$\$)*acs] = gross EAV

+ other revenue potential income = total land <u>revenues</u> (cattle, timber, minerals, res/com development...)

Development costs (mitigation bank)

- land acquisition mineral rights?
- conservation easement
- endowment fund & project sponsor
- wildlife & habitat management plan restoration, monitoring & reporting...

<u>Market demand</u> (mitigation credit "adsorption rate")

- competition; mit-credit type & quantity
- · rate of mit-credit sale
- potential buyers

Credit sale timeline; discount rate, NPV/ROI/ROR

The Mitigation Credit Price Report – an unrivaled source of eco-asset market data



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Project Case Studies



Eco-Asset Solutions & Innovations LLC

San Francisco and South Lake Tahoe 01-415-706-6154 info@easillc.com



<u>Case Study 1</u>: A 130-acre property in **Vancouver, Washington** was approved for wetland mitigation banking in 2015.

EASI predicted Terrace MB could generate about \$12.6M in gross eco-asset value, or \$97,000/acre, based on a wetland credit price of \$156,000 each.

Colliers International was asked to appraise the property. They assigned a 15 year project period and a 17.5% discount rate to the EASI eco-asset values, predicting <u>net earnings</u> = \$4.9M (\$38K/ac).

Prices today are about \$190,000 per credit-acre.

The bank has 81 approved credits.

At today's value, that would be \$15.2 million gross, \$5.9M net, or an average of \$45,000 per acre.

(As of January, 2019, 12+ credits have been sold, valued at \$2.25M.)



"A 113-acre former peat bog in Vancouver, WA, became Terrace Mitigation Bank in 2017.

It will be restored over the next decade and conserved for the foreseeable future. The bank will generate millions in revenues by restoring it and selling credits to local developers, whose projects may cause ecological damage." Terrace MB LLC approached Riverview Community Bank, a federally regulated lender, for a loan to finance site restoration.

They offered future <u>mitigation credits as collateral</u> for the loan.

The lender was unfamiliar with the mitigation credits or mitigation banking. They funded the Colliers appraisal to understand the relationship between traditional land value and mitigation credit values.

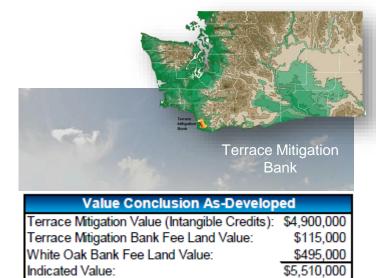
Colliers set up a clear framework for the assessment:

Regulatory Authority

"The Subject Property has been designated as a mitigation bank by the Washington Department of Ecology (Ecology). As such, the Subject Property can sell credits to offset mitigation on other lands.

Mitigation Credit Market Demand

"The primary users of credits are likely to be the City of Vancouver, Clark Regional Wastewater District, Pacific Energy, Port of Vancouver, Portland General Electric Company, Washington State Department of Transportation and a number of public, quasi-public and private users."



Mitigation Credit Market Price

"The starting point for the analysis is the value of a credit. We looked to the public records for sales of similarly developed credits (e.g. 'comparables'). (According to EASI) the adjusted average value is about \$156,000 per credit statewide. For reference are the available sales for (nearby) East Fork and Columbia River mitigation banks.

"The final estimate of market value for the Subject Property is based on the summation of the fee interest in the Property plus the present value of the agency-authorized mitigation credits for the Terrace MB."

Case Study Lessons

<u>Lesson 1</u> – Mitigation credits can be bona fide indicators of land value and important sources of business revenue.

LAND VALUATION



<u>Lesson 2</u> – Mitigation credits, although intangible assets, have known market value. That value can be recognized for purposes of debt financing.

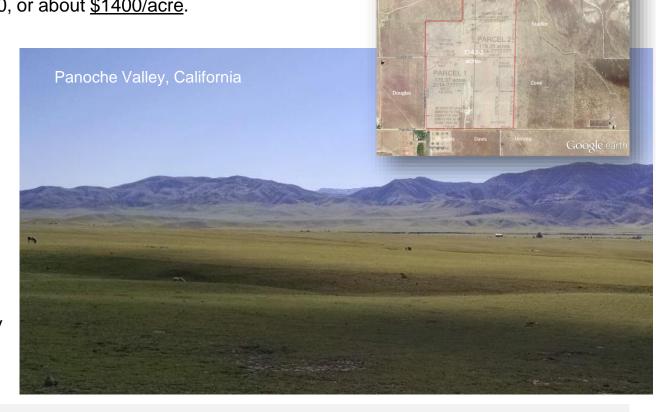


Case Study 2: A 355 acre horse ranch in California's **San Benito County** was purchased in 2014 for \$500,000, or about \$1400/acre.

EASI performed an eco-asset review, finding 5 ('creditable') species for which mitigation credit market value had been established.

EASI estimated the gross value of future mitigation credits to be \$9M.

The landowner had no experience with mitigation banking. Instead, he sold 300 acres to a local energy company that needed mitigation land to offset proposed solar energy development impacts.



The energy company paid \$4400/acre (\$1.3M) for the mitigation land, three times comparable market value.

Why pay that premium?

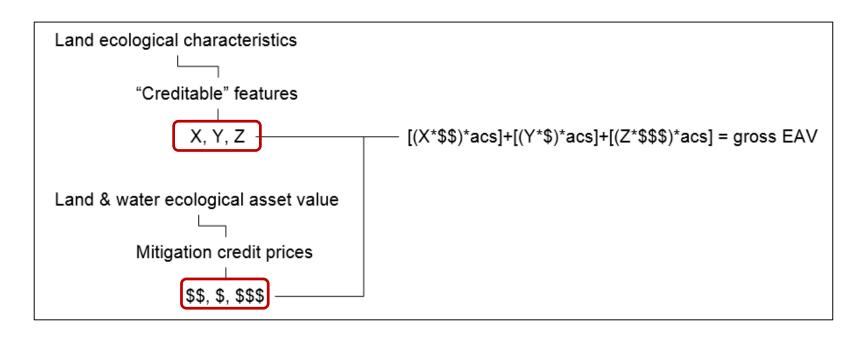
The 300 mitigation credits would have cost the energy company 5x as much (\$6.5M) if purchased from a mitigation bank. The company saved ~ \$5M by accepting the landowner's offer.

Case Study Lessons

Lesson 1 – Mitigation credits can be bona fide indicators of land value and important sources of business revenue.

Lesson 2 – Mitigation credits, although intangible assets, have known market value. That value can be recognized for purposes of debt financing.

<u>Lesson 3</u> – Developing a mitigation bank can be costly, and isn't always necessary. Just knowing the *potential* mitigation credit (eco-asset) value can boost land sale prices.



<u>Case Study 3</u>: In 2016, a California Reclamation District needed to mitigate for levee maintenance impacts at **McDonald Island** in the San Joaquin River.

The Rec District asked a local landowner to sell or donate <u>200 acres</u> of potential mitigation land to help meet this obligation.

The landowner, unsure how to value the mitigation acres, asked EASI to conduct an eco-valuation. Colliers International was asked to perform a land appraisal once the eco-valuation was complete.

The appraisal showed a <u>24:1 ratio</u> between the gross value of mitigation credits and the market value of the 200 acres. The <u>gift value</u> of the property (subject to tax deduction) went from \$200K to \$4.9M.

(From the Colliers' report)

Final Value Conclusion:

Subject Property Value Conclusion					
	Parcel A	Parcel B	Total		
Market Value of Fee Land (Real Estate):	\$120,000	\$80,000	\$200,000		
Bulk Value of Mitigation Credits (Intangible Value):	\$4,250,000	\$425,000	\$4,675,000		
Total Market Value:	\$4,370,000	\$505,000	\$4,875,000		



Case Study Lessons

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<u>Lesson 4</u> – The gift value of land (and the related tax offset) can increase when eco-asset values are considered. This is also true when figuring estate value.

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Total Market Value:	\$4,370,000	\$505,000	\$4,875,000				

\$32M gross eco-asset value
- \$16M price paid by CF / L&WCF
- \$16 gift to federal govt.
- \$4.8M tax deduction (30% bracket)

\$20.8M project value to Allegheny Power

<u>Case Study 4</u>: A 485-acre meditation retreat center in **Monterey County**, CA wanted to find more conservation oriented economic uses for the land.

In 2017 EASI estimated \$24M in gross value for wetland and species/habitat credits. (The land's Corporforo Creek is a headwater for sturgeon spawning in central CA.)

Mitigation bank development costs were also studied leading to a predicted ROI of 4.5:1.

The property exists in an area with essentially zero competition from other mit-credit sellers.

Demand for mitigation credits would come from local city, county and state agencies as well as industry operating in the Central Coast region.

During the land survey, EASI accidentally identified 'complications' with the county-recorded property boundaries. (Permanent structures on federal land!)



This put mitigation bank on hold – probably indefinitely.

Case Study Lessons

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<u>Lesson 5</u> – Attractive ROI is not always the determining factor in project decision making.



<u>Case Study 5</u>: A landowner in **Umatilla County, Oregon** considered building the only mitigation bank in the eastern part of the state, on a 2300 acre property.

In 2017 EASI estimated the gross value of wetland credits to be <u>\$30M</u> on 355 acres, or \$85,000/acre.

Eco-restoration costs, plus costs to set up a mitigation bank endowment fund, led to a total development cost of about \$5M. That cost, and uncertain demand for mit-credits in eastern Oregon kept project ROI at 0.6:1.

However, by deferring high restoration costs to later development phases, and by securing Letters of Interest from prospective credit buyers, ROI could grow to 2.6:1.



Other project flex points were identified to increase ROI, allowing the landowner to scenario-plan future development options.

Landowner is currently negotiating cost-share options with a local Native American group interested in fisheries restoration.

Case Study Lessons

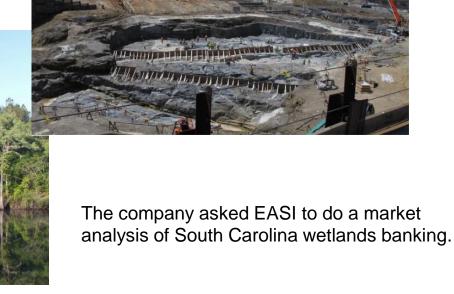
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- Lesson 5 Attractive ROI is not always the determining factor in project decision making.
- <u>Lesson 6</u> Mitigation credits don't always generate attractive ROI.



Case Study 6: A national energy company wanted to learn about mitigation credit markets in **South Carolina**.

