



Site Name/ID: Fire Station

Watershed: Solitude

Date: 1/25/11

Assessed by: MW/KR

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info: Corporal ^{Michael} Henry - 643-8012 (D shift)
Fire Chief for Demo project

Land Use: Public Private Unknown:

Single Family Residential Multi-Fam. Residential School Golf Course Park Agricultural Road
 Commercial/Industrial Resort Marina Other: municipal facilities

Is the site a hotspot? Yes No Unknown: could be some floor drain issues
Sources/pollutants observed? No Sediment Nutrients/organics Oil/grease Trash/Floatables

Existing Stormwater BMP on site? Yes No Unknown:

Soils: Unknown poor infiltration good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance:
- Noted rec facility - Ball onsite, went to do a community center
- Police Substation to be constructed?
- very flat area at bottom of watershed. Gut directly adjacent to property

PROPOSED RETROFIT CONCEPT (CONT. ON BACK)

Proposed Retrofit Practice(s): existing BMP upgrade new BMP

island bio/rain garden swale planter tree pits infiltration permeable paver sand filter pond
 constructed wetland proprietary practice soil amendments reforestation impervious cover removal
 rainwater harvesting disconnection Other (describe):

Area Draining to Retrofit <input type="checkbox"/> Hotspot <input type="checkbox"/> Individual rooftop <input checked="" type="checkbox"/> Parking Lot <input type="checkbox"/> other small impervious area <input checked="" type="checkbox"/> Street <input type="checkbox"/> Pervious area <input type="checkbox"/> Other (describe):	Drainage Area to retrofit ≈ _____ acres/sq ft Imperviousness ≈ _____ % Impervious Area ≈ _____ acres/sq ft
---	---

Benefits of Retrofit (primary & secondary): Storage Water Quality Recharge Gut Protection Demonstration / Education Repair Other:

Possible Conflicts due to: <input type="checkbox"/> Soils <input type="checkbox"/> Access <input type="checkbox"/> Adjacent Land Use <input type="checkbox"/> Existing Utilities <input type="checkbox"/> Contamination <input type="checkbox"/> High water table <input type="checkbox"/> Limited access to water <input type="checkbox"/> Other:	Describe conflicts: <u>None - very willing fire corporal D-shift</u>
--	--

NEXT STEPS

Candidate for pilot project yep, love it OK undecided no, but keep listed no way

Follow-up needed to Complete Field Concept

<input type="checkbox"/> Confirm property ownership	<input type="checkbox"/> Obtain existing as-builts/site plans	<input type="checkbox"/> Obtain utility mapping
<input checked="" type="checkbox"/> Confirm drainage area/impervious cover	<input type="checkbox"/> Obtain detailed topography	<input type="checkbox"/> Confirm soil types
<input checked="" type="checkbox"/> Confirm volume computations	<input type="checkbox"/> Confirm storm drain invert elevations	
<input checked="" type="checkbox"/> Complete concept sketch	<input type="checkbox"/> Other:	

PROPOSED RETROFIT CONCEPT (CONT.)

Narrative Description (Including key elements, aprox. surface area/ depth of treatment, conveyance structures):

Combine with Community center concept - demonstration area with signage. Island bias for road runoff + some fire station / bus stop runoff.

Sketch and/or Sizing Calcs:

see aerial

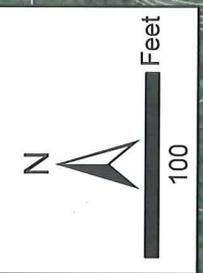
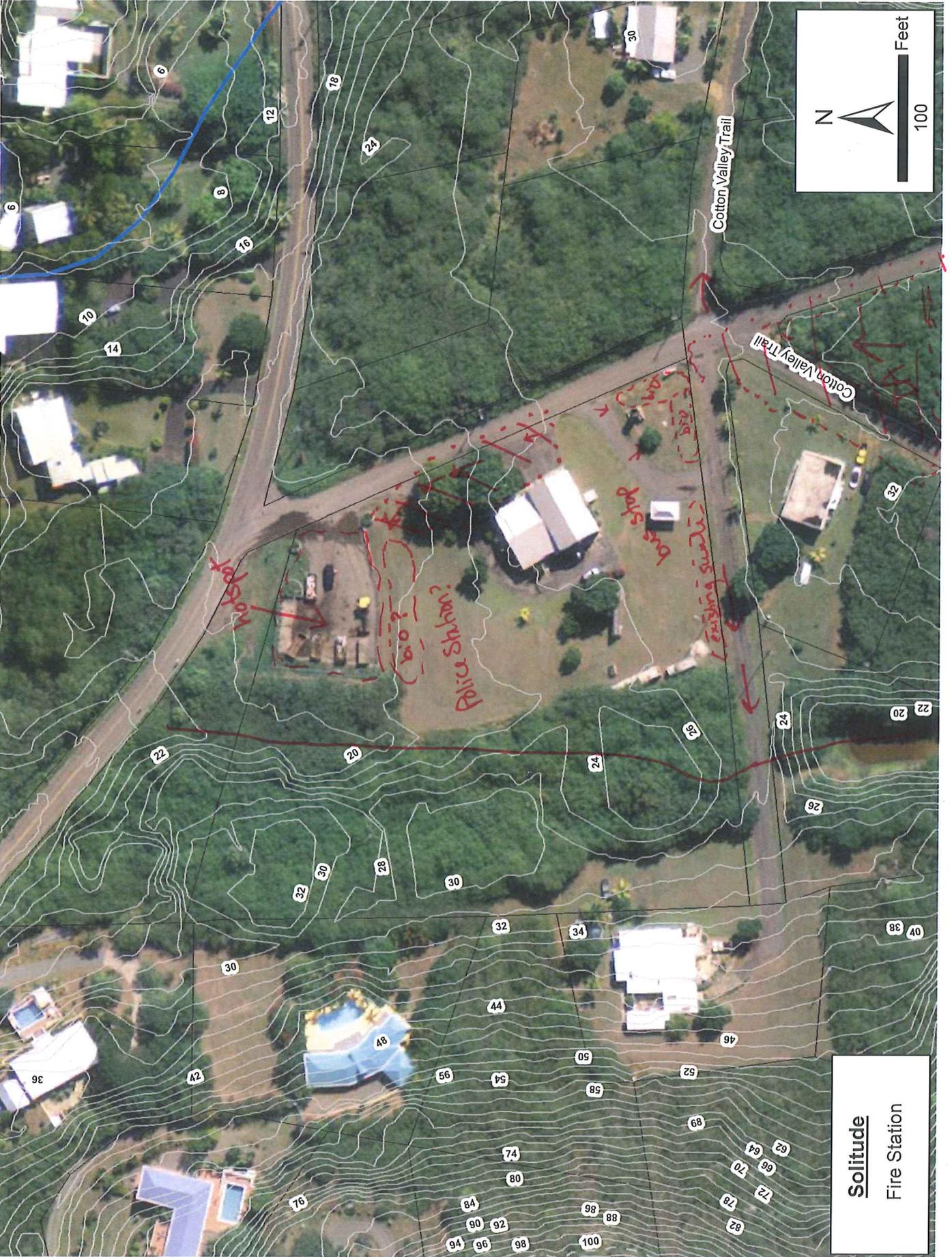
Existing Head Available/Where Measured:

very shallow grades

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High

fire guys looking for things to do!



Solitude
Fire Station

STX EE WATERSHEDS

RETROFITS



Site Name/ID: SBR-02 Blue Water Terrace Watershed: Solitude

Date: 1/25/11 Assessed by: muw/kr

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info: Stephanie
340 W 42nd - 692 - 2583
Dr Laine/Paulie - owners

Land Use: Public Private Unknown:

Single Family Residential Multi-Fam. Residential School Golf Course Park Agricultural Road
 Commercial/Industrial Resort Marina Other: Restaurant

Is the site a hotspot? Yes No Unknown:
Sources/pollutants observed? No Sediment Nutrients/organics Oil/grease Trash/Floatables

Existing Stormwater BMP on site? Yes No Unknown: cisterns

Soils: Unknown poor infiltration good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance:

- unpaved parking lot at restaurant. No gullying yet -> new site. High-end restaurant with good education potential. Hotspot issues with cleaning products/location and too dumpster juice. A lot of space for bios. Riparian buffer encroachment. 2 separate bio locations.

PROPOSED RETROFIT CONCEPT (CONT. ON BACK)

Proposed Retrofit Practice(s): existing BMP upgrade new BMP

island bio/rain garden swale planter tree pits infiltration permeable paver sand filter pond
 constructed wetland proprietary practice soil amendments reforestation impervious cover removal
 rainwater harvesting disconnection Other (describe):

Area Draining to Retrofit

Hotspot Individual rooftop
 Parking Lot other small impervious area
 Street Pervious area
 Other (describe):

Drainage Area to retrofit \approx 2 acres/sq ft

Imperviousness \approx 60 %

Impervious Area \approx 1.2 acres/sq ft

Benefits of Retrofit (primary & secondary): Storage Water Quality Recharge Gut Protection
Demonstration / Education Repair Other:

Possible Conflicts due to: Soils Access
 Adjacent Land Use Existing Utilities
 Contamination High water table
 Limited access to water Other:

Describe conflicts:

None - perfect location

NEXT STEPS

Candidate for pilot project yep, love it OK undecided no, but keep listed no way

Follow-up needed to Complete Field Concept

Confirm property ownership Obtain existing as-builts/site plans Obtain utility mapping
 Confirm drainage area/impervious cover Obtain detailed topography Confirm soil types
 Confirm volume computations Confirm storm drain invert elevations
 Complete concept sketch Other:

PROPOSED RETROFIT CONCEPT (CONT.)

Narrative Description (Including key elements, aprox. surface area/ depth of treatment, conveyance structures):

two island bios

Sketch and/or Sizing Calcs:



Existing Head Available/Where Measured:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High

STX EE WATERSHEDS

SBR-03

RETROFITS



Site Name/ID: Seven flaggs Rd

Watershed: Solitude

Date: 1/25/11

Assessed by: MW/KR

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info:

Land Use: Public Private Unknown: Private residences / public Road
 Single Family Residential Multi-Fam. Residential School Golf Course Park Agricultural Road
 Commercial/Industrial Resort Marina Other: _____

Is the site a hotspot? Yes No Unknown:
Sources/pollutants observed? No Sediment Nutrients/organics Oil/grease Trash/Floatables

Existing Stormwater BMP on site? Yes No Unknown:

Soils: Unknown poor infiltration good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance:
Gut follows along road -> major erosion, road is threatened
Blocked culverts at downstream end, convergence of 2
guts
Potential area behind ^{new} upstream lets for storage

PROPOSED RETROFIT CONCEPT (CONT. ON BACK)

Proposed Retrofit Practice(s): existing BMP upgrade new BMP
 island bio/rain garden swale planter tree pits infiltration permeable paver sand filter pond
 constructed wetland proprietary practice soil amendments reforestation impervious cover removal
 rainwater harvesting disconnection Other (describe): _____

Area Draining to Retrofit <input type="checkbox"/> Hotspot <input type="checkbox"/> Individual rooftop <input checked="" type="checkbox"/> Parking Lot <input checked="" type="checkbox"/> other small impervious area <input checked="" type="checkbox"/> Street <input type="checkbox"/> Pervious area <input type="checkbox"/> Other (describe): _____	Drainage Area to retrofit ≈ _____ acres/sq ft Imperviousness ≈ _____ % Impervious Area ≈ _____ acres/sq ft
--	---

Benefits of Retrofit (primary & secondary): Storage Water Quality Recharge Gut Protection
Demonstration / Education Repair Other: _____

Possible Conflicts due to: <input type="checkbox"/> Soils <input checked="" type="checkbox"/> Access <input checked="" type="checkbox"/> Adjacent Land Use <input type="checkbox"/> Existing Utilities <input type="checkbox"/> Contamination <input type="checkbox"/> High water table <input type="checkbox"/> Limited access to water <input type="checkbox"/> Other: _____	Describe conflicts:
--	----------------------------

NEXT STEPS

Candidate for pilot project yep, love it OK undecided no, but keep listed no way

Follow-up needed to Complete Field Concept
 Confirm property ownership Obtain existing as-builts/site plans Obtain utility mapping
 Confirm drainage area/impervious cover Obtain detailed topography Confirm soil types
 Confirm volume computations Confirm storm drain invert elevations
 Complete concept sketch Other: _____

PROPOSED RETROFIT CONCEPT (CONT.)

