



Voice Communications System

VIPER Strategic Estimates

ALAMANCE

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	200	BURLINGTON			201		029	TELCO	857.2625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse BURLINGTON tower, study required, insufficient building space, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	47	CANE MOUNTAIN			315		149	M/W	859.2625

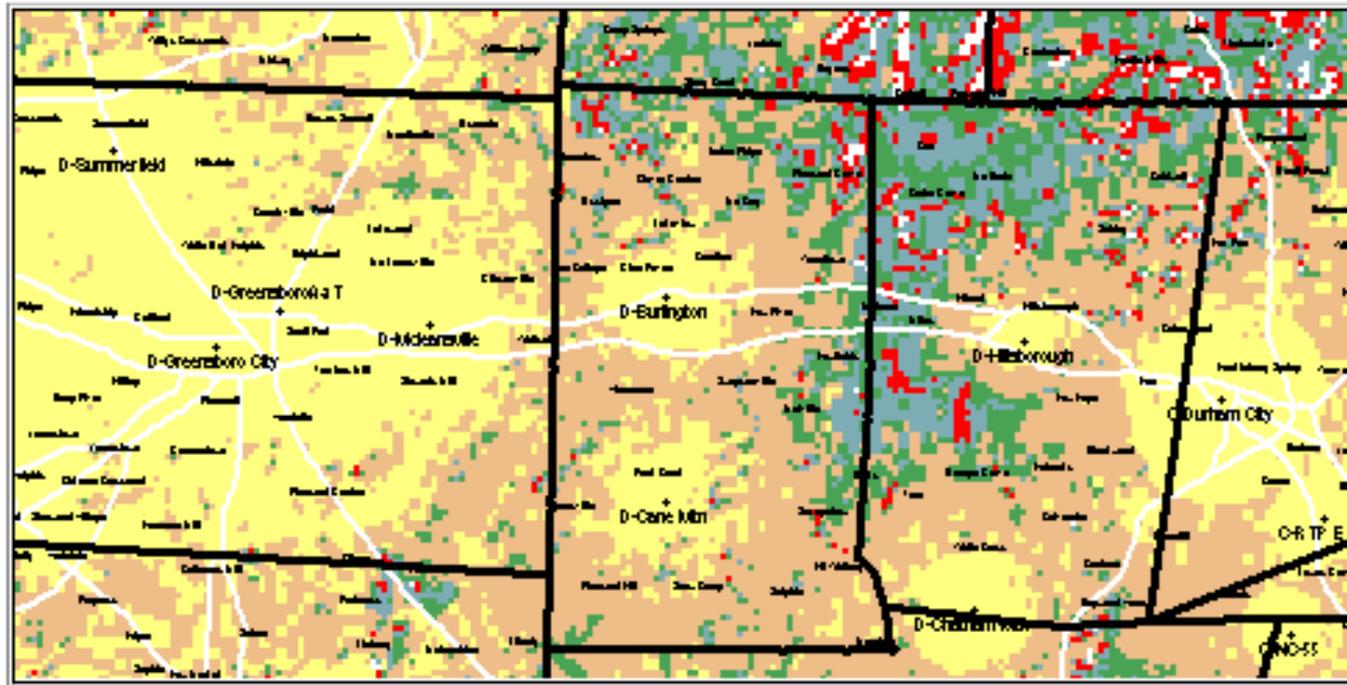
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$10,000.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse SHP tower, study required, insufficient building space, generator needed



Alamance County



800 MHz Portable Talk-Back Coverage Analysis





Voice Communications System

VIPER Strategic Estimates

ALEXANDER

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	NEW	EASTERN ALEXANDER							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

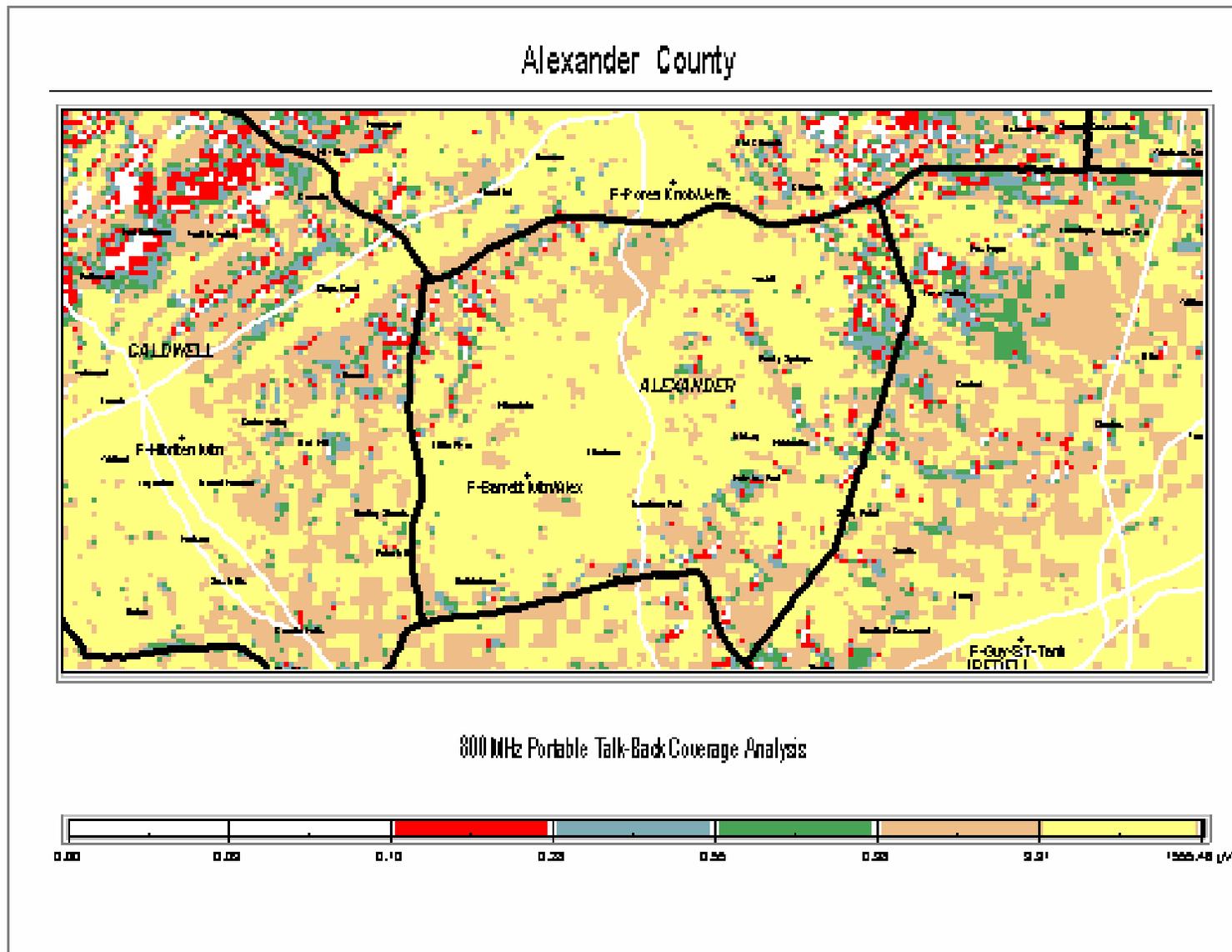
Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	145	BARRETT MOUNTAIN			535		103	TELCO	854.9875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.





Voice Communications System

VIPER Strategic Estimates

ALLEGHANY

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	NEW	WESTERN ALLEGHANY							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	NEW	EASTERN ALLEGHANY							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.



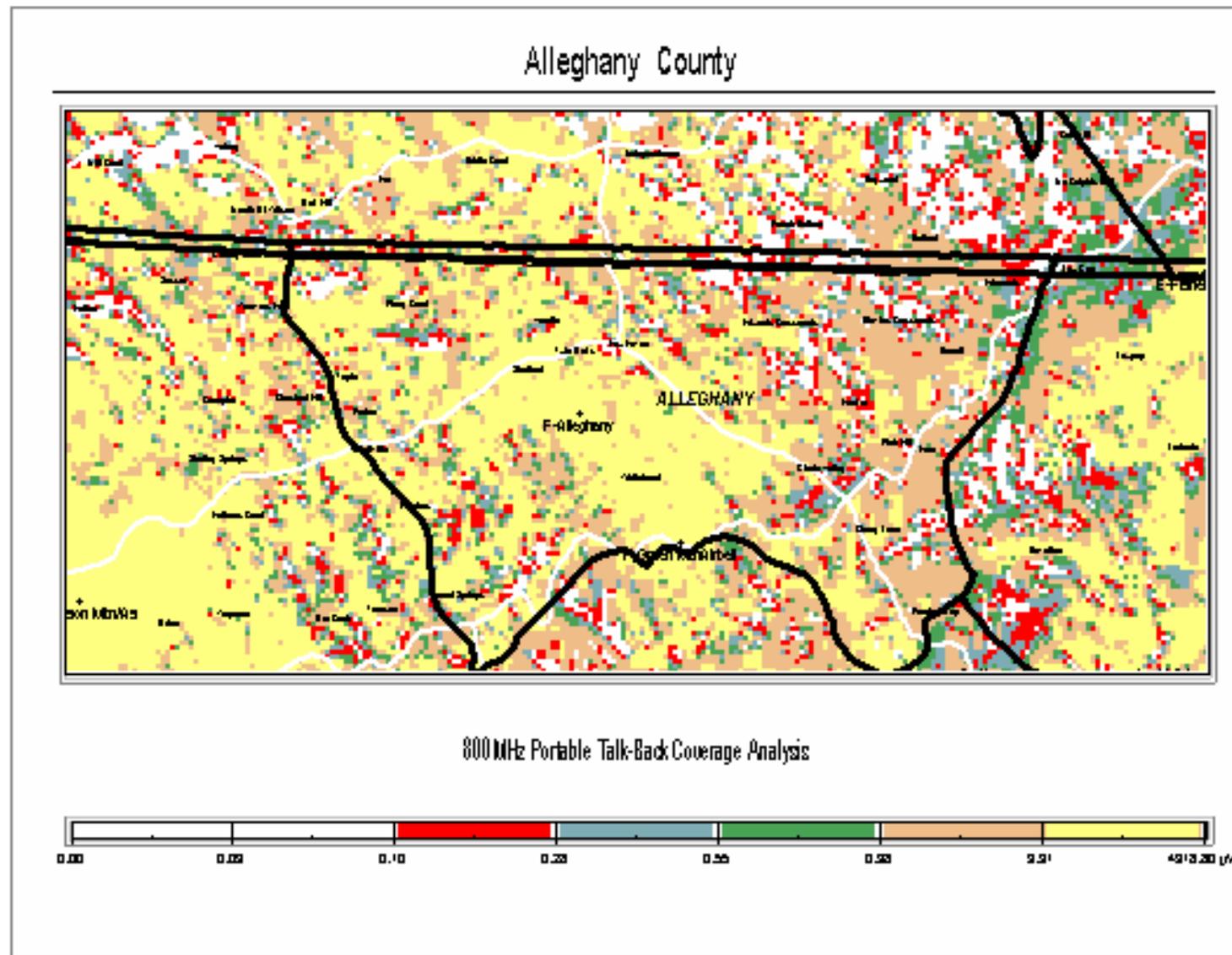
Voice Interoperability Plan for Emergency Responders
A CSN Module

Voice Communications System

VIPER Strategic Estimates

ALLEGHANY COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$54,000.00	\$20,000.00	\$0.00	\$370,000.00	\$50,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$0.00	\$700,000.00		\$0.00	\$200,000.00
				Grand Total
				\$1,874,000.0





Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	56	WADESBORO			98		063	TELCO	855.2125

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	YES	\$5,000.00

Comments Reuse SHP tower, study required, sufficient building space, no generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	NEW	SOUTHERN ANSON							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

ANSON COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$27,000.00	\$70,000.00	\$20,000.00	\$185,000.00	\$50,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$15,000.00	\$250,000.00	\$5,000.00	\$5,000.00	\$105,000.00
				Grand Total
				\$1,242,000.0



Voice Communications System

VIPER Strategic Estimates

ASHE

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	NEW	NORTHWESTERN ASHE							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	150	PHOENIX MOUNTAIN			1436		110	TELCO	860.4375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$25,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	61	JEFFERSON MT			1428		064	TELCO	855.9625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	UPS	Microwave	Generator Suitable Y/N	Generator
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$25,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	NEW	SOUTHWESTERN ASHE							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	UPS	Microwave	Generator Suitable Y/N	Generator
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.



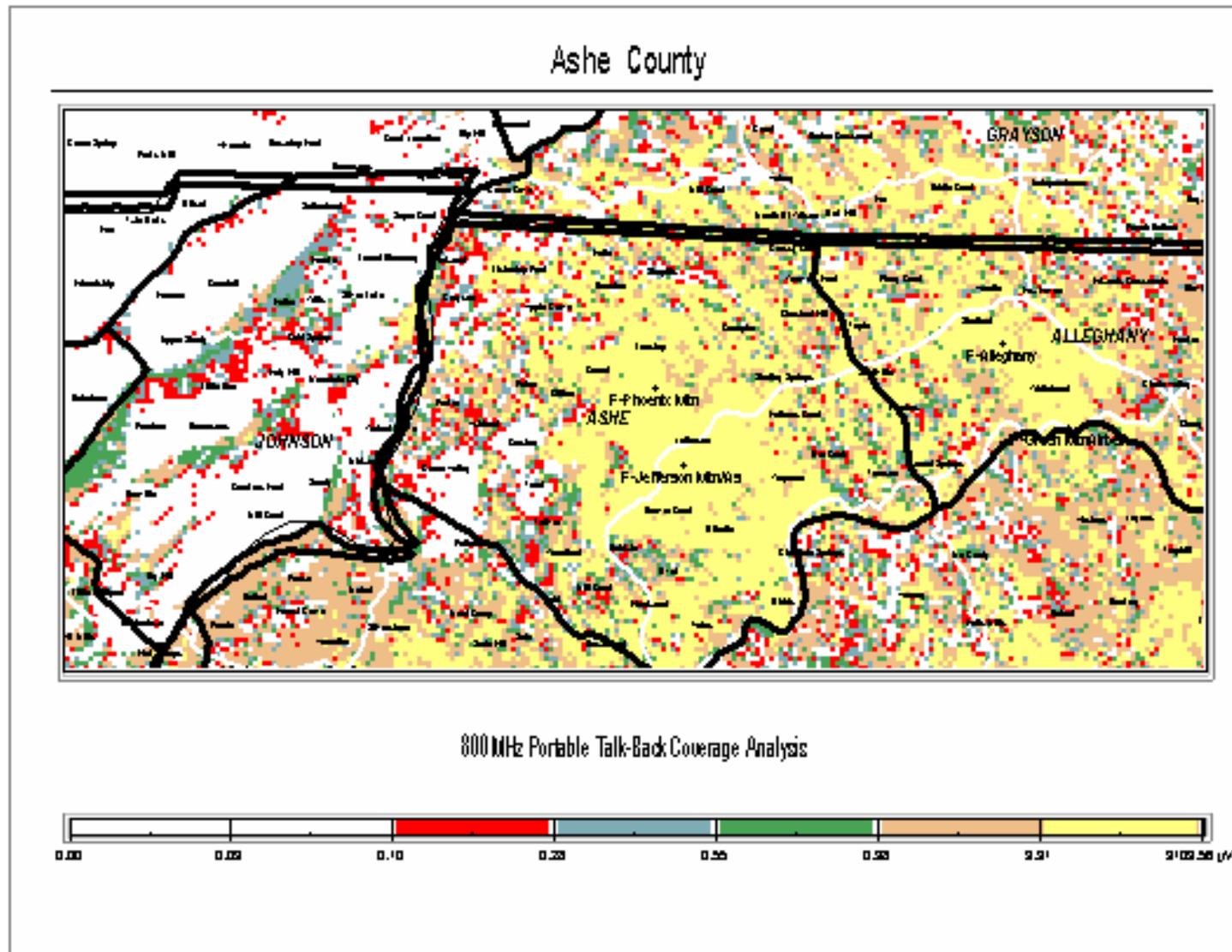
Voice Interoperability Plan for Emergency Responders
A CSN Module

Voice Communications System

VIPER Strategic Estimates

ASHE COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$1,000,000.00	\$40,000.00	\$40,000.00	\$140,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$108,000.00	\$40,000.00	\$0.00	\$740,000.00	\$100,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$0.00	\$700,000.00		\$50,000.00	\$210,000.00
				Grand Total
				\$3,098,000.0





Voice Communications System

VIPER Strategic Estimates

AVERY

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	62	LINVILLE			1404		051	M/W	855.7125

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$15,000.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$10,000.00	\$5,000.00	NO	\$0.00

Comments Reuse SHP tower, study required, sufficient building space, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	185	HAWSHAW MTN.			1257		151	TELCO	855.2125

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00		\$0.00	YES	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	NEWLAND							

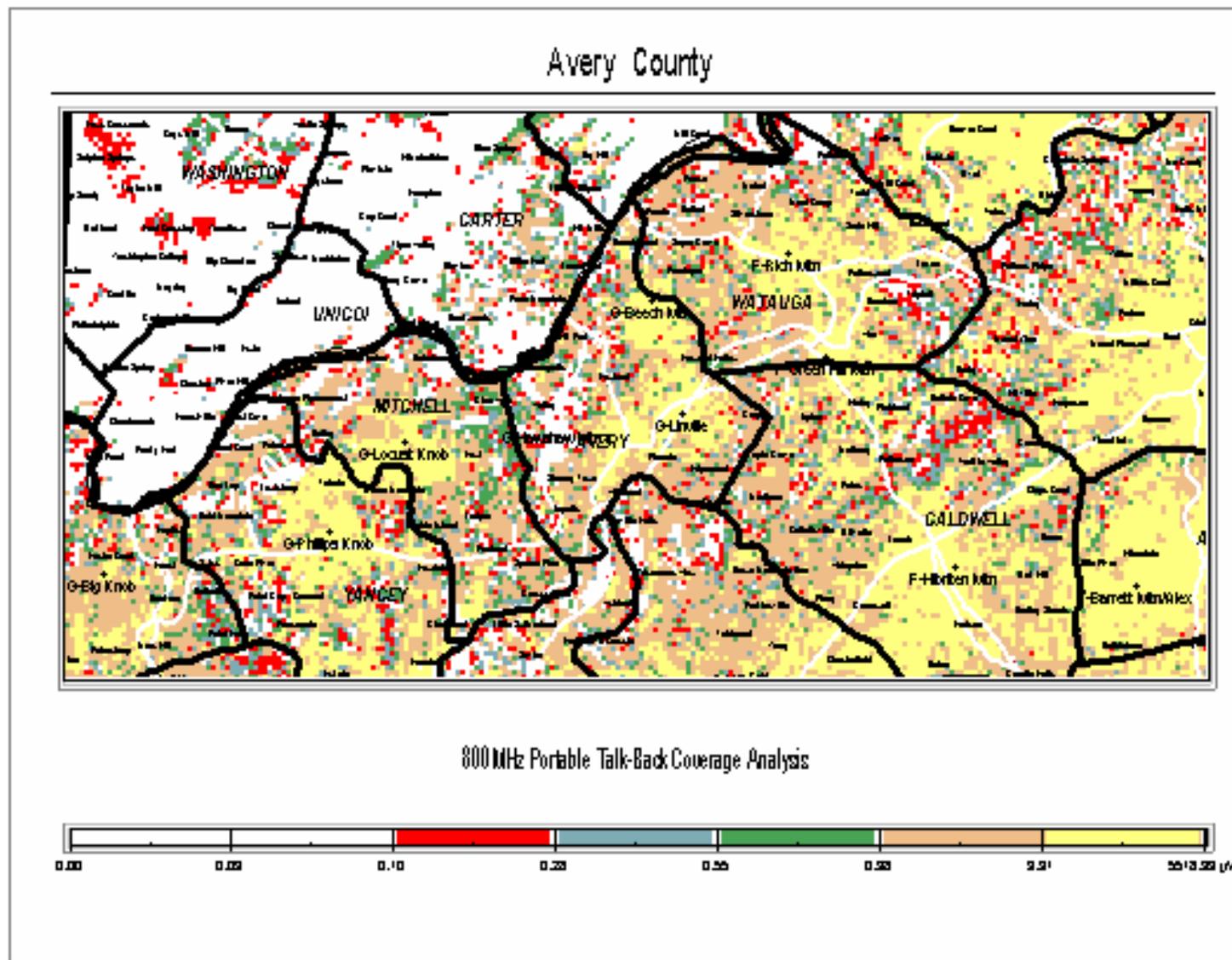
Costs

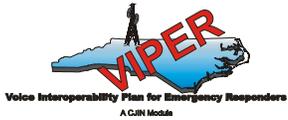
Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$5,000.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

AVERY COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$750,000.00	\$30,000.00	\$30,000.00	\$105,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$54,000.00	\$85,000.00	\$30,000.00	\$370,000.00	\$50,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$15,000.00	\$600,000.00	\$10,000.00	\$10,000.00	\$105,000.00
Grand Total				\$2,139,000.0





Voice Communications System

VIPER Strategic Estimates

BEAUFORT

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	30	CHOCOWINITY			15		065	TELCO	855.9625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$25,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$5,000.00	\$0.00	\$0.00	\$5,000.00	Yes	\$0.00

Comments Reuse SHP tower, study required, insufficient building space, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	184	HUNTERS BRIDGE			2		148	TELCO	855.4625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	NEW	EASTERN BEAUFORT							

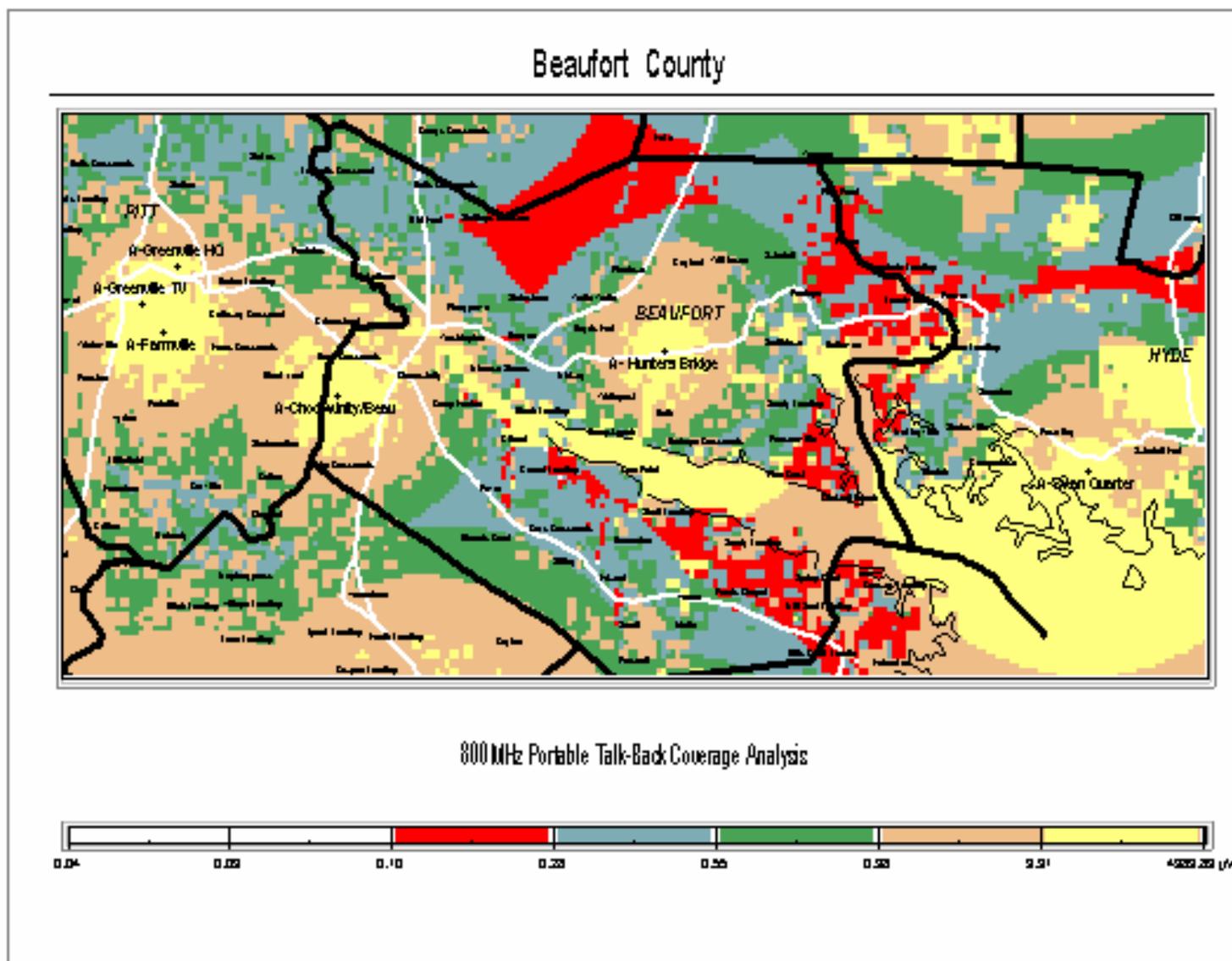
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$5,000.00	NO	\$100,000.00

Comments Reuse SHP tower, study required, insufficient building space, generator needed

BEAUFORT COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse	
\$750,000.00	\$30,000.00	\$30,000.00	\$105,000.00	\$0.00	
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New		
\$81,000.00	\$95,000.00	\$30,000.00	\$370,000.00	\$75,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis	
\$5,000.00	\$600,000.00	\$0.00	\$10,000.00	\$105,000.00	
				Grand Total	\$2,181,000.0





Voice Communications System

VIPER Strategic Estimates

BERTIE

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	124	WINDSOR			15		066	TELCO	860.7125

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	NEW	WESTERN BERTIE							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.



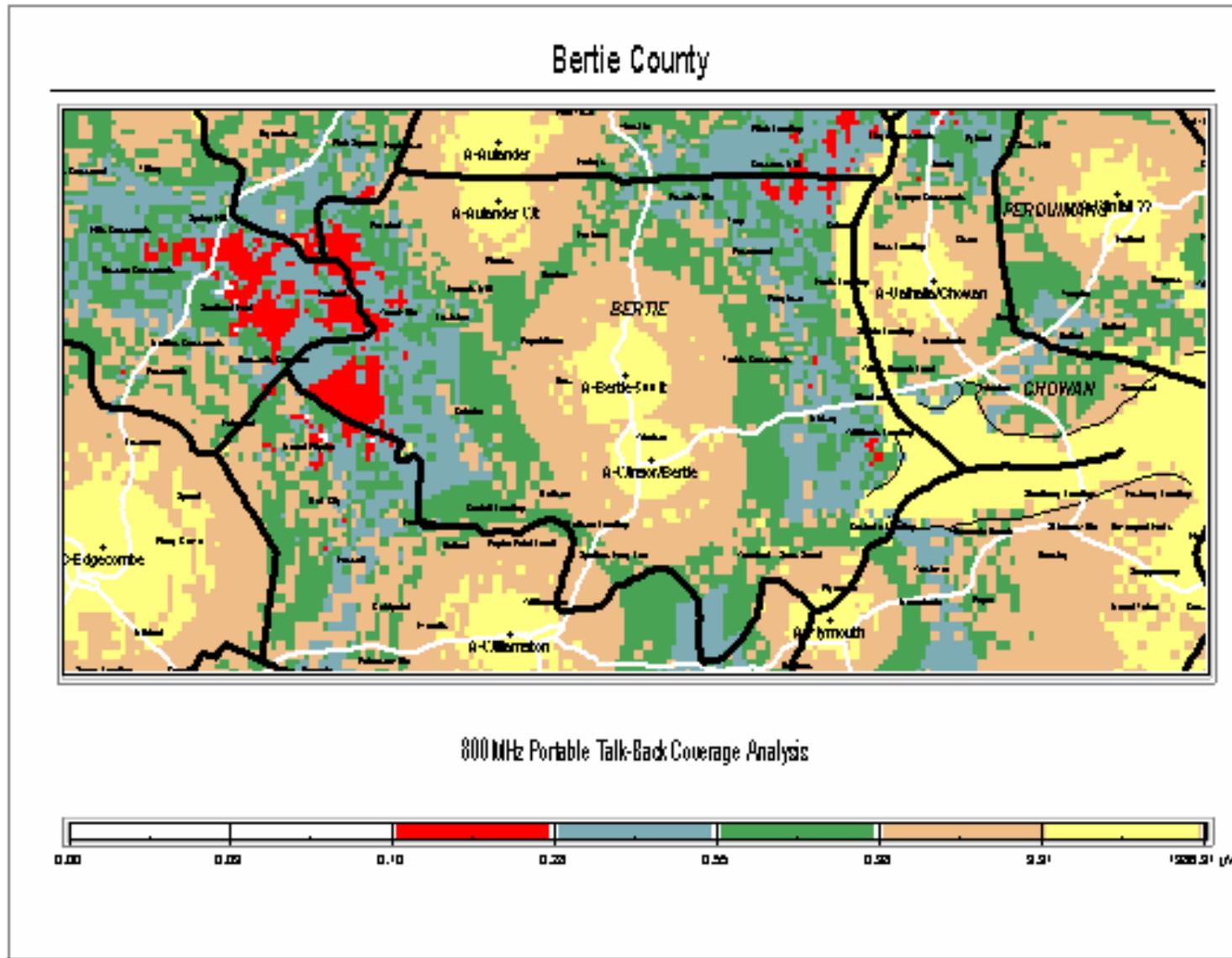
Voice Interoperability Plan for Emergency Responders
A CSN Module

Voice Communications System

VIPER Strategic Estimates

BERTIE COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$54,000.00	\$20,000.00	\$0.00	\$370,000.00	\$50,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$0.00	\$500,000.00		\$0.00	\$105,000.00
				Grand Total
				\$1,674,000.0





Voice Communications System

VIPER Strategic Estimates

BLADEN

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	41	ELIZABETHTOWN			32		067	TELCO	855.7375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse SHP tower, study required, insufficient building space, generator needed

BLADEN COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$0.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00
Grand Total				\$400,000.00



Voice Communications System

VIPER Strategic Estimates

BRUNSWICK

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	175	SUNSET BEACH			5		137	TELCO	854.9875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	39	WINNABOW			18				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse SHP tower, no study required, sufficient building space, generator needed



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	88	SUPPLY			9				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Rebuild SHP tower, insufficient building space, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	94	BOLIVIA			13		046	TELCO	854.9625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$0.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$0.00

Comments Reuse BRUNSWICK tower, study required, insufficient building space, generator needed.