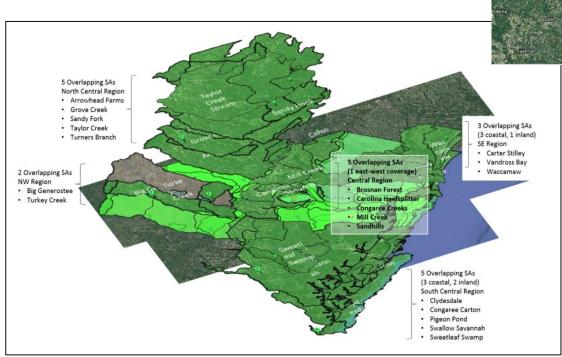
In 2017 the company purchased a state-owned nuclear power plant with the promise of decommissioning the facility and replacing it with natural gas generation.

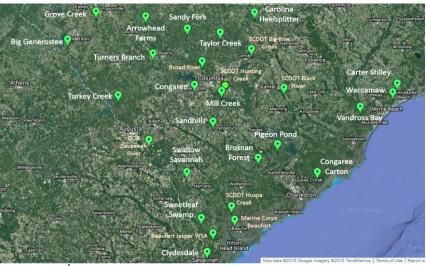
Decommissioning would leave a large depression in the landscape. The company wondered if wetlands restoration and mitigation banking could help them recover some of the costs.

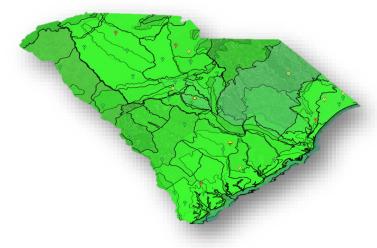


South Carolina is home to a large number of wetland mitigation banks. The *service areas* for these banks often occupy entire watersheds.

EASI discovered that the state was essentially blanketed with wetland banks – there were essentially no open business niches.







South Carolina mitigation bank service areas – plan view

EASI also studied the number of available mitigation credits to see what future sales competition might look like.

Several thousand available wetland credits meant competition for sales would be stiff.

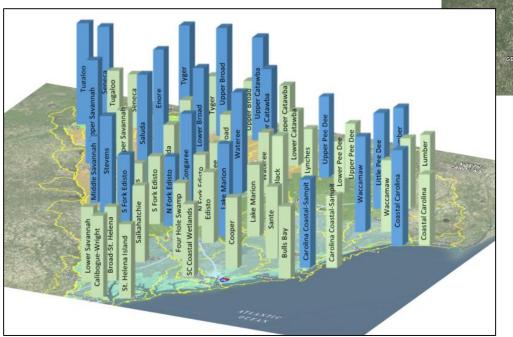




Table I.

Available Commercial credits by Asset Type and Credit Type

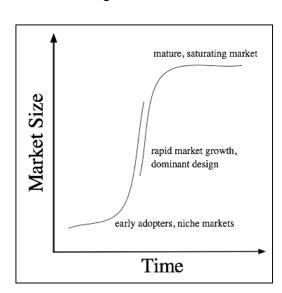
Units	Asset Type	Credit Type
38.23	wetland	buffer enhancement
4.8	wetland	buffer preservation
519.62	species	Carolina <u>heelsplitter</u>
3300.63	wetland	freshwater enhancement/restoration
419.42	wetland	freshwater preservation
300.6	wetland	salt marsh enhancement/restoration
39.8	stream	salt marsh preservation
15164.27	stream	enhancement
82112.78	stream	preservation
63395.38	stream	restoration
0.34	wetland	wetlands

Total Available Commercial Credits

160,712.23 All stream types 519.62 All species

Case Study Lessons

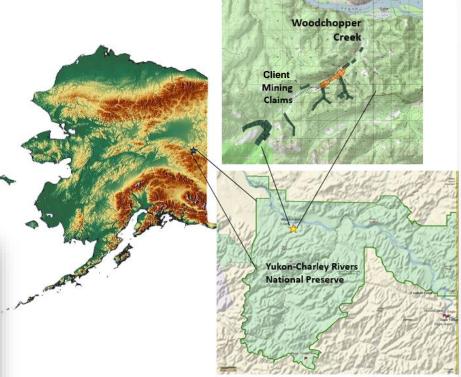
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- Lesson 6 Mitigation credits don't always generate attractive ROI.
- <u>Lesson 7</u> Some mitigation credit markets may be saturated.



Case Study 7: A 1340 acre inholding of Alaska's Yukon-Charley Rivers National Preserve included patented and unpatented mining claims. The landowner decided to sell the claims in 2018 and wanted to know if eco-assets would boost the asking price.

The National Park Service wanted to consolidate federal land ownership and minimize future mining disturbance. They offered to buy the claims.





At what price should the landowner/claims-holder sell?

- What are wetland mitigation credit comparables?
- What are the mining claim comparables?
- Were these asset values compatible?



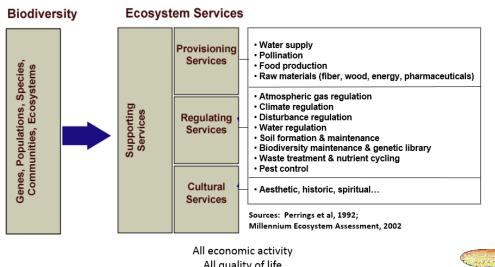


Wildlife on Woodchopper Creek

35 species have Alaska F&G wildlife management plans!



Turns out that biodiversity is the foundation for all ecosystem services!



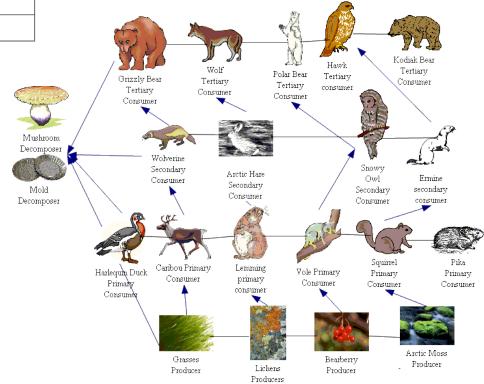
All quality of life

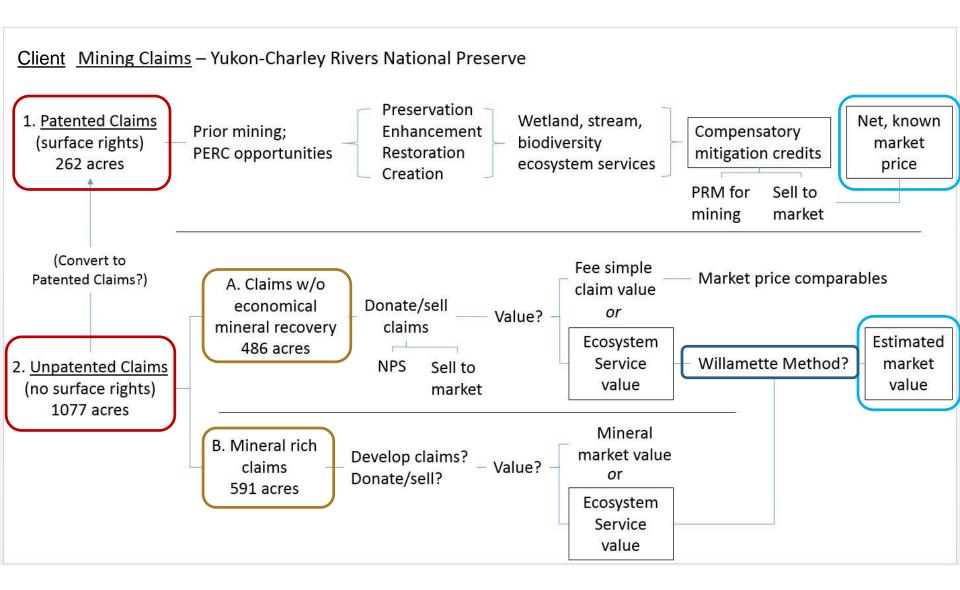


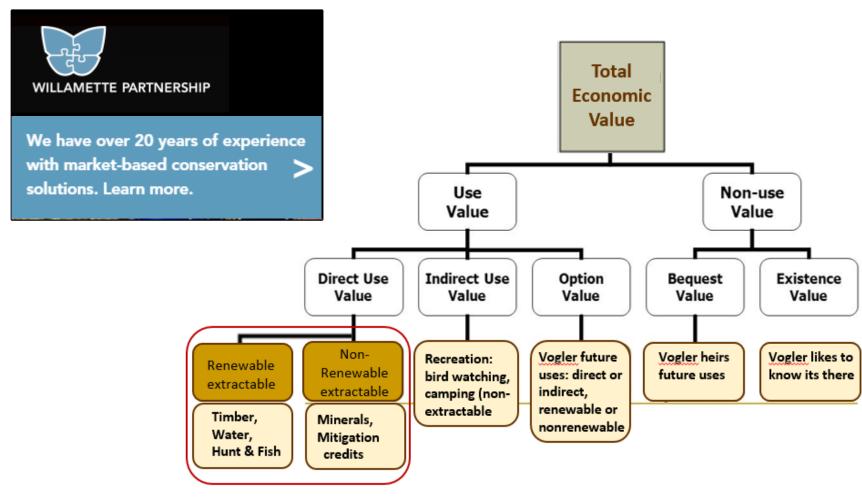
Total Economic Value (TEV)



The Woodchopper Creek property is a highly desirable landscape. But would NPS pay a premium price based on willingness-to-pay for high ecosystem service values?







Hard Eco-Asset Market Value

Patented Claims & Surface Rights

'Soft' Eco-Asset Market Value?

Unpatented Claims & Mineral Rights

Willamette Partnership

EASI

Case Study Lessons

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- Lesson 6 Mitigation credits don't always generate attractive ROI.
- Lesson 7 Some mitigation credit markets may be saturated.
- <u>Lesson 8</u> Hard eco-asset market value is not everything. 'Soft' EAV can build willingness-to-pay for a highly attractive property, especially if advocated by a reputable source.

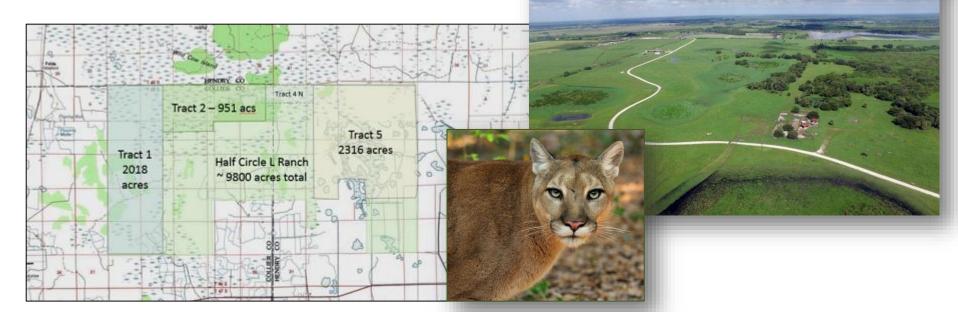




Case Study 8: A 10,000 acre ranch in south Florida, one of the area's best know historic and natural landscapes, went on the market after four generations of family ownership.