Narrative Description (Including key elements, aprox. surface area/ depth of treatment, conveyance structures):

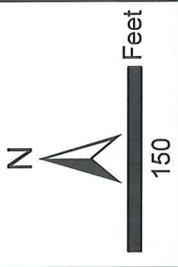
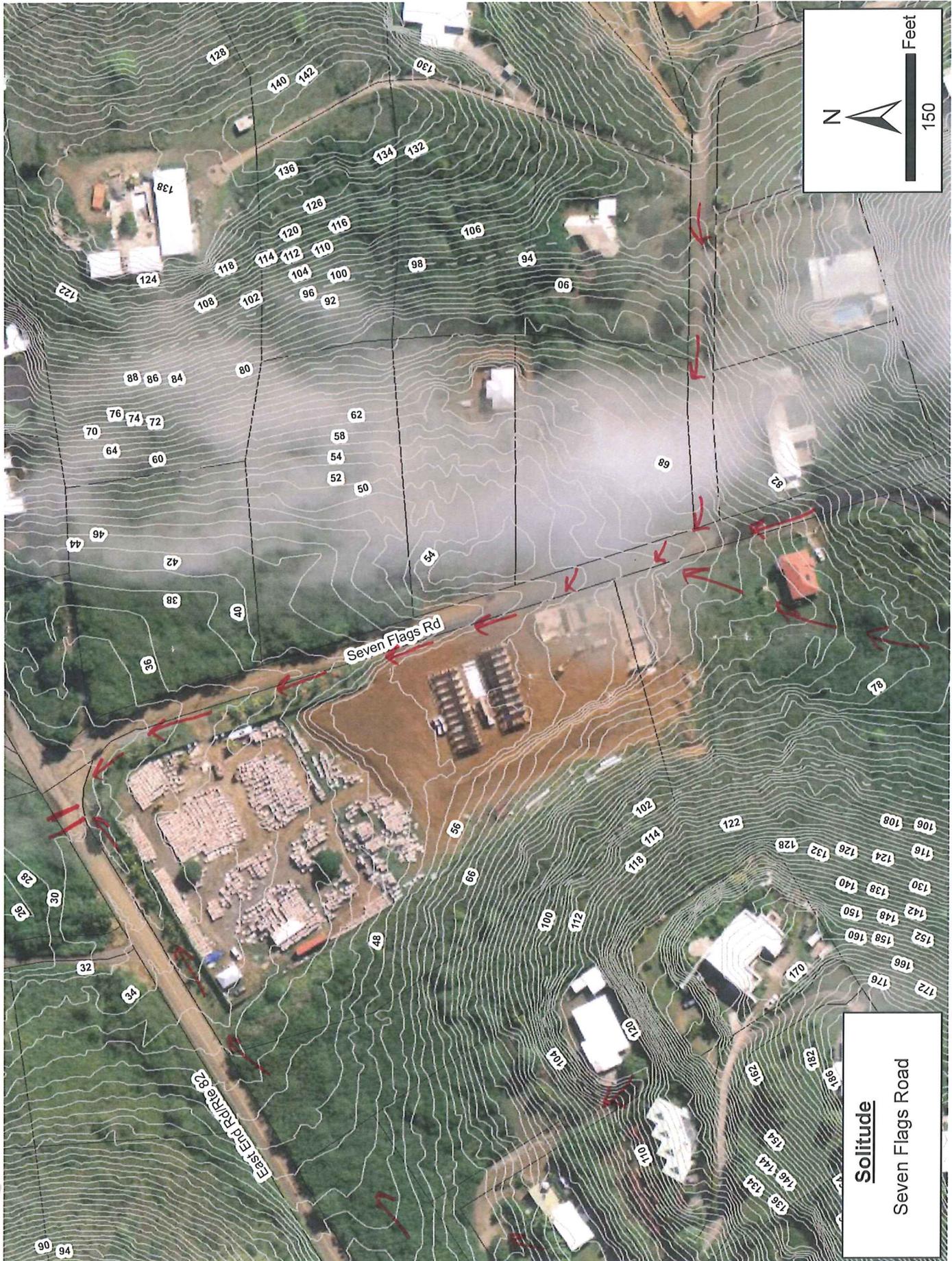
Desperately need to pave road and put in stormwater infrastructure along road. Possibility for on-lot storage retrofits to help slow/reduce quantity. New houses added to issue!
- divert some of road drainage behind houses -
pot. treat in series

Sketch and/or Sizing Calcs:

Existing Head Available/Where Measured:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Solitude
Seven Flags Road

STX EE WATERSHEDS

RETROFITS



Site Name/ID: SB-R-04 Gas-Roti

Watershed: Solitude

Date: 1/25/11

Assessed by: MW/KR

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info: Mike Ziegler 773-8382

Land Use: Public Private Unknown:
 Single Family Residential Multi-Fam. Residential School Golf Course Park Agricultural Road
 Commercial/Industrial Resort Marina Other: gas station

Is the site a hotspot? Yes No Unknown:
Sources/pollutants observed? No Sediment Nutrients/organics Oil/grease Trash/Floatables

Existing Stormwater BMP on site? Yes No Unknown: catch basin

Soils: Unknown poor infiltration good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance:
Catchbasin - 30 in pipe discharges to Coakley Bay via 48" pipe through Ruban Roebuk's property
Downstream 48" culvert - sinkholes around manholes - hazard, corroded - need to
- capacity fine - no observed flooding - DRW has been contacted - est. \$42,000 - fix whole system

PROPOSED RETROFIT CONCEPT (CONT. ON BACK)

Proposed Retrofit Practice(s): existing BMP upgrade new BMP
 island bio/rain garden swale planter tree pits infiltration permeable paver sand filter pond
 constructed wetland proprietary practice soil amendments reforestation impervious cover removal
 rainwater harvesting disconnection Other (describe):

Area Draining to Retrofit Hotspot Individual rooftop Parking Lot other small impervious area Street Pervious area Other (describe):
Drainage Area to retrofit ≈ _____ acres/sq ft
Imperviousness ≈ _____% 615
Impervious Area ≈ _____ acres/sq ft

Benefits of Retrofit (primary & secondary): Storage Water Quality Recharge Gut Protection
Demonstration / Education Repair Other:

Possible Conflicts due to: Soils Access Adjacent Land Use Existing Utilities - maybe Contamination High water table Limited access to water Other: Pavement
Describe conflicts: Existing parking lot

NEXT STEPS

Candidate for pilot project yep, love it OK undecided no, but keep listed no way

Follow-up needed to Complete Field Concept
 Confirm property ownership Obtain existing as-builts/site plans Obtain utility mapping
 Confirm drainage area/impervious cover Obtain detailed topography Confirm soil types
 Confirm volume computations Confirm storm drain invert elevations
 Complete concept sketch Other:

PROPOSED RETROFIT CONCEPT (CONT.)

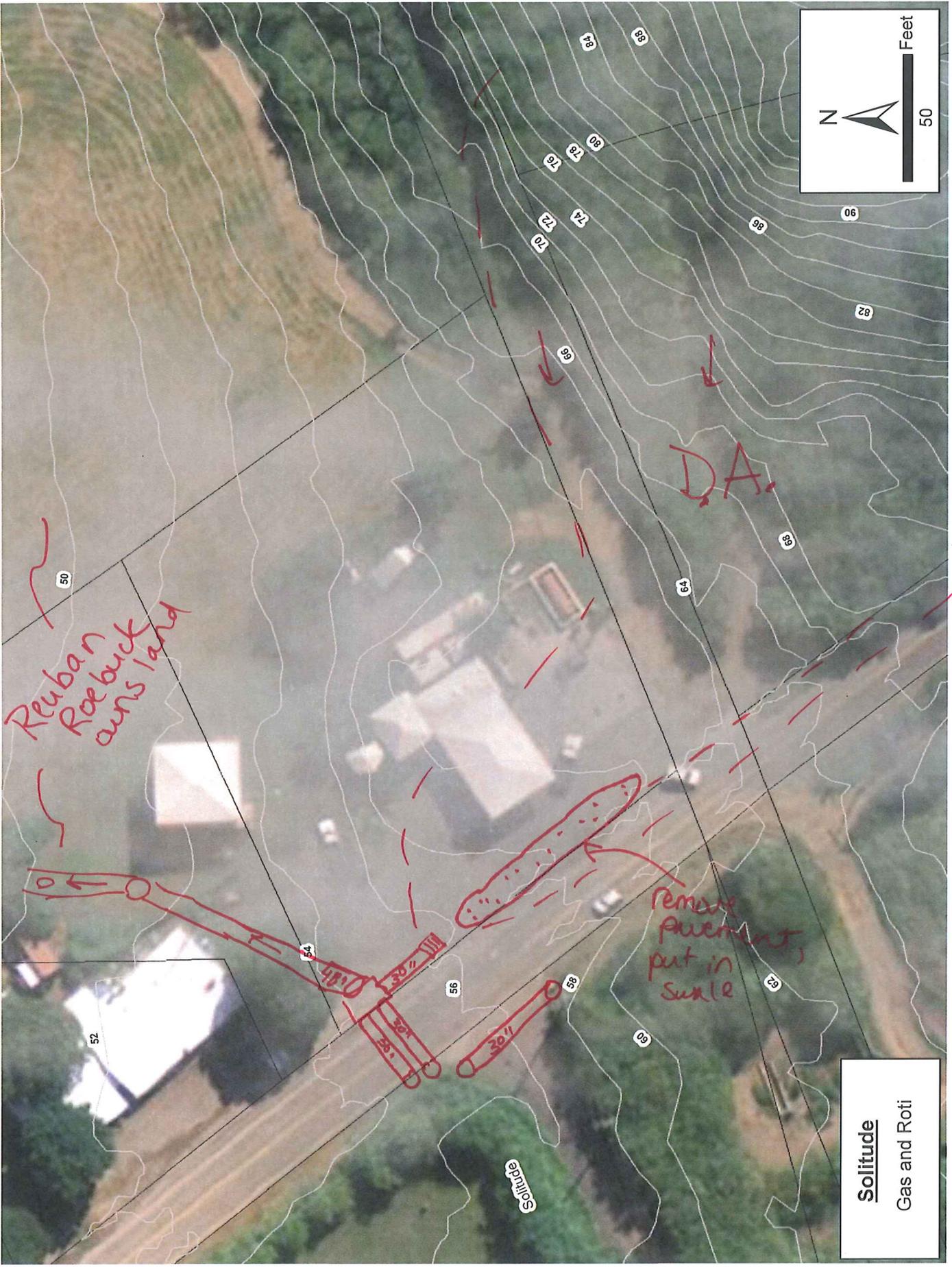
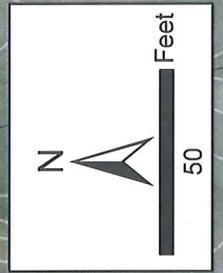
Narrative Description (Including key elements, aprox. surface area/ depth of treatment, conveyance structures):

Sketch and/or Sizing Calcs:

Existing Head Available/Where Measured:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Solitude
Gas and Roti

STX EE WATERSHEDS

RETROFITS



Site Name/ID: SB-R-05 *Coakley Bay Condos*

Watershed: Salitude

Date: 1/26/11

Assessed by: MW/KR

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info: *Eric Zolner - General Manager
general.manager@coakleybay.org
340-773-9600* *Pam Leach
office manager*

Land Use: Public Private Unknown:
 Single Family Residential Multi-Fam. Residential School Golf Course Park Agricultural Road
 Commercial/Industrial Resort Marina Other: _____

Is the site a hotspot? Yes No Unknown:
Sources/pollutants observed? No Sediment Nutrients/organics Oil/grease Trash/Floatables

Existing Stormwater BMP on site? Yes No Unknown: *concrete channels*

Soils: Unknown poor infiltration good infiltration *B/C*

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance:
steep site with a lot of parking/driveway. Runoff directed around property in a series of concrete ditches/channels. one area where ponding has occurred and condo ass. putting in curb/pvc drains.

PROPOSED RETROFIT CONCEPT (CONT. ON BACK)

Proposed Retrofit Practice(s): existing BMP upgrade new BMP
 island bio/rain garden swale planter tree pits infiltration permeable paver sand filter pond
 constructed wetland proprietary practice soil amendments reforestation impervious cover removal
 rainwater harvesting disconnection Other (describe): *Sediment forebays*

Area Draining to Retrofit Hotspot Individual rooftop Parking Lot Street Other (describe):
 other small impervious area Pervious area
Drainage Area to retrofit ≈ _____ acres/sq ft
Imperviousness ≈ _____ %
Impervious Area ≈ _____ acres/sq ft

Benefits of Retrofit (primary & secondary): Storage Water Quality Recharge Gut Protection
Demonstration / Education Repair Other: _____

Possible Conflicts due to: Soils Access Adjacent Land Use Existing Utilities
 Contamination High water table Limited access to water Other:
Describe conflicts:

NEXT STEPS

Candidate for pilot project yep, love it OK undecided no, but keep listed no way

Follow-up needed to Complete Field Concept
 Confirm property ownership Obtain existing as-builts/site plans Obtain utility mapping
 Confirm drainage area/impervious cover Obtain detailed topography Confirm soil types
 Confirm volume computations Confirm storm drain invert elevations
 Complete concept sketch Other:

PROPOSED RETROFIT CONCEPT (CONT.)

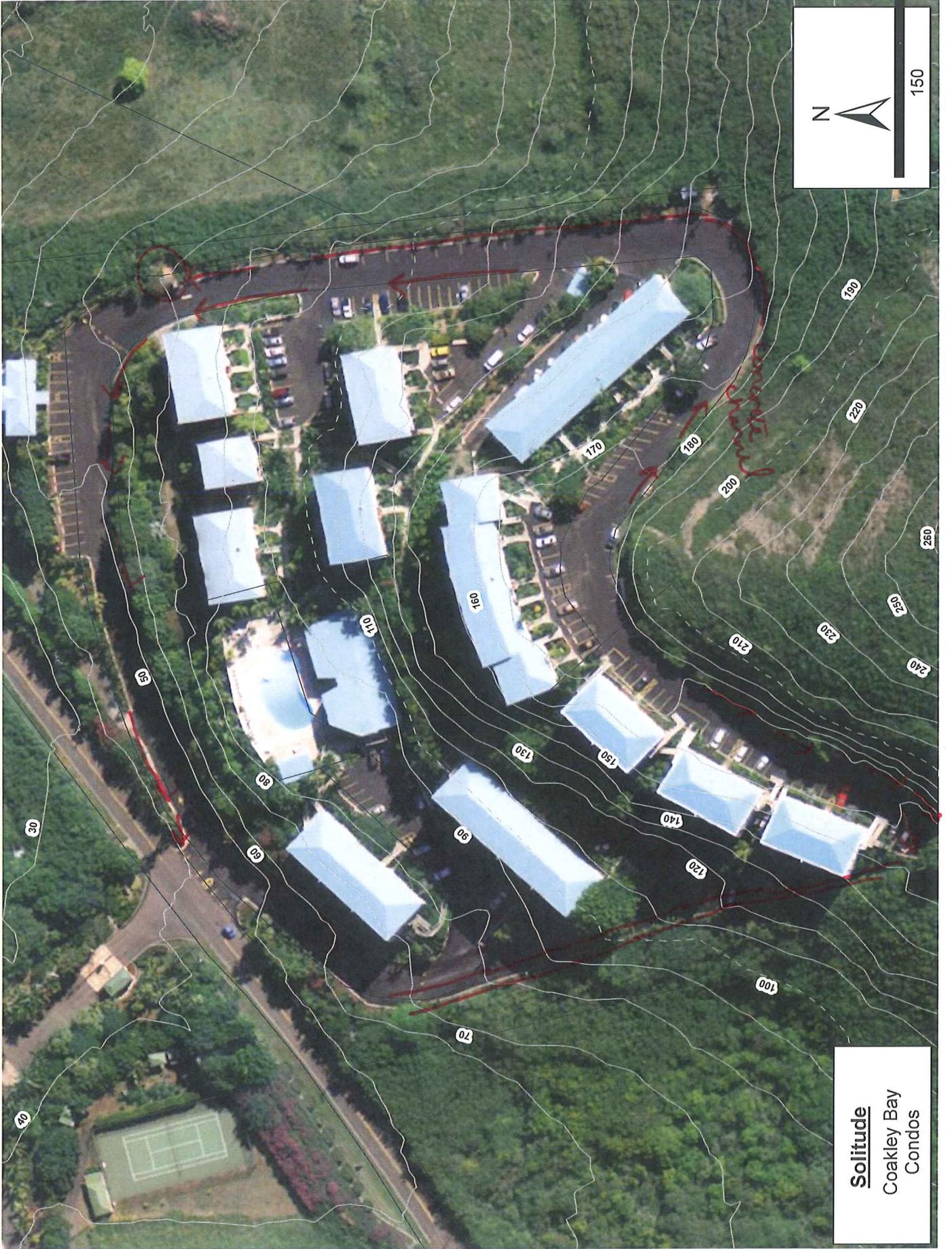
Narrative Description (Including key elements, aprox. surface area/ depth of treatment, conveyance structures):