Voice Interoperability Plan for Emergency Responders
A CSN Module

Voice Communications System

VIPER Strategic Estimates

BRUNSWICK COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$750,000.00	\$30,000.00	\$30,000.00	\$105,000.00	\$15,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$27,000.00	\$40,000.00	\$5,000.00	\$555,000.00	\$100,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$15,000.00	\$500,000.00		\$10,000.00	\$15,000.00
			Grand Total	\$2,287,000.0



Voice Communications System

VIPER Strategic Estimates

BUNCOMBE

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	123	SPIVEY MOUNTAIN			1011		062	TELCO	859.7375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	Yes	\$5,000.00

Comments Reuse SHP tower, study required, insufficient building space, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	NORTHWESTERN							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$5,000.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	65	MEADOWS-PEACH KNOB			1174		107	TELCO	859.7375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Equipment Room Upfit	Microwave	Generator Suitable Y/N	Generator
\$0.00	\$35,000.00	\$10,000.00	\$75,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$0.00	NO	\$5,000.00

Comments Reuse SHP tower, study required, sufficient building space, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	147	FRYING PAN GAP			1511		106	TELCO	858.7375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Equipment Room Upfit	Microwave	Generator Suitable Y/N	Generator
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00		\$0.00	YES	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	64	ASHEVILLE			605				

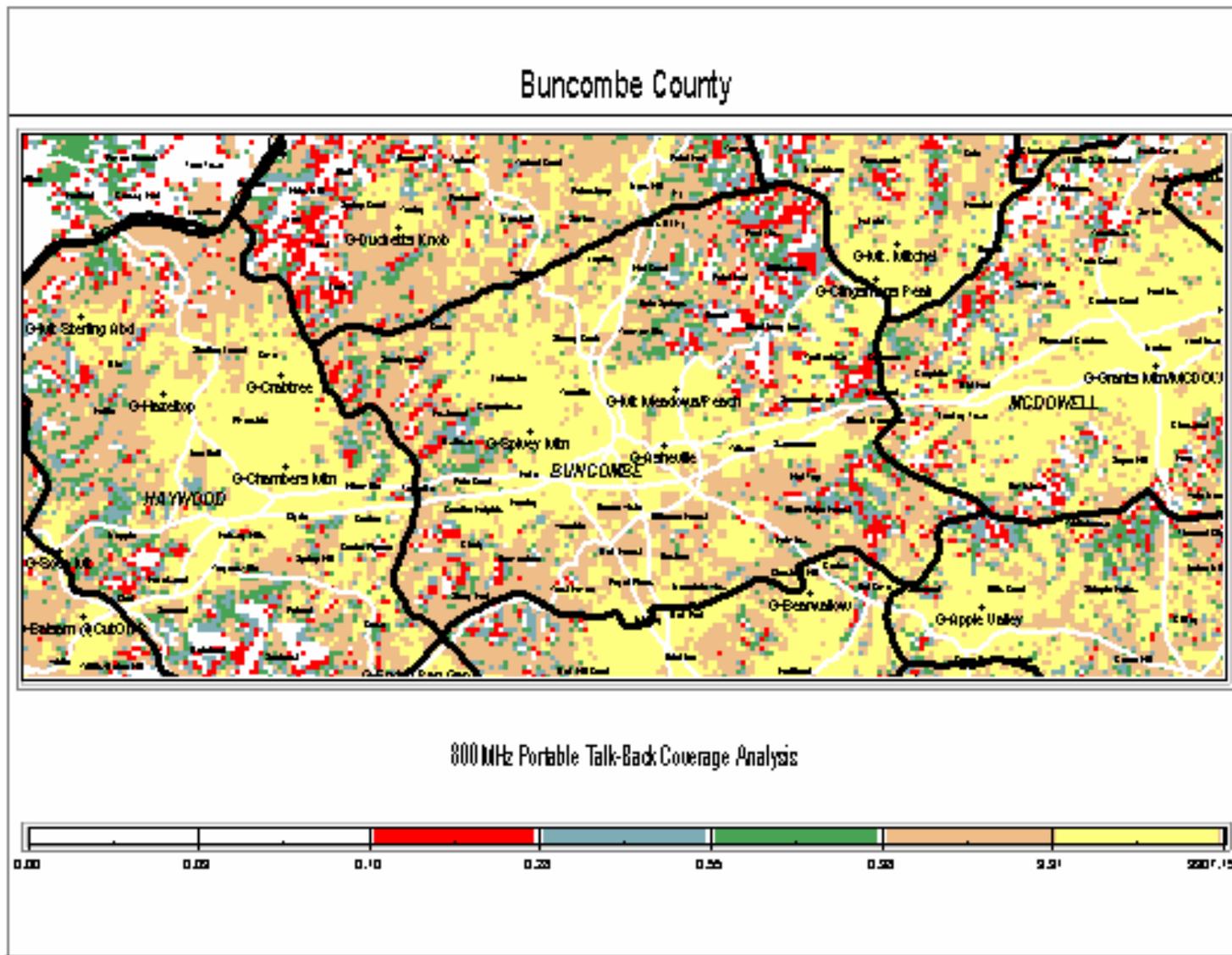
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$10,000.00	\$0.00		\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$0.00	\$65,000.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$0.00	NO	\$5,000.00

Comments Reuse SHP tower, study required, sufficient building space, no generator needed

BUNCOMBE COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse	
\$1,000,000.00	\$40,000.00	\$50,000.00	\$140,000.00	\$0.00	
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New		
\$81,000.00	\$140,000.00	\$40,000.00	\$695,000.00	\$100,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis	
\$30,000.00	\$600,000.00	\$0.00	\$10,000.00	\$120,000.00	
				Grand Total	\$2,926,000.0





Voice Communications System

VIPER Strategic Estimates

BURKE									
Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	114	HIGH PEAK MTN			666		047	TELCO	859.4375

Costs											
Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse	Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00	\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis						
\$0.00	\$0.00	\$0.00	\$25,000.00	Yes	\$5,000.00						

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	NEW	NORTHERN BURKE							

Costs											
Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse	Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00	\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis						
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00						

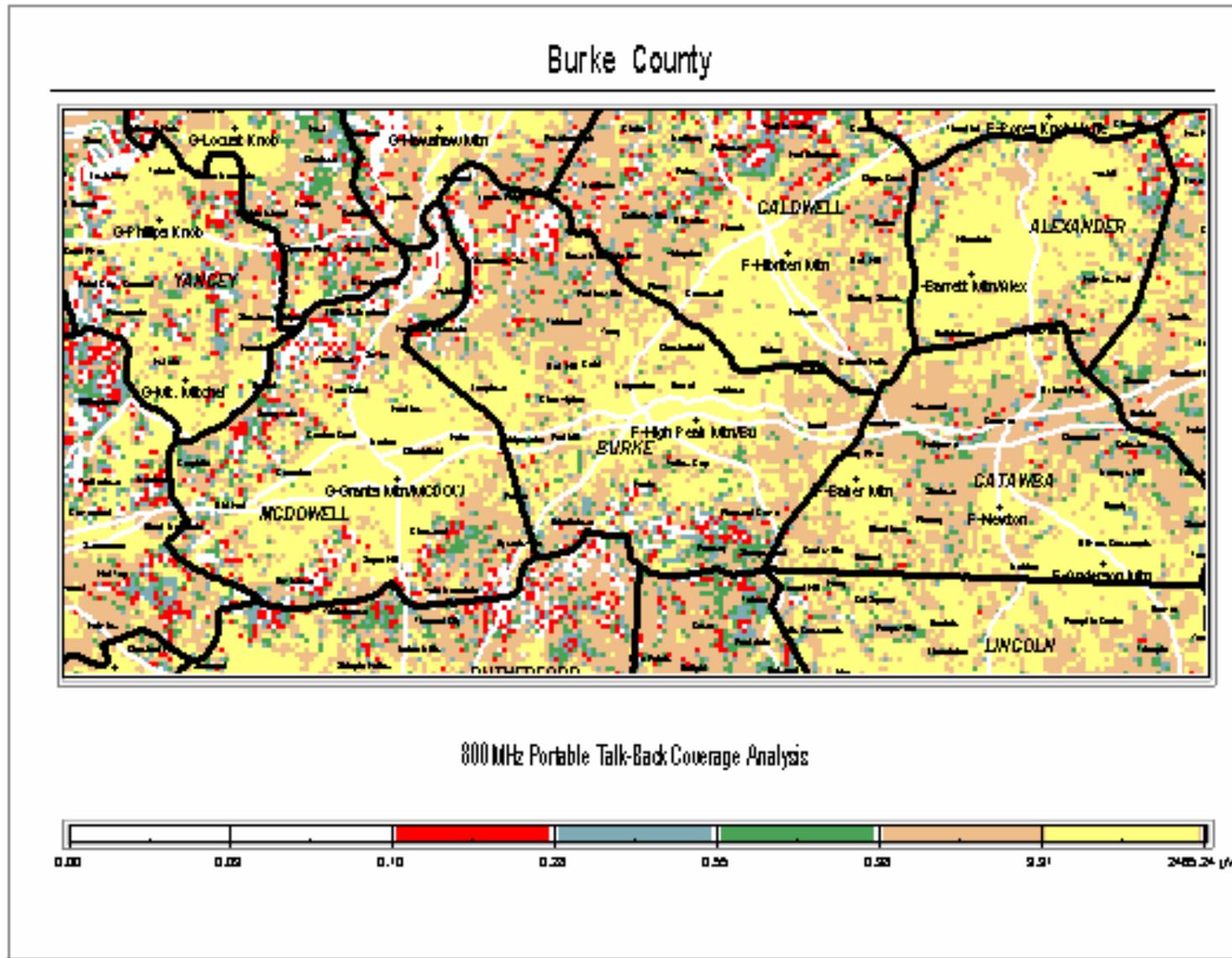
Comments Construct new tower on to be purchased land, building and generator needed.



VIPER Strategic Estimates

BURKE COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$54,000.00	\$70,000.00	\$20,000.00	\$370,000.00	\$50,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$25,000.00	\$105,000.00
				Grand Total
				\$1,549,000.0





Voice Communications System

VIPER Strategic Estimates

CABARRUS

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	54	CONCORD			193		038	M/W	866.9375

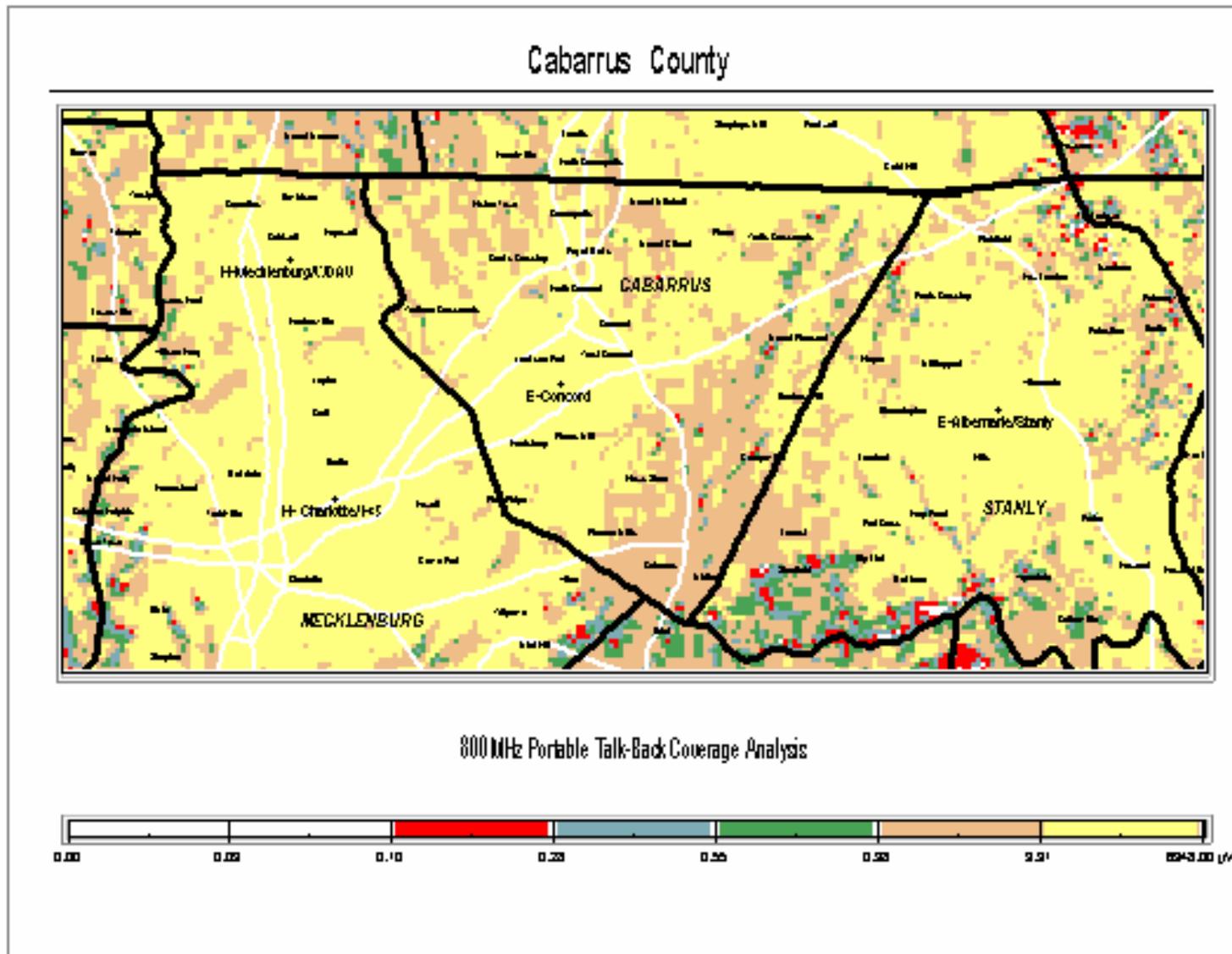
Costs

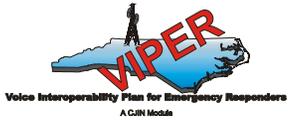
Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$35,000.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$0.00	No	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse SHP tower, study required, sufficient building space, no generator needed

CABARRUS COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$0.00	\$0.00	\$0.00	\$35,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$0.00	\$0.00	\$10,000.00	\$0.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00
Grand Total				\$70,000.00





Voice Communications System

VIPER Strategic Estimates

CALDWELL

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	124	HIBRITEN MT			631		068	TELCO	860.7125

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	NEW	NORTHERN CALDWELL							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.



Voice Interoperability Plan for Emergency Responders
A CSN Module

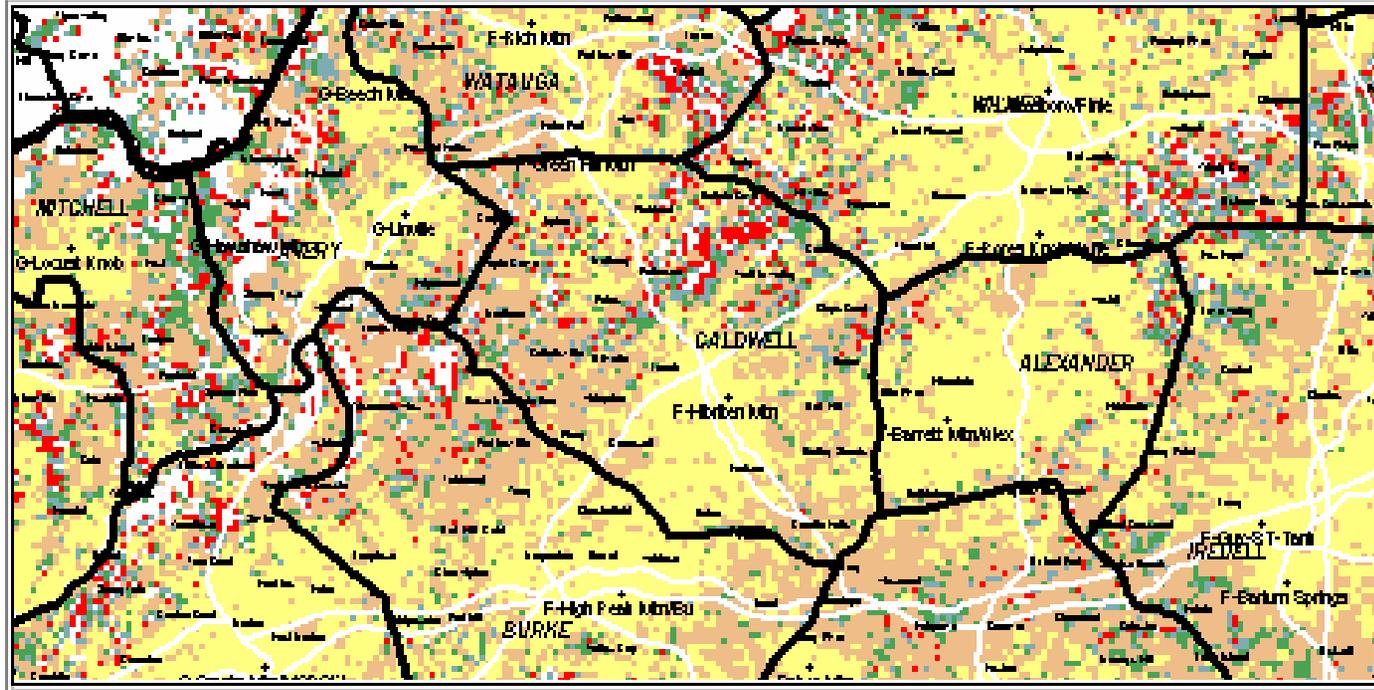
Voice Communications System

VIPER Strategic Estimates

CALDWELL COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$27,000.00	\$20,000.00	\$5,000.00	\$370,000.00	\$50,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$0.00	\$350,000.00		\$5,000.00	\$105,000.00
				Grand Total
				\$1,512,000.0

Caldwell County



800 MHz Portable Talk-Back Coverage Analysis





Voice Communications System

VIPER Strategic Estimates

CAMDEN

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	NEW	NORTHERN CAMDEN							

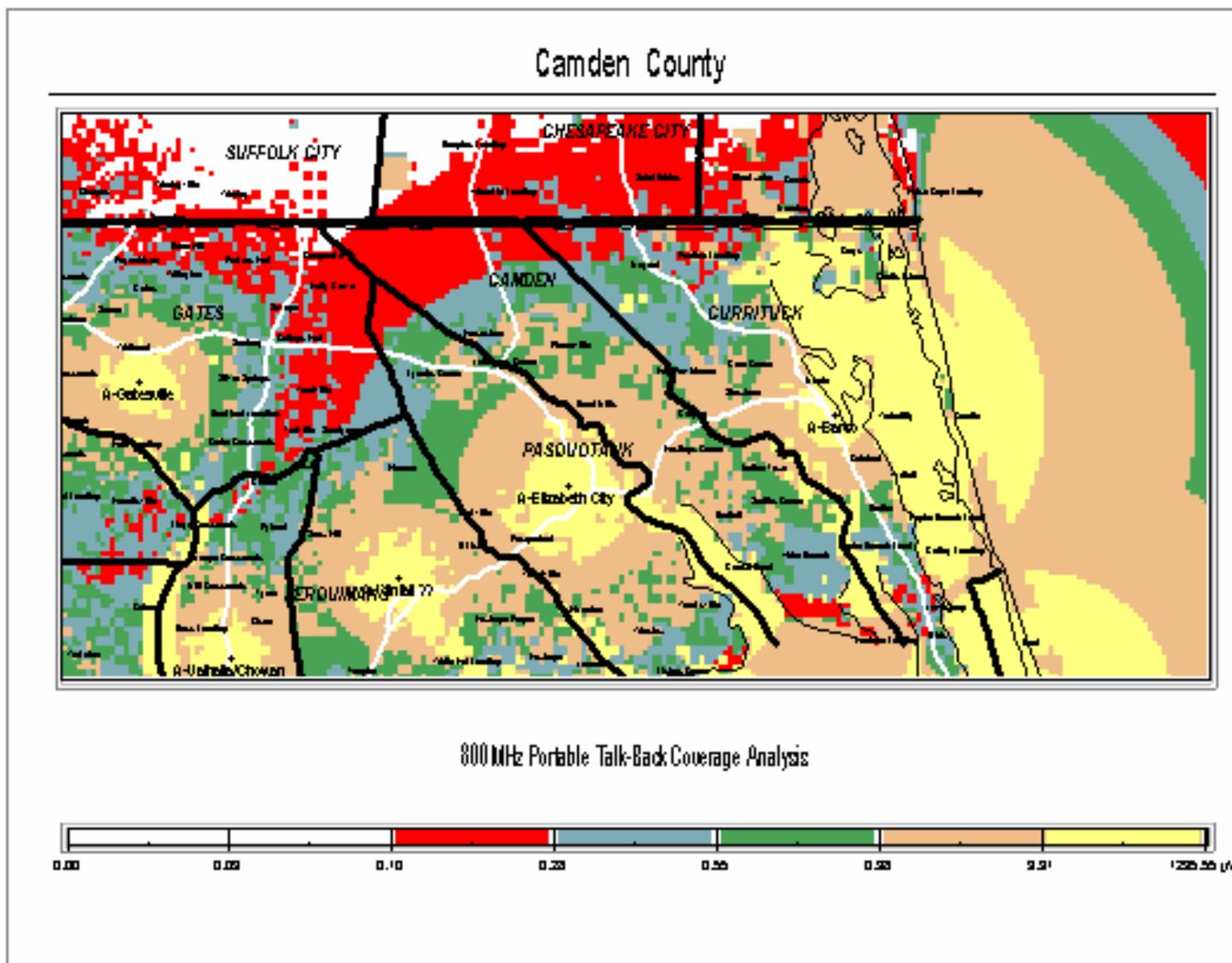
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

CAMDEN COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	\$185,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	\$100,000.00
Grand Total				\$837,000.00





Voice Communications System

VIPER Strategic Estimates

CARTERET

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	New	STACY (NEW)							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	Yes	\$0.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	33	NEWPORT			9		054	TELCO	855.7375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$5,000.00	Yes	\$0.00

Comments Reuse SHP tower, study required, sufficient building space with upfit, generator needed



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	New	KUHNS							

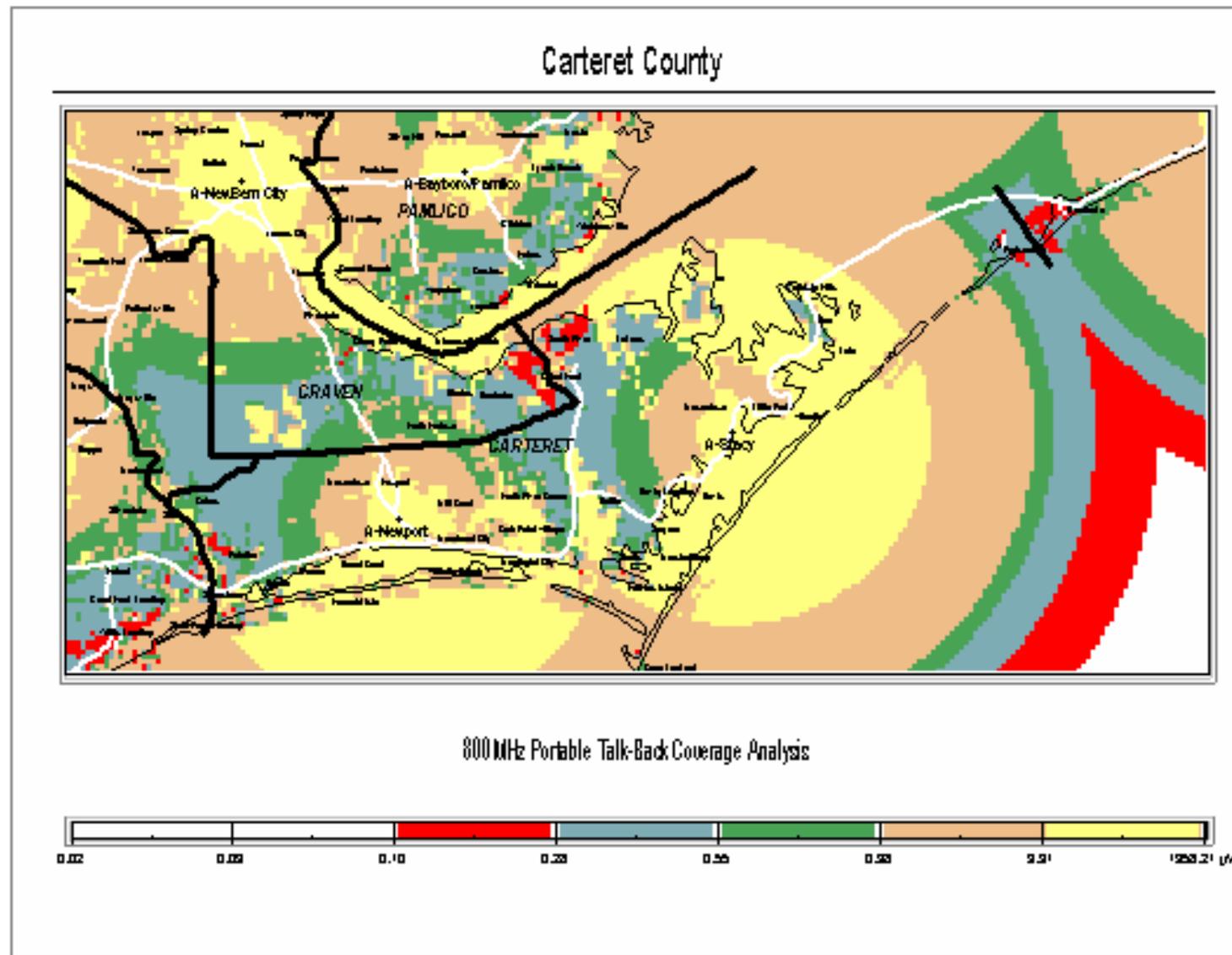
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	Yes	\$0.00

Comments Reuse Progress Energy Site, study required, insufficient building space, generator needed.

CARTERET COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$750,000.00	\$30,000.00	\$30,000.00	\$105,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$54,000.00	\$105,000.00	\$30,000.00	\$370,000.00	\$75,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$15,000.00	\$0.00
Grand Total				\$1,584,000.0





Voice Communications System

VIPER Strategic Estimates

CASWELL

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	NEW	PELHAM							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	126	YANCEYVILLE			184		069	TELCO	856.2625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.



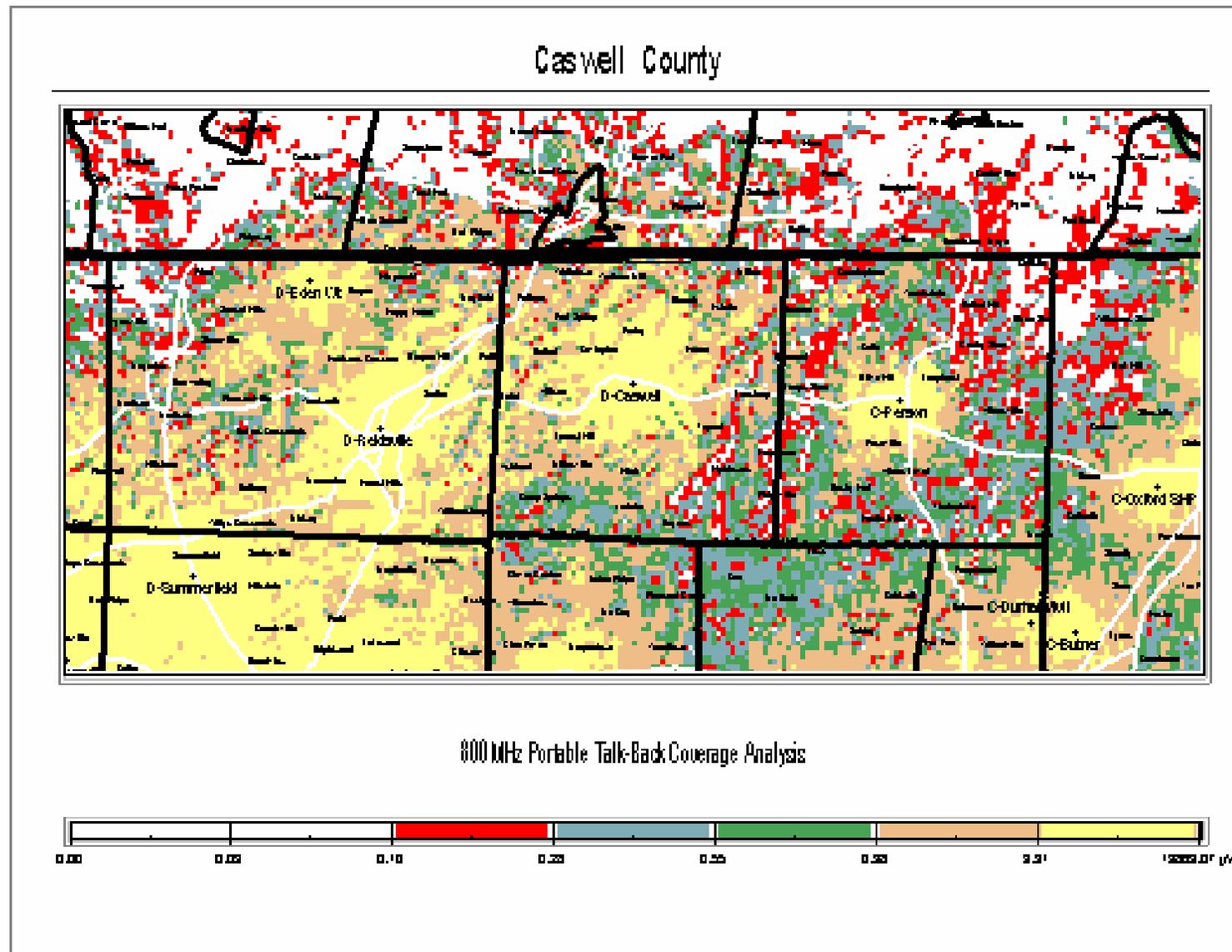
Voice Interoperability Plan for Emergency Responders
A CSN Module

Voice Communications System

VIPER Strategic Estimates

CASWELL COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$54,000.00	\$70,000.00	\$20,000.00	\$50,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$500,000.00	\$0.00	\$0.00	\$105,000.00
				Grand Total
				\$1,674,000.0





Voice Communications System

VIPER Strategic Estimates

CATAWBA

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	58	BAKER MOUNTAIN			537		008	TELCO	859.7125

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$250,000.00	\$0.00	\$5,000.00	Yes	\$5,000.00

Comments Rebuild SHP tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	59	NEWTON			290				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$5,000.00	Yes	\$5,000.00

Comments Rebuild SHP tower, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	75	ANDERSON MT.					007	TELCO	859.4375

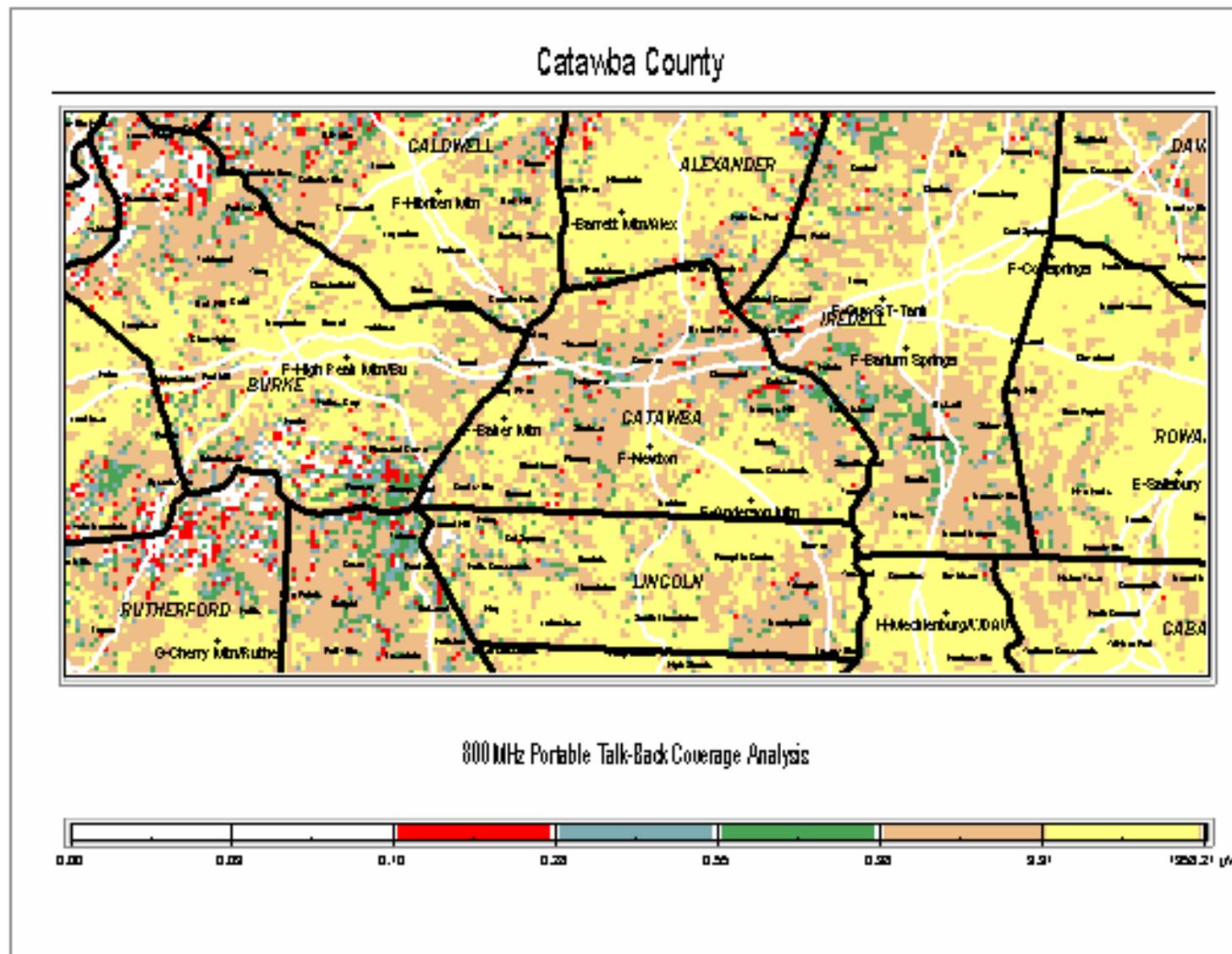
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$100,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

CATAWBA COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$750,000.00	\$30,000.00	\$30,000.00	\$105,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$54,000.00	\$105,000.00	\$30,000.00	\$370,000.00	\$75,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$15,000.00	\$500,000.00	\$0.00	\$110,000.00	\$15,000.00
Grand Total				\$2,179,000.0





Voice Communications System

VIPER Strategic Estimates

CHATHAM

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	13	CHATHAM MT.			227		028	M/W	860.2625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$100,000.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$0.00	No	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$5,000.00	\$0.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Reuse SHP tower, study required, insufficient building space, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	127	SILER CITY			235		070	TELCO	857.2625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.