Before deciding to make an offer on the ranch, a potential buyer in Louisiana contacted EASI about mitigation bank development options. Could he earn back the land purchase cost and make additional money?

The ranch had been subdivided into 6 tracts, with the agricultural land separated from the ranch land. Four tracts were considered wild enough to qualify for wetlands and/or species mitigation banking — including conservation credits for the rare Florida panther.



FLORIDA

Half Circle L Ranch

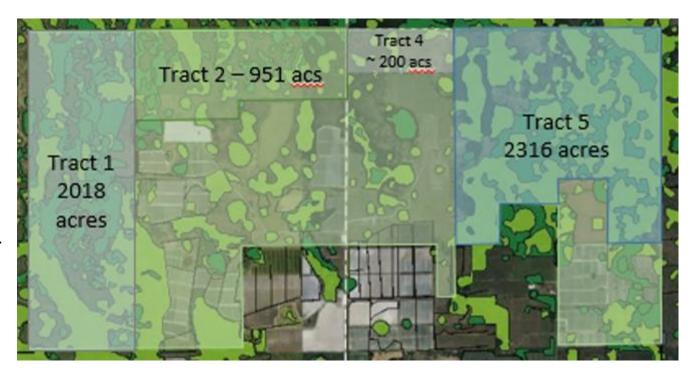
Which, if any, of the tracts should our buyer consider, and why?

The buyer had grown up hiking, camping and hunting there – on Tract 2 in particular. Should a land purchase be based on business or personal considerations?

EASI's challenge – to model six different land purchase options. ~ whoa



- All four tracts
- Tract 1 alone
- Tract 2 alone
- Tract 5 alone
- Tracts 1 & 2 together
- Tracts 2, 4 & 5 together



The EASI Project Performance Table

Discounted cash flow analysis and return on investment for projected mitigation bank revenues vs. costs – 20 project years