Sketch and/or Sizing Calcs:

Existing Head Available/Where Measured:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

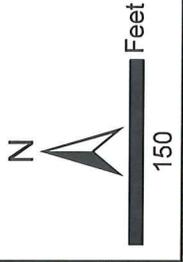
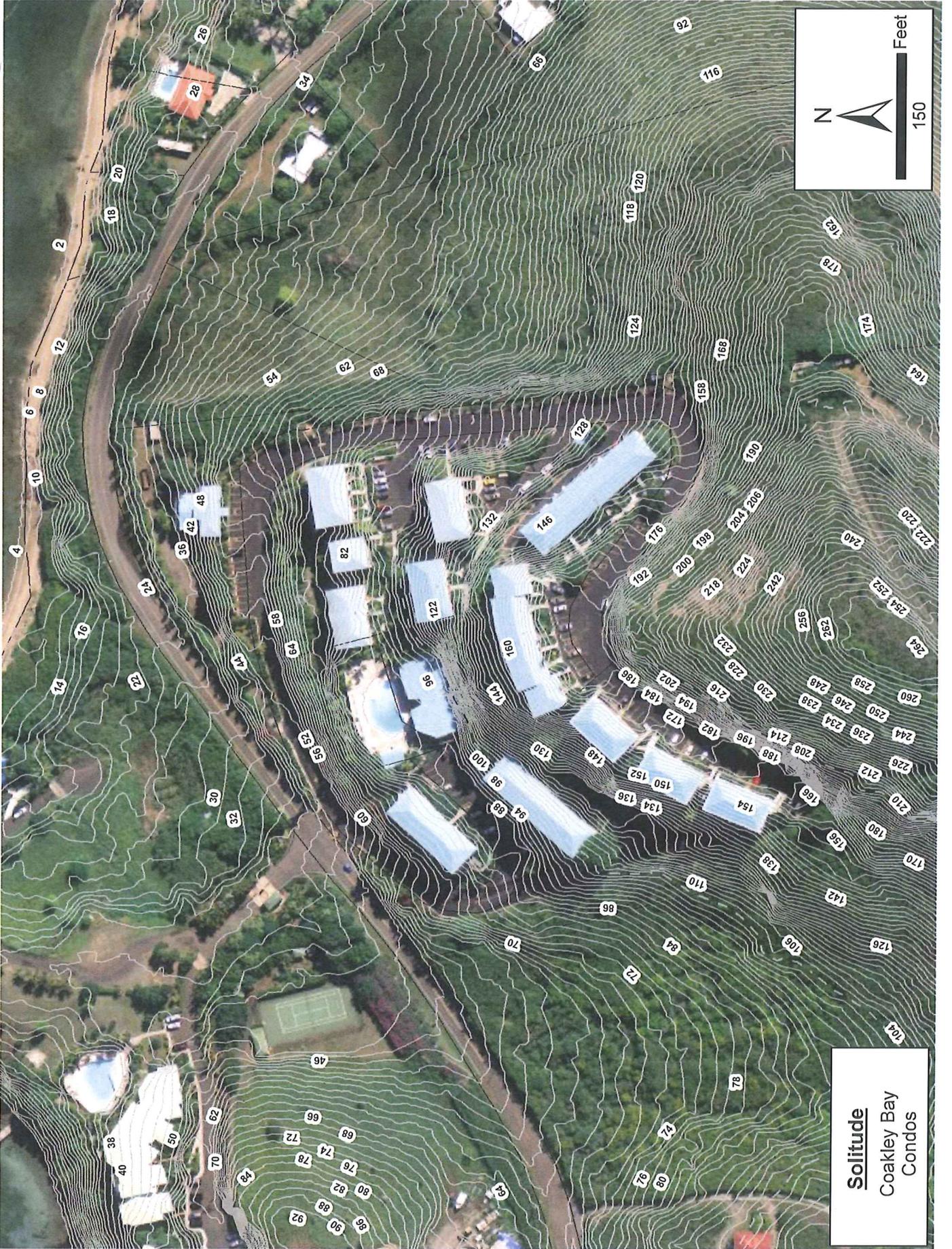
Thoughts on Maintenance Burden: Low Medium High



150

Feet

Solitude
Coakley Bay
Condos



Solitude
Coakley Bay
Condos

STX EE WATERSHEDS

RETROFITS



Site Name/ID: SB-R-06 East End Rd - Dirt Rd Discharge near Cookley Bay

Watershed: Solitude

Date: 1/26/11

Assessed by: MW/KR/ACK

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info:

Land Use: [X] Public [] Private [] Unknown:

[] Single Family Residential [X] Multi-Fam. Residential [] School [] Golf Course [X] Park [] Agricultural [X] Road [] Commercial/Industrial [] Resort [] Marina [] Other:

Is the site a hotspot? [] Yes [X] No [] Unknown: Sources/pollutants observed? [] No [X] Sediment [] Nutrients/organics [] Oil/grease [] Trash/Floatables

Existing Stormwater BMP on site? [] Yes [X] No [] Unknown:

Soils: [] Unknown [X] poor infiltration [] good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance:

Stormwater flows from Cookley Bay Condos onto East End Rd. Instead of flowing in a shallow swale to an 18-inch culvert (SB-RC016), most flow crosses road and erodes an unpaved, steep beach access.

PROPOSED RETROFIT CONCEPT (CONT. ON BACK)

Proposed Retrofit Practice(s): [] existing BMP upgrade [] new BMP

[] island bio/rain garden [X] swale [] planter [] tree pits [] infiltration [] permeable paver [] sand filter [] pond [] constructed wetland [] proprietary practice [] soil amendments [] reforestation [] impervious cover removal [] rainwater harvesting [] disconnection [X] Other (describe): access stabilization/signage

Area Draining to Retrofit

[] Hotspot [] Individual rooftop [] Parking Lot [] other small impervious area [X] Street [] Pervious area [X] Other (describe): large condo development

Drainage Area to retrofit ≈ _____ acres/sq ft

Imperviousness ≈ _____%

Impervious Area ≈ _____ acres/sq ft

Benefits of Retrofit (primary & secondary): [] Storage [X] Water Quality [] Recharge [] Gut Protection [X] Demonstration / Education [X] Repair [] Other:

Possible Conflicts due to: [] Soils [] Access [X] Adjacent Land Use [X] Existing Utilities [] Contamination [] High water table [] Limited access to water [] Other:

Describe conflicts:

NEXT STEPS

Candidate for pilot project [X] yep, love it [] OK [] undecided [] no, but keep listed [] no way

Follow-up needed to Complete Field Concept

[X] Confirm property ownership [] Obtain existing as-builts/site plans [X] Obtain utility mapping [X] Confirm drainage area/impervious cover [] Obtain detailed topography [] Confirm soil types [X] Confirm volume computations [] Confirm storm drain invert elevations [X] Complete concept sketch [] Other:

PROPOSED RETROFIT CONCEPT (CONT.)

Narrative Description (Including key elements, aprox. surface area/ depth of treatment, conveyance structures):

- construct swale to convey runoff from Coakley Bay Condos to existing culvert (SB-RC-14). Enlarge culvert as necessary.
- block access from vehicular traffic, stabilize, and create stable pedestrian trail access.
- Public Ed signage.

Sketch and/or Sizing Calcs:

Existing Head Available/Where Measured:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High

STX EE WATERSHEDS

Carden Beach

RETROFITS



Site Name/ID: SB-R-07

Watershed: Solitude

Date: 12/2/11

Assessed by: mw/KR/ACK

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info:

Manager: Don Sallach 778-6798

Land Use: Public Private Unknown:

Single Family Residential Multi-Fam. Residential School Golf Course Park Agricultural Road Commercial/Industrial Resort Marina Other: _____

Is the site a hotspot? Yes No Unknown:

Sources/pollutants observed? No Sediment Nutrients/organics Oil/grease Trash/Floatables

Existing Stormwater BMP on site? Yes No Unknown:

ripap channel / sediment forebay

Soils: Unknown poor infiltration good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance:

stormwater flows from eastern portion of site down into existing depression (used to be SW pond, filled in), through waterbar across cul-de-sac, and into sediment forebay/ripap channel. Some scouring of channel was observed.

PROPOSED RETROFIT CONCEPT (CONT. ON BACK)

Proposed Retrofit Practice(s): existing BMP upgrade new BMP

island bio/rain garden swale planter tree pits infiltration permeable paver sand filter pond constructed wetland proprietary practice soil amendments reforestation impervious cover removal rainwater harvesting disconnection Other (describe): maintenance of forebay/channel

Area Draining to Retrofit

Hotspot Individual rooftop Parking Lot other small impervious area Street Pervious area Other (describe):

Drainage Area to retrofit ≈ _____ acres/sq ft

Imperviousness ≈ _____%

Impervious Area ≈ _____ acres/sq ft

Benefits of Retrofit (primary & secondary): Storage Water Quality Recharge Gut Protection Demonstration / Education Repair Other: _____

Possible Conflicts due to: Soils Access Adjacent Land Use Existing Utilities Contamination High water table Limited access to water Other:

Describe conflicts:

existing depression should be preserved -> currently, undeveloped lot(s)

NEXT STEPS

Candidate for pilot project yep, love it OK undecided no, but keep listed no way

Follow-up needed to Complete Field Concept

Confirm property ownership Obtain existing as-builts/site plans Obtain utility mapping Confirm drainage area/impervious cover Obtain detailed topography Confirm soil types Confirm volume computations Confirm storm drain invert elevations Complete concept sketch Other:

PROPOSED RETROFIT CONCEPT (CONT.)

Narrative Description (Including key elements, approx. surface area/ depth of treatment, conveyance structures):

Sketch and/or Sizing Calcs:

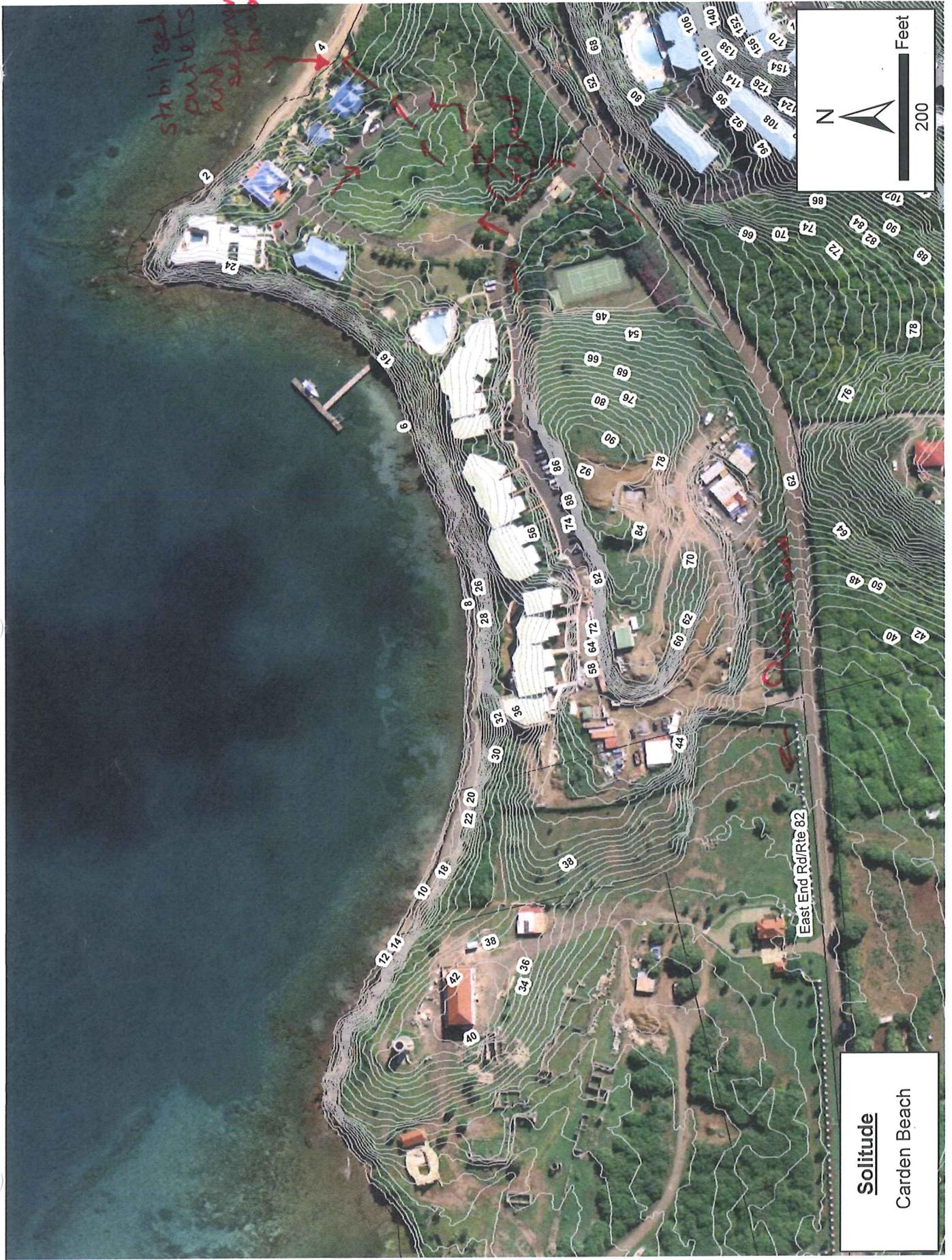
Existing Head Available/Where Measured:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High

access road → gov't owned

stabilized
outlets
and
submittal



John Hebert - Contractor

Manager: Don Sallach 778-6798

STX EE WATERSHEDS

Candle Reef II

RETROFITS



Site Name/ID: SB-R-08

Watershed: Solitude

Date: 1/25/11

Assessed by: mw/kR

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info: Kay Green 718-8474

Land Use: [] Public [X] Private [] Unknown:

[] Single Family Residential [X] Multi-Fam. Residential [] School [] Golf Course [] Park [] Agricultural [] Road [] Commercial/Industrial [] Resort [] Marina [] Other:

Is the site a hotspot? [] Yes [X] No [] Unknown: Sources/pollutants observed? [X] No [] Sediment [] Nutrients/organics [] Oil/grease [] Trash/Floatables

Existing Stormwater BMP on site? [] Yes [X] No [] Unknown:

Soils: [] Unknown [X] poor infiltration [] good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance: Stormwater sheet flows down road/cul-de-sac to grassy area before flowing into Prune Bay

PROPOSED RETROFIT CONCEPT (CONT. ON BACK)

Proposed Retrofit Practice(s): [] existing BMP upgrade [X] new BMP

[X] island bio/rain garden [] swale [] planter [] tree pits [] infiltration [] permeable paver [] sand filter [] pond [] constructed wetland [] proprietary practice [] soil amendments [] reforestation [] impervious cover removal [] rainwater harvesting [] disconnection [] Other (describe):

Area Draining to Retrofit: [] Hotspot [] Individual rooftop [X] Parking Lot [] other small impervious area [X] Street [] Pervious area [] Other (describe): Drainage Area to retrofit ≈ _____ acres/sq ft Imperviousness ≈ _____% Impervious Area ≈ _____ acres/sq ft

Benefits of Retrofit (primary & secondary): [] Storage [X] Water Quality [] Recharge [] Gut Protection [X] Demonstration / Education [] Repair [] Other:

Possible Conflicts due to: [] Soils [] Access [] Adjacent Land Use [] Existing Utilities [] Contamination [] High water table [] Limited access to water [] Other: Describe conflicts: None

NEXT STEPS

Candidate for pilot project [X] yep, love it [] OK [] undecided [] no, but keep listed [] no way

Follow-up needed to Complete Field Concept: [] Confirm property ownership [] Obtain existing as-builts/site plans [] Obtain utility mapping [X] Confirm drainage area/impervious cover [X] Obtain detailed topography [X] Confirm soil types [X] Confirm volume computations [] Confirm storm drain invert elevations [] Complete concept sketch [] Other:

PROPOSED RETROFIT CONCEPT (CONT.)

Narrative Description (Including key elements, aprox. surface area/ depth of treatment, conveyance structures):

Demonstration project to construct island bios in a highly visible location. Perfect for public ed.

Sketch and/or Sizing Calcs:

Existing Head Available/Where Measured:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site Name/ID: S-RES-01

Watershed: Solitude

Date: 1/24/11

Assessed by: MW/KR

EXISTING CONDITIONS

Homeowners Association? No Yes Unknown If yes, name and contact information:

we think there is ->

Main Road Names: Sierra Verde Rd, Buena Vista, Pelicano, Bajamar, Miramar

Approximate Neighborhood Area (acres) 85 # of lots 96 (# or % undeveloped 39/40%) 571

Single Family Attached (Duplexes, Row Homes) Multifamily (Apts., Condos)
 Single Family Detached Other

Index of Infill, Redevelopment, and Remodeling No Evidence <5% of existing units 5-10% >10%

Waste water Management? Public sewer On-site septic Small package plant

Problems observed with septic systems? No Yes (describe):

AVERAGE ROAD CONDITION

Pavement: Type All Paved mixed, mostly paved mixed, mostly unpaved all unpaved

Condition Good/mostly good (new, few areas requiring regrading or maintenance)
 Some road sections need attention (minor erosion, pavement repair needed, limited)
 Significant maintenance issues (most of road network in bad shape)

Drainage: Type Curb/gutter Mixed, mostly curbed Mixed, mostly open section Open drainage

Drain Inlets/Catch basins: None Clean Blocked Other:

Waterbars/dips/crossdrains: None Functioning Need maintenance Other:

Ditches: None Shallow Well-defined Stable Eroded Full of thick vegetation Other:

Discharge locations: Stable Some erosion Eroded Other:

Existing Stormwater BMPs on site? Unknown No Yes, describe:

waterbars, cisterns

Average Lot Cover: %bare 30 % turf 50 %landscape(include trees) 10 % rooftop 10 %driveway

Average Driveway: Impervious Pervious Eroded Drain to road Too variable

Evidence of rooftop or driveway runoff to road/drainage network?: No Yes, describe:

just driveway

Evidence of residential encroachment on riparian/wetland buffer? No Yes, describe:

driv road

Evidence of Residential Pollution?

- Limited Likely Observed for sediment loading
- Limited Likely Observed for oil/grease
- Limited Likely Observed for trash and yard waste
- Limited Likely Observed for nutrient loading
- Limited Likely Observed for bacteria
- Limited Likely Observed for other:

Severity: Low Medium High

Describe source:

high-end housing,
many set back from road,
gates

NEXT STEPS

Low priority

PROPOSED RESTORATION ACTIVITIES

Neighborhood-wide Actions:

- On-site retrofit potential individual lots? Better lawn/landscaping practices? Other action(s):
- Street ROW retrofit Pond retrofit Household hazardous waste
- Parking Lot retrofit Septic improvements

→ mainly needs maintenance of unpaved roads

Narrative description:

→ one medium-level eroded dirt road with gullying at pavement/dirt transition

→ divert driveway runoff to keep on lots instead of road

* watershed delineation changed

Sketch

STX EE WATERSHEDS

Yellow Cliff North

RESIDENTIAL



Site Name/ID: S-res-02

Watershed: Solitude

Date: 1/24/11

Assessed by: MW/KR

EXISTING CONDITIONS

Homeowners Association? No Yes Unknown If yes, name and contact information: maybe grouped with Hope and Carlton

Main Road Names: Yellow Cliff Trail, Hibiscus Circle / Dusky Rhoad

Approximate Neighborhood Area (acres) 20 # of lots 26 (# or % undeveloped 17/65%)
 Single Family Attached (Duplexes, Row Homes) <1/8 1/8 1/4 1/3 1/2 acre Multifamily (Apts., Condos)
 Single Family Detached <1/4 1/4 1/2 >1 acre Other

Index of Infill, Redevelopment, and Remodeling No Evidence <5% of existing units 5-10% >10%

Waste water Management? Public sewer On-site septic Small package plant
Problems observed with septic systems? No Yes (describe):

AVERAGE ROAD CONDITION

Pavement: Type All Paved mixed, mostly paved mixed, mostly unpaved all unpaved
Condition Good/mostly good (new, few areas requiring regrading or maintenance)
 Some road sections need attention (minor erosion, pavement repair needed, limited)
 Significant maintenance issues (most of road network in bad shape)

Drainage: Type Curb/gutter Mixed, mostly curbed Mixed, mostly open section Open drainage

Drain Inlets/Catch basins: None Clean Blocked Other:
Waterbars/dips/crossdrains: None Functioning Need maintenance Other:
Ditches: None Shallow Well-defined Stable Eroded Full of thick vegetation Other:
Discharge locations: Stable Some erosion Eroded Other:

Existing Stormwater BMPs on site? Unknown No Yes, describe: cisterns

Average Lot Cover: ___%bare 20% turf 45%landscape(include trees) 15% rooftop 20%driveway

Average Driveway: Impervious Pervious Eroded Drain to road Too variable

Evidence of rooftop or driveway runoff to road/drainage network?: No Yes, describe:

Evidence of residential encroachment on riparian/wetland buffer? No Yes, describe:

Evidence of Residential Pollution?
 Limited Likely Observed for sediment loading
 Limited Likely Observed for oil/grease
 Limited Likely Observed for trash and yard waste
 Limited Likely Observed for nutrient loading
 Limited Likely Observed for bacteria
 Limited Likely Observed for other:

Severity: Low Medium High
Describe source: Dirt road gullying

NEXT STEPS

* Dirt road issues

PROPOSED RESTORATION ACTIVITIES

Neighborhood-wide Actions:

- | | | |
|--|---|--|
| <input type="checkbox"/> On-site retrofit potential individual lots? | <input type="checkbox"/> Better lawn/landscaping practices? | <input type="checkbox"/> Other action(s): |
| <input checked="" type="checkbox"/> Street ROW retrofit | <input type="checkbox"/> Pond retrofit | <input type="checkbox"/> Household hazardous waste |
| <input type="checkbox"/> Parking Lot retrofit | <input type="checkbox"/> Septic improvements | |

Narrative description:

→ Consider paving roads / performing road maintenance to better manage erosion

Sketch

STX EE WATERSHEDS

RESIDENTIAL



Site Name/ID: S-RES-03 Hope + Carlton Hill

Watershed: Solitude

Date: 1/24/11

Assessed by: MW/KR

EXISTING CONDITIONS

Homeowners Association? No Yes Unknown If yes, name and contact information: Josh Tate jtate@cdprv.com zandy.hillis-starr@nps.gov

Main Road Names: Coral Reef Tr, Pony Club Tr, Yellow Cliff Tr

Approximate Neighborhood Area (acres) 110 # of lots 124 (# or % undeveloped 78/60%)

Single Family Attached (Duplexes, Row Homes) <1/8 1/8 1/4 1/3 1/2 acre Multifamily (Apts., Condos)
 Single Family Detached <1/4 1/4 1/2 1 >1 acre Other

Index of Infill, Redevelopment, and Remodeling No Evidence <5% of existing units 5-10% >10%

Waste water Management? Public sewer On-site septic Small package plant
Problems observed with septic systems? No Yes (describe):

AVERAGE ROAD CONDITION

Pavement: Type All Paved mixed, mostly paved mixed, mostly unpaved all unpaved

Condition Good/mostly good (new, few areas requiring regrading or maintenance)
 Some road sections need attention (minor erosion, pavement repair needed, limited)
 Significant maintenance issues (most of road network in bad shape)

Drainage: Type Curb/gutter Mixed, mostly curbed Mixed, mostly open section Open drainage

Drain Inlets/Catch basins: None Clean Blocked Other:
Waterbars/dips/crossdrains: None Functioning Need maintenance Other:
Ditches: None Shallow Well-defined Stable Eroded Full of thick vegetation Other:
Discharge locations: Stable Some erosion Eroded Other:
N/A

Josh Tate said
engineer they would fix problem + H2O goes around

Existing Stormwater BMPs on site? Unknown No Yes, describe:

cisterns

Average Lot Cover: ___%bare 50% turf 30%landscape(include trees) 10% rooftop 10%driveway

Average Driveway: Impervious Pervious Eroded Drain to road Too variable

some dirt

Evidence of rooftop or driveway runoff to road/drainage network?: No Yes, describe:

Evidence of residential encroachment on riparian/wetland buffer? No Yes, describe:

horse pasture in gut -> Pony Club, cotton valley

Evidence of Residential Pollution?