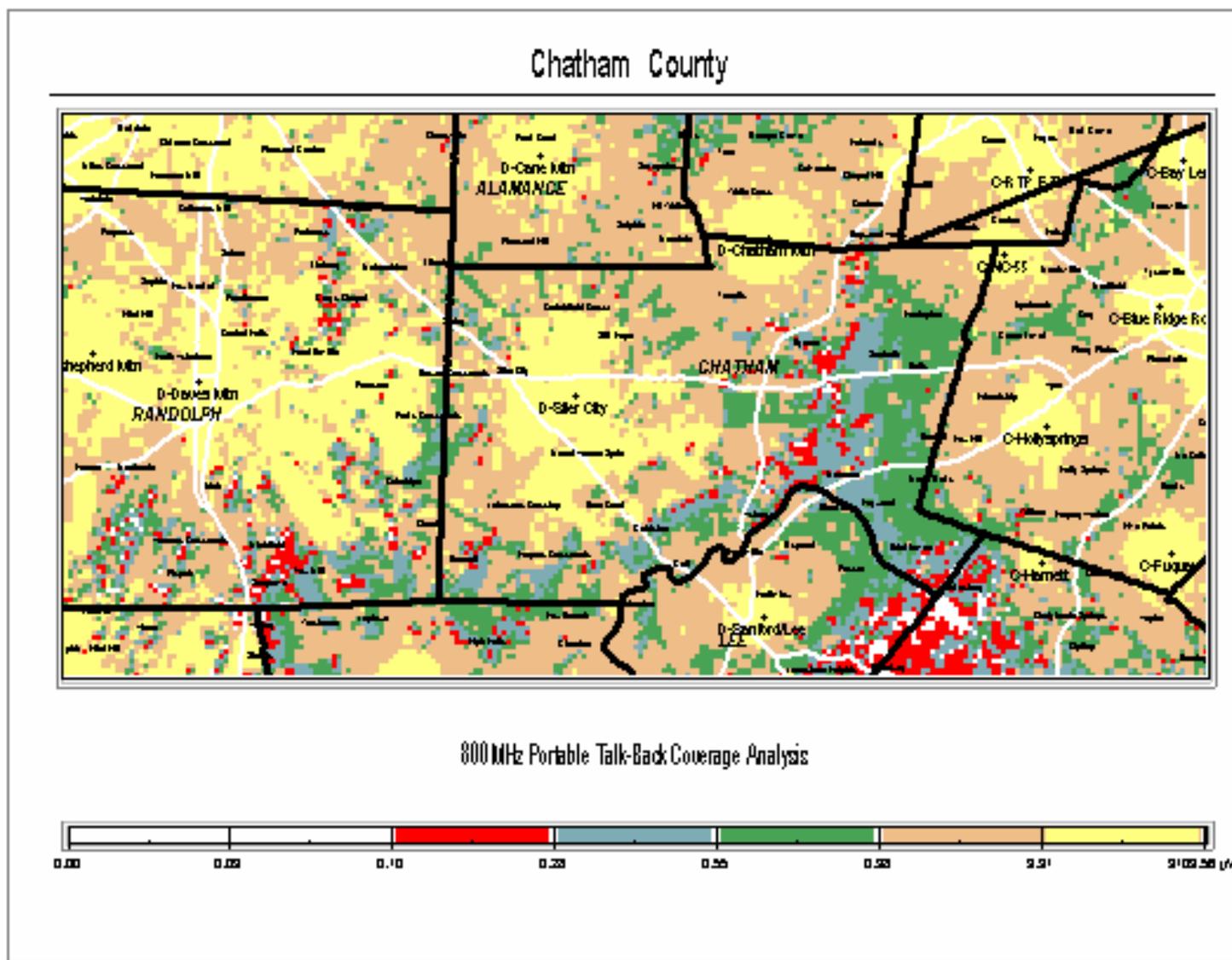
Voice Interoperability Plan for Emergency Responders
A CSJN Module

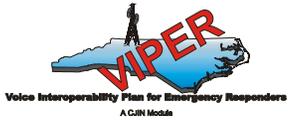
Voice Communications System

VIPER Strategic Estimates

CHATHAM COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$350,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$27,000.00	\$20,000.00	\$0.00	\$185,000.00	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$5,000.00	\$250,000.00		\$0.00	\$10,000.00
				Grand Total
				\$952,000.00





Voice Communications System

VIPER Strategic Estimates

CHEROKEE

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	158	FAIN MOUNTAIN			785		119	TELCO	860.2375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$200,000.00	\$10,000.00	\$10,000.00	\$25,000.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$10,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	70	JOANNA BALD			1436		019	TELCO	854.9875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$200,000.00	\$10,000.00	\$10,000.00	\$25,000.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$10,000.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$350,000.00	\$0.00	\$5,000.00	Yes	\$5,000.00

Comments Rebuild SHP tower, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	NORTHWESTERN CHEROKEE							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$5,000.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	SOUTHWESTERN CHEROKEE							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$5,000.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

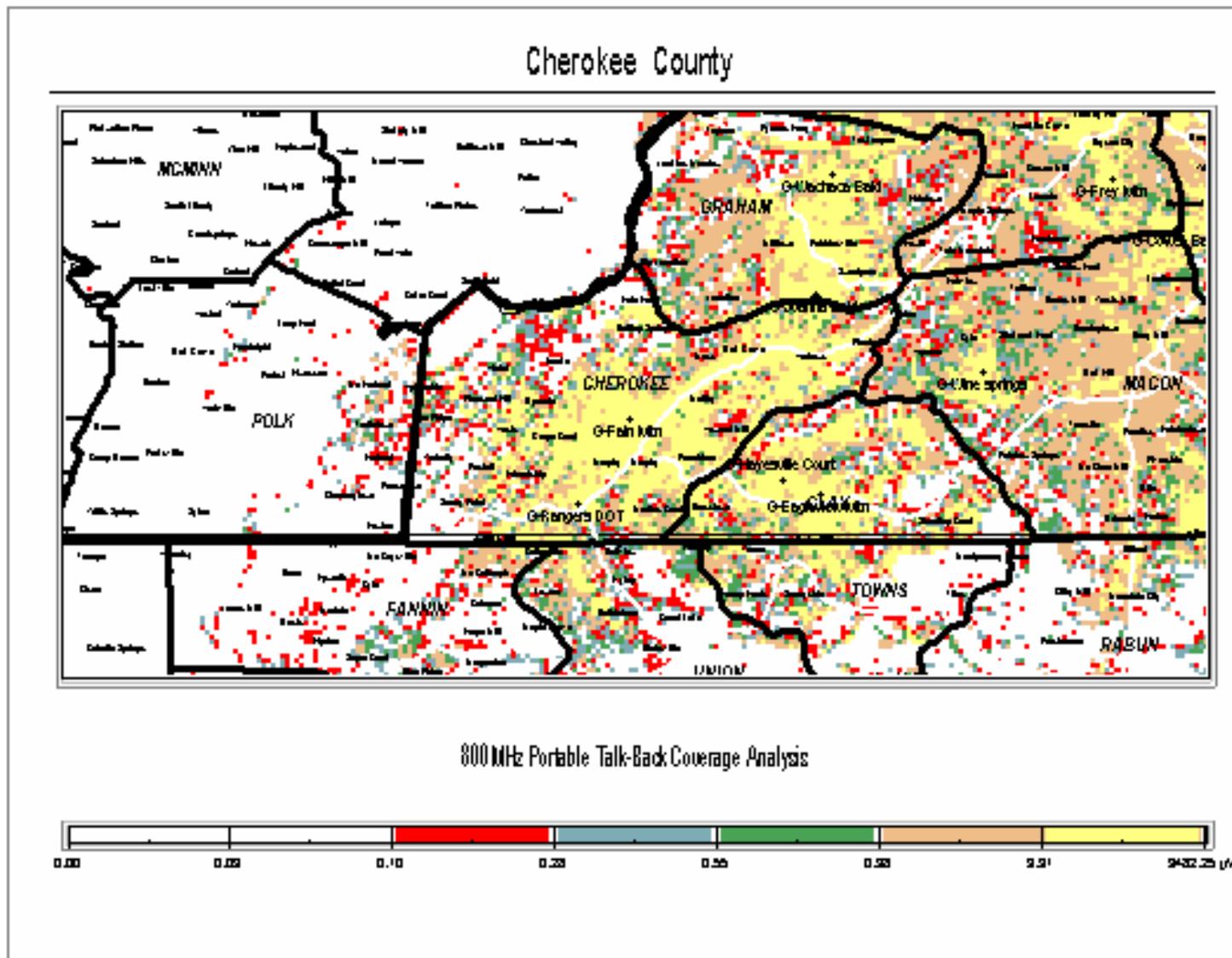


Voice Communications System

VIPER Strategic Estimates

CHEROKEE COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$900,000.00	\$40,000.00	\$40,000.00	\$120,000.00	\$10,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$54,000.00	\$40,000.00	\$0.00	\$555,000.00	\$75,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$15,000.00	\$1,050,000.00		\$20,000.00	\$210,000.00
				Grand Total
				\$3,009,000.0





Voice Communications System

VIPER Strategic Estimates

CHOWAN

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	144	VALHALLA (NEW)			14		102	TELCO	855.9625

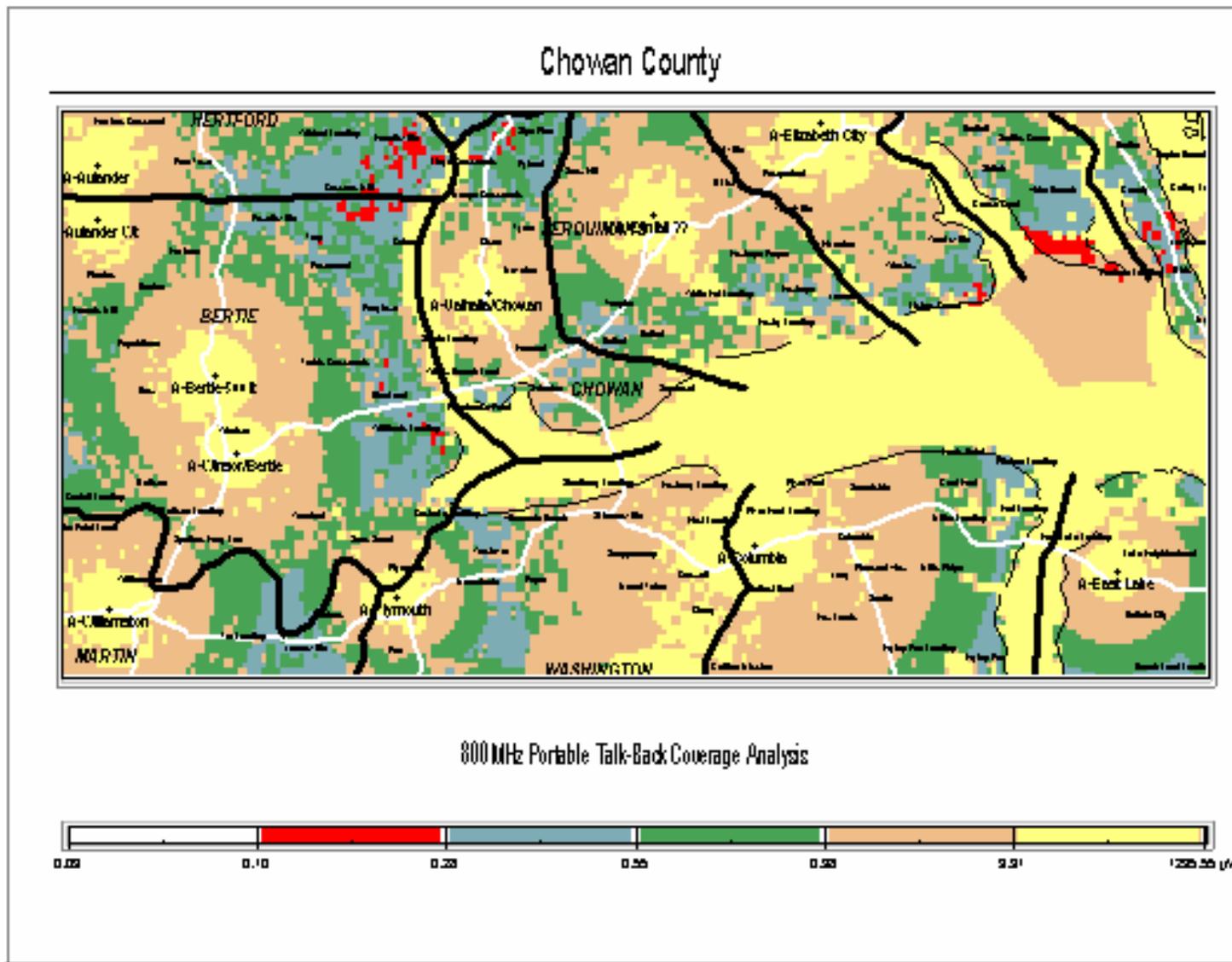
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$25,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$275,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.

CHOWAN COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$25,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$275,000.00	\$0.00	\$0.00	\$5,000.00
Grand Total				\$877,000.00





Voice Communications System

VIPER Strategic Estimates

CLAY

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	EASTERN CLAY							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$5,000.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	WESTERN CLAY							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$5,000.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.



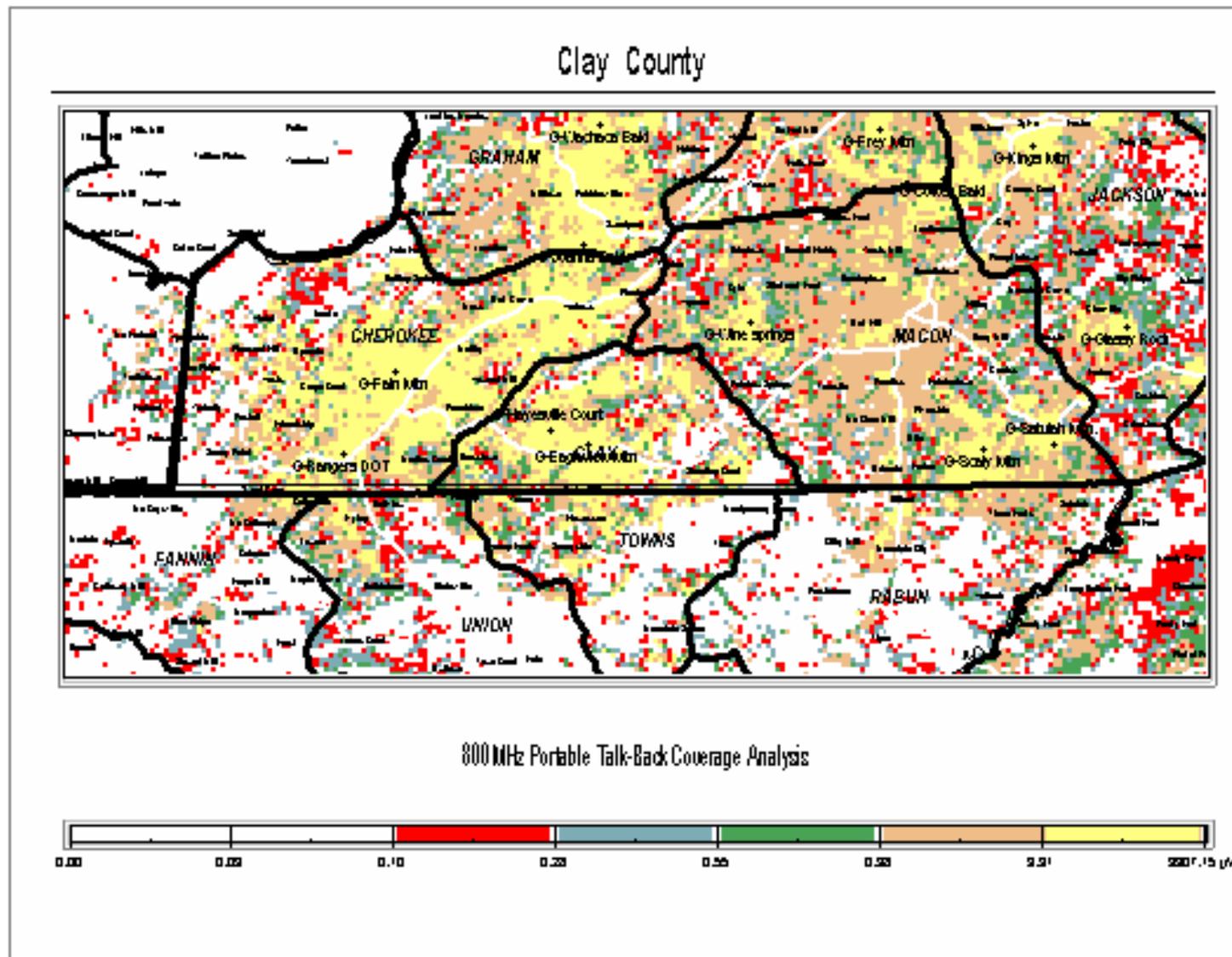
Voice Interoperability Plan for Emergency Responders
A CSN Module

Voice Communications System

VIPER Strategic Estimates

CLAY COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$54,000.00	\$20,000.00	\$0.00	\$370,000.00	\$50,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$0.00	\$700,000.00		\$10,000.00	\$200,000.00
				Grand Total
				\$1,884,000.0





Voice Communications System

VIPER Strategic Estimates

CLEVELAND

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	NEW	BEN'S KNOB							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	NEW	SHELBY (NEW)							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$0.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$0.00	\$185,000.00	No	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$277,460.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	NEW	KINGS MOUNTAIN							

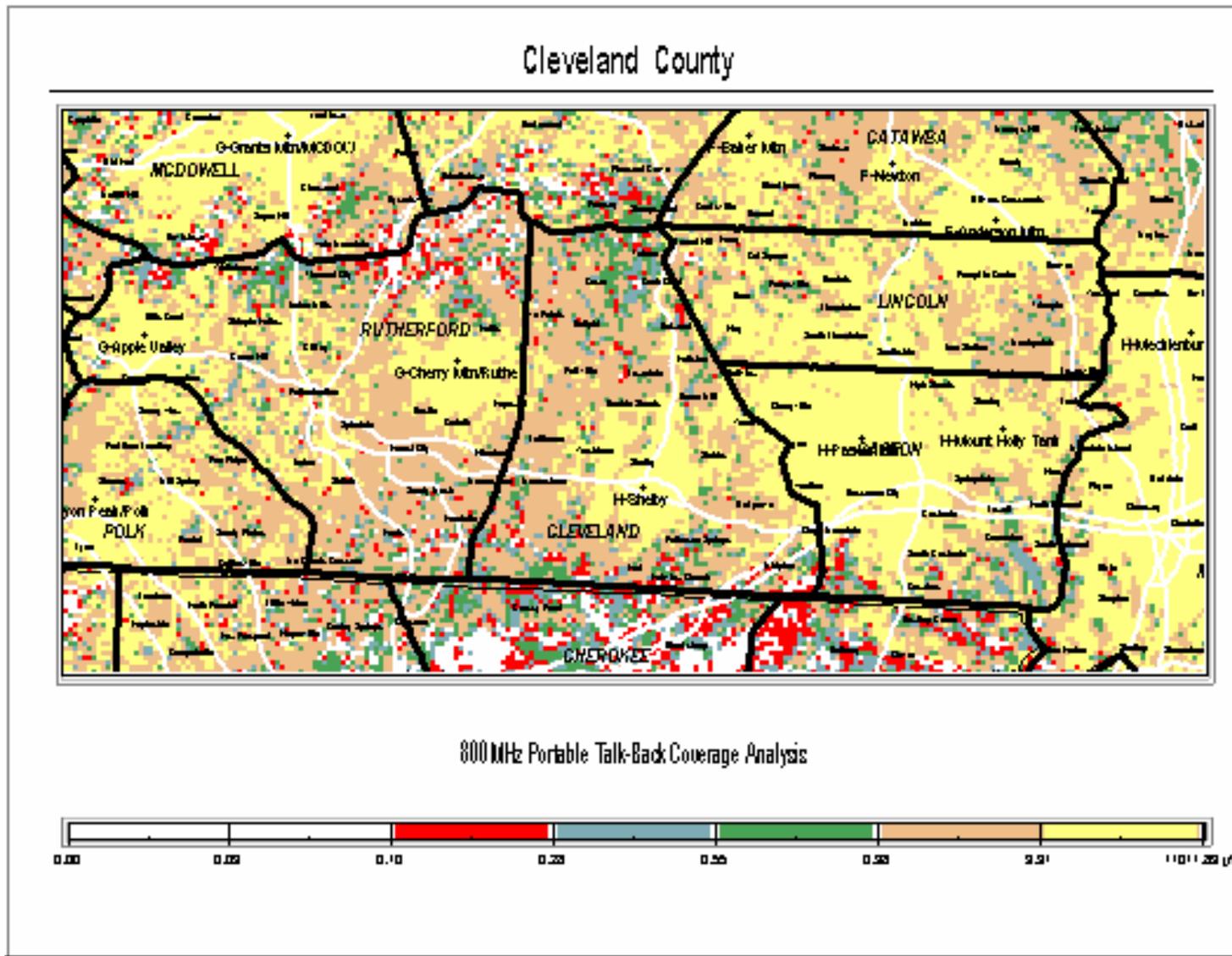
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

CLEVELAND COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse	
\$750,000.00	\$30,000.00	\$20,000.00	\$105,000.00	\$0.00	
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New		
\$54,000.00	\$105,000.00	\$20,000.00	\$555,000.00	\$50,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis	
\$0.00	\$527,460.00	\$0.00	\$5,000.00	\$110,000.00	
				Grand Total	\$2,221,460.0





Voice Communications System

VIPER Strategic Estimates

COLUMBUS

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	173	FAIR BLUFF			22		135	TELCO	855.2125

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse Progress Energy Site, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	197	WHITEVILLE			29				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse Progress Energy Site, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	40	DELCO			11		014	M/W	855.2125

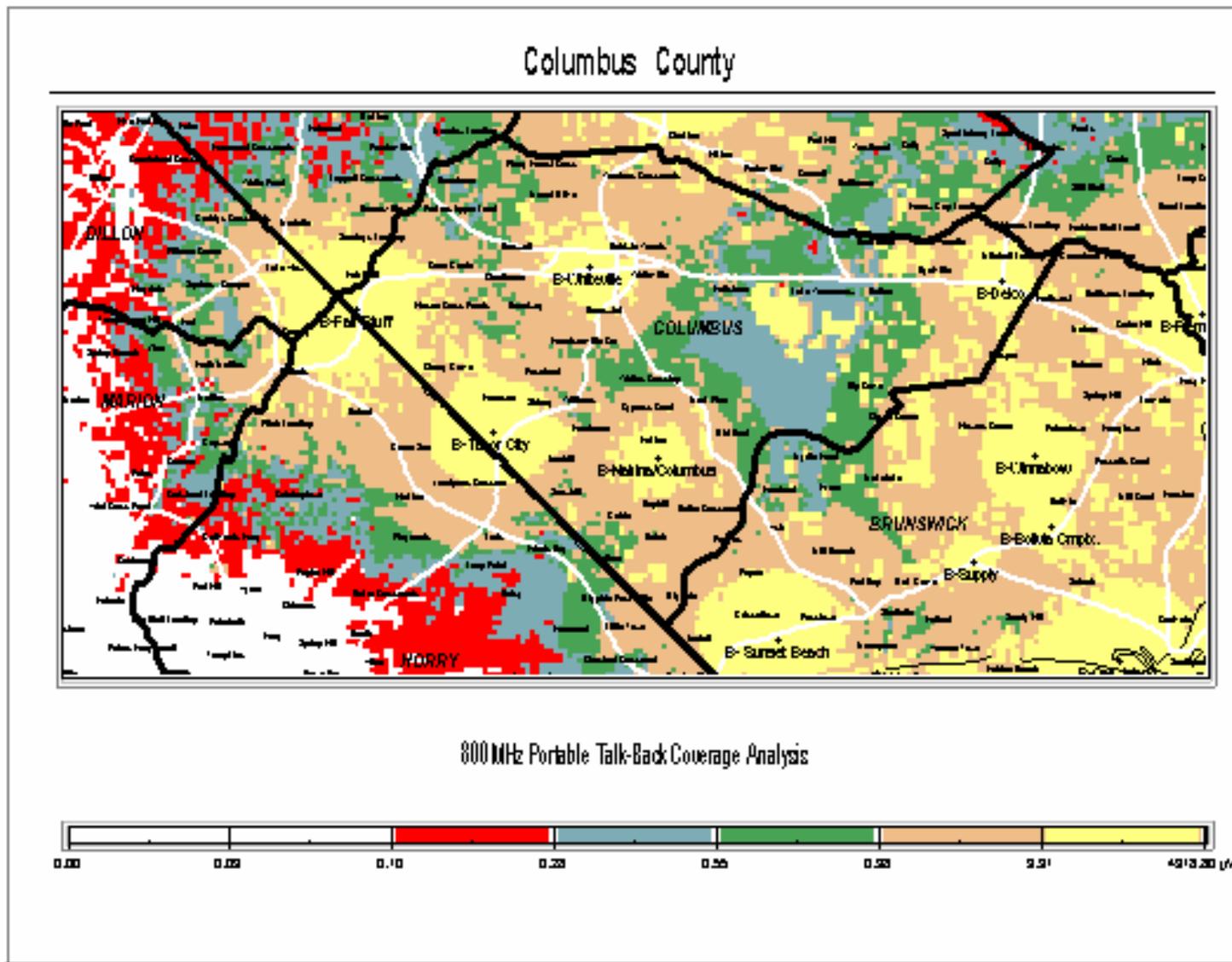
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$50,000.00	\$0.00	\$0.00	\$0.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	Yes	\$0.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$0.00

Comments Reuse SHP tower, no study required, sufficient building space, no generator needed

COLUMBUS COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse	
\$550,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$15,000.00	
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New		
\$0.00	\$70,000.00	\$30,000.00	\$50,000.00		
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis	
\$15,000.00	\$0.00	\$5,000.00	\$15,000.00	\$10,000.00	
				Grand Total	\$1,230,000.0





Voice Communications System

VIPER Strategic Estimates

CRAVEN

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	NEW	NEW BERN PE							

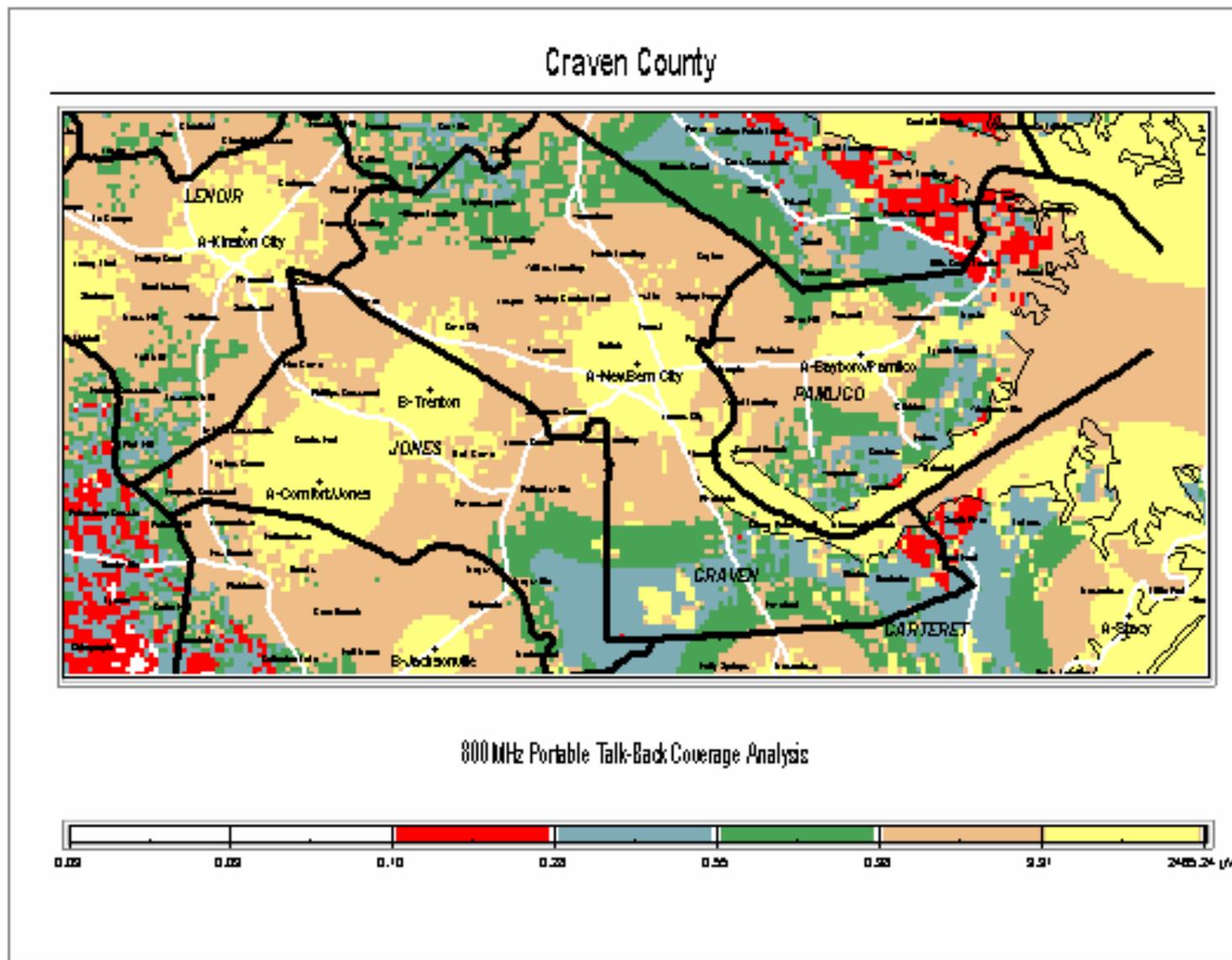
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$0.00

Comments Reuse Progress Energy Site, study required, insufficient building space, generator needed.

CRAVEN COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00
Grand Total				\$592,000.00





Voice Communications System

VIPER Strategic Estimates

CUMBERLAND

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	43	CEDAR CREEK			35				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$35,000.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$0.00	Yes	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$5,000.00	NO	\$0.00

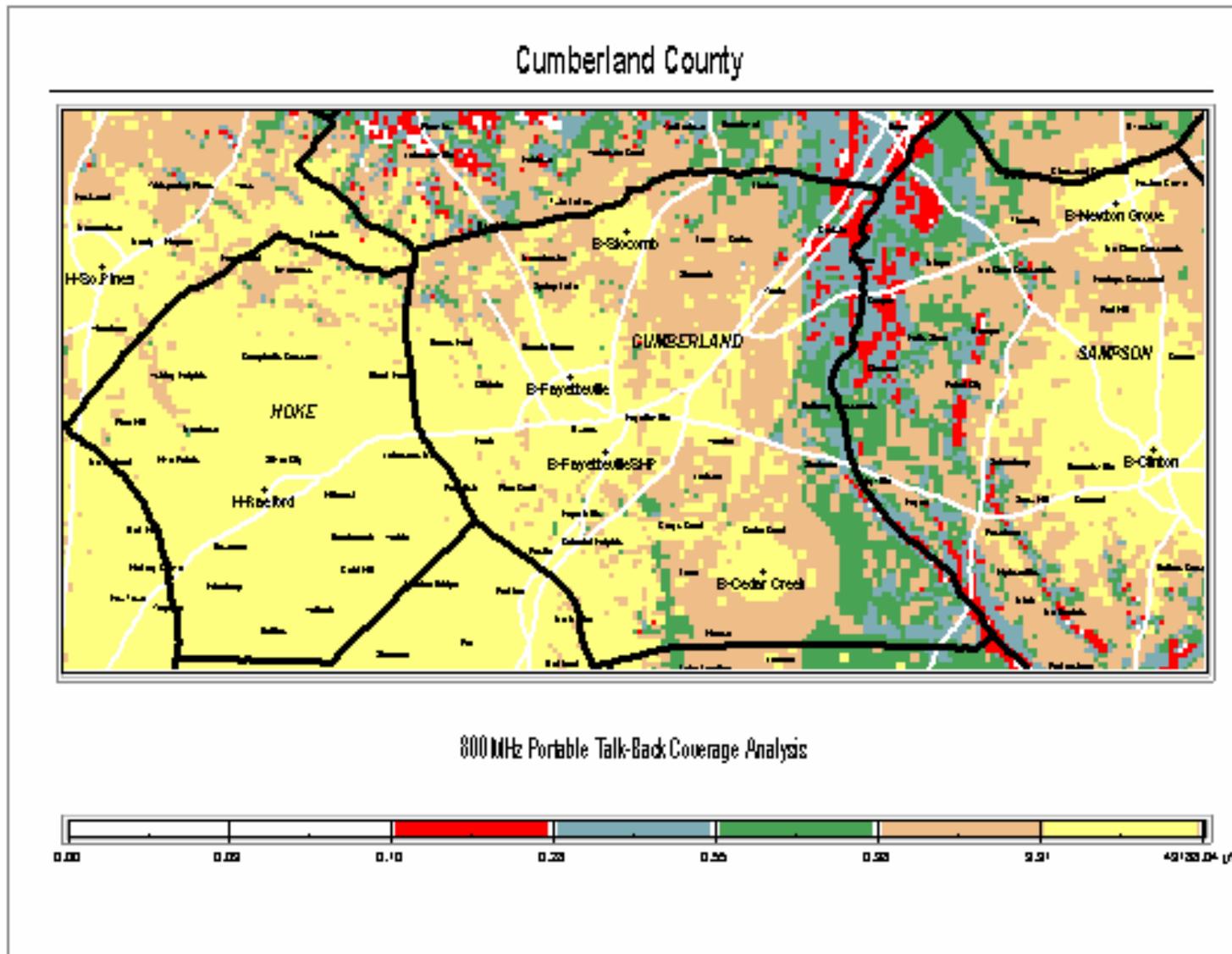
Comments Reuse SHP tower, study required, sufficient building space, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	45	SLOCOMB			76		072	M/W	860.4375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$10,000.00	\$0.00	\$0.00	\$5,000.00	NO	\$0.00

Comments Reuse SHP tower, study required, insufficient building space, generator needed





Voice Communications System

VIPER Strategic Estimates

CURRITUCK

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	128	BARCO			2		073	TELCO	868.925

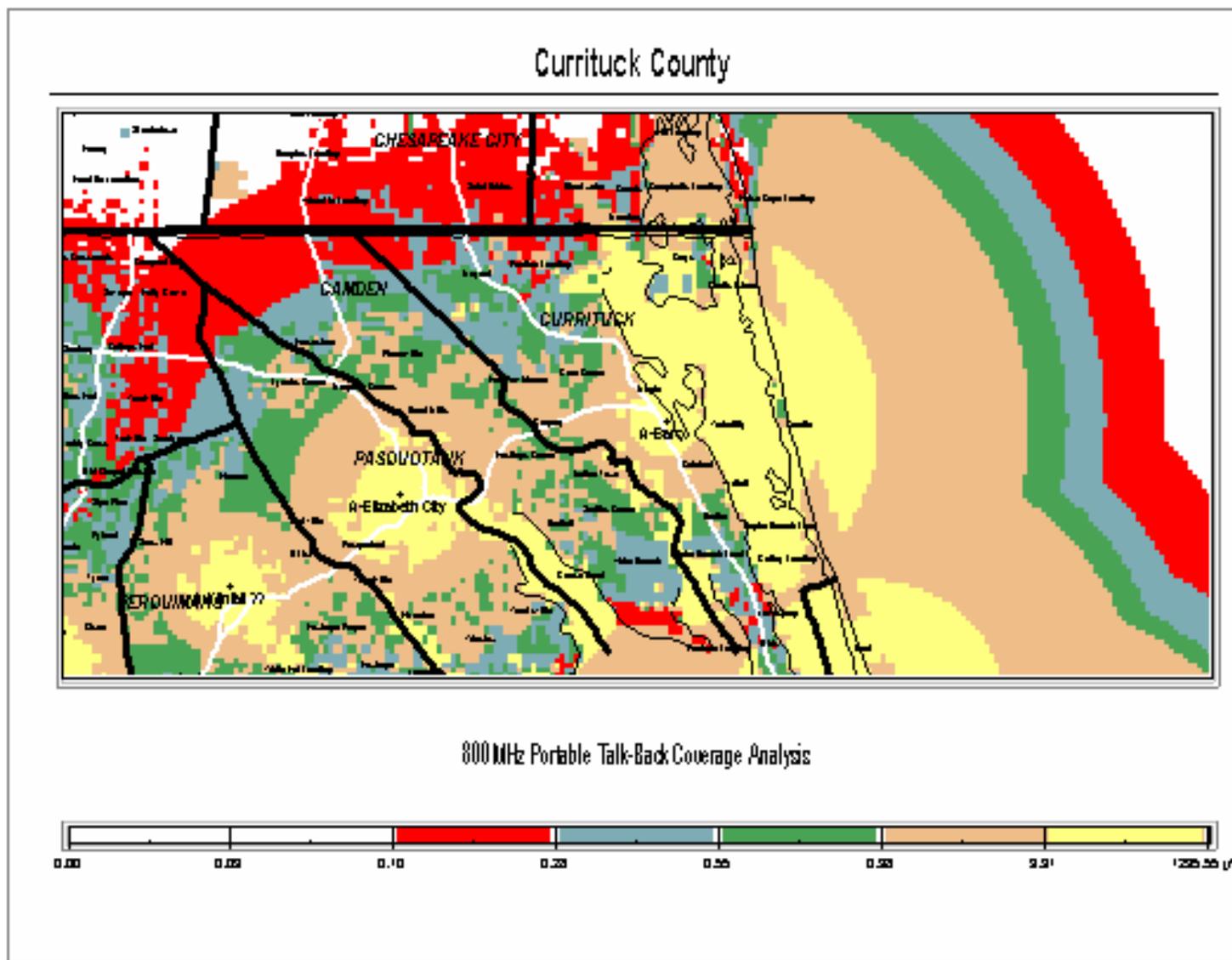
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse Dominion Power Site, study required, insufficient building space, generator needed.