	Year End: Project Year:	2020	2021	2022	2023	2024	2025	2026 7	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038 19	2039	(Confirm	mation Colu
itigation Credit Inventory		Credits Released																				Total Credit	ts Released
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2	237.75																						
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s Sold @ Market> use rate	37.00					37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	i	
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Total Credits Sold/Year						37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00			sold / u
Credit Inventory:						529.59	492.59	1258.25	1221.25	1986.92	1949.92	2715.58	2678.58	3444.25	3407.25	3370.25	3333.25	3296.25	3259.25	3222.25			remaini
Sales Running Total						37.00	74.00	111.00	148.00	185.00	222.00	259.00	296.00	333.00	370.00	407.00	444.00	481.00	518.00	555.00	532.00	3,777	total w
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onstruction & year O (prelease = 15%)	15%	0.00				0.00			0.25		25%		25%	254	2								
nance Credit Releases	25%					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	stream
Available Credits						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Sold @ Market> use rate	6%					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
s Sold @ Bulk	\$ -					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Total Credits Sold/Year						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		sold / u
g Credit Inventory:						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		remaini
Gredit Sales to Date						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		total a
orida panther	1707.75					pre-release> perfo							-	$\overline{}$									
		credit-acres					Ormanice release **/																
nstruction & year O (prelease = 7.5%)	15%	credit-acres				256.16	0%	25%	0%	25%	0%	25%	0%	25%	0%	0%	0%	0%	0%	0%	0%		
nstruction & year 0 (prelease = 7.5%) nance Credit Releases		credit-acres				256.16 0.00	0.00	25% 362.90	0.00	362.90	0.00	362.90	0.00	362.90	0.00	0.00	0.00	0.00	0.00	0.00			FL pant
nstruction & year 0 (prelease = 7.5%) nance Credit Releases Credits Available	15% 25%	credit-acres				256.16 0.00 256.16	0% 0.00 167.93	25% 362.90 442.60	0.00 354.38	362,90 623,05	0.00 540.82	362.90 815.49	0.00 727.26	362.90 1001.93	0.00 913.70	0.00 825.47	0.00 737.25	0.00 649.02	0.00 560.79	0.00 472.56	384.33		FL pant
onstruction & year 0 (prelease = 7.5%) mance Credit Releases Credits Available dits Sold @ Market> use rate	15%	credit-acres				256.16 0.00 256.16 88.23	0% 0.00 167.93 88.23	25% 362.90 442.60 88.23	0.00 354.38 88.23	362,90 629,05 88,23	0.00 540.82 88.23	362.90 815.49 88.23	0.00 727.26 88.23	362.90 1001.93 88.23	0.00 913.70 88.23	0.00 825.47 88.23	0.00 737.25 88.23	0.00 649.02 88.23	0.00 560.79 88.23	0.00 472.56 88.23	384.33 88.23		FL pant
onstruction & year 0 (prelease = 7.5%) mance Credit Releases Credits Available dits Sold @ Market> use rate s Sold @ Bulk	15% 25%	credit-acres				256.16 0.00 256.16 88.23 0.00	0% 0.00 167.93 88.23 0.00	25% 362,90 442,60 88,23 0.00	0.00 354.38 88.23 0.00	362.90 629.05 88.23 0.00	0.00 540.82 88.23 0.00	362.90 815.49 88.23 0.00	0.00 727.26 88.23 0.00	362.90 1001.93 88.23 0.00	9.00 913.70 88.23 0.00	0.00 825.47 88.23 0.00	0.00 737.25 88.23 0.00	0.00 649.02 88.23 0.00	0.00 560.79 88.23 0.00	0.00 472.56 88.23 0.00	384.33 88.23 0.00		
onstruction & year 0 (prelease = 7.5%) mance Credit Releases Credits Available dits Sold @ Market> use rate s Sold @ Bulk Total Credits Sold/Year	15% 25%	credit-scres				256.16 0.00 256.16 88.23 0.00 88.23	0% 0.00 167.93 88.23 0.00 88.23	25% 362.90 442.60 88.23 0.00 88.23	0.00 354.38 88.23 0.00 88.23	362.90 629.05 88.23 0.00 88.23	0.00 540.82 88.23 0.00 88.23	362.90 815.49 88.23 0.00 88.23	0.00 727.26 86.23 0.00 88.23	362.90 1001.93 88.23 0.00 88.23	0.00 313.70 88.23 0.00 88.23	0.00 825.47 88.23 0.00 88.23	0.00 737.25 88.23 0.00 88.23	0.00 649.02 88.23 0.00 88.23	0.00 560.79 88.23 0.00 88.23	0.00 472.56 88.23 0.00 88.23	384.33 88.23 0.00 88.23	1,412	sold / u
onstruction & year 0 (prelease = 1,5%) mance Credit Releases Credits Available dits Sold @ Market> use rate > Sold @ Bulk Total Credits Sold!Year Credit Inventory:	15% 25%	credit-acres				256.16 0.00 256.16 88.23 0.00 88.23 167.93	0% 0.00 167.93 88.23 0.00 88.23 79.71	25% 362.30 442.60 88.23 0.00 88.23 354.38	0.00 354.38 88.23 0.00 88.23 266.15	362.90 629.05 88.23 0.00 88.23 540.82	0.00 540.82 88.23 0.00 88.23 452.59	362.90 815.49 88.23 0.00 88.23 727.26	0.00 727,26 88,23 0.00 88,23 639,03	362.90 1001.93 88.23 0.00 88.23 913.70	0.00 313.70 88.23 0.00 88.23 825.47	0.00 825.47 88.23 0.00 88.23 737.25	0.00 737.25 88.23 0.00 88.23 649.02	0.00 649.02 88.23 0.00 88.23 560.79	0.00 560.79 88.23 0.00 88.23 472.56	0.00 472.56 88.23 0.00 88.23 384.33	384.33 88.23 0.00 88.23 296.11	1,412 296	sold / u
nstruction & year 0 (prelease = 1,5%) nance Credit Releases Credits Available lits Sold @ Market> use rate Sold @ Bulk Total Credits Sold/Year Credit Inventory:	15% 25% 88.23 \$ -	redit-scres	2	3		256.16 0.00 256.16 88.23 0.00 88.23	0% 0.00 167.93 88.23 0.00 88.23	25% 362.90 442.60 88.23 0.00 88.23	0.00 354.38 88.23 0.00 88.23	362.90 629.05 88.23 0.00 88.23	0.00 540.82 88.23 0.00 88.23 452.59 529.37	362.90 815.49 88.23 0.00 88.23	0.00 727.26 88.23 0.00 88.23 639.03 705.82	362.90 1001.93 88.23 0.00 88.23 913.70 794.05	0.00 913.70 88.23 0.00 88.23 825.47 882.28	0.00 825.47 88.23 0.00 88.23	0.00 737.25 88.23 0.00 88.23 649.02 1058.73	0.00 649.02 88.23 0.00 88.23	0.00 560.79 88.23 0.00 88.23 472.56 1235.19	0.00 472.56 88.23 0.00 88.23 384.33 1323.42	384.33 88.23 0.00 88.23 296.11	1,412 296 1,708	sold / remaini
netruction & year 0 (prelease = 7.5%) nance Credit Releases Credits Available lite Sold @ Market> use rate Sold @ Bulk Total Credits Sold/Year Credit Inventory: Sales Romning Total al Mittigation Bank Revenue:	15% 25%		2	3	4	256.16 0.00 256.16 88.23 0.00 88.23 167.33 88.23	0% 0.00 167.33 88.23 0.00 88.23 79.71 176.46	25% 362.90 442.60 88.23 0.00 88.23 354.36 264.68	0.00 354.38 68.23 0.00 68.23 266.15 352.31	362.90 629.05 68.23 0.00 68.23 540.82 441.14	0.00 540.82 88.23 0.00 88.23 452.59 529.37	362,30 815,43 88,23 0,00 88,23 727,26 617,53	0.00 727.26 88.23 0.00 88.23 639.03 705.82	362.90 1001.93 88.23 0.00 88.23 313.70 794.05	0.00 313.70 88.23 0.00 88.23 825.47 882.28	0.00 825.47 88.23 0.00 88.23 737.25 370.50	0.00 737.25 86.23 0.00 88.23 649.02 1058.73	0.00 643.02 88.23 0.00 88.23 560.79 1146.96	0.00 560.79 88.23 0.00 88.23 472.56 1235.19	0.00 472.56 88.23 0.00 88.23 384.33 1323.42	384.33 88.23 0.00 88.23 296.11 1411.64 20	1,412 296 1,708	sold / u remainin total pa
netruction & year 0 (prolesse = 1.5%) nance Credit Release The Sold & Market - Credits Available tits Sold & Market - year rate Sold & Bulk Total Credits Sold/Year Credit Inventors: Sales Denning Total all Mittigation Bank Revenue: At Pricing Pake:	15% 25% 88.23 \$ Project Year:	1	2 98,684 \$	3 104,111 \$		256.16 0.00 256.16 88.23 0.00 88.23 167.30 88.23 5	0% 0.00 167.93 88.23 0.00 88.23 79.71 176.46 6	25% 362.30 442.60 88.23 0.00 88.23 354.38 264.68 7	0.00 354,38 88,23 0.00 88,23 266,15 352,31 8	362.90 629.05 88.23 0.00 88.23 540.82 441.14 3	0.00 540.82 86.23 0.00 88.23 452.59 529.37 10	362.30 815.43 88.23 0.00 88.23 727.26 617.53	0.00 727.26 88.23 0.00 88.23 639.03 705.82 12	362.90 1001.93 88.23 0.00 88.23 913.70 794.05	0.00 313.70 88.23 0.00 88.23 825.47 882.28	0.00 825.47 88.23 0.00 88.23 737.25 970.50	0.00 737.25 88.23 0.00 88.23 649.02 1058.73 16	0.00 643.02 88.23 0.00 88.23 560.79 1146.96	0.00 560.79 88.23 0.00 88.23 472.56 1235.19 18	0.00 472.56 86.23 0.00 88.23 384.33 1323.42 19	384.33 88.23 0.00 88.23 296.11 1411.64 20 \$ 258,636	1,412 296 1,708 5485	sold / u remainir total pa total all
netrrection à year 0 (prelease = 155) mance Credit Release Credit Available fits Sold © Market -> us est es Sold © Bulk Total Credits Sold/Year Credit Inventory: Sale Remain Total al Mittigation Bask Revenue: et Pricing Rate: and Credit Revenue	15% 25% 88.23 \$ -	1	2 38,684 \$	3 104,111 \$	4	256.16 0.00 256.16 88.23 0.00 88.23 167.33 88.23	0% 0.00 167.33 88.23 0.00 88.23 79.71 176.46	25% 362.30 442.60 86.23 0.00 88.23 354.38 264.68 7	0.00 354.38 68.23 0.00 68.23 266.15 352.31	362.90 629.05 88.23 0.00 88.23 540.82 441.14 3	0.00 540.82 86.23 0.00 88.23 452.59 529.37 10	362.30 815.43 88.23 0.00 88.23 727.26 617.53	0.00 727.26 88.23 0.00 88.23 639.03 705.82 12	362.90 1001.93 88.23 0.00 88.23 313.70 794.05	0.00 313.70 88.23 0.00 88.23 825.47 882.28	0.00 825.47 88.23 0.00 88.23 737.25 970.50	0.00 737.25 88.23 0.00 88.23 649.02 1058.73 16	0.00 643.02 88.23 0.00 88.23 560.79 1146.96	0.00 560.79 88.23 0.00 88.23 472.56 1235.19 18	0.00 472.56 86.23 0.00 88.23 384.33 1323.42 19	384.33 88.23 0.00 88.23 296.11 1411.64 20 \$ 258,636	1,412 296 1,708 5485	sold / u remainir total pa total all
netruction à yeur 0 (prelease = 1.55) mance Credit Release Credit Release Credit Reventory Sold © Makket -> us et sold // rear Credit Reventory Sold Expendity Sold/Year Credit Reventory Sold Expending Total Il Mitigation Bhak Revenue: R Pricing Plate: and Credit Revenue and Credit Revenue	15% 25% 88.23 \$ Project Year:	1	2 38,684 \$	3 104,111 \$	4	256.16 0.00 256.16 88.23 0.00 88.23 167.30 88.23 5	0% 0.00 167.93 88.23 0.00 88.23 79.71 176.46 6	25% 362.30 442.60 88.23 0.00 88.23 354.38 264.68 7	0.00 354,38 88,23 0.00 88,23 266,15 352,31 8	362.90 629.05 88.23 0.00 88.23 540.82 441.14 3	0.00 540.82 86.23 0.00 88.23 452.59 529.37 10	362.30 815.43 88.23 0.00 88.23 727.26 617.53	0.00 727.26 88.23 0.00 88.23 639.03 705.82 12	362.90 1001.93 88.23 0.00 88.23 913.70 794.05	0.00 313.70 88.23 0.00 88.23 825.47 882.28	0.00 825.47 88.23 0.00 88.23 737.25 970.50	0.00 737.25 88.23 0.00 88.23 649.02 1058.73 16	0.00 643.02 88.23 0.00 88.23 560.79 1146.96	0.00 560.79 88.23 0.00 88.23 472.56 1235.19 18	0.00 472.56 86.23 0.00 88.23 384.33 1323.42 19	384.33 88.23 0.00 88.23 296.11 1411.64 20 \$ 258,636	1,412 296 1,708 5485	sold / u remaini total pa total all
setrection à yeur 0 (proleuse = 1.53) mance Crodit Rolle Credite Available ite Sold © Market -> use rete Sold © Public Total Credite Sold/Year Credit Inventory Sales Penaina Total al Mittigation Bank Revenue: et Pricing Pobe: di Credit Revenue de Credit Revenue	15% 25% 88,23 \$ Project Year: 105,5% \$88,663	1 \$ 93,539 \$	- \$	- \$	4 109,838 \$	256.16 0.00 256.16 88.23 0.00 88.23 167.93 88.23 5 115,873 4,287,508 \$	0% 0.00 167.33 88.23 0.00 88.23 79.11 176.46 6	253 362,30 442,60 88,23 0,00 88,23 354,38 264,68 7	0.00 354.38 88.23 0.00 88.23 266.15 352.91 6	362.90 629.05 88.23 0.00 88.23 540.82 441.14 3	0.00 \$40.82 88.23 0.00 88.23 452.53 529.37 10 151,443 5,603,601 \$	362.90 815.49 88.23 0.00 88.23 727.26 617.59 11 159,778 \$ 5,911,799 \$	0.00 727.26 88.23 0.00 88.23 639.03 705.82 12 168,566 \$ 6,236,348 \$	362.90 1001.93 88.23 0.00 88.23 913.70 794.05 13 177.837 \$ 6,579,380 \$	0.00 913.70 88.23 0.00 88.23 825.47 882.28 14 187,618 \$ 6,941,879 \$	0.00 825.47 88.23 0.00 88.23 737.25 970.50 15 197,337 \$ 7,323,683 \$	0.00 737.25 88.23 0.00 88.23 649.02 1058.73 16 208.824 7,726,485 \$	0.00 643.02 88.23 0.00 88.23 560.73 146.36 17 220,309 \$ 8,151,442 \$	0.00 560.79 88.23 0.00 88.23 472.56 1205.19 18 232,426 6,599,771	0.00 472.56 88.23 0.00 88.23 384.33 1323.42 13 \$ 245,210 \$ 3,072,758	384.33 88.23 0.00 88.23 296.11 1411.64 20 \$ 258,636 \$ 9,571,760	1,412 296 1,708 5485	sold / u remaini total pa total all