Limited Likely Observed for sediment loading dirt rds
 Limited Likely Observed for oil/grease
 Limited Likely Observed for trash and yard waste
 Limited Likely Observed for nutrient loading
 Limited Likely Observed for bacteria horse farm
 Limited Likely Observed for other:

Severity: Low Medium High

Describe source: steep, eroding dirt roads

NEXT STEPS

PROPOSED RESTORATION ACTIVITIES

Neighborhood-wide Actions:

- On-site retrofit potential individual lots? ^{driveways} Better lawn/landscaping practices? Other action(s):
 Street ROW retrofit Pond retrofit Household hazardous waste
 Parking Lot retrofit Septic improvements riparian buffer protection _{paving/maintenance}

Narrative description:

- Many undeveloped lots → opportunity to deal with drainage better for these.
- Pave steep roads
- buffer along gut

Sketch

- Spoke w/ Josh Tate, HOA president
- Issues w/ collecting dues, road maint. problems. Use sediment from Bony Club Tr culvert area to regrade roads since down to bedrock
- one section of road actually ponds, others erode

STX EE WATERSHEDS

(incl. Cotton Valley West)

RESIDENTIAL



Site Name/ID: S-Res-04 Cotton Valley

Watershed: Solihude

Date: 1/24/11

Assessed by: MW/KR

EXISTING CONDITIONS

Homeowners Association? No Yes Unknown If yes, name and contact information:

Main Road Names: Cotton Valley Tr, Unnamed 138

Approximate Neighborhood Area (acres) 88,40 # of lots 147 214 (# or % undeveloped 91/60%)

Single Family Attached (Duplexes, Row Homes) <1/8 1/8 1/4 1/3 1/2 acre Multifamily (Apts., Condos)
 Single Family Detached <1/4 1/4 1/2 1 >1 acre Other

Index of Infill, Redevelopment, and Remodeling No Evidence <5% of existing units 5-10% >10%

Waste water Management? Public sewer On-site septic Small package plant
Problems observed with septic systems? No Yes (describe):

AVERAGE ROAD CONDITION

Pavement: Type All Paved mixed, mostly paved mixed, mostly unpaved all unpaved
Condition Good/mostly good (new, few areas requiring regrading or maintenance)
 Some road sections need attention (minor erosion, pavement repair needed, limited)
 Significant maintenance issues (most of road network in bad shape)

Drainage: Type Curb/gutter Mixed, mostly curbed Mixed, mostly open section Open drainage

Drain Inlets/Catch basins: None Clean Blocked Other:
Waterbars/dips/crossdrains: None Functioning Need maintenance Other:
Ditches: None Shallow Well-defined Stable Eroded Full of thick vegetation Other:
Discharge locations: Stable Some erosion Eroded Other:

Existing Stormwater BMPs on site? Unknown No Yes, describe:
cisterns

Average Lot Cover: ___%bare 40% turf 25%landscape(include trees) 25% rooftop 10%driveway

Average Driveway: Impervious Pervious Eroded Drain to road Too variable

Evidence of rooftop or driveway runoff to road/drainage network?: No Yes, describe:
road/annual

Evidence of residential encroachment on riparian/wetland buffer? No Yes, describe:
one yard in gut, gated, mowed

Evidence of Residential Pollution?
 Limited Likely Observed for sediment loading
 Limited Likely Observed for oil/grease
 Limited Likely Observed for trash and yard waste
 Limited Likely Observed for nutrient loading
 Limited Likely Observed for bacteria horses
 Limited Likely Observed for other:
Severity: Low Medium High
Describe source:

NEXT STEPS

near pond + gut

PROPOSED RESTORATION ACTIVITIES

Neighborhood-wide Actions:

- On-site retrofit potential individual lots?
- Street ROW retrofit
- Parking Lot retrofit
- Better lawn/landscaping practices?
- Household hazardous waste
- Septic improvements/survey
- Other action(s):
Trash pick-up

Narrative description:

- Areas of dumping ^{undersized} culverts
- Pond restoration? ^{no outlet}
- Pony Club Tr Culvert undersized, large scour hole.
Sediment issue from Hope + Carlton Hill
- Horses on non-pasture land
- dirt rds, driveways

Sketch

- Gut in yard, culverts too small, overtops road.



Site Name/ID: S-RES-05

Watershed: Solitude

Date: 1/24/11

Assessed by: MW/KK

EXISTING CONDITIONS

Homeowners Association? No Yes Unknown If yes, name and contact information:

Main Road Names:

Approximate Neighborhood Area (acres) 55 # of lots 45 (# or % undeveloped 31/70%)
 Single Family Attached (Duplexes, Row Homes) <1/8 1/8 1/4 1/3 1/2 acre Multifamily (Apts., Condos)
 Single Family Detached <1/4 1/4 1/2 1 1 acre Other

Index of Infill, Redevelopment, and Remodeling No Evidence <5% of existing units 5-10% >10%

Waste water Management? Public sewer On-site septic Small package plant
Problems observed with septic systems? No Yes (describe):

AVERAGE ROAD CONDITION

Pavement: Type All Paved mixed, mostly paved mixed, mostly unpaved all unpaved
Condition Good/mostly good (new, few areas requiring regrading or maintenance)
 Some road sections need attention (minor erosion, pavement repair needed, limited)
 Significant maintenance issues (most of road network in bad shape)
Drainage: Type Curb/gutter Mixed, mostly curbed Mixed, mostly open section Open drainage
Drain Inlets/Catch basins: None Clean Blocked Other:
Waterbars/dips/crossdrains: None Functioning Need maintenance Other:
Ditches: None Shallow Well-defined Stable Eroded Full of thick vegetation Other:
Discharge locations: Stable Some erosion Eroded Other:

Existing Stormwater BMPs on site? Unknown No Yes, describe:
systems

Average Lot Cover: ___%bare 30% turf 20%landscape(include trees) 30% rooftop 20%driveway
Average Driveway: Impervious Pervious Eroded Drain to road Too variable
Evidence of rooftop or driveway runoff to road/drainage network?: No Yes, describe:
Evidence of residential encroachment on riparian/wetland buffer? No Yes, describe:

Evidence of Residential Pollution?
 Limited Likely Observed for sediment loading
 Limited Likely Observed for oil/grease
 Limited Likely Observed for trash and yard waste
 Limited Likely Observed for nutrient loading
 Limited Likely Observed for bacteria
 Limited Likely Observed for other:
Severity: Low Medium High
Describe source:

NEXT STEPS

PROPOSED RESTORATION ACTIVITIES

Neighborhood-wide Actions:

- On-site retrofit potential individual lots?
- Street ROW retrofit
- Parking Lot retrofit
- Pond retrofit
- Better lawn/landscaping practices?
- Household hazardous waste
- Septic improvements

Other action(s):
*new construction
management*

Narrative description:

*most roads - great condition, 1 to shore poor condition
dirt w/ concrete patch*

Sketch



Site Name/ID: S-RES-06

Watershed: Solitude

Date: 1/24/11

Assessed by: MW/KR

EXISTING CONDITIONS

Homeowners Association? No Yes Unknown If yes, name and contact information:

(Neighborhood watch signs)

Main Road Names:

Approximate Neighborhood Area (acres) 120 # of lots 78 (# or % undeveloped 39/50%)

Single Family Attached (Duplexes, Row Homes) <1/8 1/8 1/4 1/3 1/2 acre Multifamily (Apts., Condos)
 Single Family Detached <1/4 1/4 1/2 1 (>) acre Other

Index of Infill, Redevelopment, and Remodeling No Evidence <5% of existing units 5-10% >10%

Waste water Management? Public sewer On-site septic Small package plant

Problems observed with septic systems? No Yes (describe):

AVERAGE ROAD CONDITION

Pavement: Type All Paved mixed, mostly paved mixed, mostly unpaved all unpaved

Condition Good/mostly good (new, few areas requiring regrading or maintenance)
 Some road sections need attention (minor erosion, pavement repair needed, limited)
 Significant maintenance issues (most of road network in bad shape)

Drainage: Type Curb/gutter Mixed, mostly curbed Mixed, mostly open section Open drainage

Drain Inlets/Catch basins: None Clean Blocked Other:

Waterbars/dips/crossdrains: None Functioning Need maintenance Other:

Ditches: None Shallow Well-defined Stable Eroded Full of thick vegetation Other:

Discharge locations: Stable Some erosion Eroded Other:

Existing Stormwater BMPs on site? Unknown No Yes, describe:

Cisterns

Bene to keep sw on site for some driveways

Average Lot Cover: ___%bare 15% turf 50%landscape(include trees) 20% rooftop 15%driveway

Average Driveway: Impervious Pervious Eroded Drain to road Too variable

Evidence of rooftop or driveway runoff to road/drainage network?: No Yes, describe:

Evidence of residential encroachment on riparian/wetland buffer? No Yes, describe:

Evidence of Residential Pollution?

- Limited Likely Observed for sediment loading
- Limited Likely Observed for oil/grease
- Limited Likely Observed for trash and yard waste
- Limited Likely Observed for nutrient loading
- Limited Likely Observed for bacteria
- Limited Likely Observed for other:

Severity: Low Medium High

Describe source:

NEXT STEPS

Seven Flags Road restoration / drainage improvements

SITE AERIAL INCLUDED

PROPOSED RESTORATION ACTIVITIES

Neighborhood-wide Actions:

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> On-site retrofit potential individual lots? | <input type="checkbox"/> Better lawn/landscaping practices? | <input type="checkbox"/> Other action(s): |
| <input checked="" type="checkbox"/> Street ROW retrofit | <input type="checkbox"/> Pond retrofit | <input type="checkbox"/> Household hazardous waste |
| <input type="checkbox"/> Parking Lot retrofit | <input type="checkbox"/> Septic improvements | |

Narrative description:

See retrofit forms
for Seven Flags

Sketch



Site Name/ID: S-Res-07

Watershed: Solitude

Date: 1/26/11

Assessed by: MW/KR

Estates Solitude/Pleasant Valley

EXISTING CONDITIONS

Homeowners Association? No Yes Unknown If yes, name and contact information:
Santa Cruz

Main Road Names: Solitude Rd

Approximate Neighborhood Area (acres) 75 # of lots 98 (# or % undeveloped 58/60%)
 Single Family Attached (Duplexes, Row Homes) <1/8 1/8 1/4 1/3 1/3 acre Multifamily (Apts., Condos)
 Single Family Detached <1/4 1/4 1/2 1 >1 acre Other

Index of Infill, Redevelopment, and Remodeling No Evidence <5% of existing units 5-10% >10%

Waste water Management? Public sewer On-site septic Small package plant
Problems observed with septic systems? No Yes (describe):
one house w/ questionable septic - see photo

AVERAGE ROAD CONDITION

Pavement: Type All Paved mixed, mostly paved mixed, mostly unpaved all unpaved
Condition Good/mostly good (new, few areas requiring regrading or maintenance)
 Some road sections need attention (minor erosion, pavement repair needed, limited)
 Significant maintenance issues (most of road network in bad shape)
Drainage: Type Curb/gutter Mixed, mostly curbed Mixed, mostly open section Open drainage
Drain Inlets/Catch basins: None Clean Blocked Other:
Waterbars/dips/crossdrains: None Functioning Need maintenance Other:
Ditches: None Shallow Well-defined Stable Eroded Full of thick vegetation Other:
Discharge locations: Stable Some erosion Eroded Other:
gut

Existing Stormwater BMPs on site? Unknown No Yes, describe:
cisterns

Average Lot Cover: ___%bare 20% turf 45%landscape(include trees) 20% rooftop 15%driveway

Average Driveway: Impervious Pervious Eroded Drain to road Too variable

Evidence of rooftop or driveway runoff to road/drainage network?: No Yes, describe:
some porous gravel

Evidence of residential encroachment on riparian/wetland buffer? No Yes, describe:
clearing in gut, farmland

Evidence of Residential Pollution?
 Limited Likely Observed for sediment loading
 Limited Likely Observed for oil/grease
 Limited Likely Observed for trash and yard waste
 Limited Likely Observed for nutrient loading
 Limited Likely Observed for bacteria
 Limited Likely Observed for other:

Severity: Low Medium High
Describe source:

NEXT STEPS

~ ditch/culvert issue in Pleasant Valley

PROPOSED RESTORATION ACTIVITIES

Neighborhood-wide Actions:

- On-site retrofit potential individual lots?
- Street ROW retrofit
- Pond retrofit
- Parking Lot retrofit
- Better lawn/landscaping practices?
- Household hazardous waste
- Septic improvements

Other action(s):
new development management
riparian buffer restoration

Narrative description:

① high-end homes up in Estates Solitude, whole network of paved roads not on map. nice landscaping, paved drives. Little erosion issues. (Santa Cruz HOA)

② Pleasant Valley → lower-end, a few drainage issues since road follows headwaters of gut. Culverts here, some need repair

Sketch

STX EE WATERSHEDS (Prune Bay / Candle Reef Condos) RESIDENTIAL



Site Name/ID: S-RES-08

Watershed: Solitude

Date: 1/26/11

Assessed by: MW / KR

EXISTING CONDITIONS

Homeowners Association? No Yes Unknown If yes, name and contact information:

Likely Candle Reef II - Kay Green 718-8474

Main Road Names: Green Cay

Approximate Neighborhood Area (acres) 100 # of lots 94 (# or % undeveloped 41/44%)

Single Family Attached (Duplexes, Row Homes) $<1/8$ $1/8$ $1/4$ $1/3$ $1/2$ $2/3$ $3/4$ 1 >1 acre Multifamily (Apts., Condos) Other

Single Family Detached

Index of Infill, Redevelopment, and Remodeling No Evidence $<5\%$ of existing units 5-10% $>10\%$

Waste water Management? Public sewer On-site septic Small package plant

Problems observed with septic systems? No Yes (describe):

AVERAGE ROAD CONDITION

Pavement: Type All Paved mixed, mostly paved mixed, mostly unpaved all unpaved

Condition Good/mostly good (new, few areas requiring regrading or maintenance) Some road sections need attention (minor erosion, pavement repair needed, limited) Significant maintenance issues (most of road network in bad shape) *some issues w/ dirt roads*

Drainage: Type Curb/gutter Mixed, mostly curbed Mixed, mostly open section Open drainage

Drain Inlets/Catch basins: None Clean Blocked Other:

Waterbars/dips/crossdrains: None Functioning Need maintenance Other:

Ditches: None Shallow Well-defined Stable Eroded Full of thick vegetation Other:

Discharge locations: Stable Some erosion Eroded Other:

Existing Stormwater BMPs on site? Unknown No Yes, describe:

systems

Average Lot Cover: ___%bare 20% turf 20% landscape(include trees) 30% rooftop 30% driveway

Average Driveway: Impervious Pervious Eroded Drain to road Too variable

Evidence of rooftop or driveway runoff to road/drainage network?: No Yes, describe:

Evidence of residential encroachment on riparian/wetland buffer? No Yes, describe:

Evidence of Residential Pollution?

- Limited Likely Observed for sediment loading
- Limited Likely Observed for oil/grease
- Limited Likely Observed for trash and yard waste
- Limited Likely Observed for nutrient loading
- Limited Likely Observed for bacteria
- Limited Likely Observed for other:

Severity: Low Medium High

Describe source:

NEXT STEPS

A few gravel spurs straight to beach are an issue, and at the condos a cul-de-sac right near water that creates an issue. Lots of landscaping, maintenance.