CURRITUCK COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00
Grand Total				\$592,000.00





Voice Communications System

VIPER Strategic Estimates

DARE

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	208	WANCHESE			3		040	TELCO	854.9875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	181	SOUTHERN SHORES			2		145	TELCO	855.4625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	129	BUXTON			3		074	TELCO	855.9625

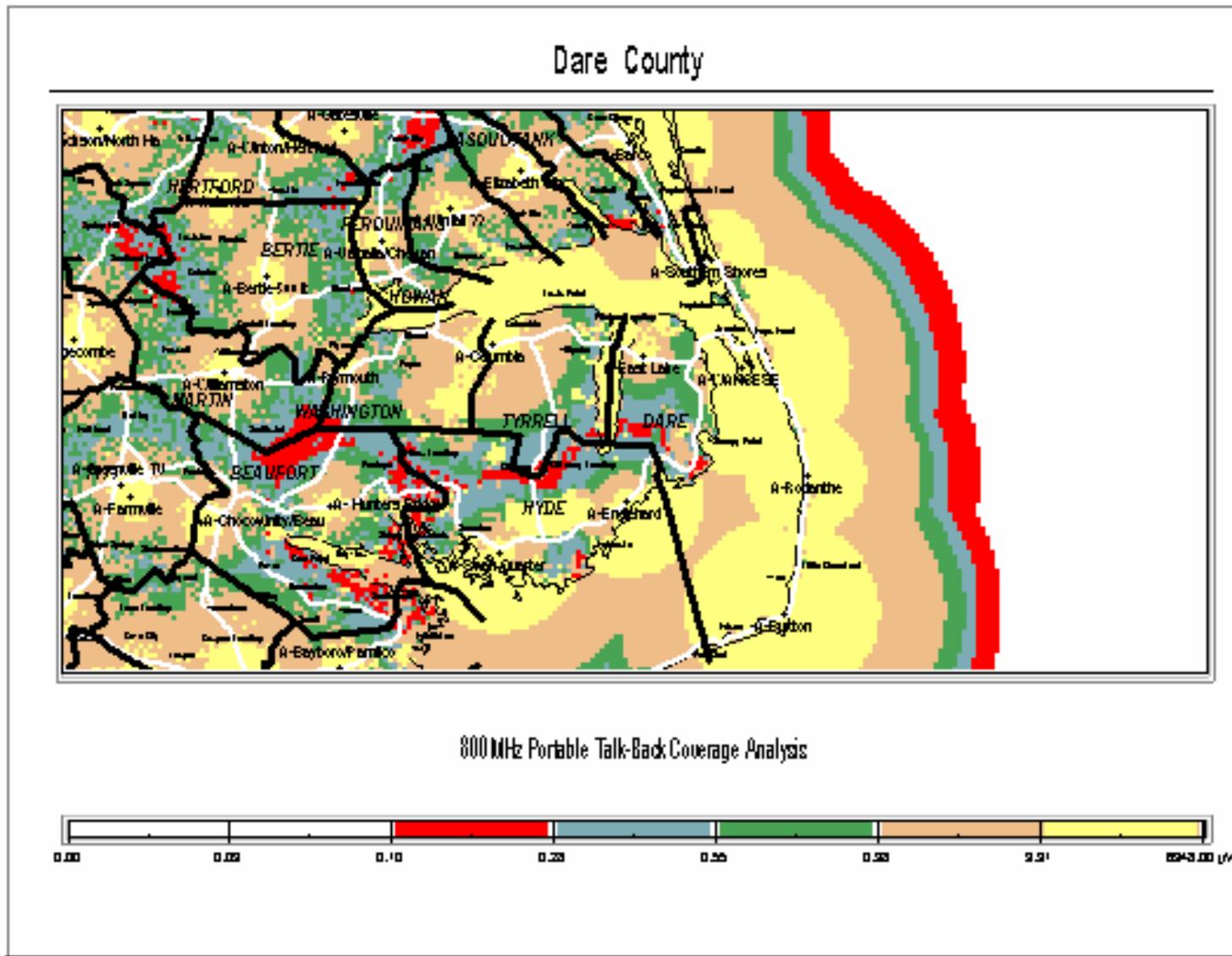
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.

DARE COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$750,000.00	\$30,000.00	\$30,000.00	\$105,000.00	\$15,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$0.00	\$105,000.00	\$30,000.00	\$75,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$750,000.00	\$0.00	\$0.00	\$15,000.00
Grand Total				\$2,445,000.0





Voice Communications System

VIPER Strategic Estimates

DAVIDSON

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	89	LEXINGTON			244				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

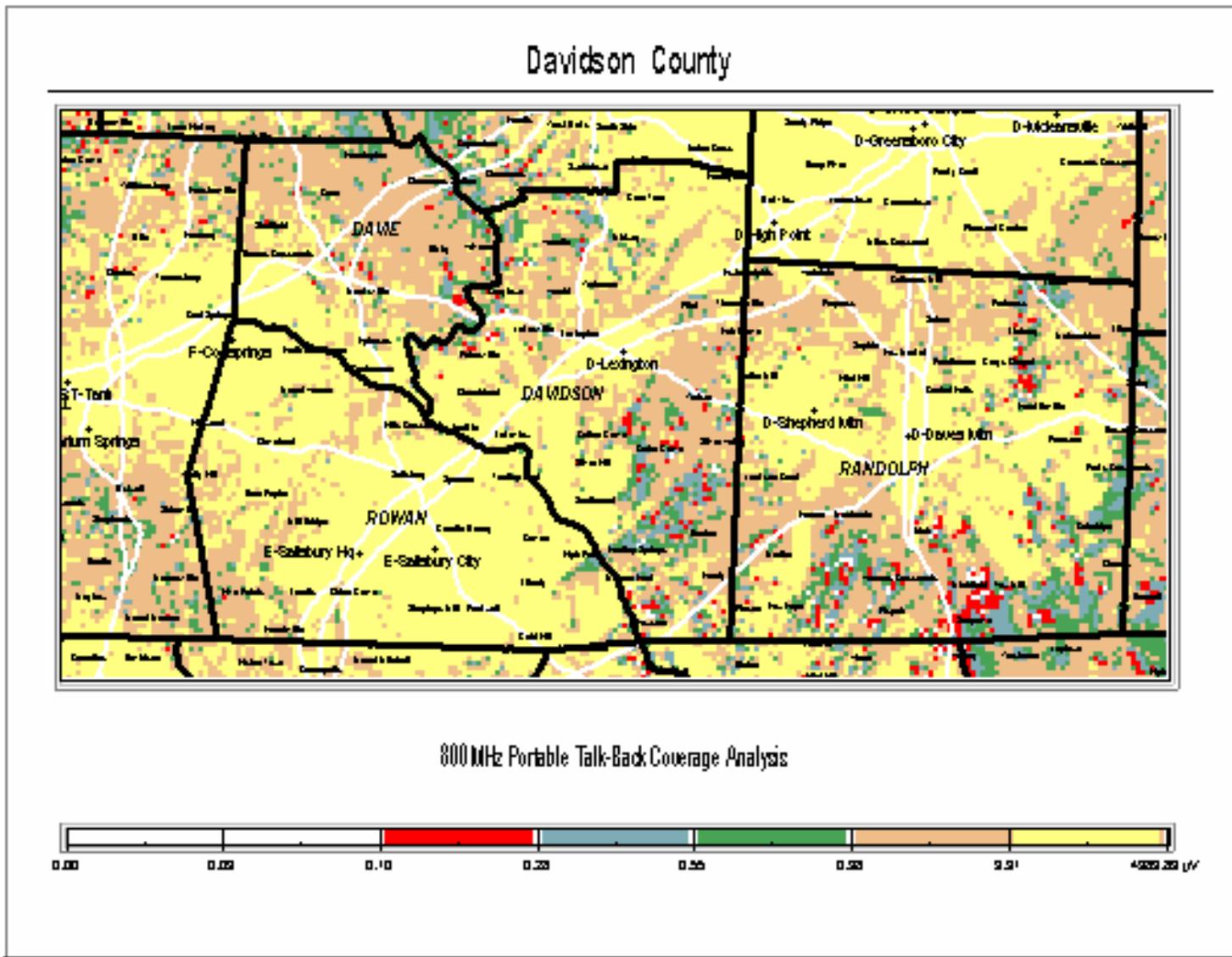
Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	97	THOMASVILLE			247		004	TELCO	866.85

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$25,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.





Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	NEW	DAVIE							

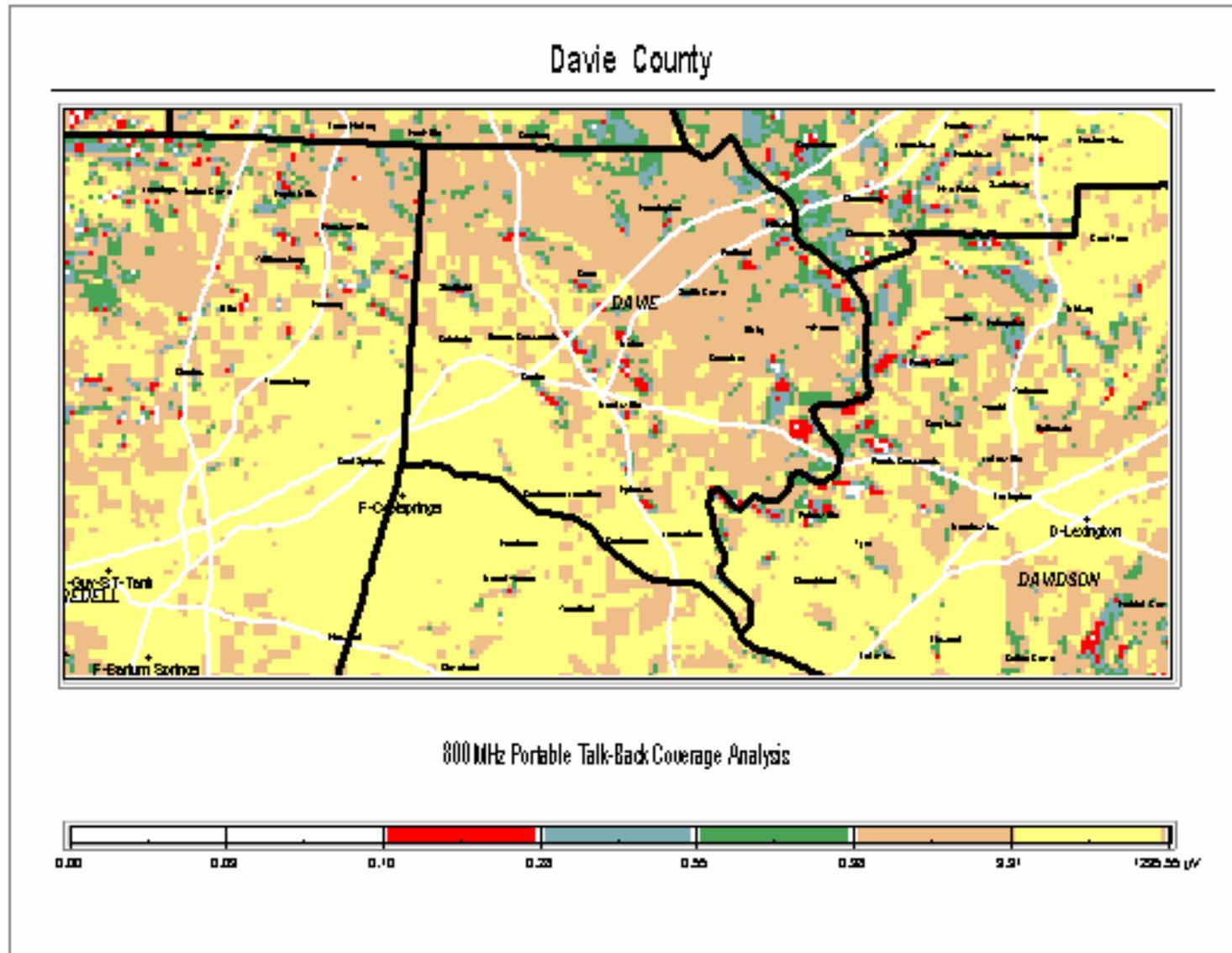
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

DAVIE COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00
Grand Total				\$592,000.00



VIPER Strategic Estimates

DUPLIN

Troop B	SHP Site # NEW	Site Name WALLACE	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
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Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$25,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$25,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$0.00

Comments Reuse Progress Energy Site, study required, insufficient building space, generator needed.

Troop B	SHP Site # NEW	Site Name KORNEGAY	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
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Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$25,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$25,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$0.00

Comments Reuse Progress Energy Site, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	36	KENANSVILLE			40	250'	034	TELCO	855.7375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$75,000.00	\$5,000.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$5,000.00	\$375,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Rebuild SHP tower, insufficient building space, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	NEW	CHINQUAPIN							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$25,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$25,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00

Comments Construct new tower on DUPLIN land, building and generator needed.

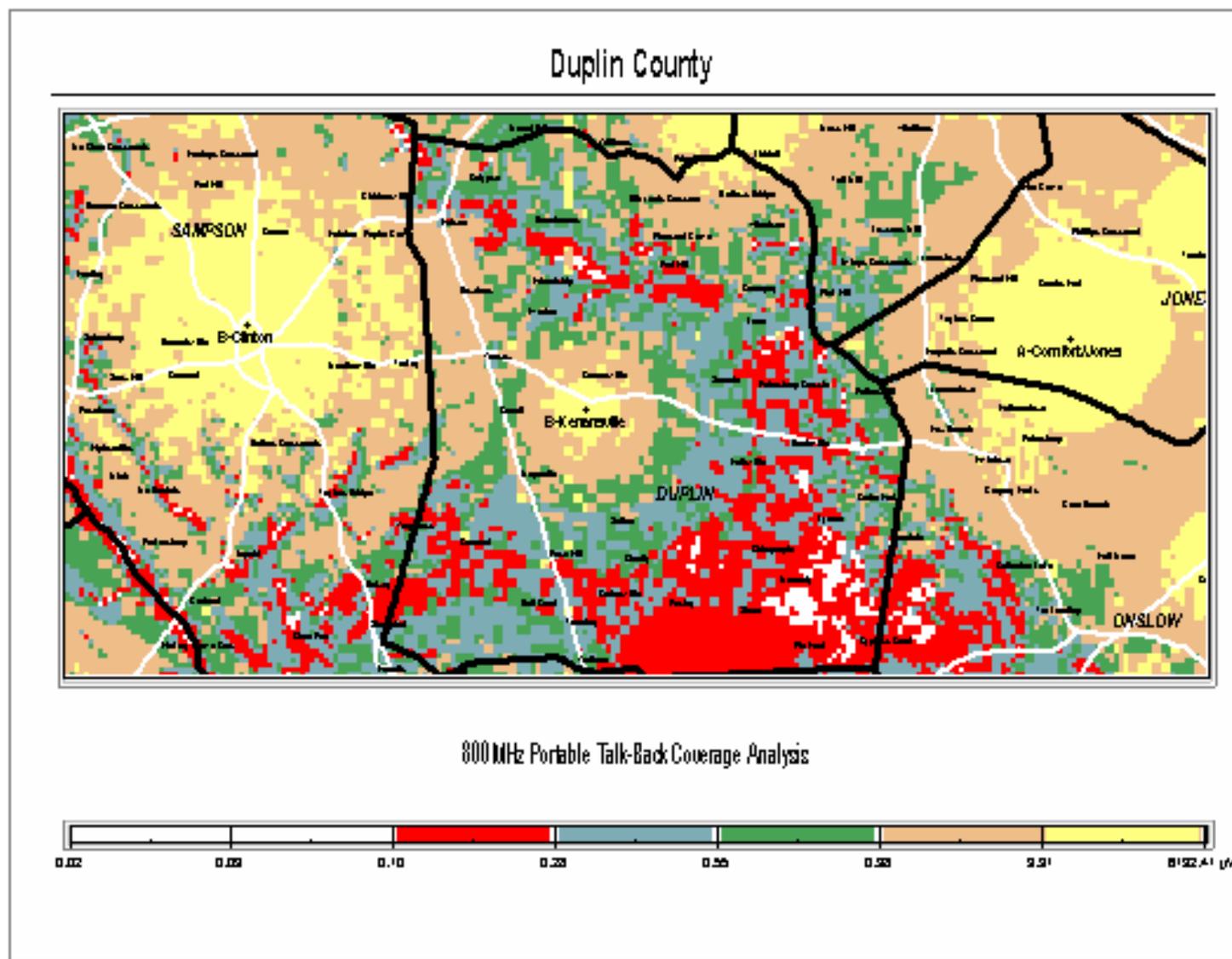


Voice Communications System

VIPER Strategic Estimates

DUPLIN COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$825,000.00	\$35,000.00	\$30,000.00	\$75,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$81,000.00	\$40,000.00	\$555,000.00	\$100,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$5,000.00	\$375,000.00	\$0.00	\$10,000.00	\$5,000.00
				Grand Total
				\$2,206,000.0





Voice Communications System

VIPER Strategic Estimates

DURHAM

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	198	DURHAM CAMDEN AV			109		011	TELCO	854.1875

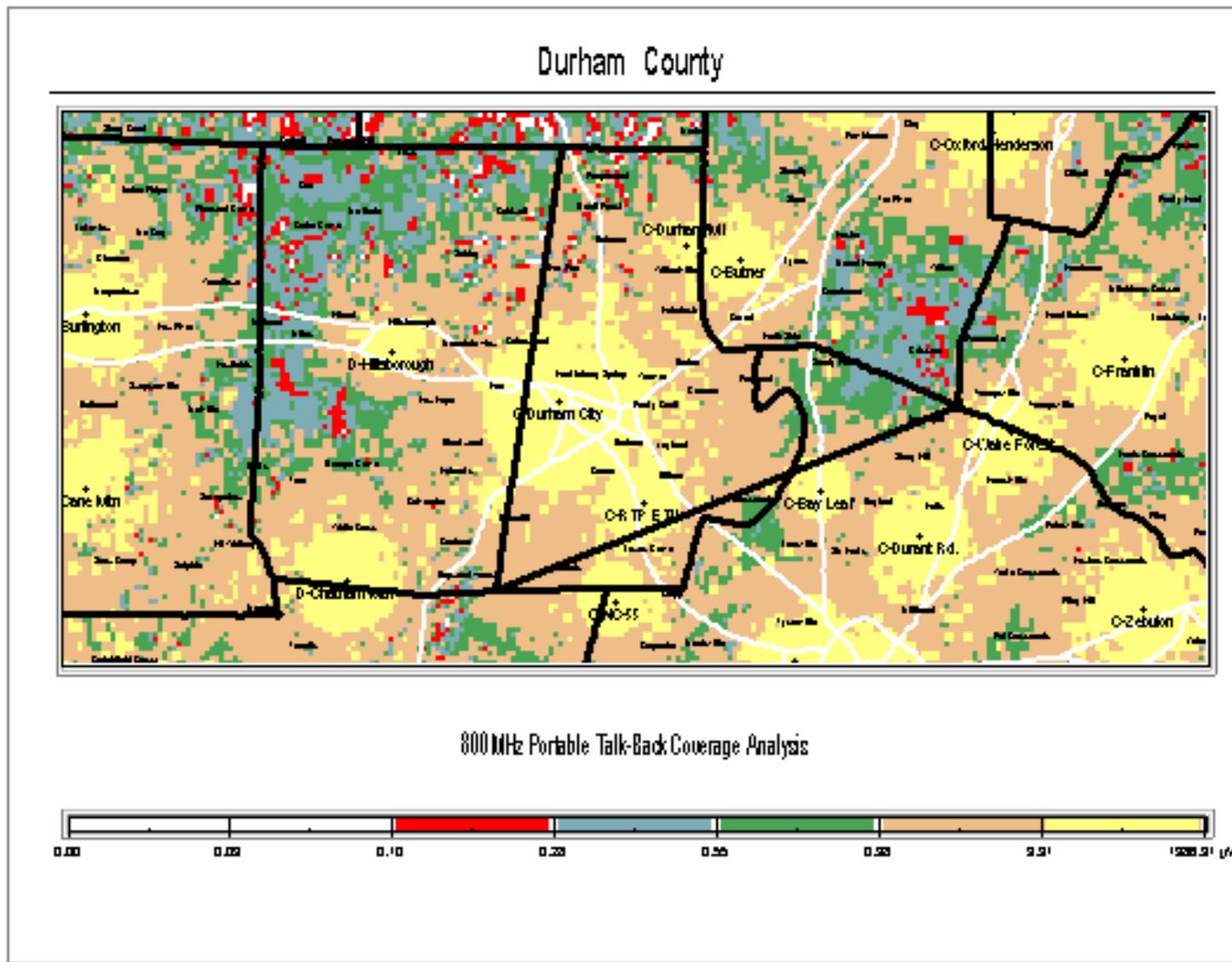
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$0.00

Comments Use DURHAM tower, study required, sufficient building space, no generator needed

DURHAM COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$0.00
Grand Total				\$550,000.00





Voice Communications System

VIPER Strategic Estimates

EDGECOMBE

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	NEW	SOUTHERN EDGECOMBE							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	130	TARBORO CITY			14		075	TELCO	855.7375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	Yes	\$0.00

Comments Use TARBORO tower, study required, sufficient building space, no generator needed



Voice Communications System

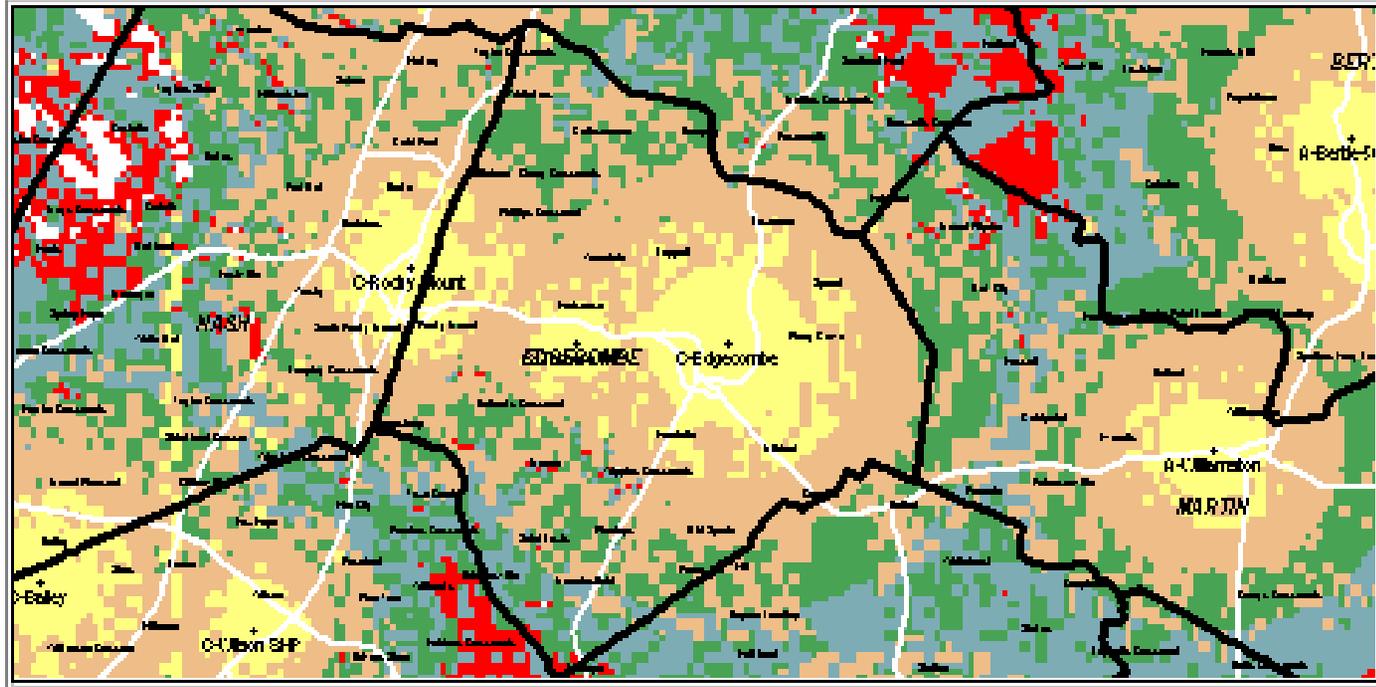
VIPER Strategic Estimates

EDGECOMBE COUNTY TOTALS:

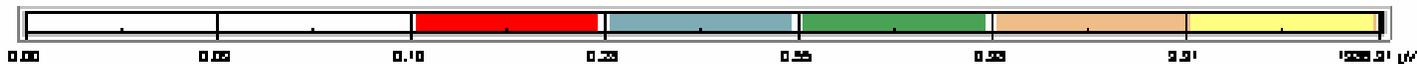
Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$54,000.00	\$20,000.00	\$0.00	\$370,000.00	\$50,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$0.00	\$250,000.00		\$5,000.00	\$100,000.00
				Grand Total
				\$1,429,000.0



Edgecombe County



800 MHz Portable Talk-Back Coverage Analysis





Voice Communications System

VIPER Strategic Estimates

FORSYTH

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	187	WAKE FOREST UNIV.			291		153	TELCO	854.9875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$25,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	204	WINSTON SALEM ST			238				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$25,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	190	KERNERSVILLE			296		158	TELCO	855.4875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	NEW	CLEMMONS							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$5,000.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

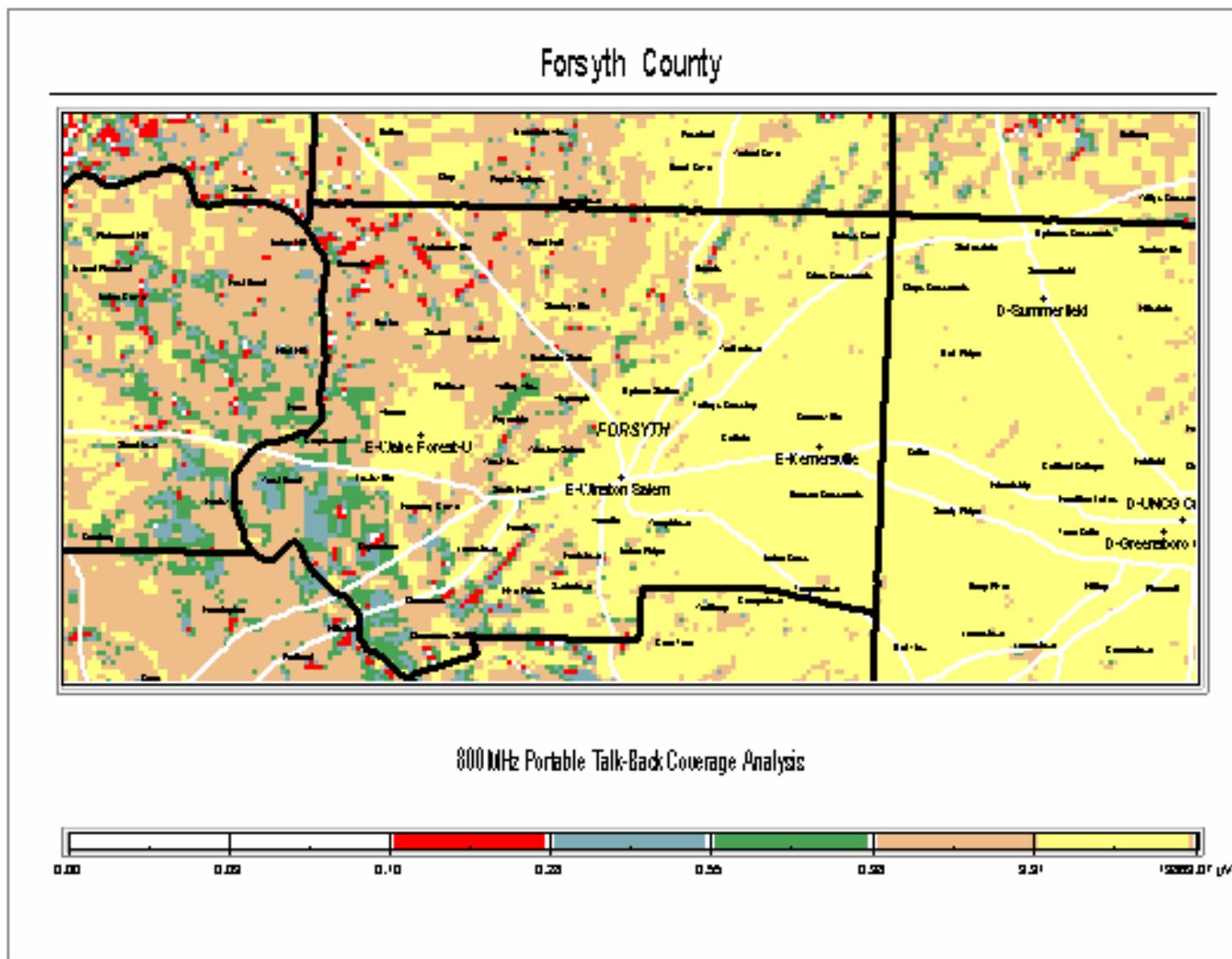


Voice Communications System

VIPER Strategic Estimates

FORSYTH COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$1,000,000.00	\$40,000.00	\$40,000.00	\$140,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$108,000.00	\$40,000.00	\$0.00	\$740,000.00	\$100,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$0.00	\$250,000.00		\$60,000.00	\$115,000.00
				Grand Total
				\$2,658,000.0





Voice Communications System

VIPER Strategic Estimates

FRANKLIN

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	131	LOUISBURG NEW SITE			86		076	TELCO	857.4875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	Yes	\$0.00

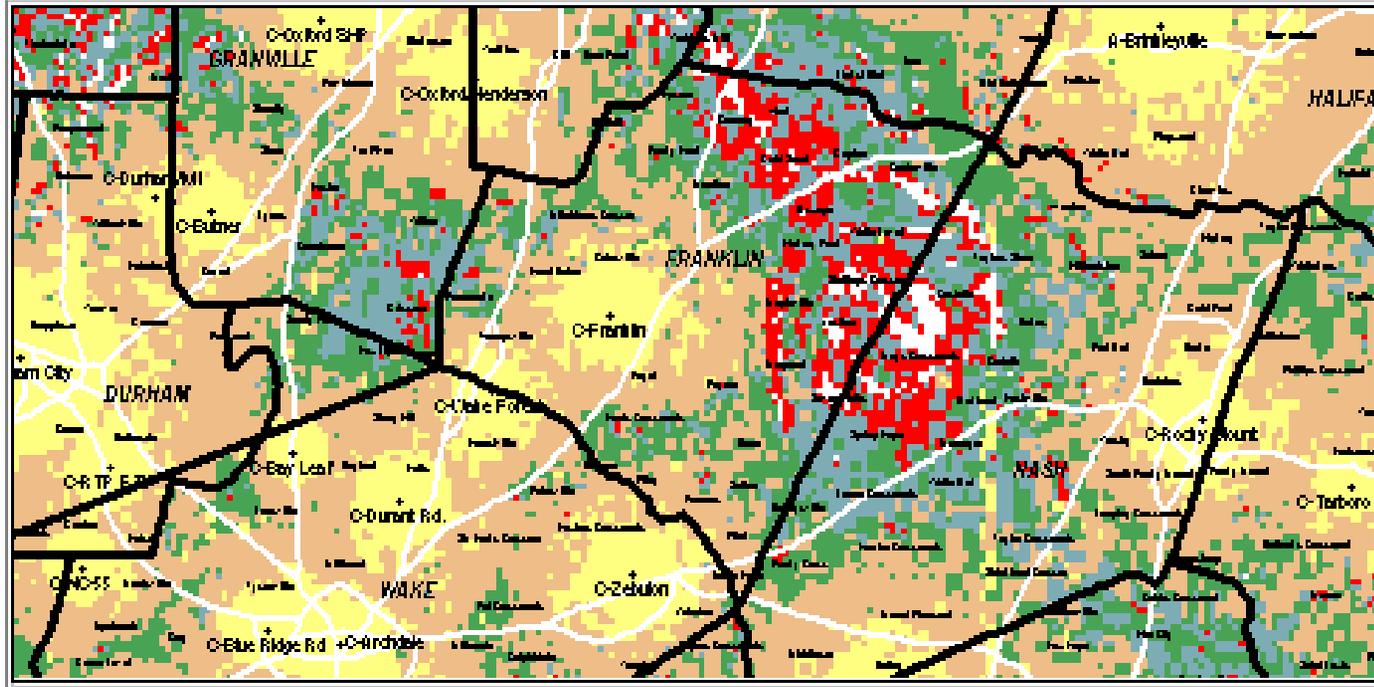
Comments Reuse FRANKLIN tower, study required, insufficient building space, generator needed.