nstruction & year 0 (prelease s 1.53) nence Credit Release Credit Revailable ins Sold @ Munder > use rate Sold @ Sold = view = v	15% 25% 88.20 \$ Project Year: 105.5% \$8.663	1 \$ 93,539 \$	2 35,684 \$ 15,345 \$	3 104,111 \$	4	256.16 0.00 256.16 80.23 0.00 88.23 167.93 88.23 5 115,873 4,287,508 \$ 19,872 \$ 19,872	0% 0.00 167.33 88.23 0.00 88.23 79.71 176.46 6 122,252 \$ 4,523,321 \$ 21,661 \$	25% 362.30 442.60 88.23 0.00 88.23 354.38 264.68 7 128.976 \$ 4,772,103 \$	0.00 354.38 88.23 0.00 88.23 266.15 352.31 8 136,063 \$5,034,563 \$5,034,563 \$25,735 \$25,735 \$354,563	362.90 629.05 88.23 0.00 88.23 540.02 441.14 3 143,553 \$ 5,311,470 \$	0.00 540.82 88.23 0.00 88.23 452.59 529.37 10 151,443 \$ 5,603,601 \$ 30,576 \$	362.90 815.49 88.23 0.00 88.23 T27.26 617.59 11 : 159.778 \$: 5,911.799 \$	0.00 127.26 68.23 0.00 88.23 639.03 105.82 12 168.566 \$ 6,236,548 \$ 36,327 \$	362.90 1001.93 88.23 0.00 88.23 913.70 794.05 13 177,837 \$ 6,579,380 \$	0.00 913.70 88.23 0.00 88.23 82.547 88.228 14 187.618 \$ 6,941,879 \$	0.00 825.47 88.23 0.00 88.23 707.25 370.50 15 197,337 \$ 7,323,663 \$ 47,045 \$	0.00 737,25 88,23 0.00 88,23 643,02 1058,73 16 208,624 7,726,485 \$ 7,726,485 \$	0.00 643.02 88.23 0.00 88.23 550.79 1146.96 17 220,309 \$ 8,151,442 \$	0.00 550.73 88.23 0.00 88.23 472.55 1235.19 18 232,426 8,599,771	0.00 472.56 88.23 0.00 88.23 384,33 1323.42 13 \$ 245,210 \$ 9,072,758 \$ 66,408	384,33 88,23 0,00 88,23 296,11 141,64 20 \$ 258,696 \$ 3,571,760 \$ 72,385	1,412 236 1,708 5485 \$ 105,649,078	sold / u remaini total ps total all wetland
instruction & year 0 (prolesse s 1.53) mence Credit Richesse ins Sold © Muhter -> use rate Sold © Sold Revenue Text Credit Revators Solds Familia Text and Mittigation Bank Revenue I Pricing Patter G Credit Revenue I Pricing Patter G Credit Revenue Credit Revenue I Pricing Patter G Credit Revenue	15% 25% 88,23 \$ Project Year: 105,5% \$88,663	1 \$ 93,539 \$	- \$	- \$	4 109,838 \$	256.16 0.00 256.16 86.23 0.00 88.23 167.33 88.23 5 115.873 4,287,508 19,872 1,1753,289 1,1753,289	00 00 00 00 00 00 00 00 00 00 00 00 00	25% 362.90 442.60 852.3 0.00 852.3 254.58 264.68 7 128.976 \$ 4,772,103 \$ 2,03,610 \$ 2,03,082 \$	0.00 354.38 88.23 0.00 88.23 266.15 352.31 8 136,063 \$5,034,563 \$25,705 \$25,705 \$2,270,560	362.90 629.05 88.23 0.00 88.23 540.62 441.14 3 143.553 5,311,470 \$2.8,051 2.8,051 2.4,74,910	0.00 540.82 88.23 0.00 88.23 452.59 529.37 10 151,443 \$ 5,603,601 \$ 1,000 1	362.90 815.49 88.23 0.00 88.23 727.26 617.59 11 159,778 \$ 5,511,793 \$	0.00 727.26 88.23 0.00 88.23 639.03 705.82 12 168,566 \$ 6,236,348 \$ 3,325,000 \$ 3,3205,000 \$	362.90 1001.93 88.23 0.00 88.23 913.70 794.05 13 177.837 \$ 6.579,380 \$ 177.837	0.00 \$13.70 88.23 0.00 88.23 0.00 88.23 82.547 882.28 14 187,618 \$ 6,941,679 \$ 43,161 3,807,956 \$ 3,807,956 \$	0.00 825.47 88.23 0.00 88.23 737.25 370.50 15 197,337 \$ 197,337 \$ 197,337 \$ 4,50,672 \$	0.00 737.25 88.23 0.00 88.23 64.902 1058.73 16 208.824 \$ 7,726,485 \$ 4,524,832 \$	0.00 643.02 88.23 0.00 68.23 560.73 1146.96 17 220.309 \$ 8,151,442 \$ 55,894 \$ 4,391,413 \$	0.00 560.79 88.23 0.00 88.23 472.56 1235.19 18 232,426 8,599,771 6,0925 5,375,241	0.00 472.56 88.23 0.00 88.23 384.33 1323.42 15 \$ 245,210 \$ 9,072,758 \$ 6,408 \$ 5,859,012	384,33 88,23 0,00 88,23 296,11 1411,64 20 \$ 258,696 \$ 3,571,760	1,412 236 1,708 5485 \$ 105,649,078	sold / u remainin total po total all wetland
nstruction & year 0 (prolesse s 1-55) nessec Credit Robert Credits Available Re Sald Ø Mitterses Total Credits Sold/Year Credit Sold Ø Sult Total Credits Sold/Year Credit Breaters J Mittigation Brak Revenue: I Pricing Plate d Credit Robert First Credits First Cred	15% 25% 88.20 \$ Project Year: 105.5% \$8.663	1 \$ 93,539 \$	- \$	- \$	4 109,838 \$	256.16 0.00 256.16 80.23 0.00 88.23 167.93 88.23 5 115,873 4,287,508 \$ 19,872 \$ 19,872	000 000 167.33 88.23 0.00 88.23 19.71 176.46 6 122,252 \$ 4,523,321 \$ 21,661 \$ 1,110.05 \$ 1 \$ 1,110.05	25% 362.30 442.60 88.23 0.00 88.23 354.38 264.68 7 128,976 4,772,103 \$ 23,610 \$ 2,063,082 \$ 6,685,186 \$	0.00 354.38 88.23 0.00 88.23 266.15 352.31 8 136.063 5,034,569 25,735 2,270,500 1,305,128 2,710,500	362.30 62.05 88.23 0.00 88.23 540.82 441.14 3 3 143.553 5,311.470 \$28,051 2,474,310 2,7765,380	0.00 \$40.62 88.23 0.00 88.23 452.59 529.37 10 151,443 5,603,601 \$ 30,576 \$ 2,657,652 \$ 8,301,253	382.30 815.49 80.23 0.00 88.23 T21.26 617.59 11 159,778 \$ 5,911,799 \$ 33,328 \$ 2,340,441 \$ 8,852,240 \$	0.00 727.26 88.23 0.00 88.23 639.03 705.82 12 168,566 \$ 6,236,348 \$ 36,327 \$ 3,205,000 \$ 3,442,028 \$	362.90 1001.33 88.23 0.00 88.23 913.70 734.05 13 177.837 \$ 6,578,380 \$ 6,578,380 \$ 1 3 3 3,537 \$ 3 3,433,538 } 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 313.70 88.23 0.00 88.23 825.47 882.28 14 187,618 \$ 6,341,873 \$ 43,161 \$ 3,807,356 \$ 10,743,835 \$	0.00 825.47 88.23 0.00 88.23 707.25 870.50 15 197,337 \$ 7,323,663 \$ 47,045 \$ 4,150,672 \$ 4,150,672 \$ 1,1474,354 \$	0.00 137.25 88.23 0.00 88.23 643.02 1058.13 16 208.824 \$ 7,726,485	0.00 643.02 68.23 0.00 88.23 550.73 146.36 17 220,303 \$ 8,151,442 \$ 25,584 \$ 4,331,413 \$ 1,502,855 \$	0.00 560,79 88,23 0.00 88,23 472,56 1235,19 18 232,426 8,599,771 6,0325 6,0325 13,375,012	0.00 472.56 86.23 0.00 86.23 384.33 1323.42 13 \$ 245,210 \$ 9,072,758 \$ 56,408 \$ 5,559,012 \$ 14,331,771	384,33 85,23 0,00 88,23 296,11 411,64 20 \$ 258,696 \$ 3,571,760 \$ 72,385 \$ 6,386,323 \$ 15,358,083	1,412 296 1,708 5485 \$ 105,649,078 \$ 57,864,485 \$ 163,513,563	sold / u remainin total ps total all wetlanc
contraction a year 0 (prolesse s 1.53) mence Credit Release Credits Available, its Sold © Market* 30-04 © Sult* Text Credits Sold/Year Credit Sold/Year Life Credit Sold/Year Credit Sold/Year Credit Sold/Year Life Credit Sold/Year Credit So	15% 25% 88.20 \$ Project Year: 105.5% \$8.663	1 \$ 93,539 \$	- \$	- \$	4 109,838 \$	256.16 0.00 256.16 88.23 0.00 88.23 167.33 88.23 5 115.813 4.287.508 119.812 119.	000 000 16733 88.23 0.00 88.23 175.41 176.46 6 122.252 \$ 4,523,321 \$ 2,1661 \$ 2,1661 \$ 3,110,085 \$ 5,434,405 \$ 1,18224 \$ 1,18224 \$ 2,18224 \$ 3,1822	25% 362.30 442.50 88.23 0.00 88.23 254.58 27 128.376 \$ 4,772,103 \$ 1 2,053,092 \$ 6,855,86 \$ 1 8,055,86 \$ 1 8,	0.00 354.38 88.23 0.00 88.23 266.15 352.91 8 136,063 5,034,563 25,735 2,270,560 1,305,123 1,305,1	362.30 62.30 62.30 6.8.23 0.00 88.83 540.82 441.14 3 143,553 5.311,470 2.051 2.474,310 5.2474,310 5.59,26 5.59,26	0.00 \$40.02 \$6.23 0.00 88.23 452.59 10 151,443 \$ 5,603,601 \$ 10 151,443 \$ 5,603,601 \$ 2,657,652 \$ 8,301,253 \$	362.90 80.23 0.00 80.23 127.26 617.59 11 153,778 \$ 5,911,799 \$ 33,328 \$ 2,940,441 \$ 8,852,240 \$ 731,56 \$	0.00 T27.26 88.23 0.00 88.23 659.03 T05.82 12 16.62566 \$ 6,236,348 \$ 3.205,080 \$ 3.442,028 \$ 775,026	362.90 1001.93 88.23 0.00 88.23 913.70 794.05 13 177,837 \$ 1 6,579,380 \$ 3,397 1 3,3937 1 3,433,538 \$ 10,073,518 \$ 2 521,527	0.00 \$13.70 88.23 0.00 88.23 82.547 882.28 14 187.618 6.941,873 5.3607,956 10,743,835 10,7	0.00 825.47 88.23 0.00 88.23 737.25 370.50 15 197.337 \$ 17,323,683 \$ 4,150,672 \$ 4,150,672 \$ 11,474,354 \$ 323,088 \$	0.00 737.25 88.23 0.00 88.23 64.902 1058.73 16 208.624 \$ 7,726,495 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.00 643.02 68.23 0.00 68.23 550.73 146.56 17 220,303 \$ 20,303 8,151,442 \$ 3 4,531,443 \$ 1,308,255 \$ 1,008,255 \$ 1	0.00 560.79 88.23 0.00 88.23 472.56 1235.19 18 232.426 8.599,771 5.375,241 13,375,012	0.00 472.56 86.23 0.00 65.23 384.33 1323.42 13 \$ 245.210 \$ 9,072,758 \$ 66,408 \$ 5,859,012 \$ 1,165,352	384,33 88,23 0,00 88,23 296,11 1411,64 20 \$ 258,696 \$ 3,571,760 \$ 72,385 \$ 6,395,323 \$ 1,235,273	1,412 296 1,108 5485 \$ 105,649,078 \$ 57,864,485 \$ 103,513,653 \$ 11,376,738	sold / u remain total p: total al wetland
struction by year 0 (prolesse s 1.55) nence Credit Relevable Credits Available to Sold © Markets Sold © Sold Total Credits Sold("Car Credit Reveaters Deley Total Credits Sold("Car Credit Reveaters Deley Damaing Total I Militigation Shak Reveaue: Pricing Pater Of Credit Reveaters Pricing Pater Credits Reveaters Of Credit Reveaters Of Credit Reveaters	15% 25% 68.20 1	1 \$ 93,539 \$	- \$	- \$	4 109,838 \$	256.16 0.00 256.16 86.23 0.00 88.23 167.33 88.23 5 115.873 4,287,508 19,872 1,1753,289 1,1753,289	000 000 167.33 88.23 0.00 88.23 19.71 176.46 6 122,252 \$ 4,523,321 \$ 21,661 \$ 1,110.05 \$ 1 \$ 1,110.05	25% 362.30 442.60 88.23 0.00 88.23 354.38 264.68 7 128,976 4,772,103 \$ 23,610 \$ 2,063,082 \$ 6,685,186 \$	0.00 354.38 88.23 0.00 88.23 266.15 352.31 8 136.063 5,034,569 25,735 2,270,500 1,305,128 2,710,500	362.30 62.30 62.30 6.8.23 0.00 88.83 540.82 441.14 3 143,553 5.311,470 2.051 2.474,310 2.474,310 5.59,26 5.59,26	0.00 \$40.02 \$6.23 0.00 88.23 452.59 10 151,443 \$ 5,603,601 \$ 10 151,443 \$ 5,603,601 \$ 2,657,652 \$ 8,301,253 \$	362.90 80.23 0.00 80.23 127.26 617.59 11 153,778 \$ 5,911,799 \$ 33,328 \$ 2,940,441 \$ 8,852,240 \$ 731,56 \$	0.00 T27.26 88.23 0.00 88.23 659.03 T05.82 12 16.62566 \$ 6,236,348 \$ 3.205,080 \$ 3.442,028 \$ 775,026	362.90 1001.33 88.23 0.00 88.23 913.70 734.05 13 177.837 \$ 6,578,380 \$ 6,578,380 \$ 1 3 3 3,537 \$ 3 3,433,538 } 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 \$13.70 88.23 0.00 88.23 82.547 882.28 14 187.618 6.941,873 5.3607,956 10,743,835 10,7	0.00 825.47 88.23 0.00 88.23 737.25 370.50 15 197.337 \$ 17,323,683 \$ 4,150,672 \$ 4,150,672 \$ 11,474,354 \$ 323,088 \$	0.00 737.25 88.23 0.00 88.23 64.902 1058.73 16 208.624 \$ 7,726,495 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.00 643.02 68.23 0.00 68.23 550.73 146.56 17 220,303 \$ 20,303 8,151,442 \$ 3 4,531,443 \$ 1,308,255 \$ 1,008,255 \$ 1	0.00 560.79 88.23 0.00 88.23 472.56 1235.19 18 232.426 8.599,771 5.375,241 13,375,012	0.00 472.56 86.23 0.00 65.23 384.33 1323.42 13 \$ 245.210 \$ 9,072,758 \$ 66,408 \$ 5,859,012 \$ 1,165,352	384,33 88,23 0,00 88,23 296,11 1411,64 20 \$ 258,696 \$ 3,571,760 \$ 72,385 \$ 6,395,323 \$ 1,235,273	1,412 296 1,108 5485 \$ 105,649,078 \$ 57,864,485 \$ 103,513,653 \$ 11,376,738	sold / or remainitotal ptotal all wetlands