Site ID _____

STX EE WATERSHEDS *Blue Water Terrace* HOTSPOT/POLLUTION PREVENTION

Site Name/ID: S-H-01

Watershed: Solitude

Date: 1/25/11

Assessed by: HW/KR



EXISTING CONDITIONS

Contact Information/location:

see Retrofit form

Land Use: Commercial Industrial Institutional Municipal Golf Course Transport-Related
 Marina Animal Facility Other:

Basic Description of Operation:

Restaurant / Deli

Existing stormwater management on-site? Unknown No Yes, describe:

Condition of drain inlets on-site: None Good Need maintenance

Evidence of riparian/wetland buffer encroachment: Unknown No Yes, describe:

gut on site - Drainage overland flow from site to gut

Potential pollutants associated with:

- Vehicular operations (fueling, storage, maintenance)
- Waste management (dumping)
- Outdoor material storage (uncovered, leaking, no secondary containment)
- Landscaping (over fertilizing, irrigation)
- Building/parking lot maintenance (washdowns)
- Other:

Pollutant of concern?

- Limited Likely Observed for sediment loading
- Limited Likely Observed for oil/grease
- Limited Likely Observed for trash
- Limited Likely Observed for nutrient loading
- Limited Likely Observed for bacteria
- Limited Likely Observed for other:

+ WW potential flow - possible from WW

Severity of Problem: Low Medium High

Describe Conditions:

Dumpster juice - uncovered surrounded by toxic material storage
Cleaning Area outside
Potential Septic issues

PROPOSED RESTORATION ACTIVITIES

- Education, containment, pollution prevention

NEXT STEPS

- Discuss w/ owners

SKETCH

Sec photos

STX EE WATERSHEDS

S-H-02

HOTSPOT/POLLUTION PREVENTION



Site Name/ID: Cotton Valley Dumpster Site

Watershed: Solitude

Date: 1/25/11

Assessed by: MW/KR

EXISTING CONDITIONS

Contact Information/location: ST. Croix Foundation / VIAPCO Fire Station

Land Use: [] Commercial [] Industrial [] Institutional [x] Municipal [] Golf Course [] Transport-Related [] Marina [] Animal Facility [] Other: quasi
Basic Description of Operation: Dumpster site

Existing stormwater management on-site? [] Unknown [x] No [] Yes, describe:
Condition of drain inlets on-site: [x] None [] Good [] Need maintenance

Evidence of riparian/wetland buffer encroachment: [] Unknown [] No [x] Yes, describe: adjacent to gut - may drain to gut

Potential pollutants associated with:
[x] Vehicular operations (fueling, storage, maintenance)
[x] Waste management (dumping)
[x] Outdoor material storage (uncovered, leaking, no secondary containment)
[] Landscaping (over fertilizing, irrigation)
[] Building/parking lot maintenance (washdowns)
[] Other:

Pollutant of concern?
[x] Limited [] Likely [] Observed for sediment loading
[] Limited [] Likely [x] Observed for oil/grease
[] Limited [] Likely [x] Observed for trash
[] Limited [x] Likely [] Observed for nutrient loading
[] Limited [x] Likely [] Observed for bacteria
[] Limited [] Likely [] Observed for other:

Severity of Problem: [] Low [] Medium [x] High
Describe Conditions:
- Completely impervious paved dumping site
- uncovered dumpsters
- Very flat site - may flow directly to gut or to street, eventually to gut

PROPOSED RESTORATION ACTIVITIES

Education, maintenance

NEXT STEPS

* Contact managers!

SKETCH

See photos

See fire station sketch

- Adjacent gut investigated
 - Culvert under Road
 - ~ 30"
 - Likely blocked ~~at the~~ significantly significant
 - Ponding on downstream end - submerged culvert
 - Small pipes - 8" also under road - at same level or higher than main culvert.
 - upstream end - some ponding - wide (50'+)
 - See photos

shut in flow area

Ziggys Island Market
Roti-bas

STX EE WATERSHEDS

HOTSPOT/POLLUTION PREVENTION



Site Name/ID: S-H-03

Watershed: Solitude

Date: 1/25/11

Assessed by: MW/KR

EXISTING CONDITIONS

Contact Information/location:

Land Use: Commercial Industrial Institutional Municipal Golf Course Transport-Related
 Marina Animal Facility Other:
Basic Description of Operation: bas station, deli/sandwich shop
convenience store, Restrooms-
Public

Existing stormwater management on-site? Unknown No Yes, describe:
Condition of drain inlets on-site: None Good Need maintenance

Evidence of riparian/wetland buffer encroachment: Unknown No Yes, describe:

Potential pollutants associated with:
 Vehicular operations (fueling, storage, maintenance)
 Waste management (dumping)
 Outdoor material storage (uncovered, leaking, no secondary containment)
 Landscaping (over fertilizing, irrigation)
 Building/parking lot maintenance (washdowns)
 Other:

Pollutant of concern?
 Limited Likely Observed for sediment loading
 Limited Likely Observed for oil/grease
 Limited Likely Observed for trash
 Limited Likely Observed for nutrient loading
 Limited Likely Observed for bacteria
 Limited Likely Observed for other:

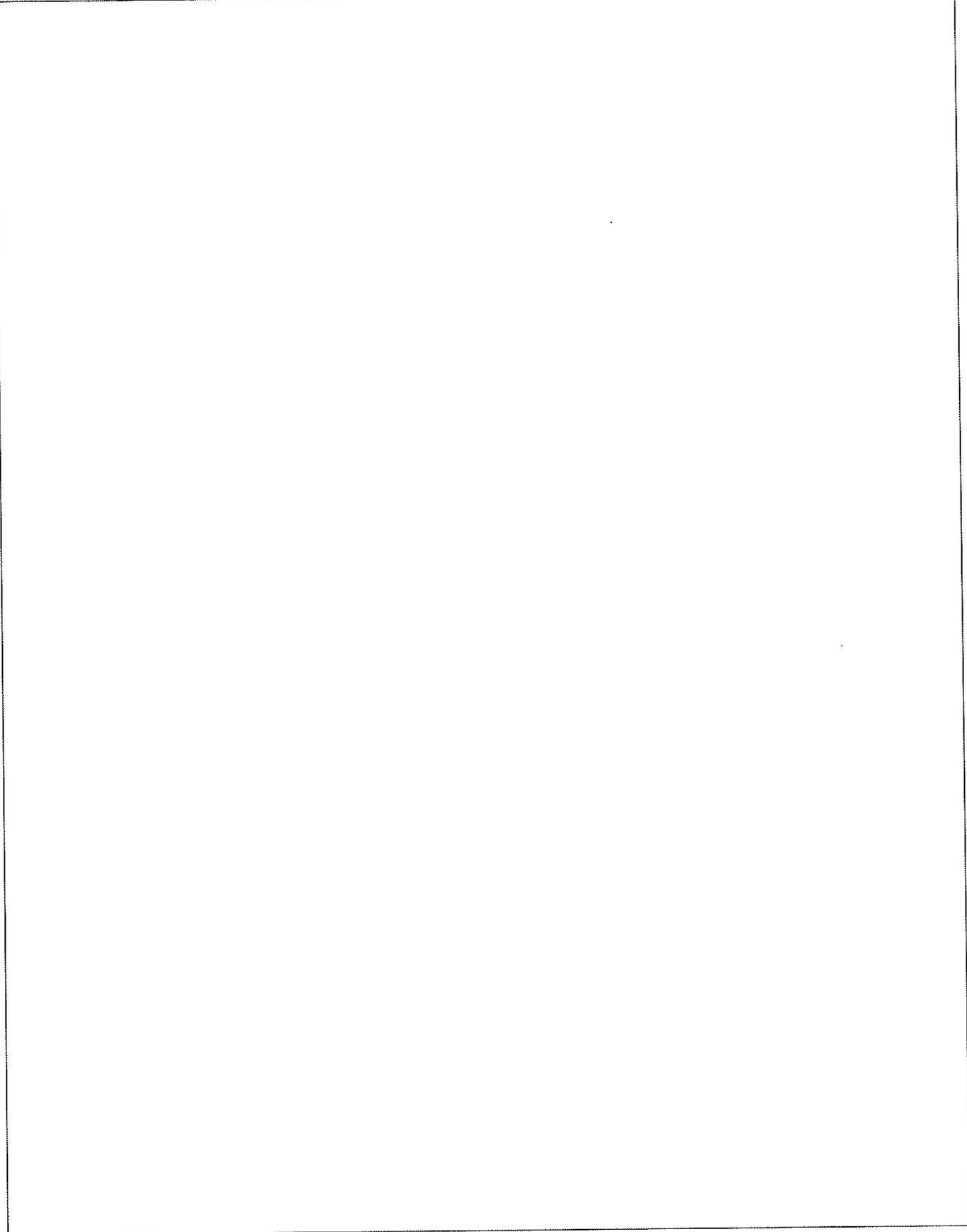
Severity of Problem: Low Medium High
Describe Conditions:
- Everything seems to be well maintained
- one uncovered diesel pump

PROPOSED RESTORATION ACTIVITIES

- See Retrofit form

NEXT STEPS

SKETCH





Site/Road Name/ID: S-RC-01 (off Sierra Verde - Bajamar Rd) Watershed: Solitude
 Date: 1/24/11 Assessed by: MW/KR

EXISTING CONDITION

<input type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: _____ (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft) Roadway elevation: _____ (ft)	
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper		
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input type="checkbox"/> significant <input type="checkbox"/> complete					IS IT FLOWING? <input type="checkbox"/> No <input type="checkbox"/> Yes
	Potential barrier to aquatic species? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown					
	Is it acting as grade control? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown					

<input checked="" type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input checked="" type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input checked="" type="checkbox"/> Slight (around 5:1, 20%) <input checked="" type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input checked="" type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: <u>21'</u> (ft) Drive lane: <u>17'</u> (ft) Shoulder: <u>0</u> (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input checked="" type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input checked="" type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other:			
	Waterbars/dips/cross drains: <input checked="" type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input checked="" type="checkbox"/> eroded <input checked="" type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input checked="" type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input checked="" type="checkbox"/> Med <input type="checkbox"/> Low (Explain):			
POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input checked="" type="checkbox"/> MED <input type="checkbox"/> Low				

DESCRIPTION OF EXISTING CONDITIONS:
 Serves as driveway to 2 homes - upper portion paved - water crosses at paved/dirt bound

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site/Road Name/ID: S-RC-02 (unnamed)

Watershed: Solitude

Date: 1/24/11

Assessed by: MW/KR

EXISTING CONDITION

<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input type="checkbox"/> Single <input checked="" type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know <i>N/A - pond outlet</i>	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>24" (2)</u> (ft) Height: <u>1</u> (ft) Culvert length: <u>25</u> (ft) Width: _____ (ft) Roadway elevation: _____ (ft)
	CONDITION: (Evidence of...) <input checked="" type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input checked="" type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):		CULVERT SLOPE: <input type="checkbox"/> Flat <input checked="" type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper		
	BLOCKAGE SEVERITY: <input checked="" type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input type="checkbox"/> significant <input type="checkbox"/> complete				
	Potential barrier to aquatic species? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				
	Is it acting as grade control? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Unknown <i>pmd</i>				

<input checked="" type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input checked="" type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input checked="" type="checkbox"/> Slight (around 5:1, 20%) <input checked="" type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input checked="" type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown <i>(not dead end)</i>	Total ROW Width: <u>16</u> (ft) Drive lane: <u>14</u> (ft) Shoulder: <u>0</u> (ft) <i>Catherine Hope</i> Length of interest: <u>615</u> <i>Culvert</i>
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input checked="" type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input checked="" type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other:			
	Waterbars/dips/cross drains: <input checked="" type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other:			
	Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input checked="" type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other:			
	Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
SEVERITY OF PROBLEM: <input type="checkbox"/> High <input checked="" type="checkbox"/> Med <input type="checkbox"/> Low (Explain):				
POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input checked="" type="checkbox"/> MED <input type="checkbox"/> LOW				

DESCRIPTION OF EXISTING CONDITIONS:

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site/Road Name/ID: S-RC-03

Watershed: Solitude

Date: 1/24/11

Assessed by: MW/KE

EXISTING CONDITION

<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Metal <input checked="" type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>30"</u> (ft) Height: _____ (ft) Culvert length: <u>30'</u> (ft) Width: _____ (ft) Roadway elevation: _____ (ft)	
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input checked="" type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input checked="" type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input type="checkbox"/> Flat <input checked="" type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper		
	BLOCKAGE SEVERITY: <input checked="" type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input type="checkbox"/> significant <input type="checkbox"/> complete					
	Potential barrier to aquatic species? <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Unknown					
	Is it acting as grade control? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown					

<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):			
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW			

DESCRIPTION OF EXISTING CONDITIONS:

note: bent from weight of road
15' deep scour / 20' wide
tree dumping

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



STX EE WATERSHEDS

ROADS & CULVERTS

Site/Road Name/ID: S-RC-04

Watershed: Schlude

Date: 1/24/11

Assessed by: m.w.h.r

EXISTING CONDITION					
<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Other: <u>DL</u>	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>24"</u> (ft) Height: _____ (ft) Culvert length: <u>20'</u> (ft) Width: _____ (ft) Roadway elevation: _____ (ft)
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input checked="" type="checkbox"/> Cracking/chipping/corrosion <input checked="" type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input type="checkbox"/> Flat <input checked="" type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper	
	BLOCKAGE SEVERITY: <input checked="" type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input type="checkbox"/> significant <input type="checkbox"/> complete			IS IT FLOWING? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
	Potential barrier to aquatic species? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				
	Is it acting as grade control? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				
<input checked="" type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input checked="" type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____	
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:				
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):				
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW				
	DESCRIPTION OF EXISTING CONDITIONS: 				
NEXT STEPS					
Potential Repair Candidate? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> OTHER:					
CONTACT <input type="checkbox"/> DPW; <input type="checkbox"/> LANDOWNER <input type="checkbox"/> HOA; <input type="checkbox"/> OTHER:					

downstream

DL

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



STX EE WATERSHEDS

ROADS & CULVERTS

Site/Road Name/ID: S-RC-05 DM 05

Watershed: Solidude

Date: 1/24/11

Assessed by: MWJLR

EXISTING CONDITION

<input checked="" type="checkbox"/> CULVERTS <i>Probably not cut get access</i>	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other: <i>put totally pvc pipe</i>	# BARRELS: <input type="checkbox"/> Single <input checked="" type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Other: <i>DI</i>	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>24"</u> (ft) Height: _____ (ft) Culvert length: <u>30'</u> (ft) Width: _____ (ft) Roadway elevation: _____ (ft)
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input checked="" type="checkbox"/> Cracking/chipping/corrosion <input checked="" type="checkbox"/> Downstream scour hole <input checked="" type="checkbox"/> Sediment deposition <input checked="" type="checkbox"/> Upstream erosion <input checked="" type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input checked="" type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):		CULVERT SLOPE: <input type="checkbox"/> Flat <input checked="" type="checkbox"/> Slight (2-5%) <i>prob.</i> <input type="checkbox"/> Steeper		
	BLOCKAGE SEVERITY: <input checked="" type="checkbox"/> none <input type="checkbox"/> minor <input checked="" type="checkbox"/> partial <input checked="" type="checkbox"/> significant <input type="checkbox"/> complete <i>1-graded 1-fenced</i>		IS IT FLOWING? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
	Potential barrier to aquatic species? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Unknown		Is it acting as grade control? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown		