FRANKLIN COUNTY TOTALS:

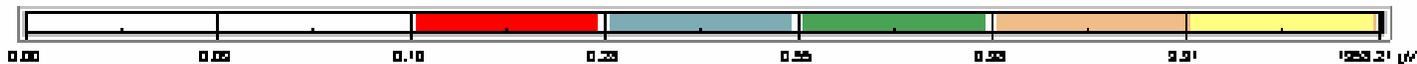
Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00
Grand Total				\$592,000.00



Franklin County



800 MHz Portable Talk-Back Coverage Analysis





Voice Communications System

VIPER Strategic Estimates

GASTON

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	210	PASOUR MT.			347		033	TELCO	859.4375

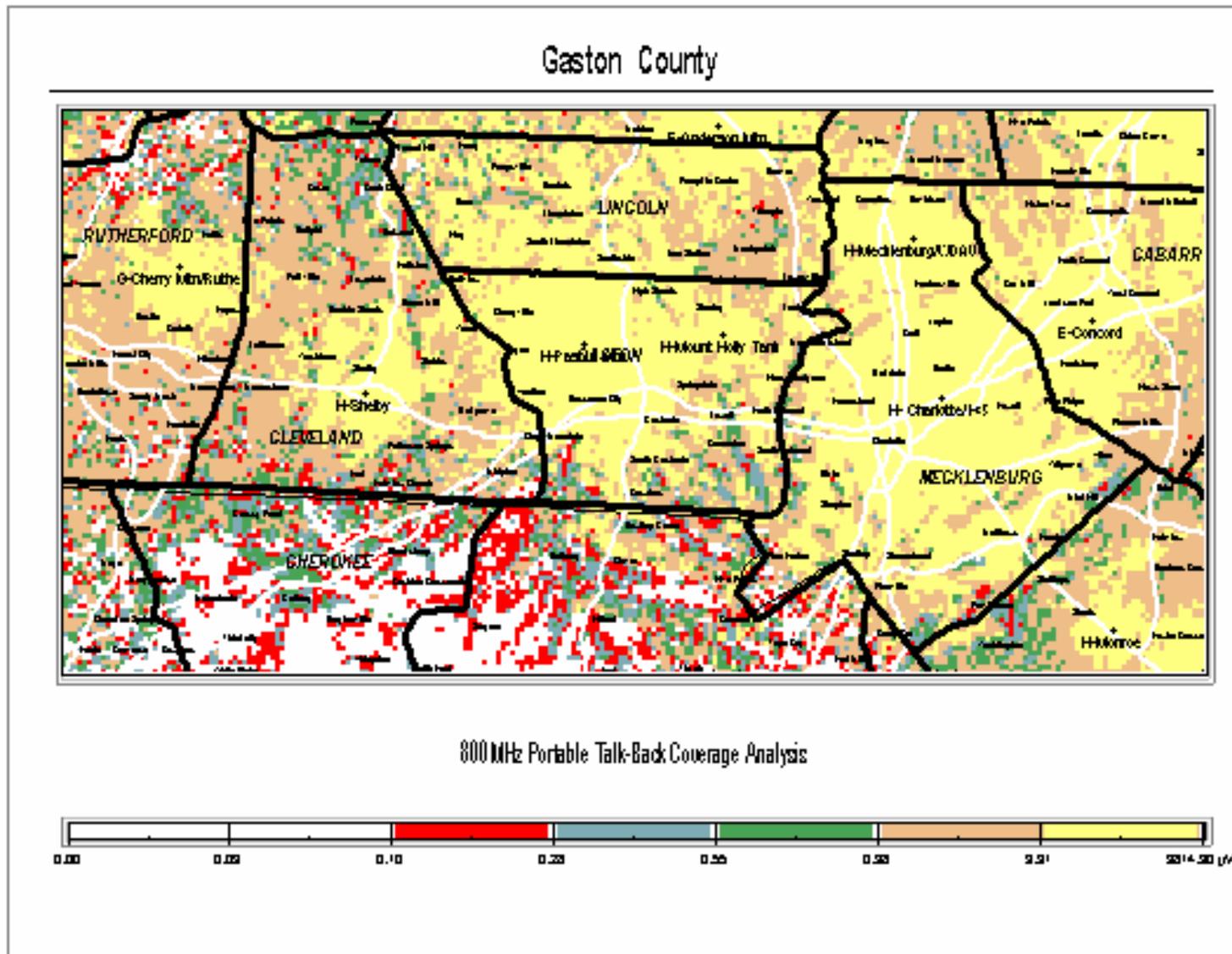
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	YES	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

GASTON COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00
Grand Total				\$592,000.00





Voice Communications System

VIPER Strategic Estimates

GATES

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	NEW	NORTHEASTERN GATES							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	132	GATESVILLE			3		077	TELCO	868.925

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.

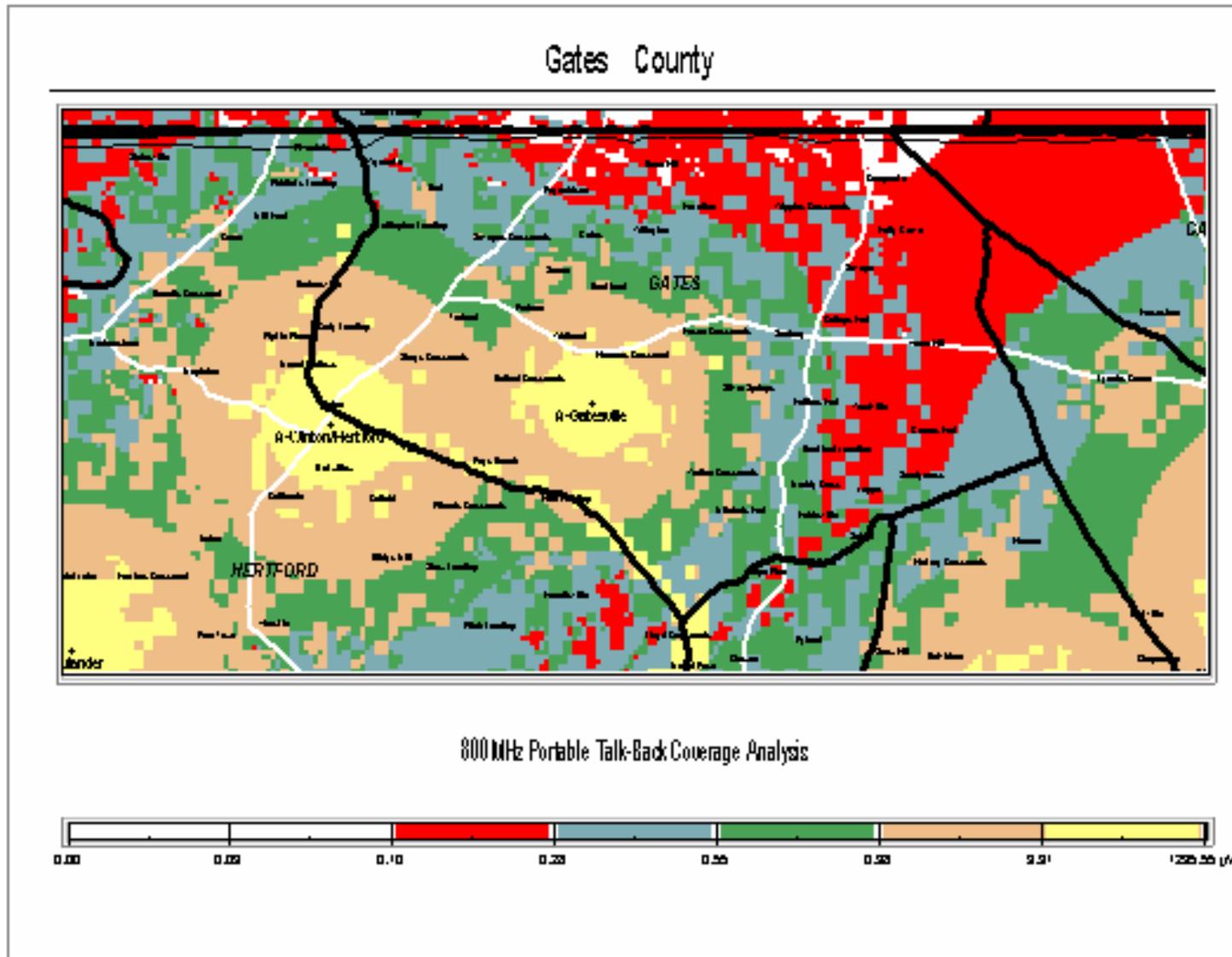


Voice Communications System

VIPER Strategic Estimates

GATES COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$54,000.00	\$70,000.00	\$20,000.00	\$50,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$500,000.00	\$0.00	\$0.00	\$105,000.00
				Grand Total
				\$1,674,000.0





Voice Communications System

VIPER Strategic Estimates

GRAHAM

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	SOUTHWESTERN GRAHAM							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$5,000.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	146	WACHACHA BALD			1329		104	TELCO	855.2375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$200,000.00	\$10,000.00	\$10,000.00	\$25,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$10,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$15,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	NORTHWESTERN GRAHAM							

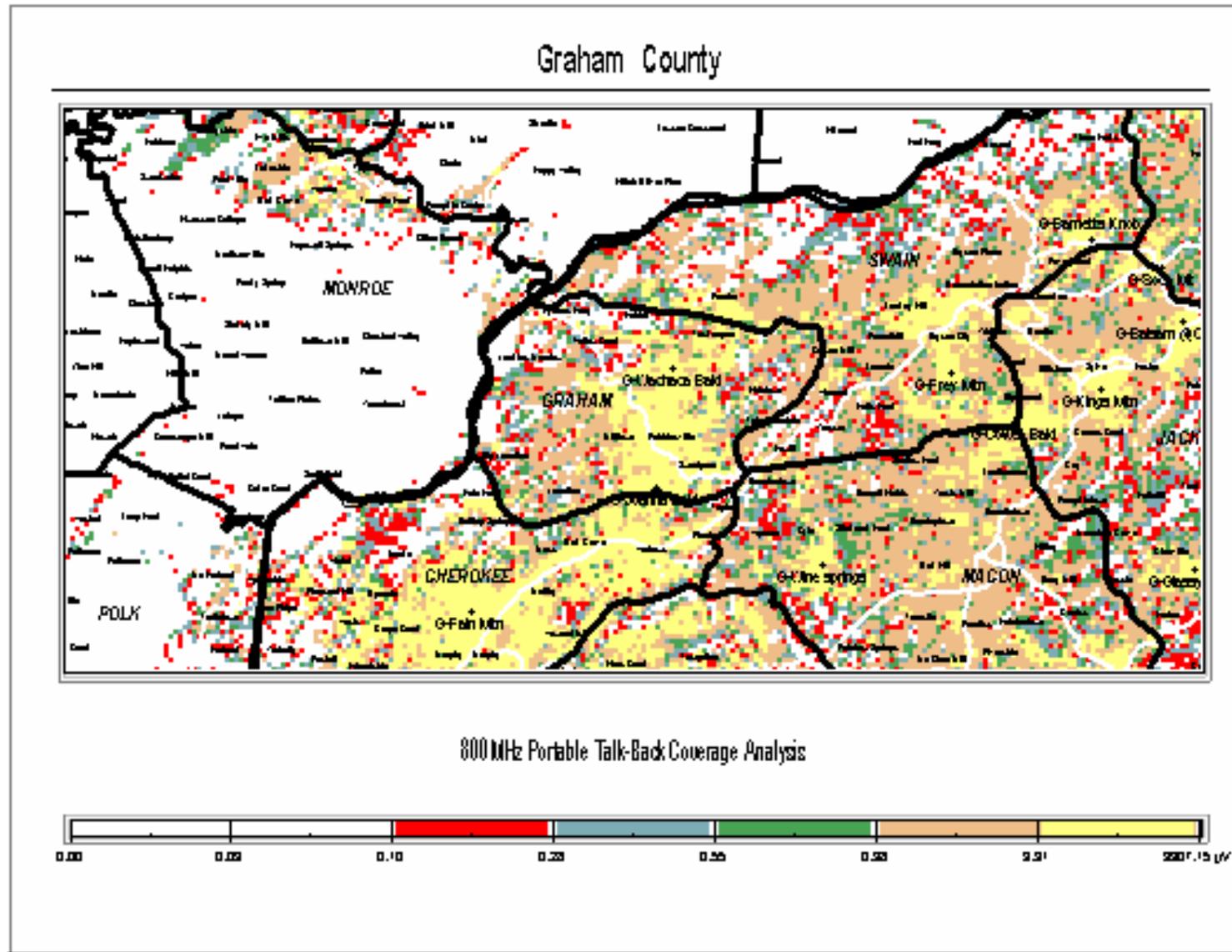
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$5,000.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

GRAHAM COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$700,000.00	\$30,000.00	\$30,000.00	\$95,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$81,000.00	\$80,000.00	\$30,000.00	\$75,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$700,000.00	\$0.00	\$25,000.00	\$205,000.00
Grand Total				\$2,401,000.0





Voice Communications System

VIPER Strategic Estimates

GRANVILLE

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	NEW	WICE-FM BERE A							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	Yes	\$5,000.00

Comments Reuse GRANVILLE tower, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	NEW	OAK HILL CONVENIENCE							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on GRANVILLE land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	17	BUTNER			122		157	M/W	860.4375

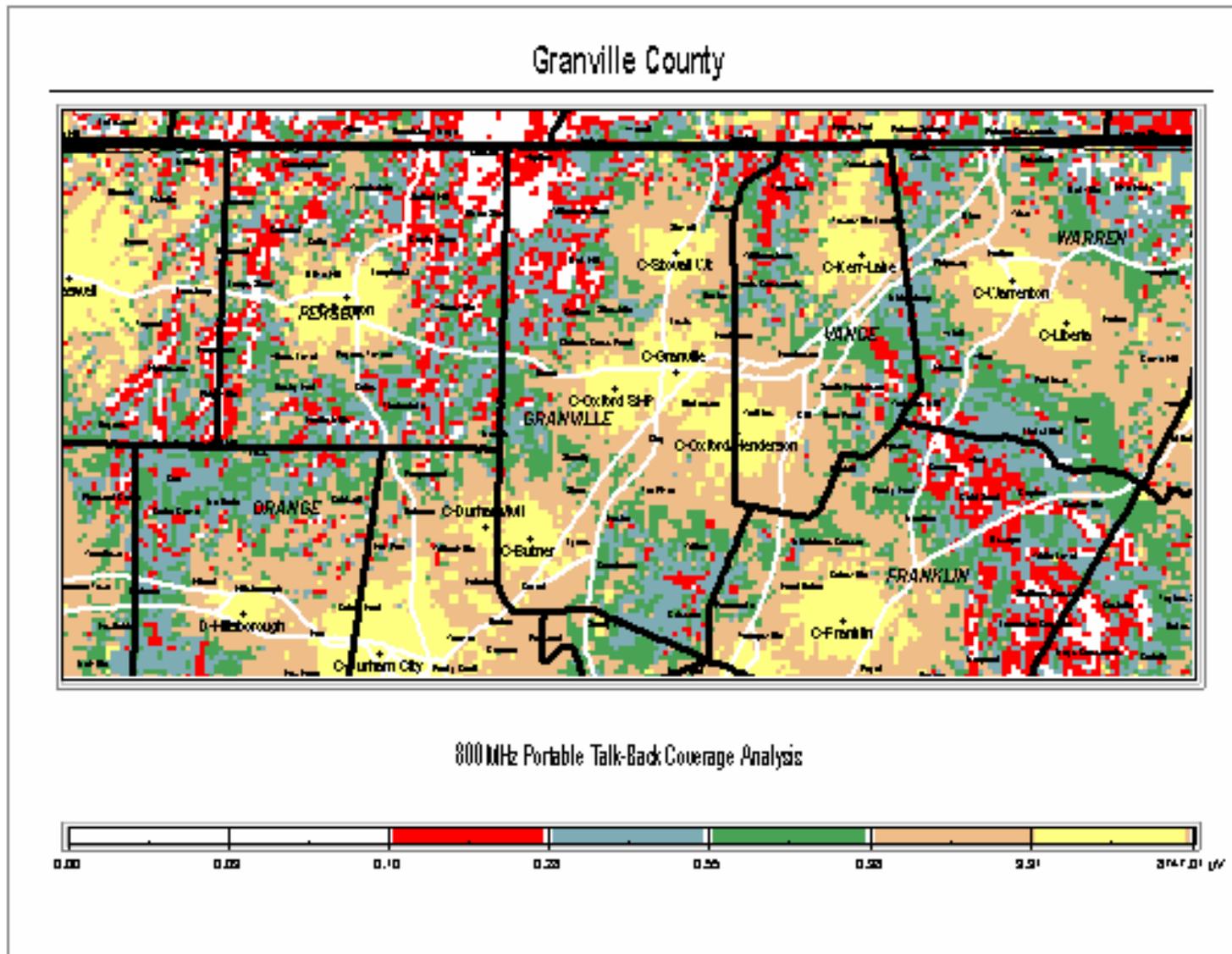
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$100,000.00	\$0.00	\$0.00	\$0.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	Yes	\$0.00

Comments Reuse SHP tower, add channels, sufficient building space, no generator needed.

GRANVILLE COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse	
\$600,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$5,000.00	
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New		
\$54,000.00	\$70,000.00	\$30,000.00	\$50,000.00		
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis	
\$15,000.00	\$250,000.00	\$5,000.00	\$10,000.00	\$10,000.00	
				Grand Total	\$1,569,000.0





Voice Communications System

VIPER Strategic Estimates

GREENE

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	NEW	MAURY							

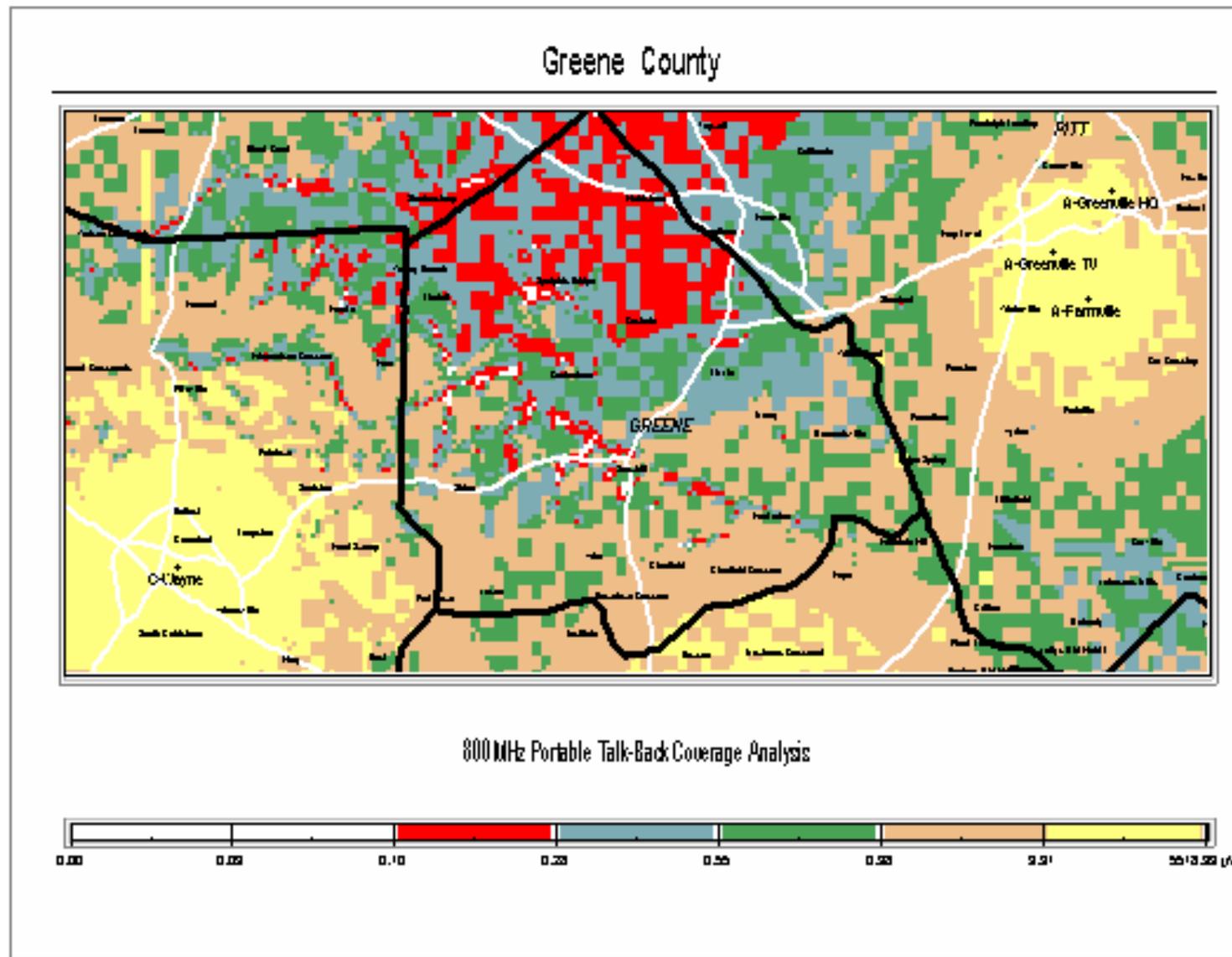
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

GREENE COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	\$100,000.00
Grand Total				\$837,000.00





Voice Communications System

VIPER Strategic Estimates

GUILFORD

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	73	GREENSBORO A&T			232				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse SHP tower, study required, insufficient building space, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	99	McLEANSVILLE			217		006	TELCO	856.2625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	100	SUMMERFIELD			263		009	TELCO	859.9875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	133	HIGH POINT			275		078	TELCO	858.9875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

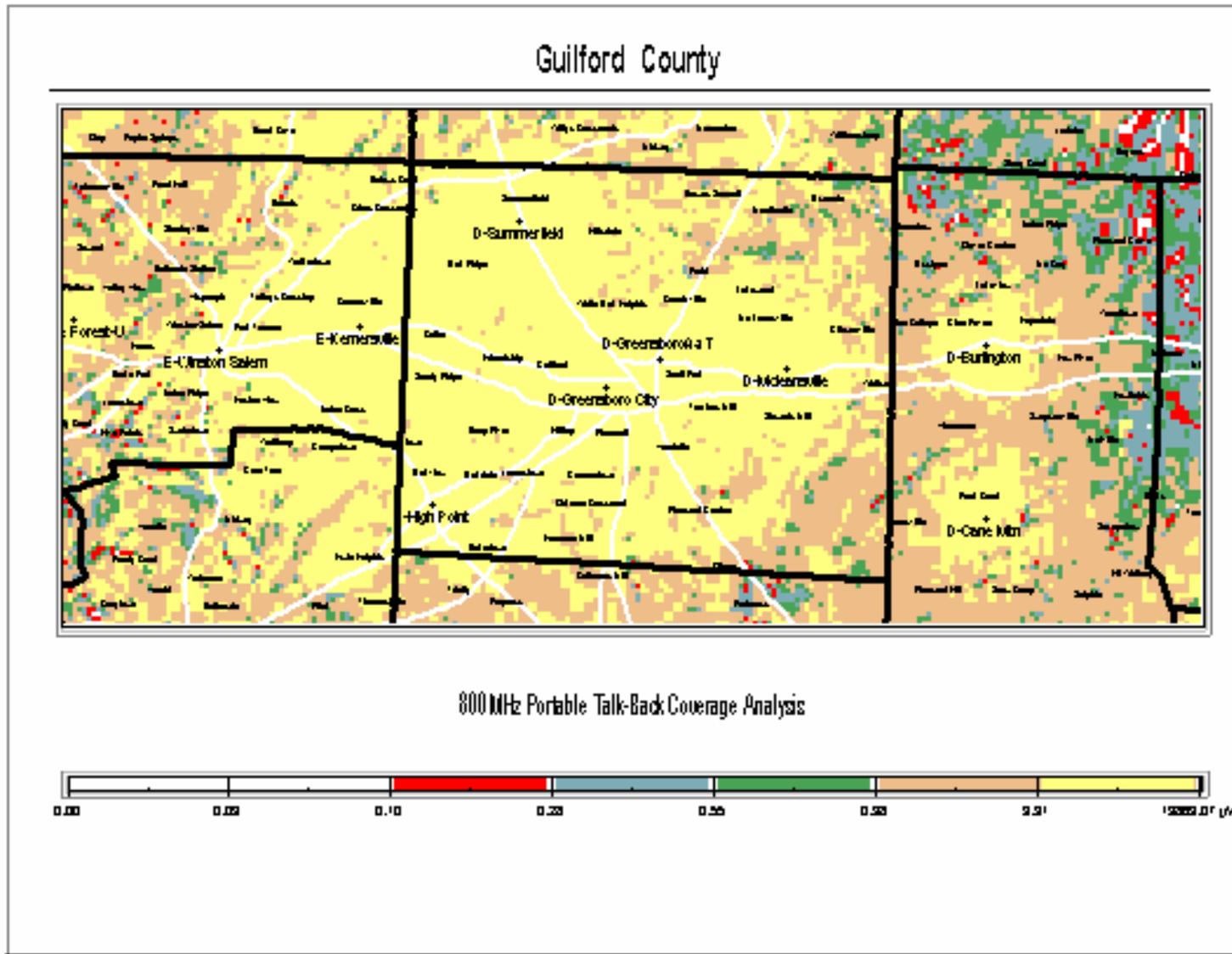


Voice Communications System

VIPER Strategic Estimates

GUILFORD COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$1,000,000.00	\$40,000.00	\$40,000.00	\$140,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$108,000.00	\$40,000.00	\$0.00	\$740,000.00	\$100,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$0.00	\$0.00		\$20,000.00	\$20,000.00
				Grand Total
				\$2,368,000.0





Voice Communications System

VIPER Strategic Estimates

HALIFAX

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	NEW	EASTERN HALIFAX							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

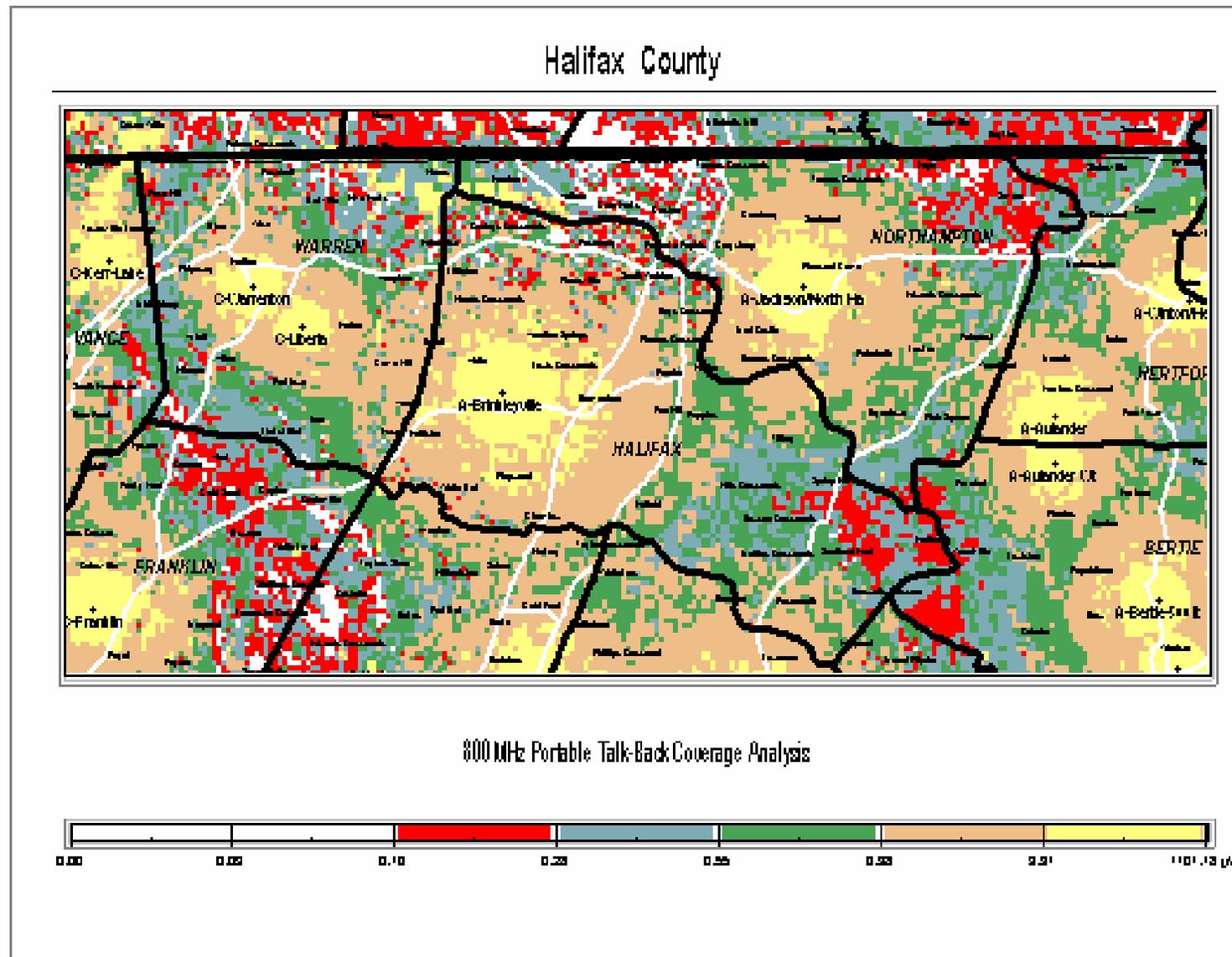
Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	24	BRINKLEYVILE			87		016	M/W	852.2375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$100,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse SHP tower, study required, insufficient building space, generator needed





Voice Communications System

VIPER Strategic Estimates

HARNETT

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	NEW	LILLINGTON							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse Progress Energy Site, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	14	DUNCAN			125		079	M/W	866.5875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	Yes	\$5,000.00

Comments Reuse SHP tower, no study required, sufficient building space, generator needed



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	NEW	ERWIN							

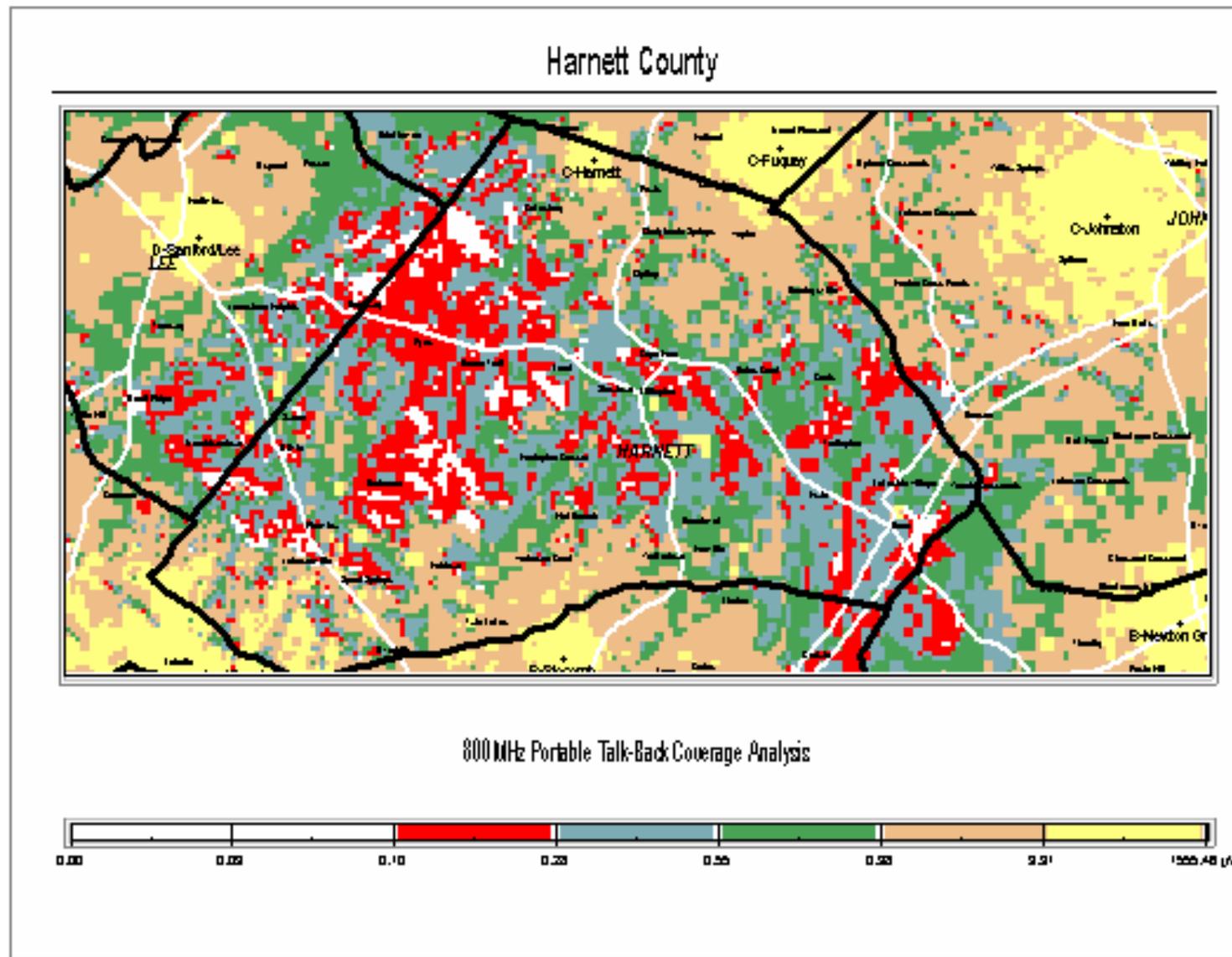
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse Progress Energy Site, study required, insufficient building space, generator needed.