controlled a year 0 (prolesse s 1.53) mence Credit Release Credits Available its Sold © Market > use rate Sold © Sold The Sold Credits Sold Total Credits Sold Credit Sold Total Credits Sold Credit Sold Total Credits Sold Credit Sold Total Credits Sold Total Credit	15% 25% 68.20 1 68.20 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1 \$ 93,539 \$	- \$	- \$	4 109,838 \$	256.16 0.00 256.16 88.23 0.00 88.23 167.33 88.23 5 115.813 4.287.508 119.812 119.	000 000 16733 88.23 0.00 88.23 175.41 176.46 6 122.252 \$ 4,523,321 \$ 2,1661 \$ 2,1661 \$ 3,110,085 \$ 5,434,405 \$ 1,18224 \$ 1,18224 \$ 2,18224 \$ 3,1822	25% 362.30 442.50 88.23 0.00 88.23 254.58 27 128.376 \$ 4,772,103 \$ 1 2,053,092 \$ 6,855,86 \$ 1 8,055,86 \$ 1 8,	0.00 354.38 88.23 0.00 88.23 266.15 352.91 8 136,063 5,034,563 25,735 2,270,560 1,305,123 1,305,1	362.30 62.30 62.30 6.8.23 0.00 88.83 540.82 441.14 3 143,553 5.311,470 2.051 2.474,310 2.474,310 5.59,26 5.59,26	0.00 \$40.02 \$6.23 0.00 88.23 452.59 10 151,443 \$ 5,603,601 \$ 10 151,443 \$ 5,603,601 \$ 2,657,652 \$ 8,301,253 \$	362.90 80.23 0.00 80.23 127.26 617.59 11 153,778 \$ 5,911,799 \$ 33,328 \$ 2,940,441 \$ 8,852,240 \$ 731,56 \$	0.00 T27.26 88.23 0.00 88.23 659.03 T05.82 12 16.62566 \$ 6,236,348 \$ 3.205,080 \$ 3.442,028 \$ 775,026	362.90 1001.93 88.23 0.00 88.23 913.70 794.05 13 177,837 \$ 1 6,579,380 \$ 3,397 1 3,3937 1 3,433,538 \$ 10,073,518 \$ 2 521,527	0.00 \$13.70 88.23 0.00 88.23 82.547 882.28 14 187.618 6.941,873 5.3607,956 10,743,835 10,7	0.00 825.47 88.23 0.00 88.23 737.25 370.50 15 197.337 \$ 17,323,683 \$ 4,150,672 \$ 4,150,672 \$ 11,474,354 \$ 323,088 \$	0.00 737.25 88.23 0.00 88.23 64.9.02 1058.73 16 208.624 \$ 7,726,485 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.00 643.02 68.23 0.00 68.23 550.73 146.56 17 220,303 \$ 20,303 8,151,442 \$ 3 4,531,443 \$ 1,308,255 \$ 1,008,255 \$ 1	0.00 560.79 88.23 0.00 88.23 472.56 1235.19 18 232.426 8.599,771 5.375,241 13,375,012	0.00 472.56 86.23 0.00 65.23 384.33 1323.42 13 \$ 245.210 \$ 9,072,758 \$ 66,408 \$ 5,859,012 \$ 1,165,352	384,33 88,23 0,00 88,23 296,11 1411,64 20 \$ 258,696 \$ 3,571,760 \$ 72,385 \$ 6,395,323 \$ 1,235,273	1,412 296 1,108 5485 \$ 105,649,078 \$ 57,864,485 \$ 103,513,653 \$ 11,376,738	sold / u remain total p: total al wetland
cutruction by year 0 [prichages e 7.55] mace Credit Relaxes Credit Relaxes Credit Relaxes Gredit Available Sould © Bulk Total Perdits Sold/Year Credit Investory Julys Remains Total Mittigation Bush Reveaue: Pricing Pate Credit Sales Pricing Pate Credit Sales Pricing Pate Credit Sales Frican Sa	15% 25% 88.23 88.23 97 105.5% 188.653 105.0% 118.316	\$ 95,533 \$ \$ 14,078 \$ \$	15,345 \$	16,726 \$	103,838 \$ \$ 18,231 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	256.16 0.00 256.16 88.23 0.00 88.23 167.33 88.23 5 115.873 4.287,503 1.753,22	0\$ 0.00 161.33 88.23 0.00 88.23 13.71 176.46 6 122.252 \$ \$ 4.520,321 \$ \$ \$ 21,661 \$ \$ 1,211,085 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	25% 362.90 442.60 88.23 0.00 88.23 354.36 264.66 7 12.85.376 4,772.103 1 23.510 1 2.003.092 1 385.126 1 7 12.40315 1 7	0.00 334.92 88.23 0.00 88.23 266.15 332.31 8 136,063 \$ 5,034,563 \$ 2,270,560 1,2,056,59 1,2,056,59 1,3,056,59	362.30 682.30 5 68.23 0.00 68.23 5 40.82 44.14 3 3 44.14 3 5.314.470 \$ 28.051 \$ 28.051 \$ 24.474.310 \$ 7,785.380 \$ 5.59,437.107 \$ 3	0.00 \$40.02 \$6.23 0.00 88.23 452.59 10 151,443 \$ 5,603,601 \$ 10 151,443 \$ 5,603,601 \$ 2,657,652 \$ 8,301,253 \$	362.90 80.23 0.00 80.23 127.26 617.59 11 153,778 \$ 5,911,799 \$ 33,328 \$ 2,940,441 \$ 8,852,240 \$ 731,56 \$	0.00 T27.26 88.23 0.00 88.23 659.03 T05.82 12 16.62566 \$ 6,236,348 \$ 3.205,080 \$ 3.442,028 \$ 775,026	362.90 1001.93 88.23 0.00 88.23 913.70 794.05 13 177,837 \$ 1 6,579,380 \$ 3,397 1 3,3937 1 3,433,538 \$ 10,073,518 \$ 2 521,527	0.00 \$13.70 88.23 0.00 88.23 82.547 882.28 14 187.618 6.941,873 5.3607,956 10,743,835 10,7	0.00 825.47 88.23 0.00 88.23 737.25 370.50 15 197.337 \$ 17,323,683 \$ 4,150,672 \$ 4,150,672 \$ 11,474,354 \$ 323,088 \$ 323,088 \$	0.00 737.25 88.23 0.00 88.23 64.9.02 1058.73 16 208.624 \$ 7,726,485 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.00 649.02 88.23 0.00 88.23 550.13 116.36 17 220,303 3 55,894 3 55,894 3 15,082,855 3 10,031,153 1 10,001,153 1 14,120,014 3	0.00 560.73 88.23 0.00 88.23 472.56 1235.19 18 232.426 6,539,771 6,0325 15,375.012 10,393.33 15,014,400 18	0.00 472.56 86.23 0.00 86.23 384.33 1323.42 13 \$ 245,210 \$ 9,072,758 \$ 66,408 \$ 5,859,012 \$ 1,165,352 \$ 15,031,123 15	384.33 88.23 0.00 88.23 296.11 1411.64 20 \$ 258,696 \$ 3,571,760 \$ 72,385 \$ 15,396,323 \$ 1,235,273 \$ 17,133,356 20	1,412 296 1,108 5485 \$ 105,649,078 \$ 57,864,485 \$ 103,513,653 \$ 11,376,738	sold / u remainin total pr total all wetlanc
struction by year 0 [prolesse s 1.55] menc Credit Release Credit Release to Sold @ Markets to Sold Province to Credit Revenue to Sold Province to S	15% 25% 68.20 1 68.20 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1 39,533 \$ 1	15,345 \$	16,726 \$ - \$ - \$ - \$ 3	4 109,636 \$ \$ 18,231 \$ \$ - \$ - \$ 4	256.16 0.00 256.16 88.23 0.00 88.23 167.33 88.23 5 115.873 1,5873 1	0% 0.00 167.33 88.23 0.00 178.46 178.	25% 382,30 442,60 482,60 88,23 0.00 88,23 354,36 7 128,376 128,376 128,377 128,377 128,376 128,376 128,376 128,376 128,376 128,376 128,376 128,376 128,376 138	0.00 354.93 88.23 0.00 88.23 88.23 26.615 352.91 8 156.063 \$2 5.034.569 \$2 2.270.560 \$2 2.270.560 \$4 1.350.92 \$2 1.350.92 \$4 1.350.92 \$2 1.350.92 \$4 1	362.30 623.05 88.23 0.00 88.23 9.00 88.23 441.14 9.3 143,553 2.01 2.01 2.01 2.01 2.01 2.01 2.01 2.01	0.00 \$40.82 80.83 0.00 80.83 452.53 10 10 151,443 \$ 5,603,601 \$ 30,576 \$ 2,657,652 \$ 6,301,253 \$ 68,3710 \$ 10 139,377 \$	362.90 815.49 88.23 0.00 88.23 127.26 617.59 11 15.3178 \$ 5.31,739	0.00 T2T.26 88.23 0.00 88.23 639.03 1705.82 12 16.8366 \$ 6,236,948 \$ 1 3.6327 \$ 3,205,000 \$ 3 715,026 \$ 1 10,217,054 \$ 12	362.30 300.33 38.23 300.30 38.23 317.70 734.05 13 317.70 317.70 317.83 1	0.00 913.70 88.23 0.00 88.23 925.47 882.28 14 187.618 6.341.873 1 43.661 3.807.356 870.813 11620.654 14 224.400 8	0.00 825.47 88.23 0.00 88.23 737.25 197.357 197.357 197.357 4.750.672 4.750.672 197.424 152 231.026 15	0.00 137.25 88.23 0.00 88.23 64.9.02 1058.13 16 208.624 \$ 1,726.465 \$ 1 51,279 \$ 4,524,632 \$ 1 512,250,718 \$ 378,452 \$ 1 16 238.066 \$ 1 238.066 \$ 1	0.00 643.02 68.23 0.00 68.23 590.73 1146.36 17 220.303 \$ 8,151,442 \$ 1 55,834 \$ 4,391,413 \$ 1 15,082.855 \$ 1 10,082.855 \$ 1 10,082.855 \$ 1 17	0.00 550.73 88.23 0.00 88.23 472.56 1205.13 18 232.426 8.593,771 6.0,925 1.3,975,012	0.00 472.56 86.23 0.00 86.23 984.33 132.342 13 \$ 245.210 \$ 9,072.758 \$ 5,659.018 \$ 14,331,771 \$ 1,165.552 \$ 16,040 \$ 13	384.33 88.23 0.00 88.23 296.11 1411.64 20 \$ 258.696 \$ 3,571,760 \$ 12,385 \$ 1,385,083 \$ 1,235,273 \$ 17,193,356 20	1,412 296 1,108 5485 \$ 105,649,078 \$ 57,864,485 \$ 103,513,653 \$ 11,376,738	sold / u remainin total pr total all wetlanc
contraction by any Of professor a 1.53) ance Credit Release Testa Credit Release Credit Release Testa Credit Release Credit Release Testa Credit Rel	15% 25% 68.20 1 68.20 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	\$ 33,533 \$ \$ 14,078 \$ \$ 1 4,078 \$ \$ \$ 1 5 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	15,345 \$ - \$ - \$ - \$ 2	16,726 \$ - \$ - \$ 3 - \$ 3 - \$ 3	4 109,636 \$ 18,231 \$ 18,231 \$ 2 \$ 4 166,975 \$ 193,768 \$	256.16 0.00 256.16 99.23 0.00 88.23 161.33 88.23 5 115.813 4.287,508 115.823 115.	0\$ 0.00 161.33 88.23 0.00 188.23 19.71 176.46 6 122.252 \$ 4.523.321 \$ 2.1661 \$ 1.311035 \$ 1.311035 \$ 6.434.405 \$ 1.311035 \$ 6.655.623 \$ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	25% 362.30 442.50 442.50 86.23 0.00 86.23 354.36 126.376 128.376 4,772.103 128.376 128.376 128.376 17 2.55.10 15.25.50 17 18.25.50 17 18.25.50 18.2	0.00 354.92 88.23 0.00 88.23 266.15 352.31 8 156.063 \$ 156.063 \$ 25,135 \$ 25,135 \$ 4,205.23 \$ 61,585 \$ 156.853 \$ 8 161,332 \$ 161,332 \$	362.30 62.30,5 88.23 0.00 88.23 540.62 441.14 3 5,311.470 5 28.051 2.414.310 2.6151 2.6151 3.510,726 3 193,570 193,570 193,570 193,570 193,570	0.00 \$40.82 88.23 452.53 452.53 10 151.449 \$ 5.603.601 \$ 3.0.576 \$ 2.2.591.652 \$ 3.0.253 \$ 5.8.391.023 \$ 10 10 133.377 \$ 166.314 \$ 166.314 \$ 1	362.30 815.49 88.23 0.00 88.23 127.26 617.59 11 159,778 \$ 5,911,799 \$ 33,328 \$ 2,340,441 8,858,240 \$ 173,156 \$ 3,593,396 \$ 11 205,358 \$ 205,358 \$	0.00 127.26 88.23 88.23 63.30.3 105.82 12 168,566 \$: 6,236,548 \$: 3,442,028 \$: 1715,026 \$: 10,217,054 \$: 21,519 \$: 211,519 \$:	362.30 88.23 88.23 913.70 93.7	0.00 913.70 83.23 0.00 88.23 0.25.47 882.28 14 187,618 \$ 6,341,673 \$ 1	0.00 825.47 88.23 0.00 88.23 707.25 197.327 197,337 197,337 47,045 2 47,045 2 323,063 1 12,337,422 15 231,132 15	0.00 137.25 68.23 0.00 88.23 649.02 1058.73 16 208.624 1 7.726.465 1 51,273 1 4,524,632 1 12,250,718 1 13,223,163 1 16 238,066 1 139,304 1	0.00 64.902 88.23 0.00 88.23 500.18 1166.36 17 220,303 3 3 5,151,442 3 55,894 3 4,931,413 1,002,855 3 1 10,031,53 2 14,120,014 3 17 245,208 2 245,208 3	0.00 550.73 68.23 0.00 88.23 472.56 1235.19 18 18 18 18 18 18 18 18 18 18	0.00 472:56 68:23 0.00 88:23 394:33 1322:42 15 \$ 245:210 \$ 56:408 \$ 5,583:012 \$ 14,531,771 \$ 16,037,123 13 \$ 260,141 \$ 217,785	384.33 88.23 0.00 88.23 296.11 1411.64 20 \$ 258,696 \$ 3,571,760 \$ 72,385 \$ 72,385 \$ 72,385 \$ 12352,273 \$ 11,133,356 20 20 20 21 21,141,64 22,431	1,412 296 1,108 5485 \$ 105,649,078 \$ 57,864,485 \$ 103,513,653 \$ 11,376,738	sold / u remainir total pa total all wetland panther total cri
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HCLR Mitigation Bank Trest Fund Calculator																							
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039		
Project Year		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Totals	
mitigation bank revenues						\$ 6,040,796	\$ 6,434,405 \$	6,855,186		7,786,380 \$	8,301,253	\$ 8,852,240 \$ 3	9,442,028 \$	10,073,518	10,749,835	11,474,354	\$ 12,250,718	\$ 13,082,855	\$ 13,975,012 \$	14,931,771	\$ 15,958,083	\$ 163,513,563	MB income
build Trust Fund principle @ 50% of credit sales 50	4					\$ 3,020,398	\$ 3,217,203 \$	3,427,593	5 - 5	- 5	-	5 - 5	. 1				\$.	s ·	\$ - \$		\$.	\$ 9,665,194	TF principle
Interest earned 67							\$ 181,223.89 \$	385,129	\$ 613,893 \$	650,726 \$	689,770	\$ 731,156 \$	775,026	821,527	870,819	923,068	\$ 978,452	\$ 1,037,159	\$ 1,099,389 \$	1,165,352	\$ 1,235,273	\$ 12,157,962	interest earned
Trust Fund cumulative principle + interest						\$ 3,020,398	\$ 6,418,825 \$	10,231,547	\$ 10,845,440 \$	11,436,166 \$	12,185,936	12,917,092	13,692,118	14,513,645	15,384,464	16,307,532	\$ 17,285,983	\$ 18,323,142	\$ 19,422,531 \$	20,587,883	\$ 21,823,156	\$ 21,823,156	total TF value