<input checked="" type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input checked="" type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):			
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW			

DESCRIPTION OF EXISTING CONDITIONS:
 Note: Downstream-ended channel
 see photos - graded more in fact than fenced
 Slowing from graded
 - pipe from block structure - discharge to ponded inflow - dry - no flow

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High

Solitude North
NO NUMBER

NOT
major
issue



Site/Road Name/ID: _____

Watershed: Solitude

Date: 1/24/11

Assessed by: MW/KR

EXISTING CONDITION

<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>12"</u> (ft) Height: _____ (ft) Culvert length: <u>~20'</u> (ft) Width: _____ (ft) Roadway elevation: _____ (ft)
	CONDITION: (Evidence of...) <input checked="" type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper	
	BLOCKAGE SEVERITY: <input checked="" type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input type="checkbox"/> significant <input type="checkbox"/> complete				
	Potential barrier to aquatic species? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				
	Is it acting as grade control? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				

<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input checked="" type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input checked="" type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: <u>18</u> (ft) Drive lane: <u>18</u> (ft) Shoulder: <u>0</u> (ft) Length of interest: _____
	Surface: <input checked="" type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):			
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW			

DESCRIPTION OF EXISTING CONDITIONS:

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site/Road Name/ID: Culvert (East)

Watershed: Solitude

Date: 1/25/11

Assessed by: mw/kr

EXISTING CONDITION

*corroded CMP pipe retrofit w/ RCP end sections

<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input checked="" type="checkbox"/> Concrete <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input checked="" type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>30"</u> (ft) Height: _____ (ft) Culvert length: <u>~50'</u> (ft) Width: _____ (ft) Roadway elevation: <u>10</u> (ft)	
	CONDITION: (Evidence of...) <input checked="" type="checkbox"/> In good condition <input checked="" type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input checked="" type="checkbox"/> Sediment deposition <input checked="" type="checkbox"/> Upstream erosion <i>same</i> <input type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input checked="" type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):		CULVERT SLOPE: <input checked="" type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper			
	BLOCKAGE SEVERITY: <input checked="" type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input type="checkbox"/> significant <input type="checkbox"/> complete					Total ROW Width: <u>40</u> (ft) Drive lane: <u>24</u> (ft) Shoulder: <u>16</u> (ft) Length of interest: _____
	Potential barrier to aquatic species? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown					

<input checked="" type="checkbox"/> ROAD SEGMENTS	SURFACE: <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input checked="" type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input checked="" type="checkbox"/> Public <input type="checkbox"/> Unknown
	Surface: <input checked="" type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input checked="" type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input checked="" type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input checked="" type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:		
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input checked="" type="checkbox"/> Low (Explain):		
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input checked="" type="checkbox"/> LOW		

DESCRIPTION OF EXISTING CONDITIONS: ① south ~~side~~ ^{North} of main road (see above) ② existing culverts: ② North side of main road - on property. - 15" single, metal circular ~10' long, somewhat subseq.

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:

gummerson1@yahoo.com → eager to fix drainage issue

REPAIR/IMPROVEMENT CONCEPT

Narrative:

2 issues:

- ① but: undersized culvert under main road - structural issues + sediment.
- stagnant pool downstream (result of scouring?)
sediment dep/setting/clogging
- ② Road runoff: low point flows into shallow depression (2-3')
on south side of road. Overflows into swale on property
and/or gut. Potential that gut overflows into depression too.

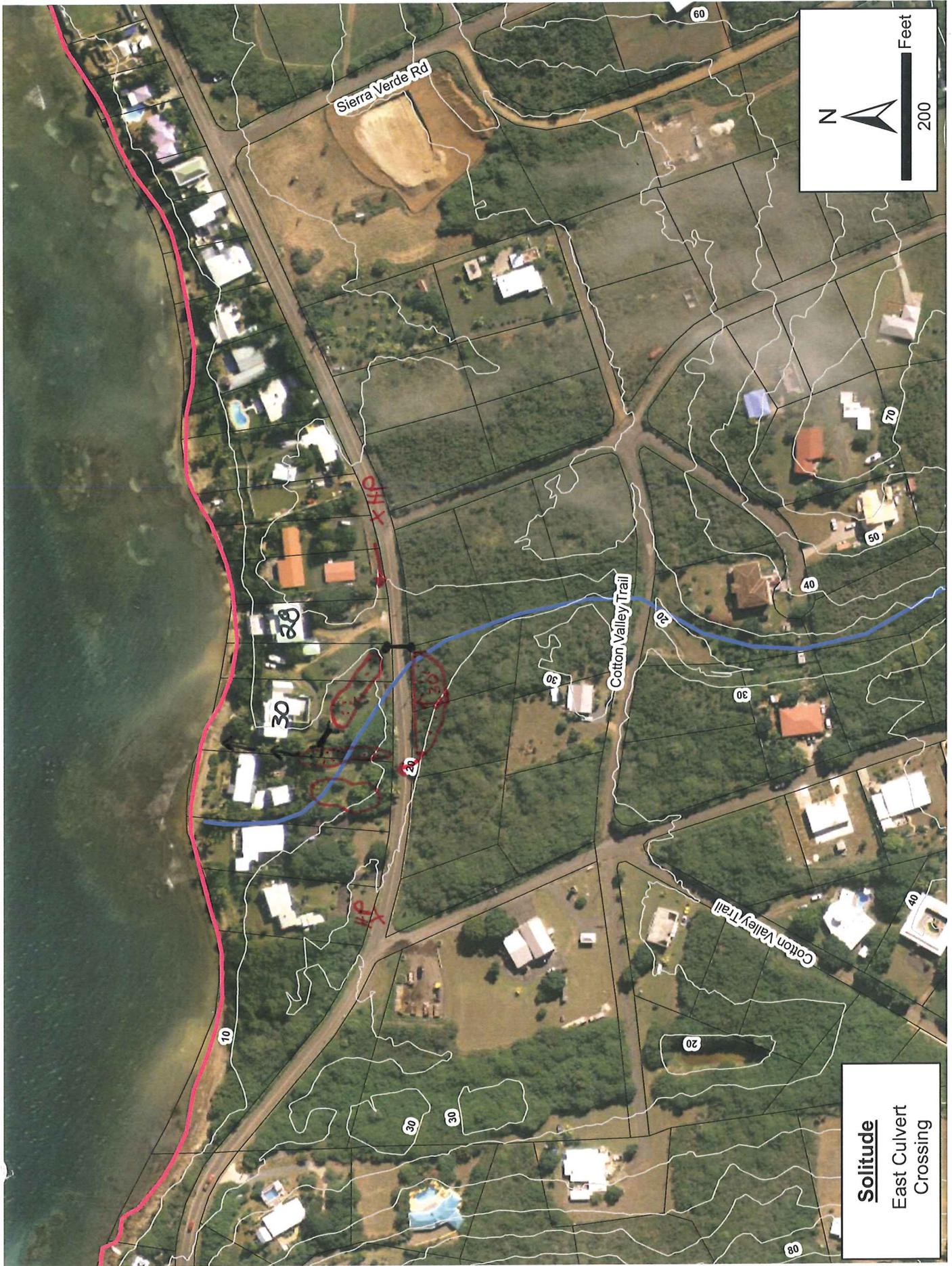
Sketch:

see aerial

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

- enlarge culverts
- enlarge depression, island bio

Thoughts on Maintenance Burden: Low Medium High

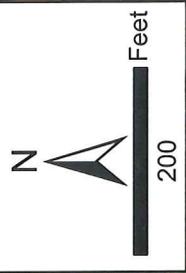


Sierra Verde Rd

Cotton Valley Trail

Cotton Valley Trail

Solitude
East Culvert
Crossing





Site/Road Name/ID: S-RC-08 near Blue water

Watershed: Splitude

Date: 1/25/11

Assessed by: mw/kk

EXISTING CONDITION

<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>15"</u> (ft) Height: _____ (ft) Culvert length: <u>unk</u> (ft) <i>- to beach</i> Width: _____ (ft) Roadway elevation: _____ (ft) <i>can't see thru 100'</i>
	CONDITION: (Evidence of...) <input checked="" type="checkbox"/> In good condition <i>(upstream)</i> <input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input type="checkbox"/> Flat <i>unk</i> <input checked="" type="checkbox"/> Slight (2-5%) <input type="checkbox"/> Steeper	
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input checked="" type="checkbox"/> significant <input checked="" type="checkbox"/> complete			IS IT FLOWING? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
	Potential barrier to aquatic species? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Unknown			IS IT ACTING AS GRADE CONTROL? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown	

<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input checked="" type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input checked="" type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: <u>18-20</u> (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input checked="" type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input checked="" type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):			
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW			

DESCRIPTION OF EXISTING CONDITIONS:

- Blc blocked, road flooding issues - conveyance directly to ocean via concrete swale over pipe from Culvert.

- Needs maintenance/cleaning

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER: *(will be at wed. night mtg.)*

22 Cotton valley

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site/Road Name/ID: SB-RC-0

Watershed: Solitude

Date: 1/24/11

Assessed by: MW/KR

Hope + Carbon

EXISTING CONDITION

<input type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: _____ (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft) Roadway elevation: _____ (ft)	
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper		
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input type="checkbox"/> significant <input type="checkbox"/> complete					
	Potential barrier to aquatic species? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown					
	Is it acting as grade control? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown					

<input checked="" type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input checked="" type="checkbox"/> Unpaved: >gravel <input checked="" type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input checked="" type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input checked="" type="checkbox"/> Private <input checked="" type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: <u>14</u> (ft) Drive lane: _____ (ft) Shoulder: <u>0</u> (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input checked="" type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input checked="" type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other:			
	Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input checked="" type="checkbox"/> need maintenance <input type="checkbox"/> other:			
	Ditches: <input checked="" type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input checked="" type="checkbox"/> eroded <input type="checkbox"/> other: <u>Pony Trail Culvert</u>			
SEVERITY OF PROBLEM: <input checked="" type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain): <p style="text-align: center;"><i>Major source of sediment / public safety hazard</i></p>				
POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input checked="" type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW				

DESCRIPTION OF EXISTING CONDITIONS:
Very steep, eroded roads - poorly functioning concrete waterbars in some areas that do not carry water (runoff scours around them)

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site/Road Name/ID: SB-RC-9 Rte 821 Cotton Valley Trail

Watershed: Solitude
Assessed by: mwj/kkr

Date: 1/25/11

EXISTING CONDITION						
<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input checked="" type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input checked="" type="checkbox"/> Concrete <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>24"</u> (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft) Roadway elevation: _____ (ft)	
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input checked="" type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input checked="" type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input checked="" type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper		
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input checked="" type="checkbox"/> significant <input checked="" type="checkbox"/> complete					Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Potential barrier to aquatic species? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Unknown					
	Is it acting as grade control? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown					
	<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:	
SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):				POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW		
DESCRIPTION OF EXISTING CONDITIONS: <div style="display: flex; justify-content: space-between; font-family: cursive;"> <div style="width: 30%;"> <p><u>2 culverts</u></p> <p><u>24" RCP/CMP</u></p> <p><u>unk CMP</u></p> <p><u>both blocked</u></p> </div> <div style="width: 30%; text-align: right;"> <p><u>1 culvert on</u></p> <p><u>Cotton Valley</u></p> <p><u>Trail, unknown</u></p> <p><u>diameter, completely</u></p> <p><u>blocked</u></p> </div> </div>						
POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW						
DESCRIPTION OF EXISTING CONDITIONS:						
NEXT STEPS						
Potential Repair Candidate? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> OTHER:						
CONTACT <input checked="" type="checkbox"/> DPW; <input type="checkbox"/> LANDOWNER <input type="checkbox"/> HOA; <input type="checkbox"/> OTHER:						

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site/Road Name/ID: SB-RC-10 Soultide Road