HARNETT COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse	
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$5,000.00	
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New		
\$54,000.00	\$70,000.00	\$30,000.00	\$370,000.00	\$50,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis	
\$15,000.00	\$0.00	\$5,000.00	\$15,000.00	\$15,000.00	
				Grand Total	\$1,224,000.0





Voice Communications System

VIPER Strategic Estimates

HAYWOOD

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	NORTHERN HAYWOOD							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	161	HAZEL TOP MT			1341		123	TELCO	855.4875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$150,000.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Rebuild existing tower, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	67	CRABTREE BALD			1622		105	SS/MW	855.7375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	78	CHAMBERS MT.			1375		061	TELCO	855.9625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$150,000.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Rebuild SHP tower, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	68	SOCO MOUNTAIN			1524		150	M/W	858.7375

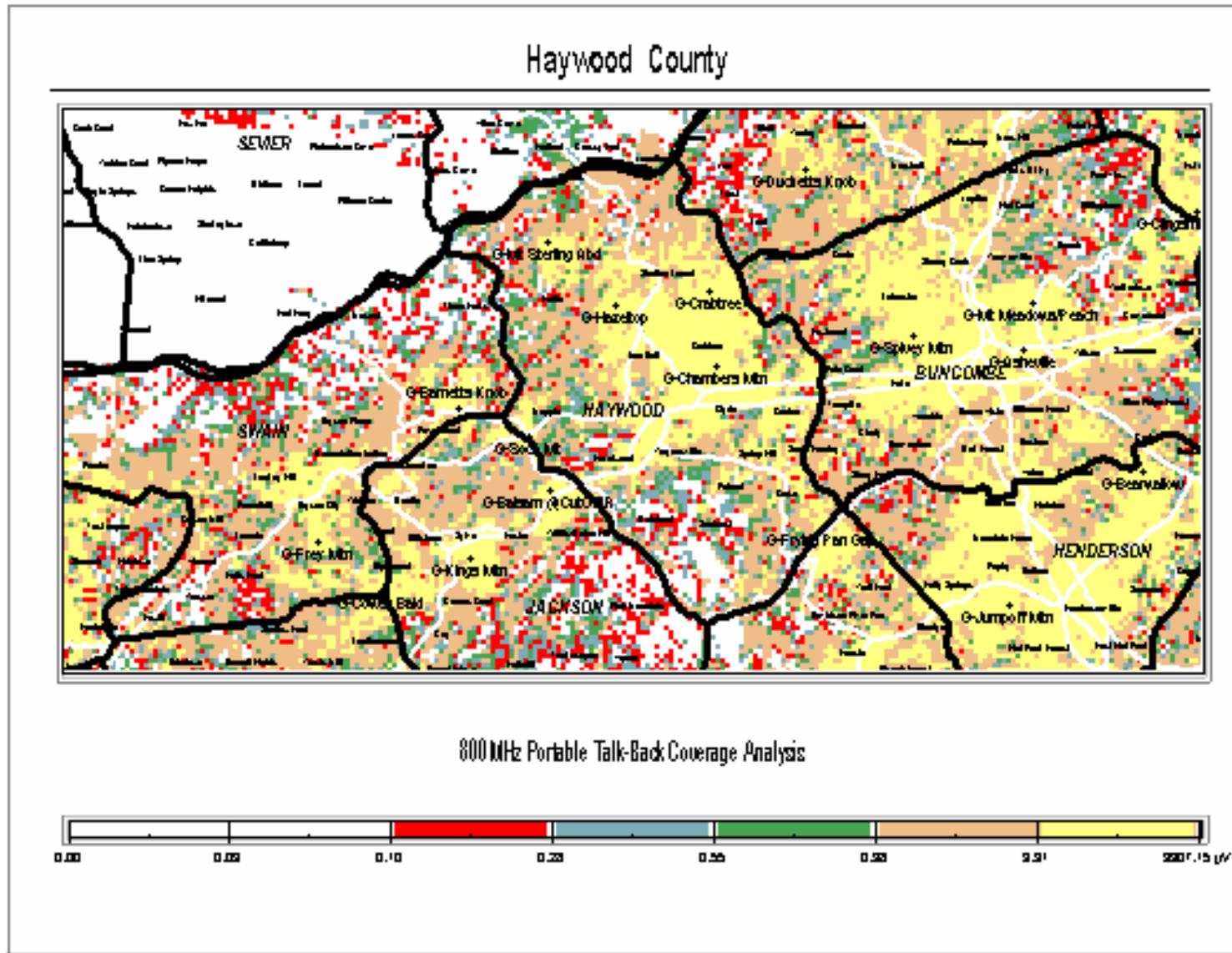
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

HAYWOOD COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$1,250,000.00	\$50,000.00	\$50,000.00	\$175,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$135,000.00	\$175,000.00	\$50,000.00	\$925,000.00	\$125,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$650,000.00	\$0.00	\$0.00	\$120,000.00
Grand Total				\$3,585,000.0





Voice Communications System

VIPER Strategic Estimates

HENDERSON

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	109	CORBIN MT.			922		042	TELCO	855.4625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$150,000.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Rebuild existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	116	JUMP OFF MT			947		049	TELCO	868.925

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$200,000.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Rebuild existing tower, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	110	BAREWALLOW MT.			1290		043	TELCO	855.9625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$150,000.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Rebuild existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	WESTERN HENDERSON							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

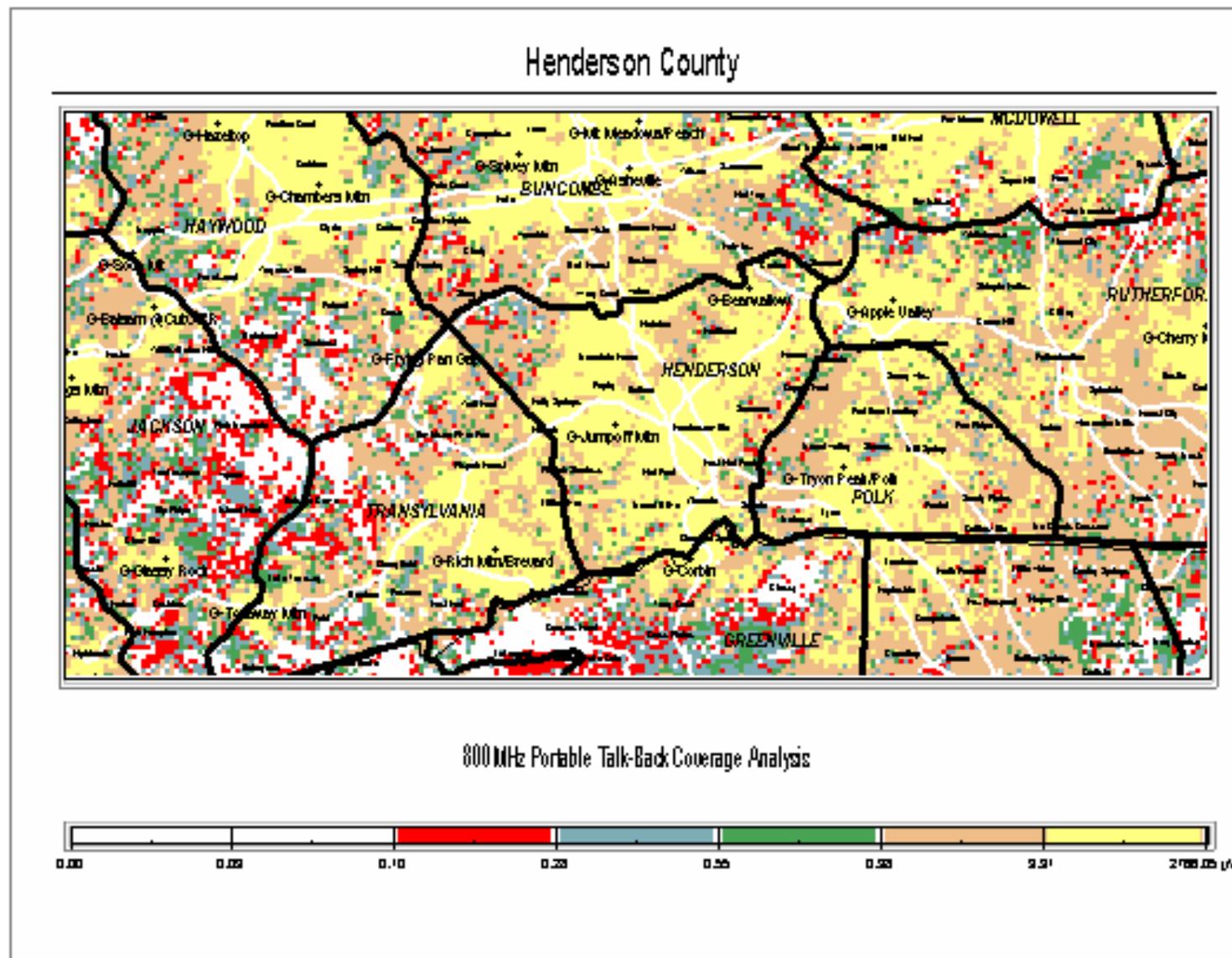


Voice Communications System

VIPER Strategic Estimates

HENDERSON COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$1,000,000.00	\$40,000.00	\$40,000.00	\$140,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$108,000.00	\$40,000.00	\$740,000.00	\$100,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$850,000.00	\$0.00	\$0.00	\$115,000.00
				Grand Total
				\$3,198,000.0





Voice Communications System

VIPER Strategic Estimates

HERTFORD

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	NEW	EASTERN HERTFORD							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	207	WINTON					080	TELCO	868.1

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	91	AULANDER			18				

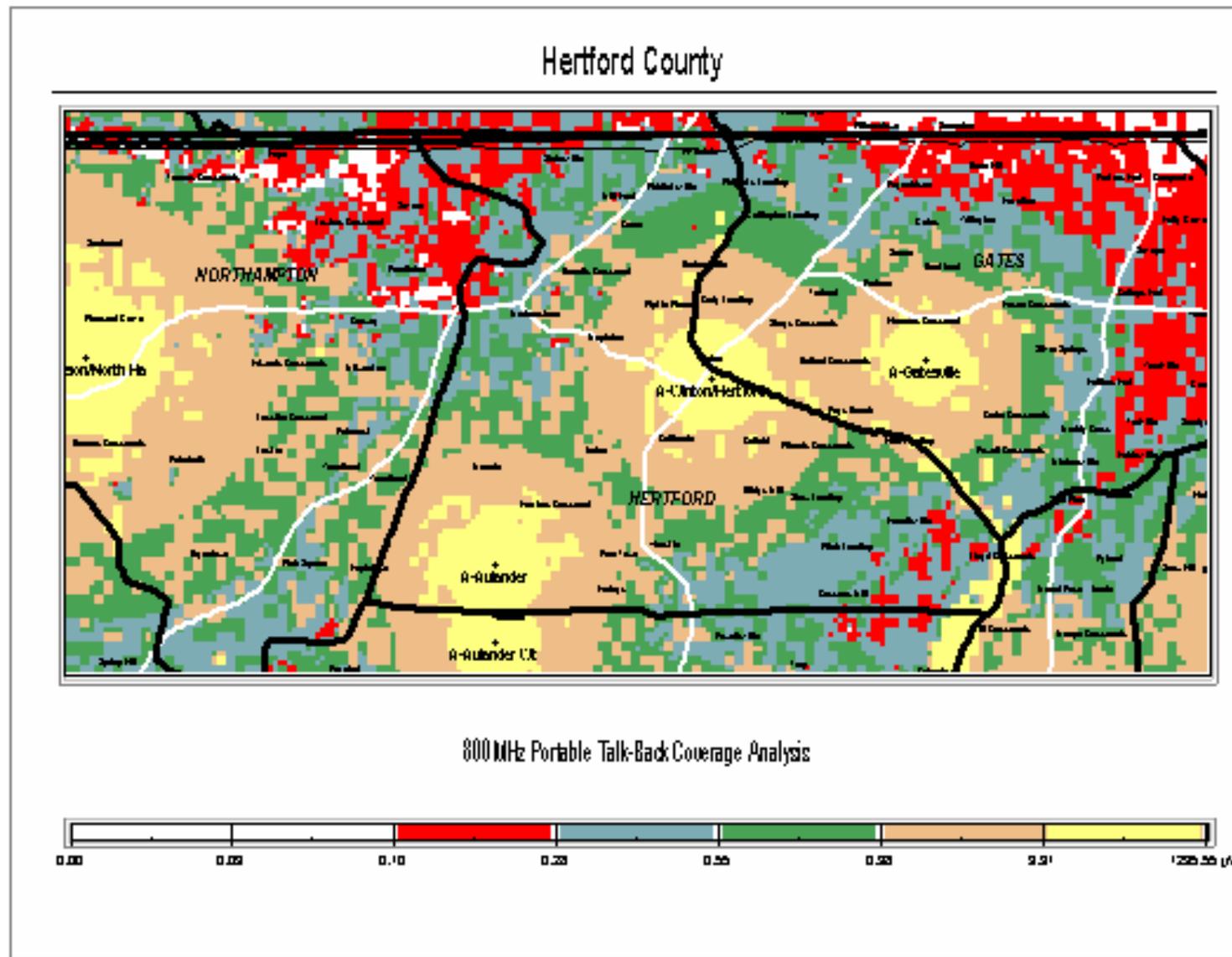
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.

HERTFORD COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$750,000.00	\$30,000.00	\$30,000.00	\$105,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$81,000.00	\$105,000.00	\$30,000.00	\$75,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$750,000.00	\$0.00	\$0.00	\$110,000.00
Grand Total				\$2,511,000.0

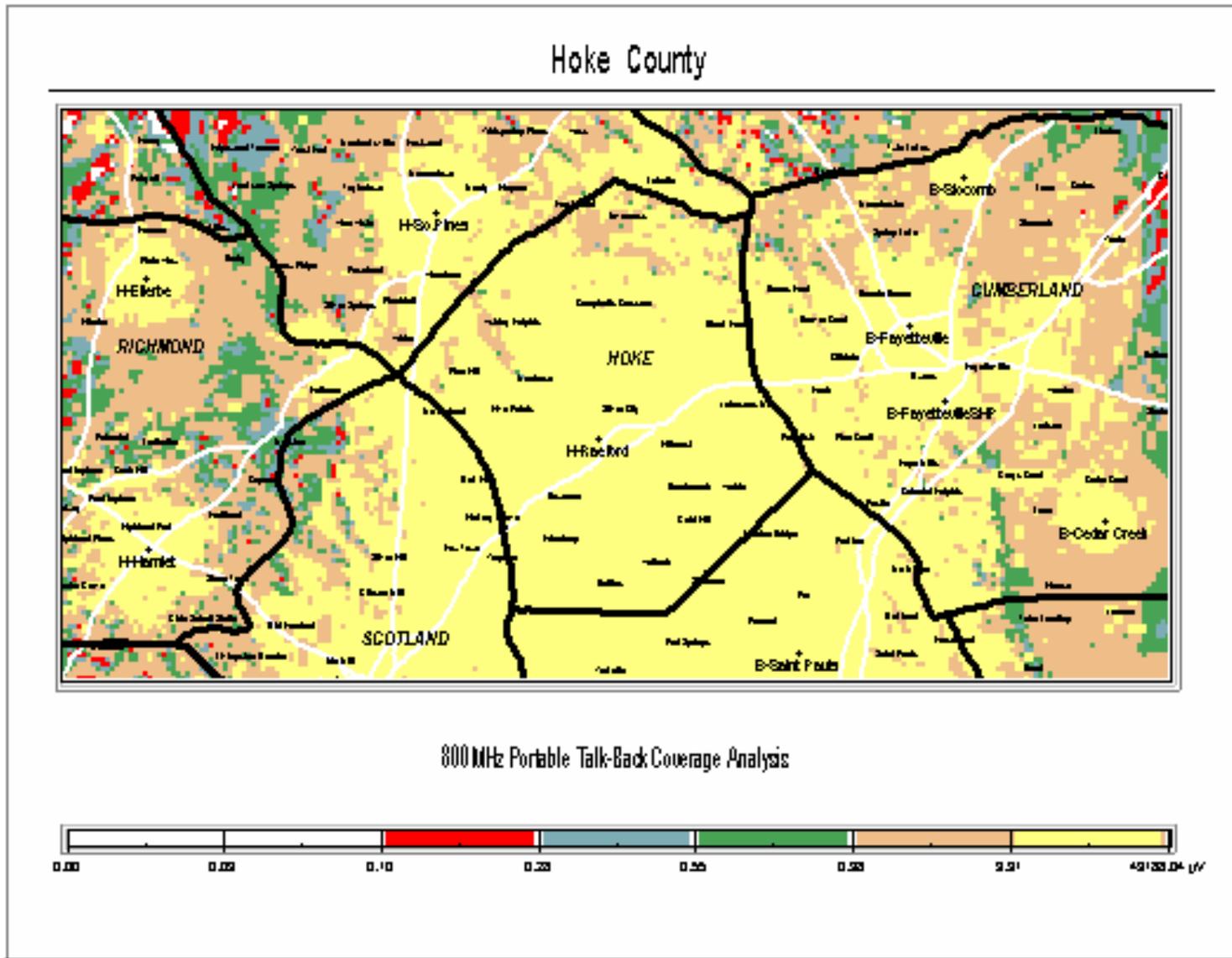




Voice Communications System

VIPER Strategic Estimates

HOKE			Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
Troop H	SHP Site # NEW	Site Name RAEFORD (NEW)							
Costs									
Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse				
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00				
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator					
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00				
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis				
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00				
Comments Construct new tower on to be purchased land, building and generator needed.									
HOKE COUNTY TOTALS:									
Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse					
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00					
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New						
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	\$25,000.00					
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis					
\$0.00	\$350,000.00	\$0.00	\$0.00	\$100,000.00					
				Grand Total	\$937,000.00				





Voice Communications System

VIPER Strategic Estimates

HYDE

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	86	ENGLEHARD			1		081	TELCO	855.4625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$350,000.00	\$0.00	\$0.00	Yes	\$5,000.00

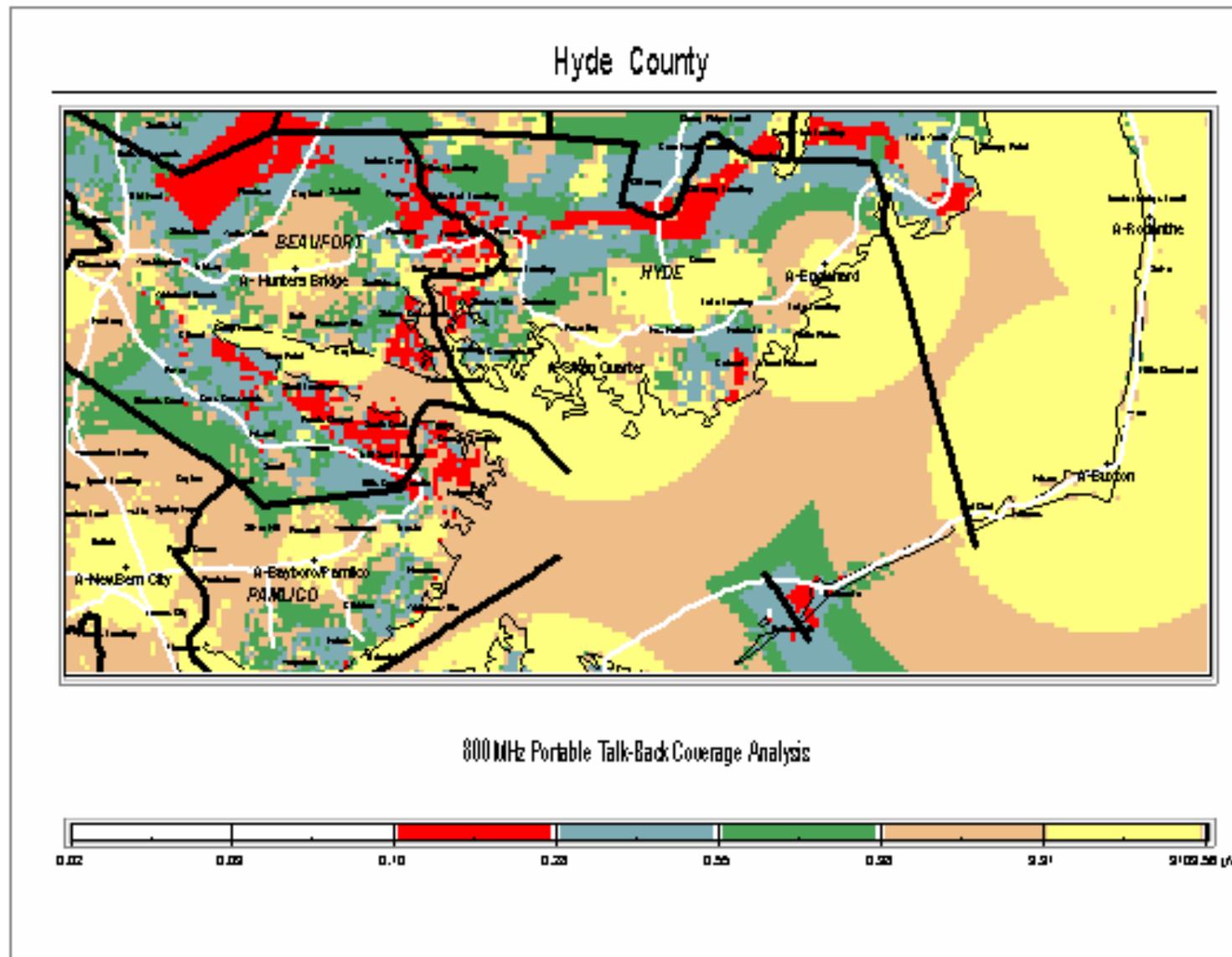
Comments Construct new tower on existing land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	134	SWAN QUARTER			1		082	TELCO	855.7375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$350,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.





Voice Communications System

VIPER Strategic Estimates

IREDELL

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	111	COOL SPRINGS			259		044	TELCO	866.5875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$25,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	NEW	MOORESVILLE							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	57	BARIUM SPRINGS			290				

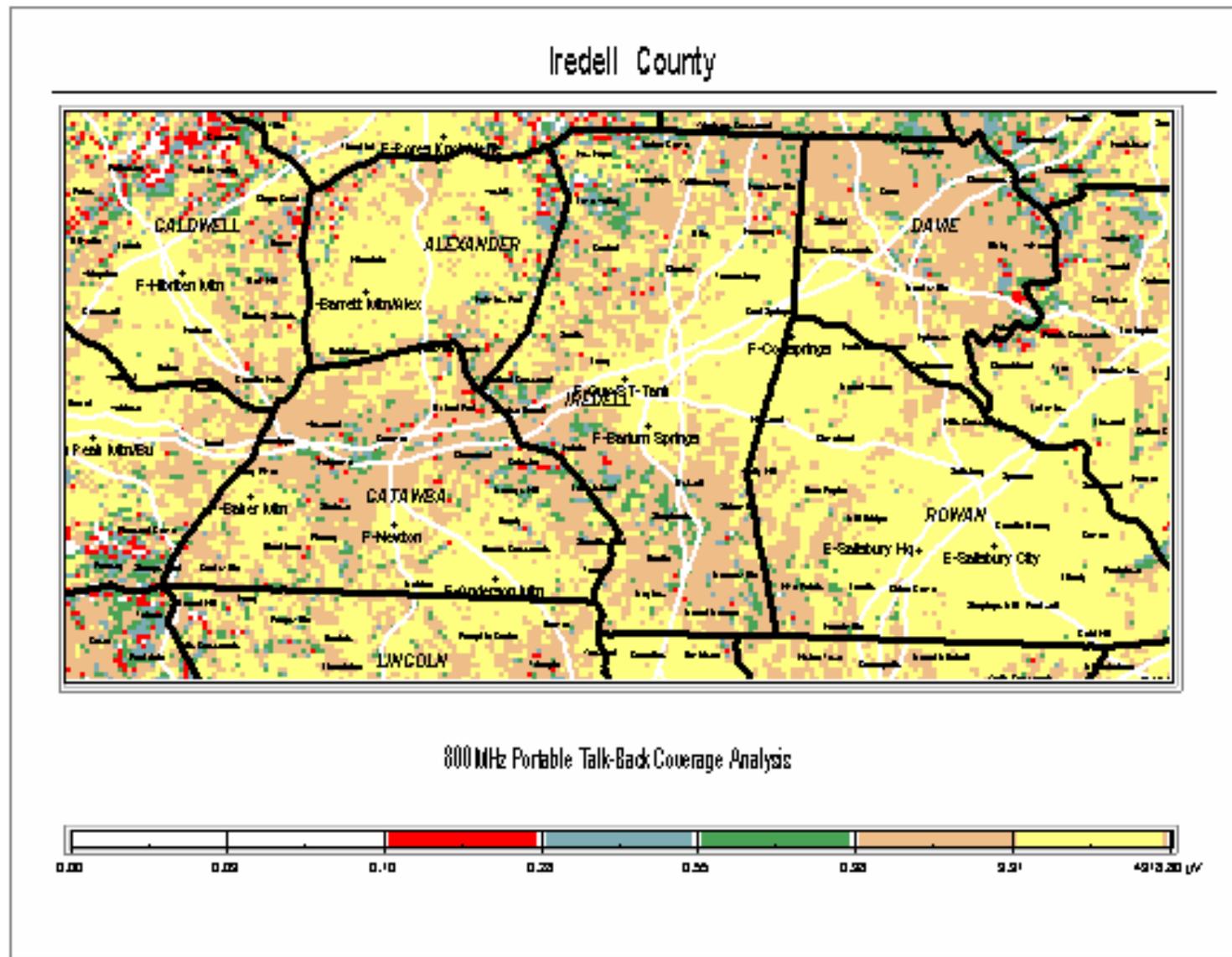
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse SHP tower, study required, sufficient building space, generator needed

IREDELL COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$750,000.00	\$30,000.00	\$30,000.00	\$105,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$54,000.00	\$105,000.00	\$30,000.00	\$370,000.00	\$75,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$35,000.00	\$15,000.00
Grand Total				\$1,604,000.0





Voice Communications System

VIPER Strategic Estimates

JACKSON

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	SYLVA							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	179	KINGS MT			914		141	TELCO	855.2125

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$150,000.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Rebuild existing tower, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	168	BALSAM @CUTOFF RDG			1280		130	TELCO	855.4875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$150,000.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Rebuild existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	BEECH GAP							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

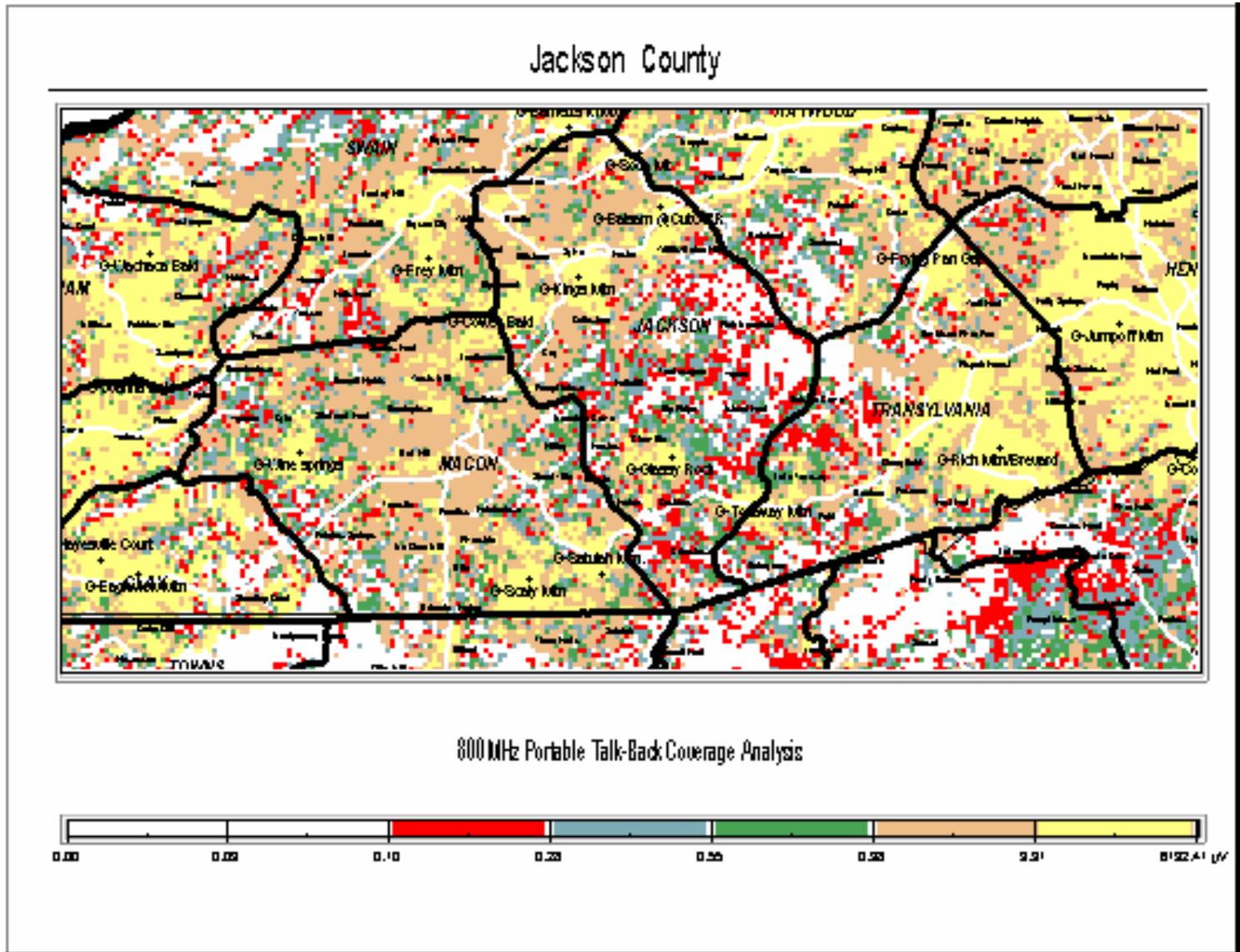


Voice Communications System

VIPER Strategic Estimates

JACKSON COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$1,000,000.00	\$40,000.00	\$40,000.00	\$140,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$108,000.00	\$40,000.00	\$740,000.00	\$100,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$1,000,000.00	\$0.00	\$0.00	\$210,000.00
				Grand Total
				\$3,348,000.0





Voice Communications System

VIPER Strategic Estimates

JOHNSTON

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	18	ARCHER LODGE			80				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$100,000.00	\$0.00	\$0.00	\$0.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	Yes	\$5,000.00

Comments Reuse SHP tower, add channels, sufficient building space, no generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	107	SMITHFIELD			72		031	TELCO	857.4875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse JOHNSTON tower, study required, insufficient building space, generator needed