Performance Table contents close up

A: Mitigation Credit Inventory		Credits Released
Total Wetland Credits Authorized	3777.25	
Tract 1	1614.40	
Tract 2	713.25	
Tract 4	60.00	
Tract 5	1389.60	
Stream Credit-Feet Authorized	0.00	
Total Florida Panther Credits Authorized	1707.75	
Tract 1	403.60	
Tract 2	237.75	
Tract 4	140.00	
Tract 5	926.40	
Total Potential Credit-Acres (1:1 ratio)	5485.00	
Fotal Approved Linear Feet-Credits (Stream)	0	
B: Mitigation Credit Release and Sale		
🚣 Wetland / Riparian Credit Release Schedul	3777.25	credit-acres
Pre-Construction & year 0 (prelease = 15%)	15%	
Performance Credit Releases	25%	
Credits Available		
Credits Sold @ Market> use rate	37.00	
Credits Sold @ Bulk	S -	
Total Credits Sold/Year		
Ending Credit Inventory:		
Credit Sales Running Total		
Orean Gales Naming Total		
Stream Credit Release Schedule	0	linear foot-credits
Pre-Construction & year 0 (prelease = 15%)	15%	0.0
		0.0
Performance Credit Releases	25%	
Available Credits		
Credits Sold @ Market> use rate	6%	
Credits Sold @ Bulk	\$ -	
Total Credits Sold/Year		
Ending Credit Inventory:		
Total Credit Sales to Date		
Florida panther	1707.75	credit-acres
Pre-Construction & year 0 (prelease = 7.5%)	15%	
Performance Credit Releases	25%	
Credits Available	2570	
	88.23	
	00.23	
Credits Sold @ Market> use rate	er.	
Credits Sold @ Market> use rate Credits Sold @ Bulk	\$ -	
Credits Sold @ Market> use rate Credits Sold @ Bulk Total Credits Sold/Year	\$ -	
Credits Sold @ Market> use rate Credits Sold @ Bulk	\$ -	

C: Total Mitigation Bank Revenue:	
Market Pricing Rate:	105.5%
Wetland Credit Revenue	\$88,663
Market Pricing Rate:	0%
Stream Credit Revenue	\$0
Market Pricing Rate:	109.0%
Panther Credit Revenue	\$12,916
MB Credit Sales Revenue	
Trust Fund Interest Earned	
Total MB Revenues	
	Project Year:
D. Other Income (Potential Compatible Uses)	
Market Pricing Rate:	103%
Tract 1 grazing, timber, hunting, tourism]
Tract 2 grazing, timber, hunting, tourism	
Tract 5 grazing, timber, hunting, tourism	
Compatib	le Use annual totals
	Project Year:
E. Mitigation Bank Costs:	
Land Cost per acre	\$ 3,300
Mineral rights - cost of Right of Entry Release	30%
Annual Cost Adjustment (CPI)	103%
Management (Operation & Maintenance)	\$ 753,597
Trust Fund Costs	
Construction & Implementation (Capital))	\$ 6,129,040
Subtotal (minus Land)	
Contingency	5%
Total Annual Costs:	
	Project Year:
F. Mitigation Bank Net Income:	
Net Present Value (NPV) @	5.00%
Net Present Value (NPV) @	10.00%
Net Present Value (NPV) @	15.00%
CONCLUSIONS	
Net Present Value @	5.00%
Net Present Value @	10.00%
Net Present Value @	15.00%

Mit-bank performance results were not uniform across the various options.

Why? Because Tract characteristics varied.

Biggest challenge? Credit demand was small.

Purchase of Tract 2 made the most immediate business sense.