Watershed: Soultide

Date: 1/25/11

Assessed by: MWKR

EXISTING CONDITION

<p><i>2 culverts near each other</i></p> <p><input checked="" type="checkbox"/> CULVERTS</p>	<p>SHAPE:</p> <p><input type="checkbox"/> Arch <input type="checkbox"/> Bottomless</p> <p><input type="checkbox"/> Box <input type="checkbox"/> Elliptical</p> <p><input checked="" type="checkbox"/> Circular</p> <p><input type="checkbox"/> Other:</p>	<p># BARRELS:</p> <p><input checked="" type="checkbox"/> Single</p> <p><input type="checkbox"/> Double</p> <p><input type="checkbox"/> Triple</p> <p><input type="checkbox"/> Other:</p>	<p>MATERIAL:</p> <p><input type="checkbox"/> Concrete</p> <p><input checked="" type="checkbox"/> Metal</p> <p><input type="checkbox"/> Other:</p>	<p>ALIGNMENT:</p> <p><input type="checkbox"/> Flow-aligned</p> <p><input type="checkbox"/> Not flow-aligned</p> <p><input type="checkbox"/> Do not know</p>	<p>DIMENSIONS: (if variable, sketch)</p> <p>Barrel diameter: <u>30"</u> (ft)</p> <p>Height: _____ (ft)</p> <p>Culvert length: _____ (ft)</p> <p>Width: _____ (ft)</p> <p>Roadway elevation: _____ (ft)</p>	
	<p>CONDITION: (Evidence of...) <input type="checkbox"/> In good condition</p> <p><input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole</p> <p><input checked="" type="checkbox"/> Sediment deposition <input checked="" type="checkbox"/> Upstream erosion</p> <p><input checked="" type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment</p> <p><input checked="" type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):</p>		<p>CULVERT SLOPE:</p> <p><input type="checkbox"/> Flat</p> <p><input type="checkbox"/> Slight (2 - 5%)</p> <p><input type="checkbox"/> Steeper</p>			
	<p>BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input checked="" type="checkbox"/> partial <input type="checkbox"/> significant <input type="checkbox"/> complete</p>					<p>IS IT FLOWING?</p> <p><input type="checkbox"/> No <input type="checkbox"/> Yes</p>
	<p>Potential barrier to aquatic species? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Unknown</p>					
	<p>Is it acting as grade control? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown</p>					

<p><input type="checkbox"/> ROAD SEGMENTS</p>	<p>SURFACE:</p> <p><input type="checkbox"/> Concrete</p> <p><input type="checkbox"/> Asphalt</p> <p><input type="checkbox"/> Unpaved: >gravel</p> <p><input type="checkbox"/> Unpaved: >dirt</p> <p><input type="checkbox"/> Other</p>	<p>STEEPNESS:</p> <p><input type="checkbox"/> Pretty flat</p> <p><input type="checkbox"/> Slight (around 5:1, 20%)</p> <p><input type="checkbox"/> Steep (more like 2:1, 50%)</p> <p><input type="checkbox"/> Big time steep (≥ 75%)</p>	<p>ACCESS/USE:</p> <p><input type="checkbox"/> Private</p> <p><input type="checkbox"/> Public</p> <p><input type="checkbox"/> Unknown</p>	<p>Total ROW Width: _____ (ft)</p> <p>Drive lane: _____ (ft)</p> <p>Shoulder: _____ (ft)</p> <p>Length of interest: _____</p>
	<p>Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes</p> <p>Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other:</p> <p>Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other:</p> <p>Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other:</p> <p>Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:</p>			
	<p>SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):</p>			
	<p>POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW</p>			

DESCRIPTION OF EXISTING CONDITIONS:

2 culverts - at 30" CMP
both

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site/Road Name/ID: SB-RC-11

ZIGGY'S

Watershed: Solitude

Date: 1/25/11

Assessed by: mw/kkr

EXISTING CONDITION					
<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input checked="" type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: 30" (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft) Roadway elevation: _____ (ft)
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input checked="" type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input checked="" type="checkbox"/> Blockage <input checked="" type="checkbox"/> Failing embankment <input checked="" type="checkbox"/> Threatened infrastructure <input checked="" type="checkbox"/> Other (describe): <i>downstream scour hole, manhole covers, blockage</i>			CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper	
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input checked="" type="checkbox"/> significant <input type="checkbox"/> complete			IS IT FLOWING? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
	Potential barrier to aquatic species? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				
	Is it acting as grade control? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				
	<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep ($\geq 75\%$)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:					
SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):					
POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW					
DESCRIPTION OF EXISTING CONDITIONS: <p>4 culverts - All 30" CMP sediment + debris from Solitude road clogging culverts - require regular maintenance</p>					
NEXT STEPS					
Potential Repair Candidate? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> OTHER:					
CONTACT <input type="checkbox"/> DPW; <input type="checkbox"/> LANDOWNER <input type="checkbox"/> HOA; <input type="checkbox"/> OTHER:					

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High

unnamed Road
near fire Sta.



Site/Road Name/ID: SB-RC-13

Watershed: Solitude

Date: 1/25/11

Assessed by: MW/KR

EXISTING CONDITION						
<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Metal <input checked="" type="checkbox"/> Other: <u>Ø</u>	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input checked="" type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>24"</u> (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft)	
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input checked="" type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input checked="" type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper <u>unknown</u>	Roadway elevation: _____ (ft)	
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input checked="" type="checkbox"/> significant <input type="checkbox"/> complete			IS IT FLOWING? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
	Potential barrier to aquatic species? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Unknown					Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Is it acting as grade control? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Unknown					
	<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:	
SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):				POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW		
DESCRIPTION OF EXISTING CONDITIONS: <div style="font-family: cursive; font-size: 1.2em;"> 24" CMP/DI could not locate upstream end due to veg at edge of pond. Downstream end clogged w/ veg. </div>						
NEXT STEPS Potential Repair Candidate? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> OTHER: CONTACT <input checked="" type="checkbox"/> DPW; <input type="checkbox"/> LANDOWNER <input type="checkbox"/> HOA; <input type="checkbox"/> OTHER:						

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High

STX EE WATERSHEDS

East End Rd.
near

ROADS & CULVERTS



Site/Road Name/ID: SB-RC-14 Fire Sta.

Watershed: Solitude

Date: 1/25/11

Assessed by: mw/kp

EXISTING CONDITION

<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input checked="" type="checkbox"/> Concrete <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input checked="" type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: 30" (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft) Roadway elevation: _____ (ft)
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input checked="" type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input checked="" type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input checked="" type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):		CULVERT SLOPE: <input type="checkbox"/> Flat <input checked="" type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper		
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input checked="" type="checkbox"/> significant <input type="checkbox"/> complete				
	Potential barrier to aquatic species? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Unknown				
	Is it acting as grade control? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Unknown				
IS IT FLOWING? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes					

<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):			
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW			

DESCRIPTION OF EXISTING CONDITIONS:
 30" RCP mostly
 Downstream end ~~disrupted~~ submerged
 Scour hole, gabian baskets need repair.

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High

East End Rd. culverts - west



Site/Road Name/ID: SB-RC-15

Watershed: Solitude

Date: 1/26/11

Assessed by: MW/KR

EXISTING CONDITION

<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>15-18" (see below)</u> (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft) Roadway elevation: _____ (ft)
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input checked="" type="checkbox"/> Cracking/chipping/corrosion <input checked="" type="checkbox"/> Downstream scour hole <input checked="" type="checkbox"/> Sediment deposition <input checked="" type="checkbox"/> Upstream erosion <input checked="" type="checkbox"/> Blockage <input checked="" type="checkbox"/> Failing embankment <input checked="" type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):		CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper		
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input checked="" type="checkbox"/> significant <input type="checkbox"/> complete				
	Potential barrier to aquatic species? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				
	Is it acting as grade control? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				

<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):			
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> Low			

DESCRIPTION OF EXISTING CONDITIONS:

3 culverts - west - East to west

18" RCP - scour, need riprap
18" RCP - chipping, blockage
15" RCP - farmland up, block, sediment
~~*18" RCP - scour hole, stabilization need.*~~
~~*24" RCP - scour hole, stab needed*~~

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW: LANDOWNER HOA; OTHER:

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High

STX EE WATERSHEDS

East End Rd Culverts - Cokerly Bay Condos

ROADS & CULVERTS



Site/Road Name/ID: SB-RC-16

Watershed: Solitude

Date: 1/26/11

Assessed by: MW/KR

EXISTING CONDITION

<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input checked="" type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>18</u> (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft)
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input checked="" type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input type="checkbox"/> Flat <input checked="" type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper	Roadway elevation: _____ (ft)
	BLOCKAGE SEVERITY: <input checked="" type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input type="checkbox"/> significant <input type="checkbox"/> complete			IS IT FLOWING? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
	Potential barrier to aquatic species? <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Unknown				
	Is it acting as grade control? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				

<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other:			
	Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other:			
	Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other:			
	Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):				
POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW				

DESCRIPTION OF EXISTING CONDITIONS:
 Dry weather flow from black PVC pipe. See retrofit section for more on this area. Receives flow from Cokerly Bay Condos.

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW; LANDOWNER HOA; OTHER:
 Condo association

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High

East End Rd -
East of Coakley
Bay Condos



Site/Road Name/ID: SB-RC-17

Watershed: Solitude

Date: 1/26/11

Assessed by: MW/KR

EXISTING CONDITION					
<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input checked="" type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>15</u> (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft) Roadway elevation: _____ (ft)
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input checked="" type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input checked="" type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):		CULVERT SLOPE: <input type="checkbox"/> Flat <input checked="" type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper	IS IT FLOWING? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input checked="" type="checkbox"/> significant <input type="checkbox"/> complete				
	Potential barrier to aquatic species? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				
	Is it acting as grade control? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				
<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep ($\geq 75\%$)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____	
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:				
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):				
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> LOW				
DESCRIPTION OF EXISTING CONDITIONS: <p style="font-size: 1.2em;">Upstream end is mostly blocked with vegetation. Downstream end is also clogged with vegetation and there is a large Scour hole that needs to be stabilized. Larger culvert is necessary.</p>					
NEXT STEPS					
Potential Repair Candidate? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> OTHER:					
CONTACT <input checked="" type="checkbox"/> DPW; <input type="checkbox"/> LANDOWNER <input type="checkbox"/> HOA; <input type="checkbox"/> OTHER:					

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site/Road Name/ID: SB-RC-18 neighborhood Watershed: solitude

Date: 1/25/11 Assessed by: MW/KR

EXISTING CONDITION					
<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Other:	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: <u>12"</u> (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft)
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input checked="" type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper	Roadway elevation: _____ (ft)
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input type="checkbox"/> significant <input checked="" type="checkbox"/> complete				
	Potential barrier to aquatic species? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Unknown				
	Is it acting as grade control? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				
ROAD SEGMENTS					
SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other		STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)		ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	
Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____					
Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:					
SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):					
POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> Low					
DESCRIPTION OF EXISTING CONDITIONS: <div style="font-size: 1.2em; margin-top: 20px;"> 12" CMP - appears completely blocked </div>					
NEXT STEPS					
Potential Repair Candidate? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> OTHER:					
CONTACT: <input checked="" type="checkbox"/> DPW; <input type="checkbox"/> LANDOWNER <input checked="" type="checkbox"/> HOA; <input type="checkbox"/> OTHER:					

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High



Site/Road Name/ID: SB-RC-19# East

Watershed: Solitude

Date: 1/20/11

Assessed by: MW/KR

EXISTING CONDITION

<input checked="" type="checkbox"/> CULVERTS	SHAPE: <input type="checkbox"/> Arch <input type="checkbox"/> Bottomless <input type="checkbox"/> Box <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Other:	# BARRELS: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other:	MATERIAL: <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Metal <input checked="" type="checkbox"/> Other: PVC	ALIGNMENT: <input type="checkbox"/> Flow-aligned <input type="checkbox"/> Not flow-aligned <input type="checkbox"/> Do not know	DIMENSIONS: (if variable, sketch) Barrel diameter: 24" (ft) Height: _____ (ft) Culvert length: _____ (ft) Width: _____ (ft) Roadway elevation: _____ (ft)
	CONDITION: (Evidence of...) <input type="checkbox"/> In good condition <input type="checkbox"/> Cracking/chipping/corrosion <input type="checkbox"/> Downstream scour hole <input type="checkbox"/> Sediment deposition <input type="checkbox"/> Upstream erosion <input type="checkbox"/> Blockage <input type="checkbox"/> Failing embankment <input type="checkbox"/> Threatened infrastructure <input type="checkbox"/> Other (describe):			CULVERT SLOPE: <input type="checkbox"/> Flat <input type="checkbox"/> Slight (2 - 5%) <input type="checkbox"/> Steeper	
	BLOCKAGE SEVERITY: <input type="checkbox"/> none <input type="checkbox"/> minor <input type="checkbox"/> partial <input type="checkbox"/> significant <input type="checkbox"/> complete			IS IT FLOWING? <input type="checkbox"/> No <input type="checkbox"/> Yes	
	Potential barrier to aquatic species? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				
	Is it acting as grade control? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown				

<input type="checkbox"/> ROAD SEGMENTS	SURFACE: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Unpaved: >gravel <input type="checkbox"/> Unpaved: >dirt <input type="checkbox"/> Other	STEEPNESS: <input type="checkbox"/> Pretty flat <input type="checkbox"/> Slight (around 5:1, 20%) <input type="checkbox"/> Steep (more like 2:1, 50%) <input type="checkbox"/> Big time steep (≥ 75%)	ACCESS/USE: <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Unknown	Total ROW Width: _____ (ft) Drive lane: _____ (ft) Shoulder: _____ (ft) Length of interest: _____
	Surface: <input type="checkbox"/> good condition <input type="checkbox"/> minor maintenance needed <input type="checkbox"/> large gullies and potholes Drain Inlets/Catch basins: <input type="checkbox"/> None <input type="checkbox"/> clean <input type="checkbox"/> blocked <input type="checkbox"/> other: Waterbars/dips/cross drains: <input type="checkbox"/> None <input type="checkbox"/> functioning <input type="checkbox"/> need maintenance <input type="checkbox"/> other: Ditches: <input type="checkbox"/> none <input type="checkbox"/> shallow <input type="checkbox"/> well-defined <input type="checkbox"/> stable <input type="checkbox"/> eroded <input type="checkbox"/> excess vegetation <input type="checkbox"/> other: Discharge locations: <input type="checkbox"/> Stable <input type="checkbox"/> some erosion <input type="checkbox"/> eroded <input type="checkbox"/> other:			
	SEVERITY OF PROBLEM: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low (Explain):			
	POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input type="checkbox"/> Low			

DESCRIPTION OF EXISTING CONDITIONS:
2 PVC pipes - unknown source (8")
- septic smell

NEXT STEPS

Potential Repair Candidate? YES NO OTHER:

CONTACT DPW: LANDOWNER HOA: OTHER:

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: Low Medium High