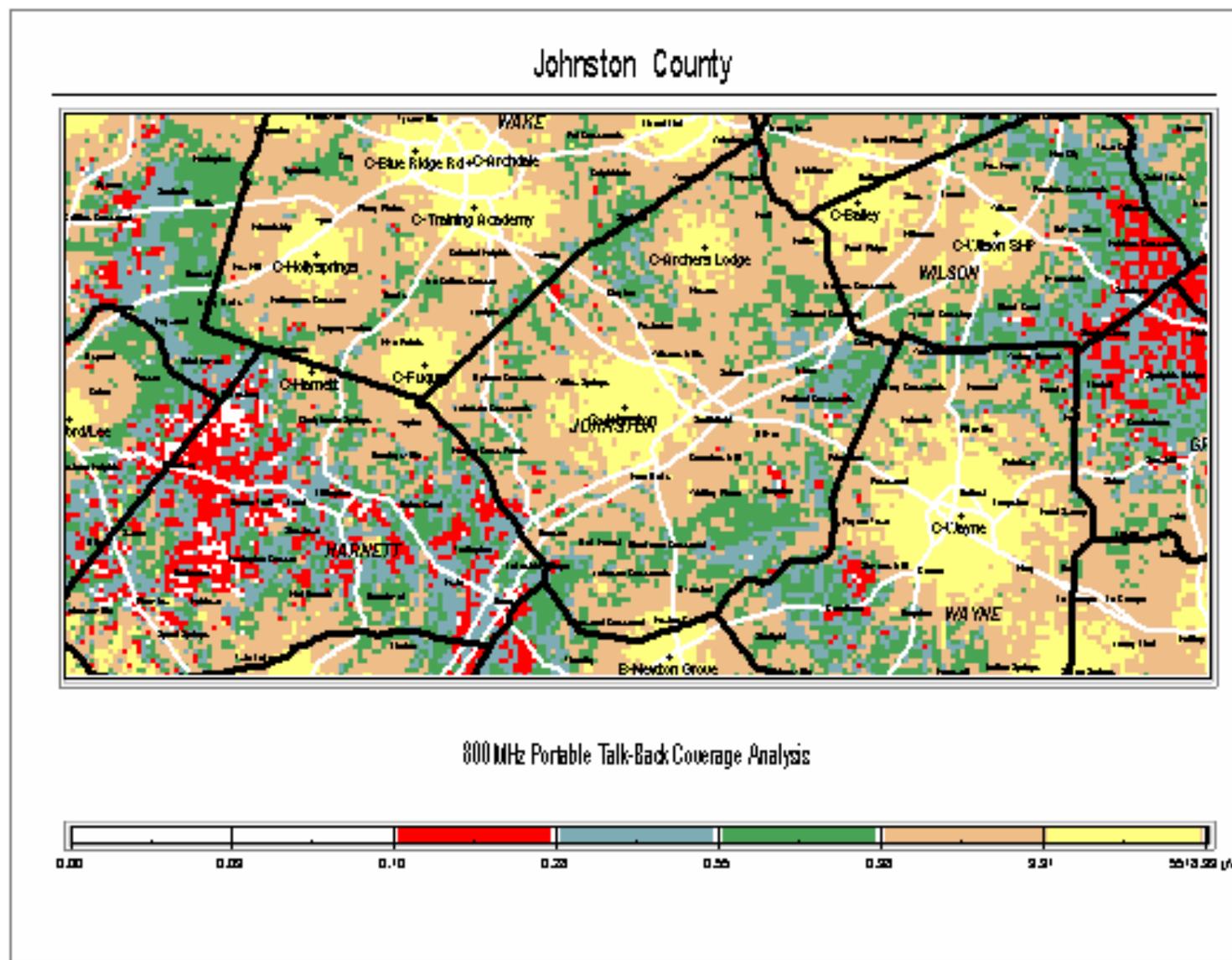


Voice Communications System

VIPER Strategic Estimates

JOHNSTON COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$350,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$27,000.00	\$20,000.00	\$5,000.00	\$185,000.00	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$15,000.00	\$0.00		\$10,000.00	\$10,000.00
				Grand Total
				\$732,000.00





Voice Communications System

VIPER Strategic Estimates

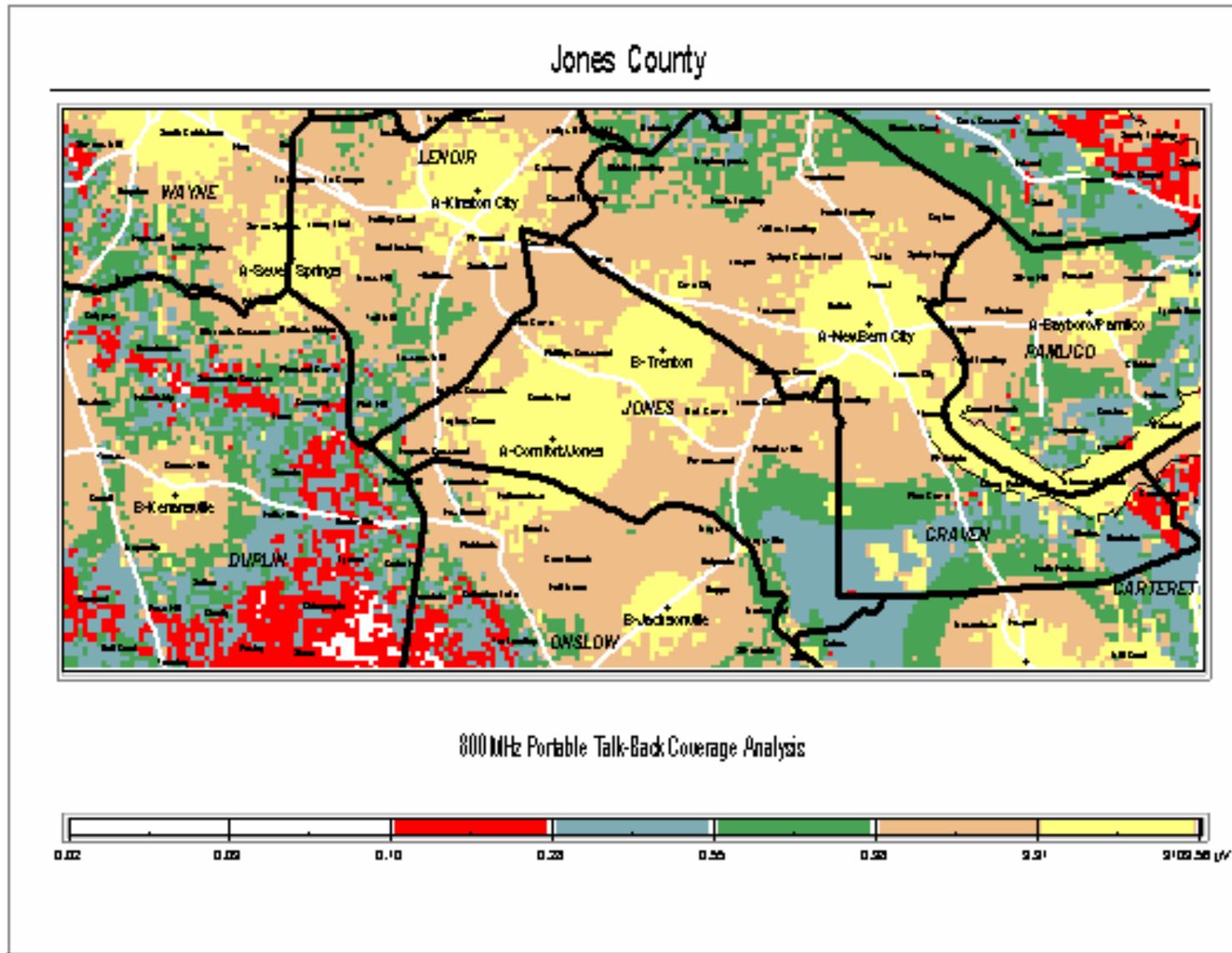
JONES									
Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	80	COMFORT			5		083	TELCO	855.7125

Costs									
Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse				
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00				
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator					
\$0.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00				
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis				
\$15,000.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00				

Comments Construct new tower on existing land, building and generator needed.

JONES COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse					
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$5,000.00					
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New						
\$0.00	\$35,000.00	\$10,000.00	\$25,000.00						
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis					
\$15,000.00	\$250,000.00	\$0.00	\$0.00	\$5,000.00					
				Grand Total	\$645,000.00				





Voice Communications System

VIPER Strategic Estimates

LEE

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	112	SANFORD			113		045	TELCO	860.4375

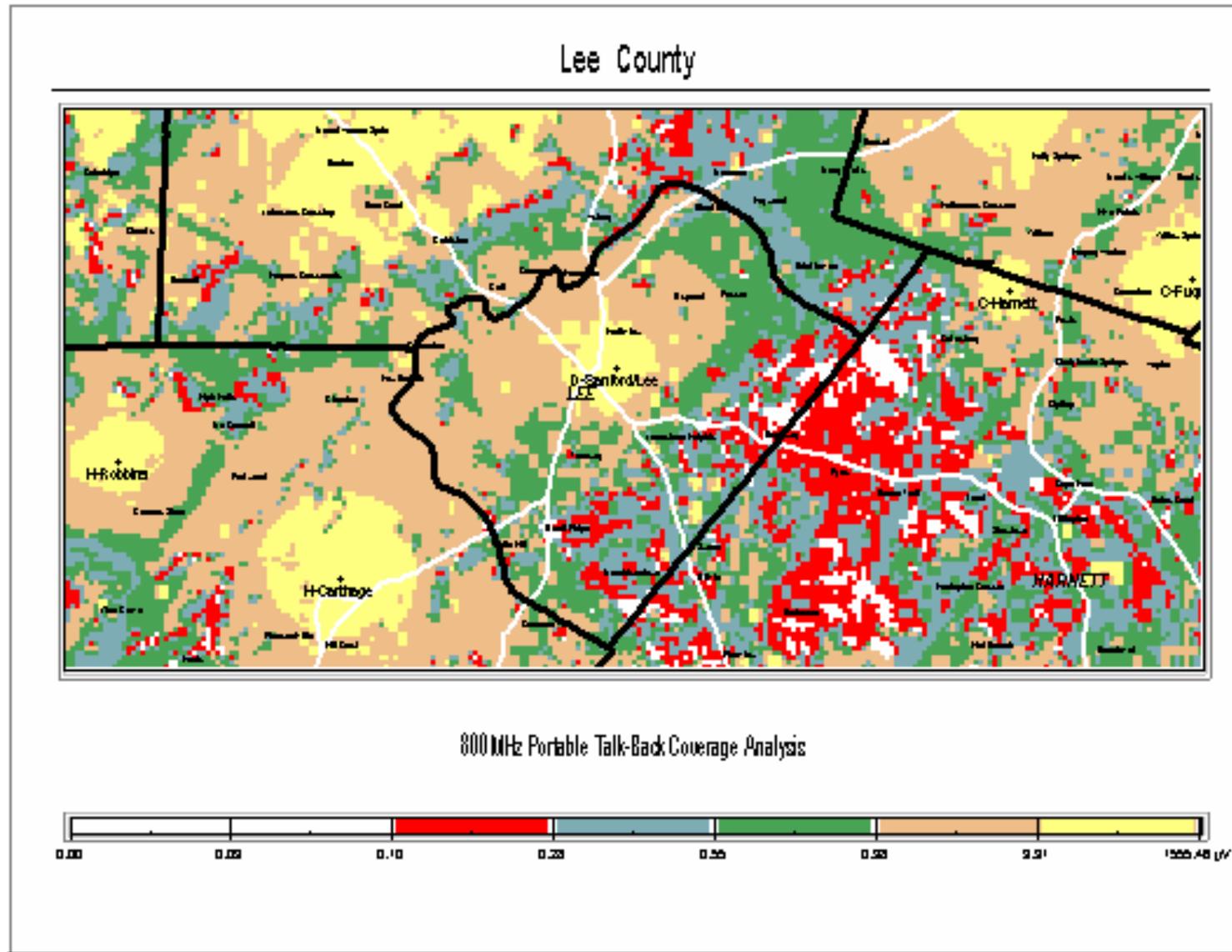
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$5,000.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

LEE COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$5,000.00	\$100,000.00
Grand Total				\$842,000.00





Voice Communications System

VIPER Strategic Estimates

LENOIR

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	35	SEVEN SPRINGS			40		117	M/W	854.9875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Rebuild SHP tower, sufficient building space with upfit, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	103	KINSTON CITY			18		020	TELCO	853.4125

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$50,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	Yes	\$0.00

Comments Reuse KINSTON tower, insufficient building space, generator needed.

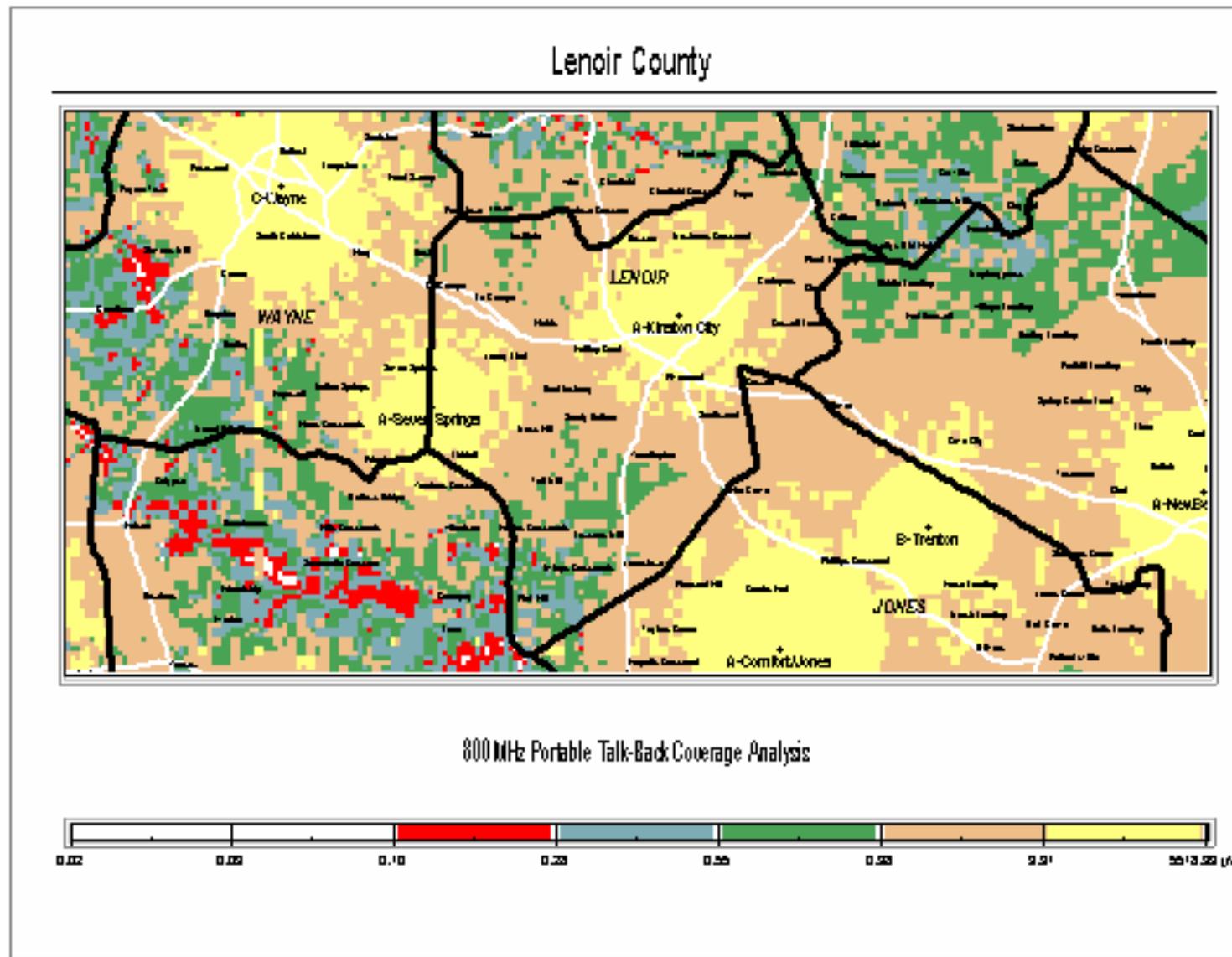


Voice Communications System

VIPER Strategic Estimates

LENOIR COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$27,000.00	\$20,000.00	\$0.00	\$185,000.00	\$75,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$15,000.00	\$250,000.00		\$5,000.00	\$5,000.00
			Grand Total	\$1,262,000.0





Voice Communications System

VIPER Strategic Estimates

LINCOLN

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	NEW	CENTRAL LINCOLN							

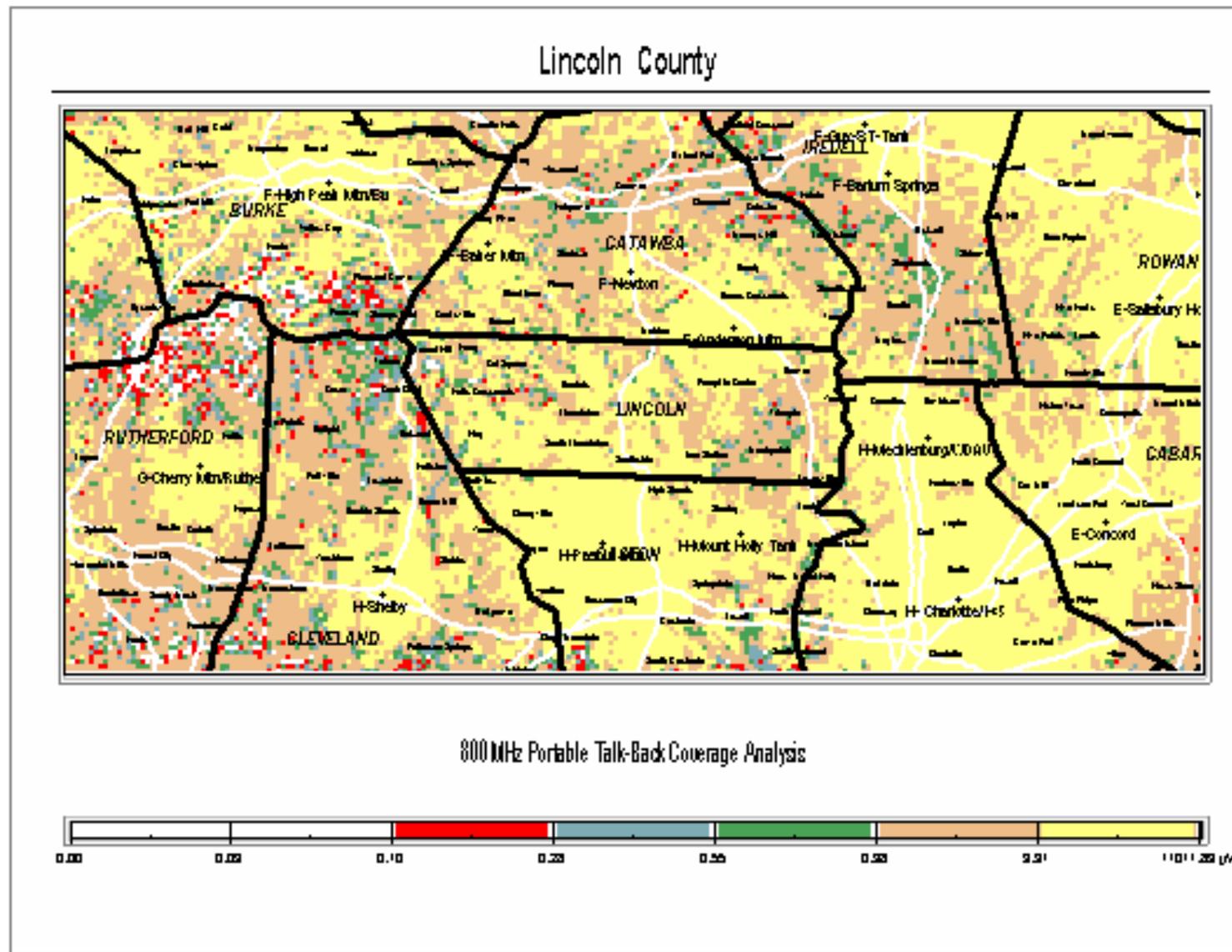
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

LINCOLN COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	\$100,000.00
Grand Total				\$937,000.00





Voice Communications System

VIPER Strategic Estimates

MACON

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	71	WINE SPRINGS			1659		060	TELCO	855.7375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$25,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$10,000.00	\$10,000.00	\$185,000.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Reuse SHP tower, study required, insufficient building space, no generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	FRANKLIN							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	69	COWEE BALD			1508		023	M/W	855.2375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$25,000.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$10,000.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$150,000.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Reuse SHP tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	163	SCALY MOUNTAIN			1464		125	TELCO	859.7375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$150,000.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Rebuild existing tower, study required, insufficient building space, generator needed.

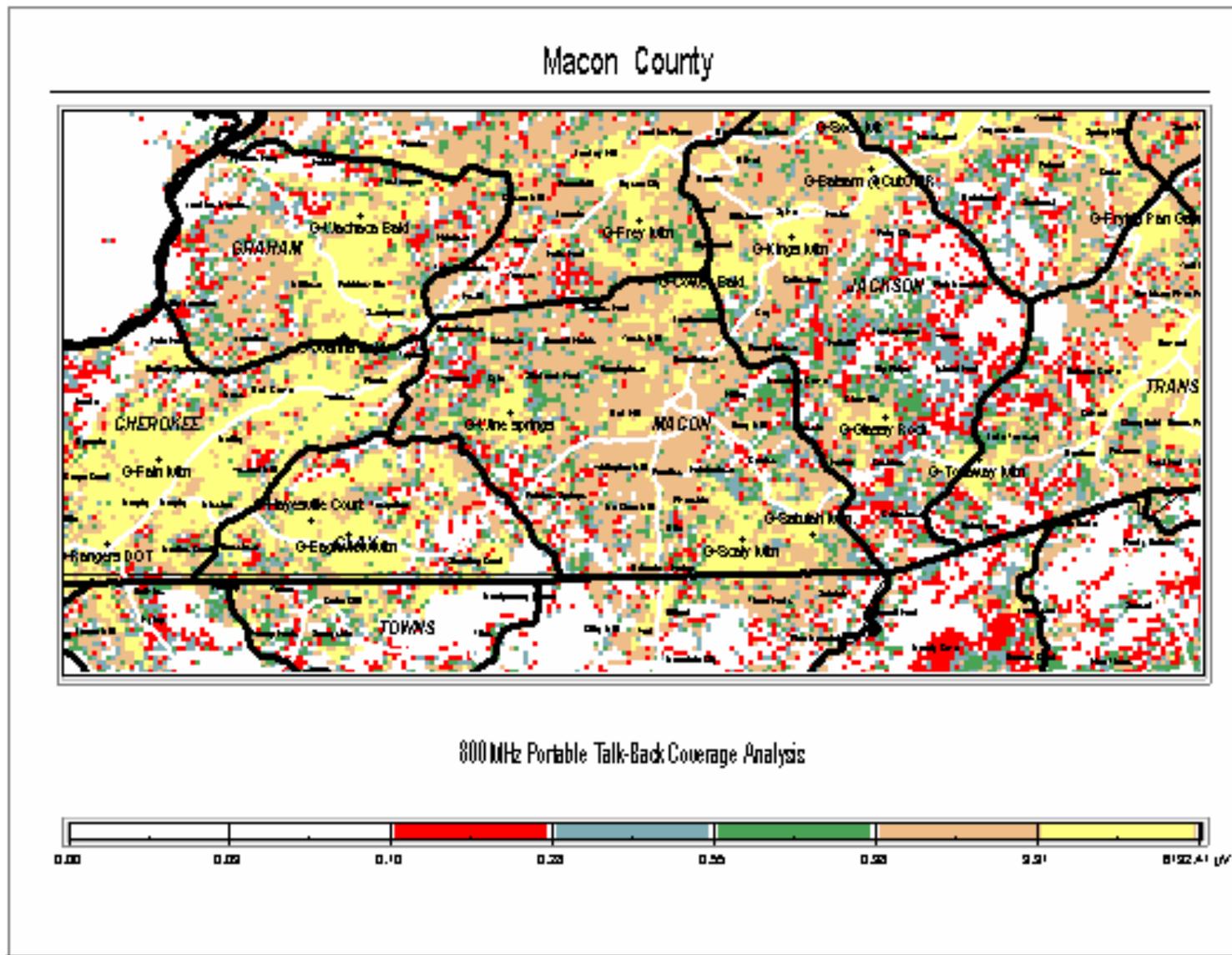


Voice Communications System

VIPER Strategic Estimates

MACON COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$1,000,000.00	\$40,000.00	\$40,000.00	\$120,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$81,000.00	\$40,000.00	\$0.00	\$555,000.00	\$50,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$15,000.00	\$900,000.00		\$0.00	\$115,000.00
				Grand Total
				\$2,936,000.0





Voice Communications System

VIPER Strategic Estimates

MADISON

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	156	DUCKETS KNOB			1296		116	TELCO	855.4625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$150,000.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Rebuild existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	HOT SPRINGS							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	BIG LAUREL							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	162	BIG KNOB MTN			1234		124	TELCO	855.7375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$200,000.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Rebuild existing tower, study required, insufficient building space, generator needed.

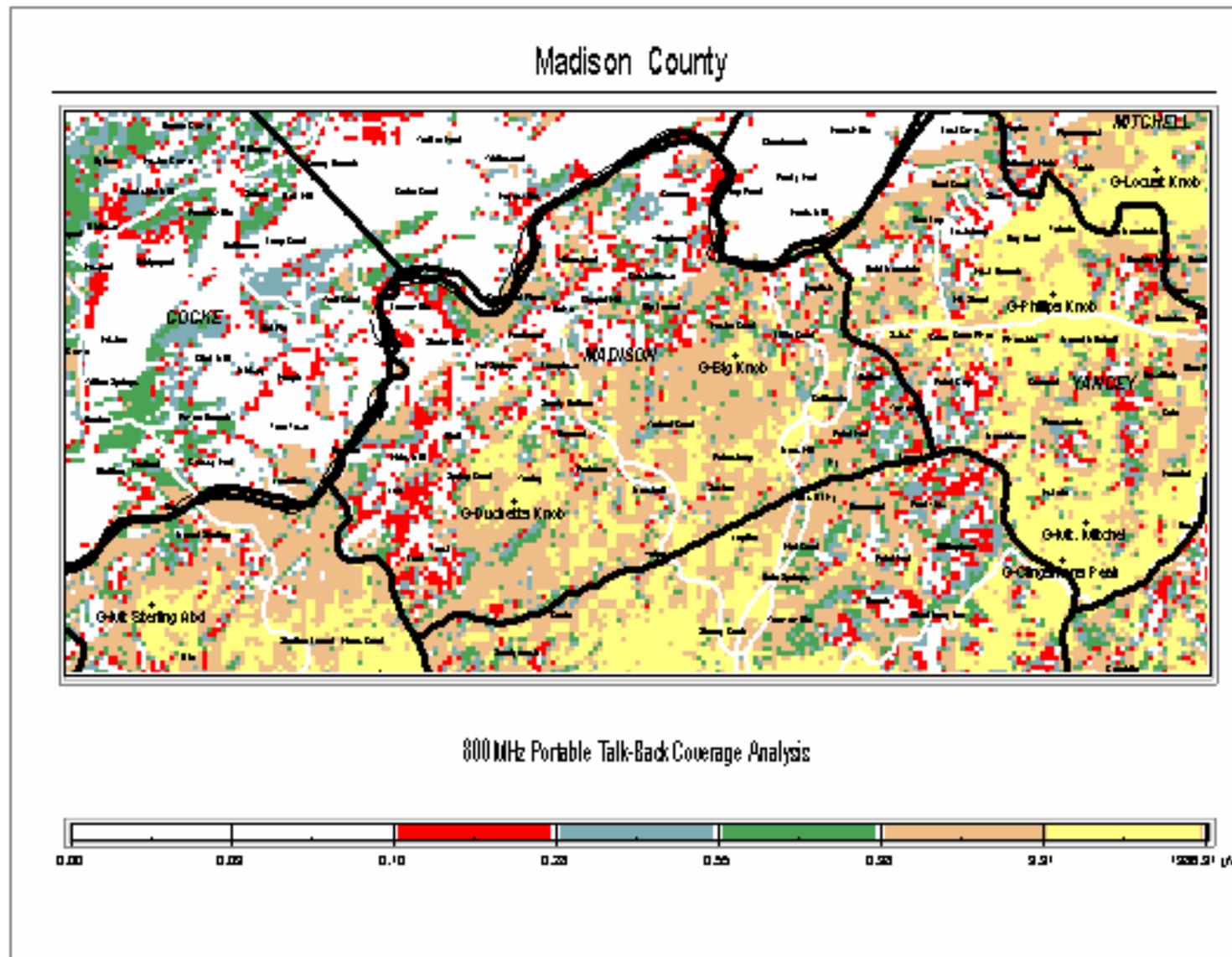


Voice Communications System

VIPER Strategic Estimates

MADISON COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$1,000,000.00	\$40,000.00	\$40,000.00	\$140,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$108,000.00	\$40,000.00	\$740,000.00	\$100,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$1,050,000.00	\$0.00	\$0.00	\$210,000.00
				Grand Total
				\$3,398,000.0





Voice Communications System

VIPER Strategic Estimates

MARTIN

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	27	WILLIAMSTON			24		084	TELCO	854.9875

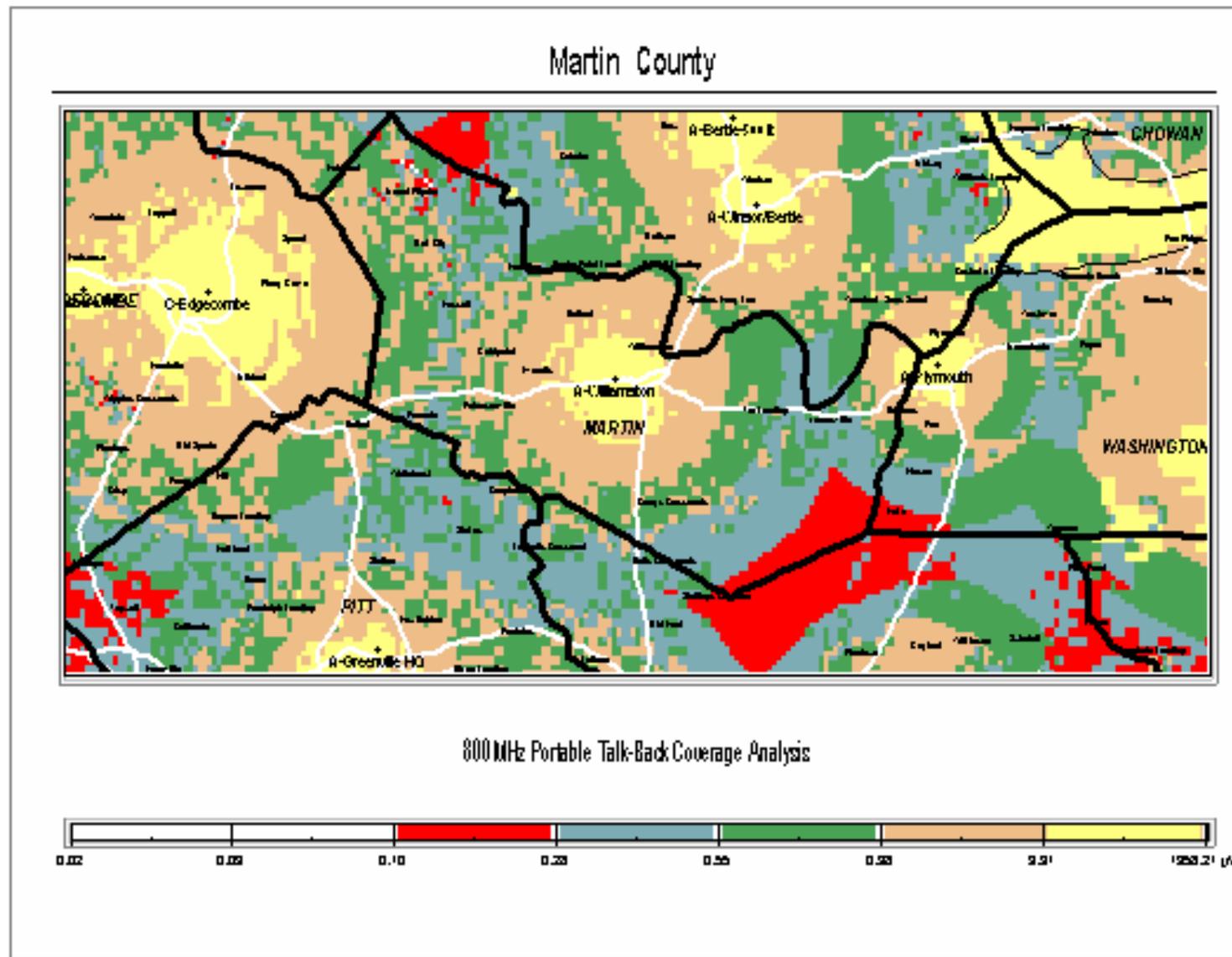
Costs

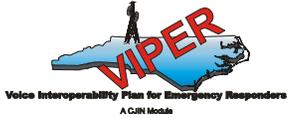
Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$20,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$5,000.00	\$0.00	\$0.00	\$5,000.00	Yes	\$0.00

Comments Reuse SHP tower, study required, insufficient building space, generator needed

MARTIN COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$0.00	\$20,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$5,000.00	\$0.00	\$0.00	\$5,000.00	\$0.00
Grand Total				\$370,000.00





Voice Communications System

VIPER Strategic Estimates

MCDOWELL

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	121	GRANTS MOUNTAIN			702		057	TELCO	857.2625