Key Project Financials (20 years)				
Land purchase price		\$	18,100,	500
Mineral Rights		\$	5,430,	150
Start up capital required		\$	6,898,	289
Management costs		\$	20,249,	431
Trust Fund Costs		\$	12,559,	948
Total MB costs		\$	62,026,	571
MB gross earnings		\$	187,392,	959
MB net earnings (ROI \$)		\$	125,366,	388
Base Return on Investment (no NPV)			202%	
		5.00%	124%	
	1	0.00%	76%	
	1	5.00%	45%	

	Comparing Tract Per	orma	nces		
	Tract 1		Tract 2	Tract 4	Tract 5
	\$ 6,659,400	\$	3,138,300	\$ -	\$ 7,642,800
	\$ 1,997,820	\$	941,490	\$ -	\$ 2,292,840
	\$ 2,987,349	\$	1,585,183	\$ -	\$ 2,977,281
	\$ 8,816,048	\$	5,297,323	\$ -	\$ 9,798,784
	\$ 5,468,258	\$	3,285,727	\$ -	\$ 6,077,812
	\$ 31,130,608	\$	21,413,625	\$ -	\$ 33,422,608
	\$ 187,392,959	\$	187,392,959	\$ -	\$ 187,392,959
	\$ 156,262,355	\$	165,979,334	\$ -	\$ 153,970,351
NPV/ROI Options	502%		775%	\$ -	461%
5%	317%		717%		290%
10%	214%		502%		195%
15%	150%		367%		135%

Case Study Lessons

- Lesson 1 Mitigation credits can be bona fide indicators of land value and important sources of business revenue.
- Lesson 2 Mitigation credits, although intangible assets, have known market value. That value can be recognized for purposes of debt financing.
- Lesson 3 Developing a mitigation bank can be costly, and isn't always necessary. Just knowing the *potential* mitigation credit (eco-asset) value can boost land sale prices.
- Lesson 4 The gift value of land, and the related tax offset, can increase by taking eco-asset values into consideration. This is also true when figuring estate value.
- Lesson 5 Attractive ROI is not always the determining factor in project decision making.
- Lesson 6 Mitigation credits don't always generate attractive ROI.
- Lesson 7 Some mitigation credit markets may be saturated.
- Lesson 8 Hard eco-asset market value is not everything. 'Soft' EAV can build willingness to pay for a highly attractive property, especially if advocated by a reputable source.
- <u>Lesson 9</u> It's not all about the size and diversity of a potential mitigation bank site. Development costs and market conditions are critical determinants of project success.

Case Study 9: A 1700 acre ranch in **Thurston County, WA** was offered for sale by the landowner in 2018.

The ranch holds valuable wetland and stream features, as well as land occupied by the rare Mazama pocket gopher. Oregon white oak is also present, representing three creditable eco-asset types.

Developers want to buy this property; the owner wants to conserve it.

The State Dept. of Ecology wants to acquire it as a wildlife preserve.

The Conservation Fund made an offer of \$9M or \$5300/ac, but the landowner thinks it is worth more. He turned to EASI.



Tenino,



EASI estimated a total of \$43M in gross eco-asset value for wetlands, MPG and OWO mitigation credits.

At 5% discount rate over 20 years, EASI estimated mitigation bank ROI will be 5.5:1.

A subsequent appraisal conducted by Kidder Mathews affirmed the mit-credit values, extended the mit-bank performance period to 30 years and applied an 18.2% discount rate.

KM affirmed that mitigation banking was highest and best use and estimated \$12M in mit-bank value (\$8600/ac).

Conservation Fund acted as though they never heard of land mitigation credit value! But their own website showed otherwise.

The landowner's counteroffer is likely to be \$14M.





Managing Mitigation Funds to Conserve Bird Habitat



Conservation Banking on the Rise in Texas



In Wyoming, Using Mitigation To Benefit Family Ranches

Case Study Lessons

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- Lesson 9 It's not all about the size and diversity of a potential mitigation bank site. Development costs and market conditions are critical determinants of project success.

ANDFLIP

LOTFLIP

RANCHFLIP

<u>Lesson 10</u> – Knowledgeable buyers will underbid eco-asset rich properties knowing they can be flipped.



As For the Future...



Eco-Asset Solutions & Innovations LLC

San Francisco and South Lake Tahoe 01-415-706-6154 info@easillc.com





Selling rural land can be easier if the eco-asset values are known!



DOWNLOAD SALES FLYER

PROPERTY TYPE: Cattle, Equestrian, Farms and Ranches, Fishing

and Hunting, Homes and Cabins, Recreation, Waterfront

N3 CATTLE COMPANY

Livermore, California

\$72,000,000 | 50,500 +/- Acres | Santa Clara

County





SEND TO A FRIEND

Todd Renfrew Office: (707) 455-4444 Fax: (707) 455-0455

Contact Todd About Todd View All of Todd 's Listings What if the prop description included this:

"Ranch carries \$625M in developable ecological assets"

PROPERTY DESCRIPTION:

The iconic N3 Cattle Company is on the market for the first time in 85 years. This beautiful and expansive California property spans 50,500 acres through four counties, making it the largest land offering in the State of California. Located just south of Livermore, and east of Oakland and San Jose, it is easily accessed from San Francisco, the Peninsula and the East Bay. The Ranch is completely private and uniquely preserved, healthy and wild as it has been for hundreds of years. It is a vital and rare haven of original California landscape and wildlife. The property encompasses 80 square miles of diverse terrains, flora, fauna, and important watersheds and creeks. N3 has been a working cattle ranch for 85 years and offers a rare look at a way of life quickly disappearing. Sprinkled with a dozen rustic cabins, the ranch also hosts one of the most famous, sustainable hunting operations in the state. Its owners are fourth-generation ranchers

and are respected members of the ranching

community. The ranch is enrolled in the Williamson

Act and has no conservation easements.

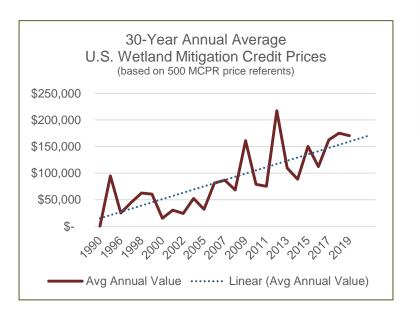
We've shown real world examples, not speculation.

The lessons apply to all large rural properties.

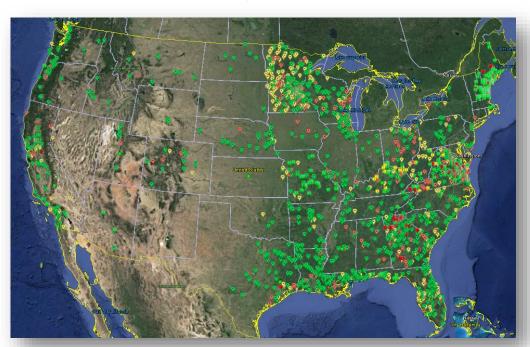
About 1600 commercial mitigation banks have produced nearly \$300 *billion* in assets.

In California, 140 commercial mit-banks have produced about \$11 billion in assets.

The 2019 mit-credit trend chart looks like this:



U.S. Mitigation Banks



This is a national movement; there's no going back even if political winds shift now and then. Key questions include:

- How fast will the eco-asset value movement expand?
- Does 'early entry' still apply to mitigation banking after 30 years?
- When will real estate professionals uniformly apply new methods?

The net effect so far has been to dramatically increase land conservation in the U.S.

~ Agency resource managers and NGOS couldn't be happier about the attention given to natural capital.

AND ... we have seen an increase in the utility and market value of private lands (farms & ranches).

Land appraisal methods now have to catch up. Rural land is worth more than you thought it was!

Highest and best use determinations need to consider eco-asset revenue potential.

In summary:

- Eco-assets are like any other natural resource that is anchored to the land – water, minerals, or oil & gas
- Mitigation credits are intangible assets fixed to clearly defined conservation acres; i.e., tangible property
- Eco-assets are subject to common natural resource development and market considerations.
- Landowners *deserve to know* about these largely unknown land value / revenue components.
- Real estate agents and Appraisers are the ones to tell 'em.



'As for the future'...

EASI and its affiliates want to reach as many private landowners as possible over the next two years.

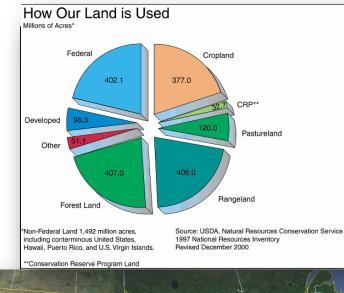
We are targeting landowners holding 1,000-10,000 acres where economies of scale come into play. Rangeland is high priority.

(Imagine how many \$\$ billions in land assets might be revealed!)

Ranch lands are preferred because they usually include diverse habitat types – from wetlands to woodlands and scrub-sage.

<u>Timber lands</u> will benefit where the landowner is open to conservation-oriented revenue streams.

Properties in <u>active eco-asset markets</u> are ideal.





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Ecological Assets Boost Western Farm and Ranch Land Value

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Ecological Assets Boost Western Farm and Ranch Land Value

JANUARY 15, 2019 BY EINNEWS

A potential mitigation bank near Olympia, Washington. Ecological assets contribute about \$40,000 per acre in gross land value for mid-to-large sized Western farms an EASI confirmed today that ecological assets contribute an average of about \$40,00 gross land value for mid-to-large sized Western farms and ranches."— William Cold



Ecological Assets Boost Western Farm and Ranch Land Value

Ecological assets contribute an average of about \$40,000 per acre in gross land value for mid-to-large sized Western farms and ranches.

SAN FRANCISCO, CALIFORNIA, UNITED STATES, January 15, 2019 /EINPresswire.com/ -- San Francisco (EASI) - Eco-Asset Solutions and Innovations (EASI) confirmed today that ecological assets contribute an average of about \$40,000 per acre in gross land value for mid-to-large sized farms and ranches in the Western region, according to William Coleman, EASI's founder and CEO.

The company has just completed its 11th eco-asset value study in the past two years. "People are surprised to



A potential mitigation bank near Olympia, Washington.

learn how much value lies in land-based ecological assets," said Coleman. "They can't imagine that that tens of thousands of dollars in per-acre value might have gone unseen for so long,"

About Eco-Assets



EASI confirmed today that ecological assets contribute Ecological assets, eco-assets for short, include compensatory mitigation credits for protection of wetlands and streams, rare species and habitats, for prevention of nutrient runoff, and for forest and soil carbon requestration. Esp Assets have been around since the

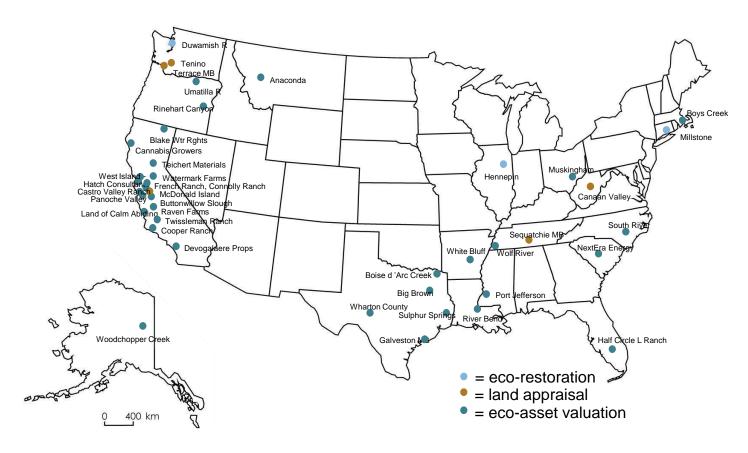




For more information: info@easillc.com 415-706-6154

EASI has been leading the way. Find out more on the Web!

We seek landowners, real estate agents, appraisers and investors who want to benefit from these developing eco-asset markets.





Eco-Asset Solutions & Innovations

'Real value from investing in nature'