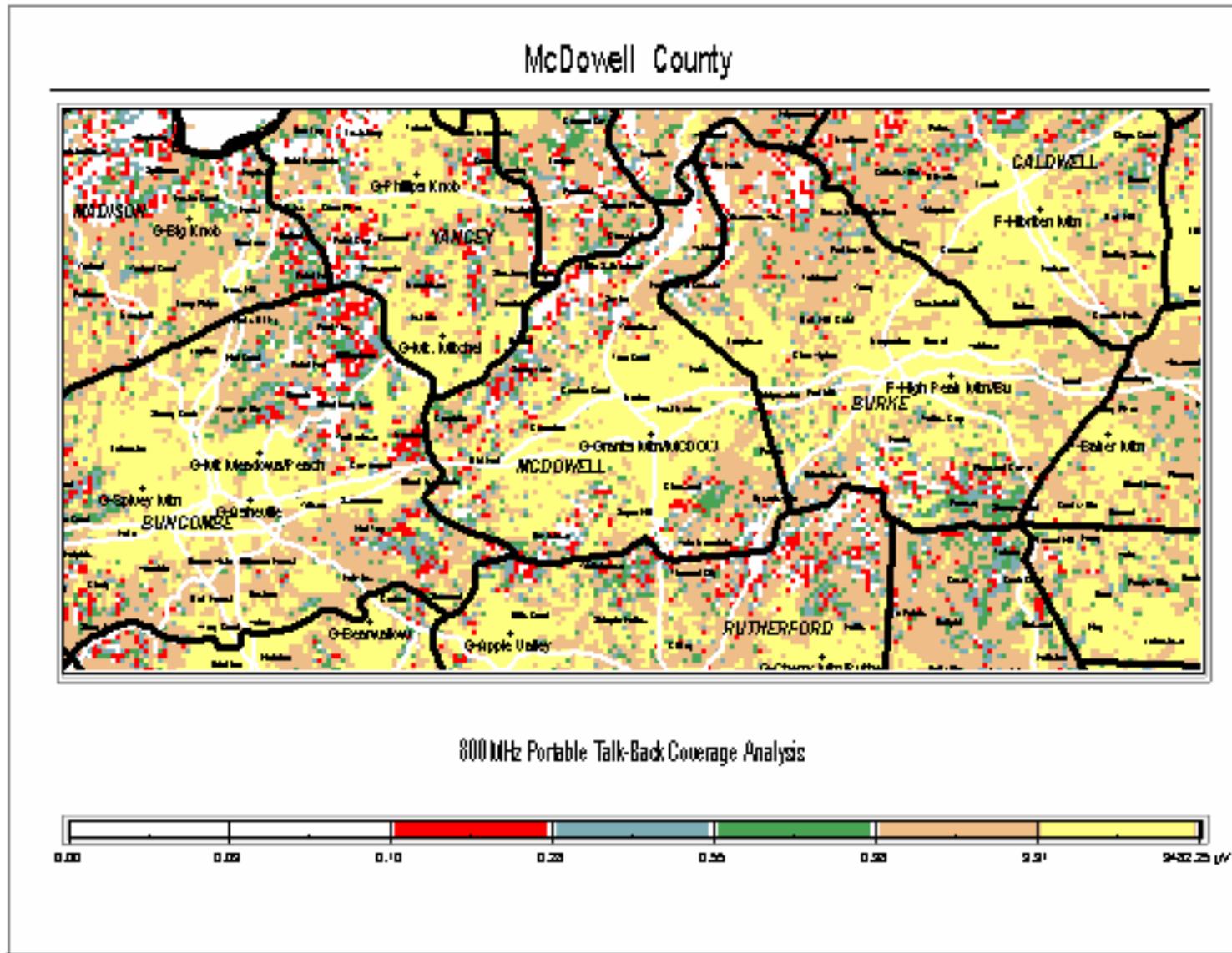
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	YES	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

MCDOWELL COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00
Grand Total				\$592,000.00





Voice Communications System

VIPER Strategic Estimates

MECKLENBURG

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	106	CHARLOTTE SUG CK			229		027	TELCO	859.4375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	202	CHARLOTTE - WEST			242				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

MECKLENBURG COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$10,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$0.00	\$20,000.00	\$10,000.00	\$370,000.00	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$0.00	\$0.00		\$10,000.00	\$10,000.00
				Grand Total
				\$1,100,000.0



Voice Communications System

VIPER Strategic Estimates

MITCHELL

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	149	LOCUST KNOB			1243		109	TELCO	855.7125

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	YES	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	NORTHERN MITCHELL							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	SOUTHERN MITCHELL							

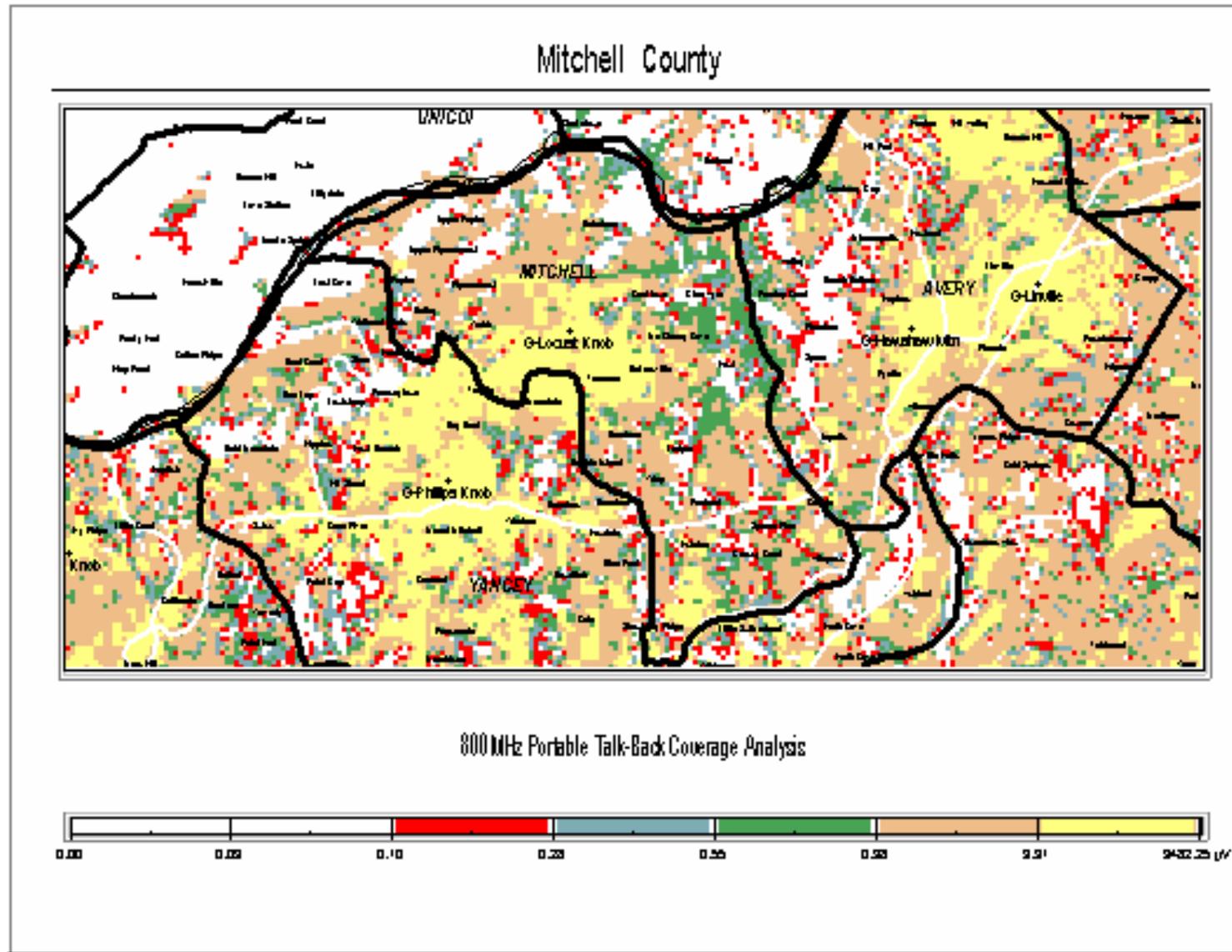
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

MITCHELL COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse	
\$750,000.00	\$30,000.00	\$30,000.00	\$105,000.00	\$0.00	
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New		
\$81,000.00	\$105,000.00	\$30,000.00	\$75,000.00		
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis	
\$0.00	\$700,000.00	\$0.00	\$5,000.00	\$205,000.00	
				Grand Total	\$2,466,000.0





Voice Communications System

VIPER Strategic Estimates

MONTGOMERY

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	76	BUCK MOUNTAIN			256		085	TELCO	866.5875

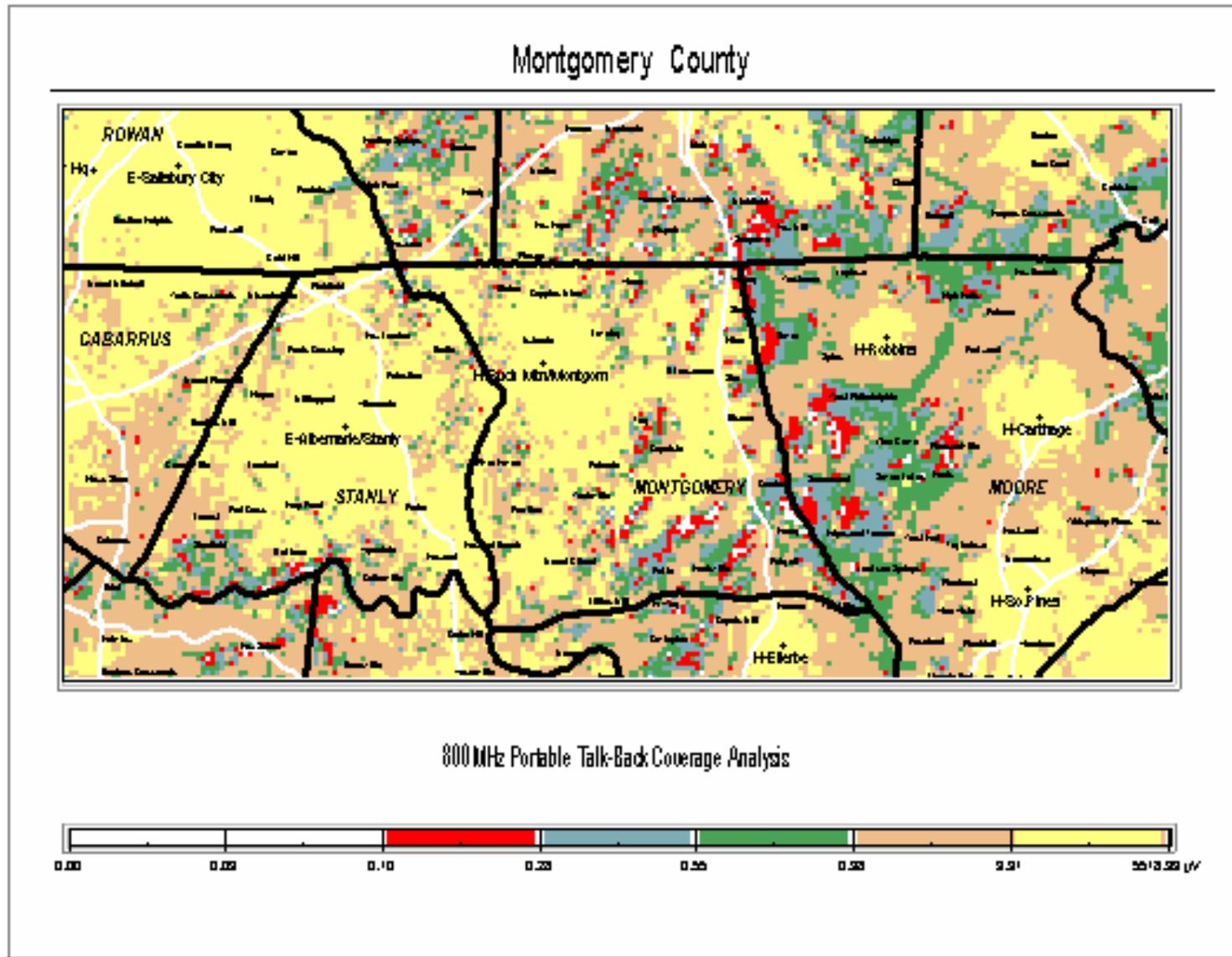
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$25,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

MONTGOMERY COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$0.00	\$0.00	\$25,000.00	\$5,000.00
Grand Total				\$612,000.00





Voice Communications System

VIPER Strategic Estimates

MOORE

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	117	SOUTHERN PINES			162		052	TELCO	855.2375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	135	ROBBINS			130		086	TELCO	856.2625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$0.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	77	CARTHAGE			174		156	TELCO	856.4625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.

MOORE COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$750,000.00	\$30,000.00	\$30,000.00	\$105,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$54,000.00	\$105,000.00	\$30,000.00	\$555,000.00	\$50,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$250,000.00	\$5,000.00	\$10,000.00	\$10,000.00
Grand Total				\$1,979,000.0



Voice Communications System

VIPER Strategic Estimates

NASH

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	NEW	CASTALIA							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	74	ROCKY MOUNT			29		026	TELCO	852.7375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$0.00

Comments Reuse ROCKY MOUNT tower, study required, sufficient building space, no generator needed.

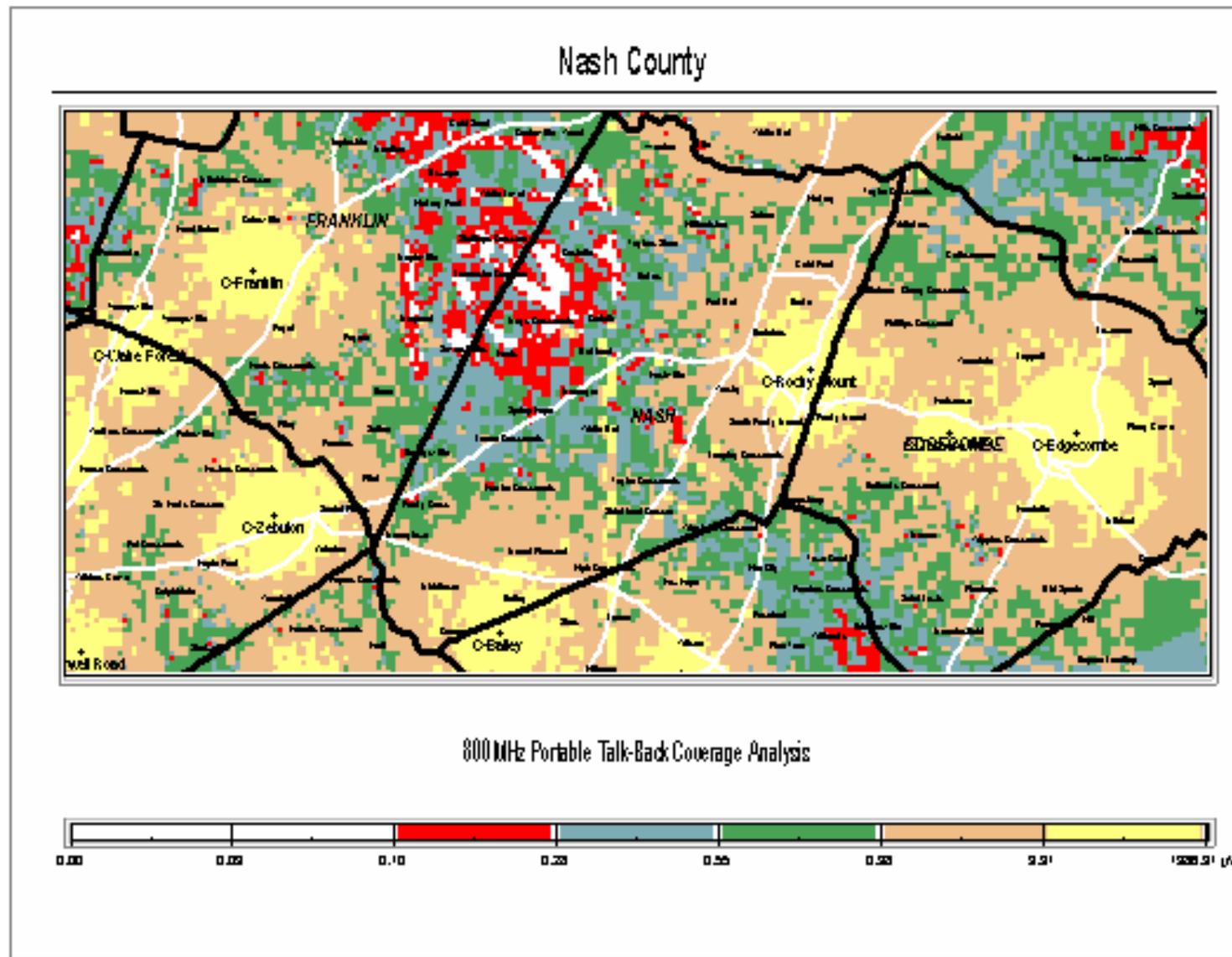


Voice Communications System

VIPER Strategic Estimates

NASH COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$70,000.00	\$20,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$250,000.00	\$5,000.00	\$5,000.00	\$100,000.00
				Grand Total
				\$1,382,000.0





Voice Communications System

VIPER Strategic Estimates

NEW HANOVER

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	82	FLEMINGTON			3.9				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$0.00	NO	\$0.00

Comments Reuse NEW HANOVER tower, study required, insufficient building space, no generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	83	SEA BREEZE			1.5		144	TELCO	855.4875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$0.00	NO	\$0.00

Comments Reuse NEW HANOVER tower, study required, insufficient building space, no generator needed.

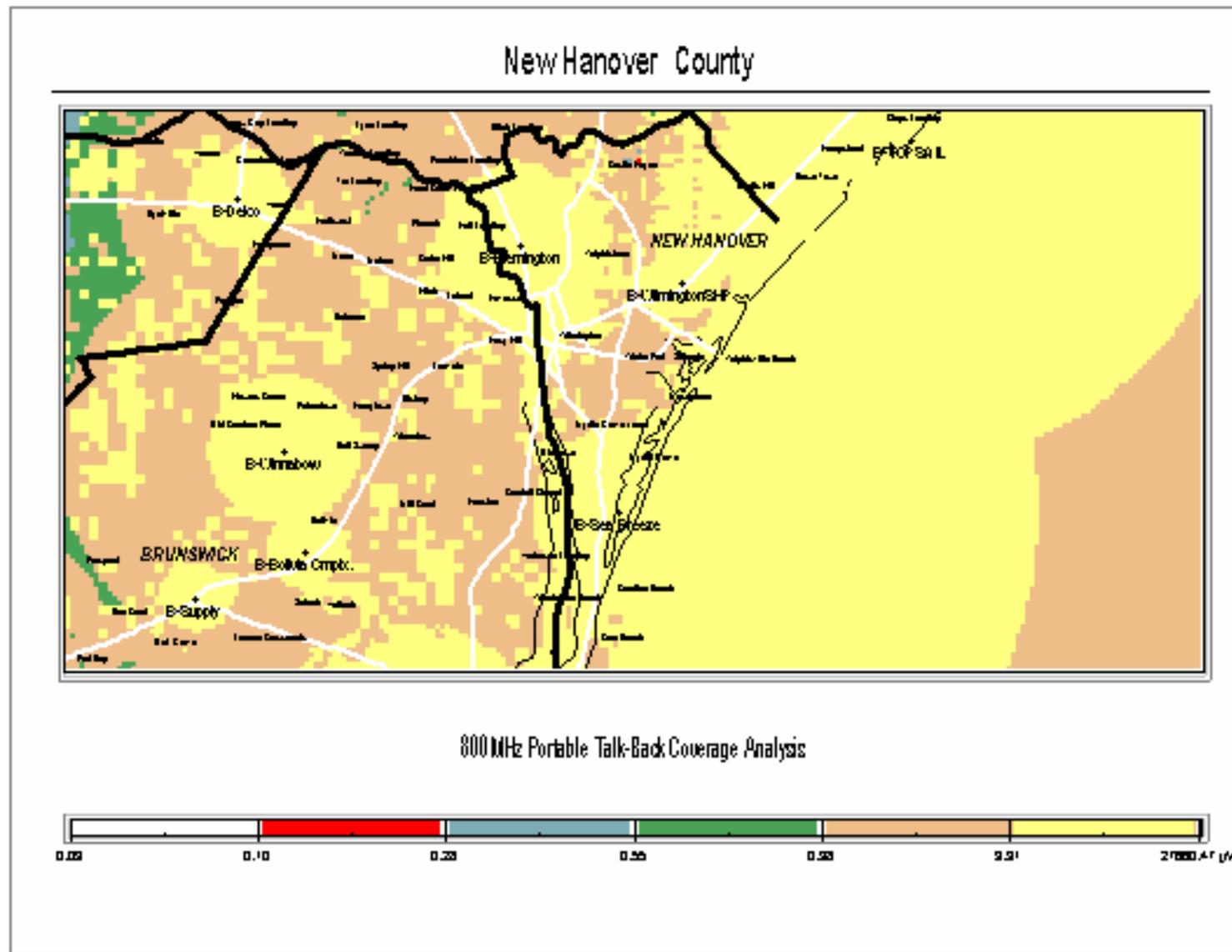


Voice Communications System

VIPER Strategic Estimates

NEW HANOVER COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$0.00	\$20,000.00	\$0.00	\$0.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$30,000.00	\$0.00	\$0.00	\$0.00	\$0.00
			Grand Total	\$50,000.00





Voice Communications System

VIPER Strategic Estimates

NORTHAMPTON

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	136	JACKSON			40		087	TELCO	860.7125

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	NEW	ROANOKE RAPIDS							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

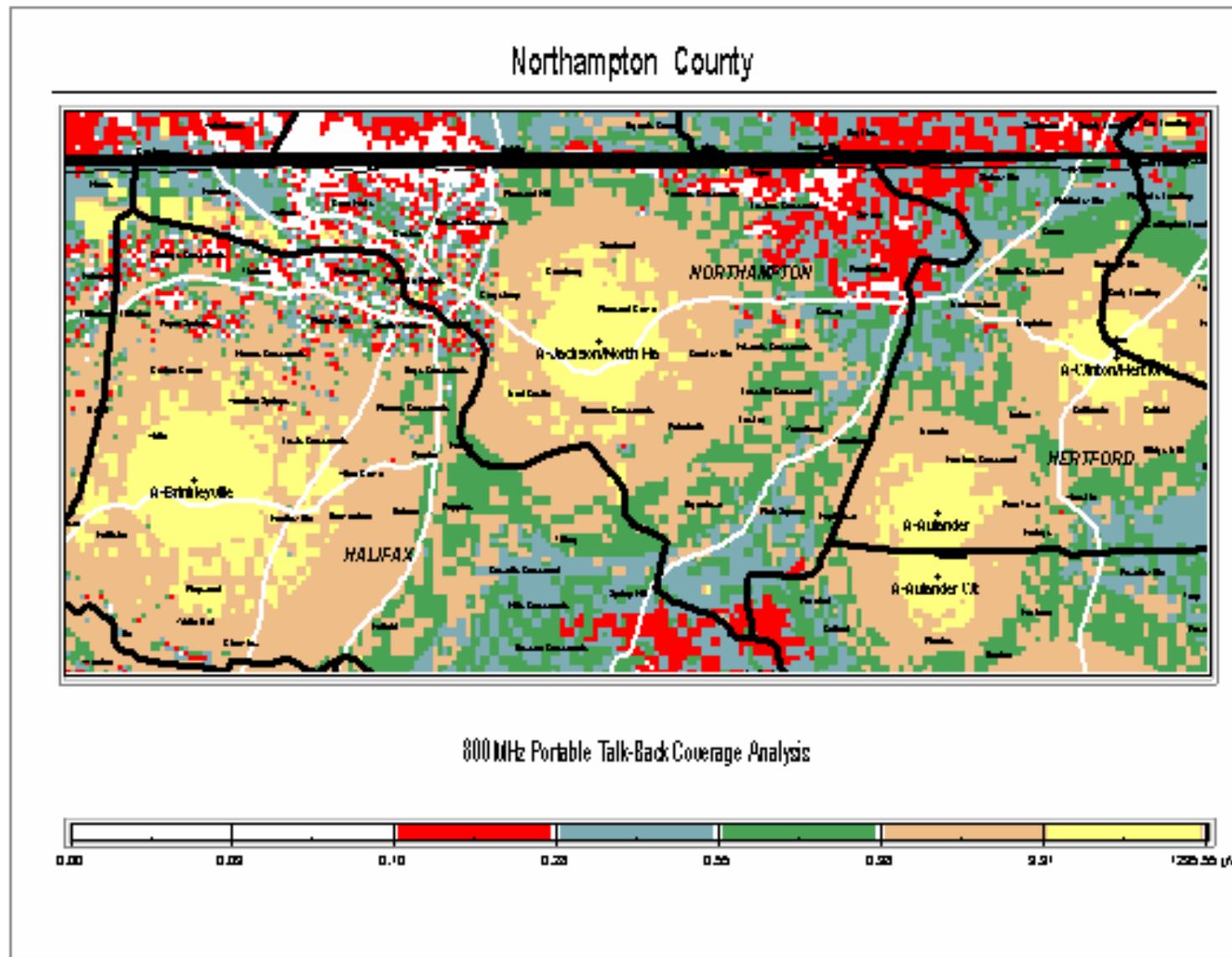


Voice Communications System

VIPER Strategic Estimates

NORTHAMPTON COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$27,000.00	\$20,000.00	\$0.00	\$370,000.00	\$50,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$0.00	\$500,000.00		\$0.00	\$105,000.00
				Grand Total
				\$1,652,000.0





Voice Communications System

VIPER Strategic Estimates

ON SLOW

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	32	JACKSONVILLE			13		013	TELCO	855.4875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$0.00

Comments Reuse SHP tower, study required, sufficient building space, no generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	182	HOLLY RIDGE EMC			15		146	TELCO	854.9875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$5,000.00

Comments Rebuild EMC tower, insufficient building space, generator required.



Voice Communications System

VIPER Strategic Estimates

ORANGE

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	16	HILLSBOROUGH			257		143	TELCO	866.9375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$100,000.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$0.00	No	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$0.00	Yes	\$5,000.00

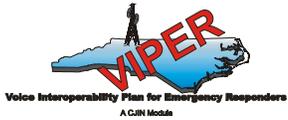
Comments Reuse SHP tower, study required, insufficient building space, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	NEW	UNC HOSPITAL - CH							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$30,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$15,000.00	\$0.00	NO	\$5,000.00

Comments Reuse existing hospital structure, equipment shelter/room required, provision for generator.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	NEW	CEDAR GROVE							

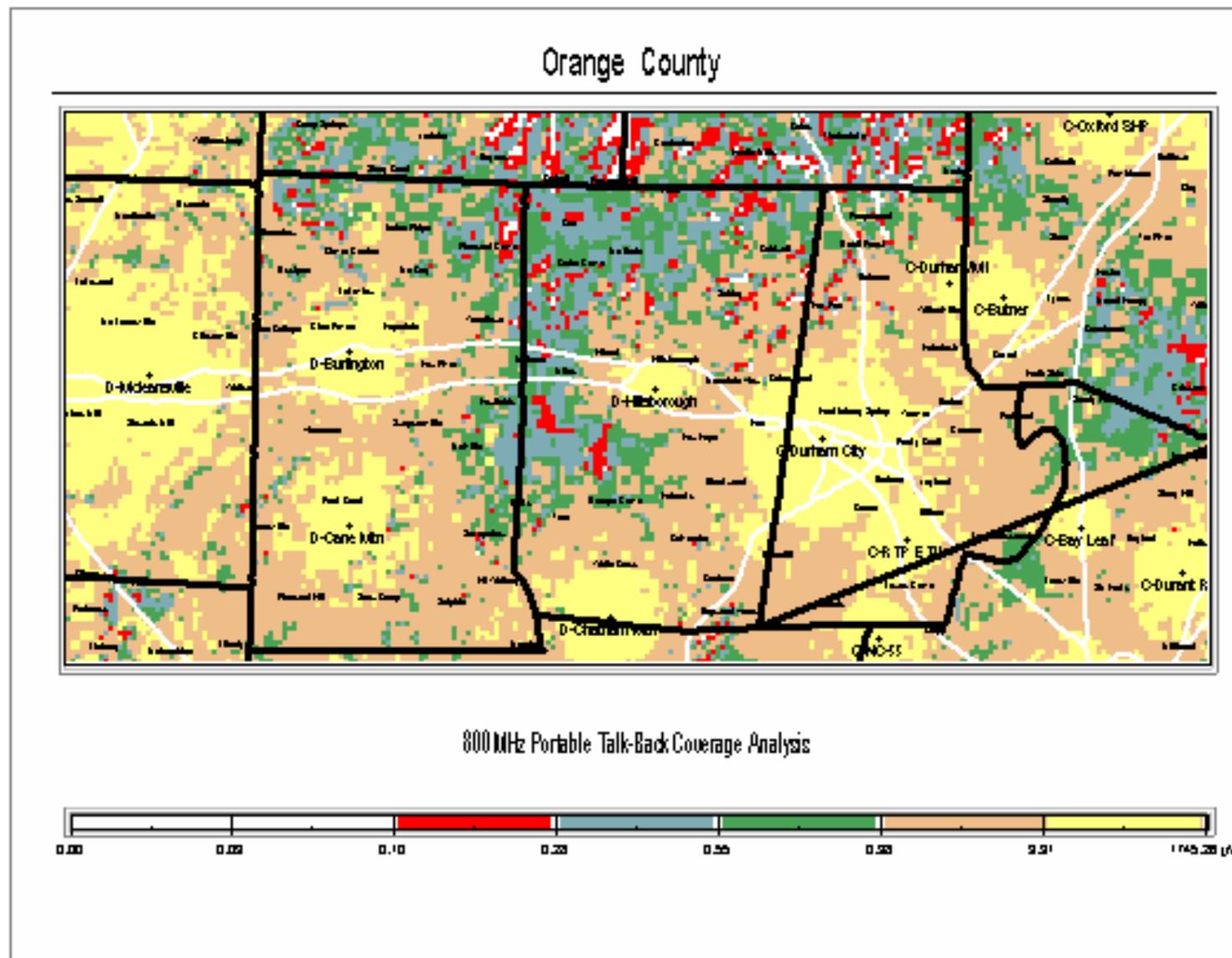
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.

ORANGE COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse	
\$600,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$0.00	
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New		
\$27,000.00	\$65,000.00	\$30,000.00	\$50,000.00		
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis	
\$15,000.00	\$250,000.00	\$15,000.00	\$0.00	\$15,000.00	
				Grand Total	\$1,532,000.0





Voice Communications System

VIPER Strategic Estimates

PAMLICO

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	137	BAYBORO			4		088	TELCO	857.4875

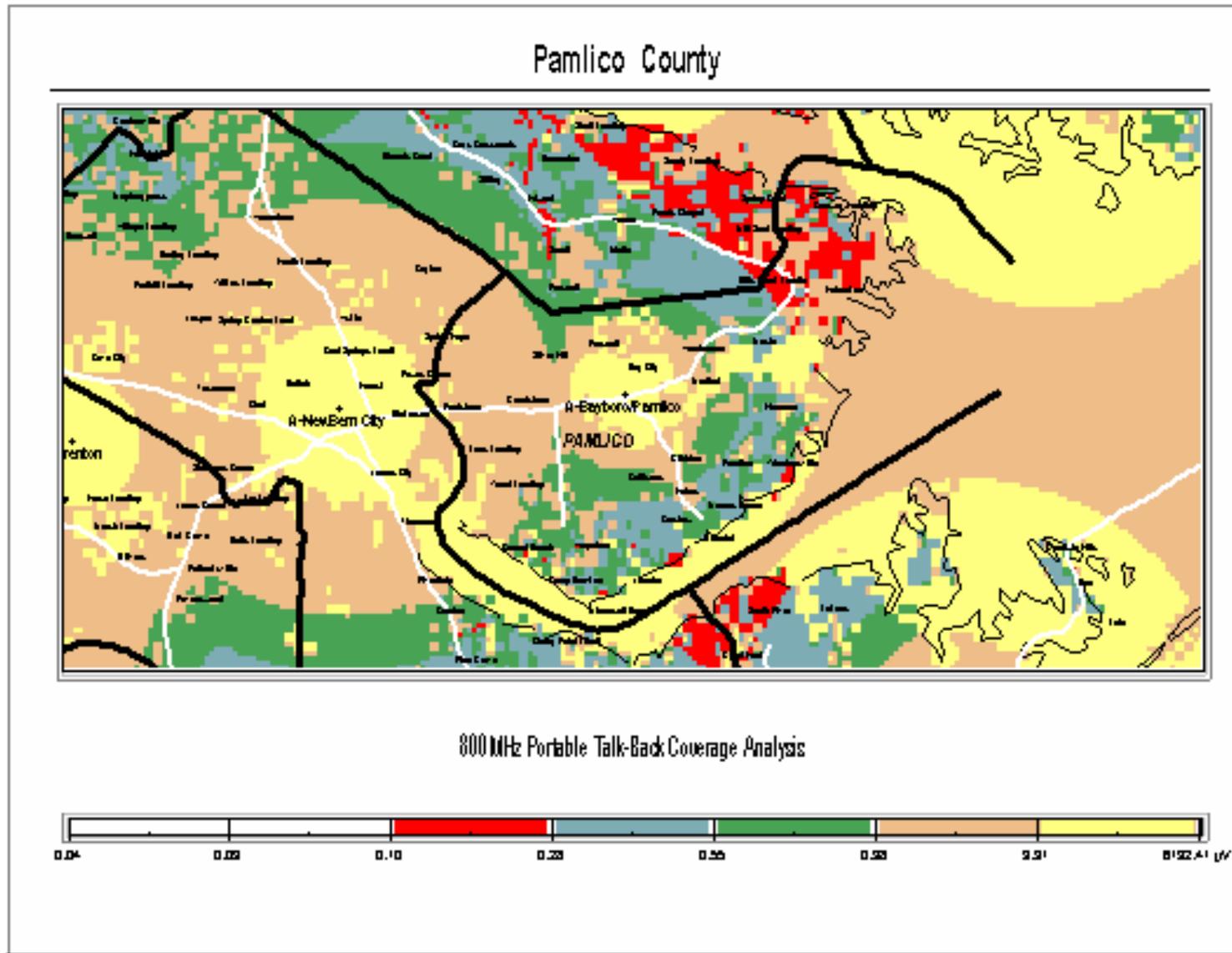
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.

PAMLICO COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$0.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	\$5,000.00
Grand Total				\$815,000.00





Voice Communications System

VIPER Strategic Estimates

PASQUOTANK

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	84	ELIZABETH CITY NAVY			2		050	TELCO	868.1

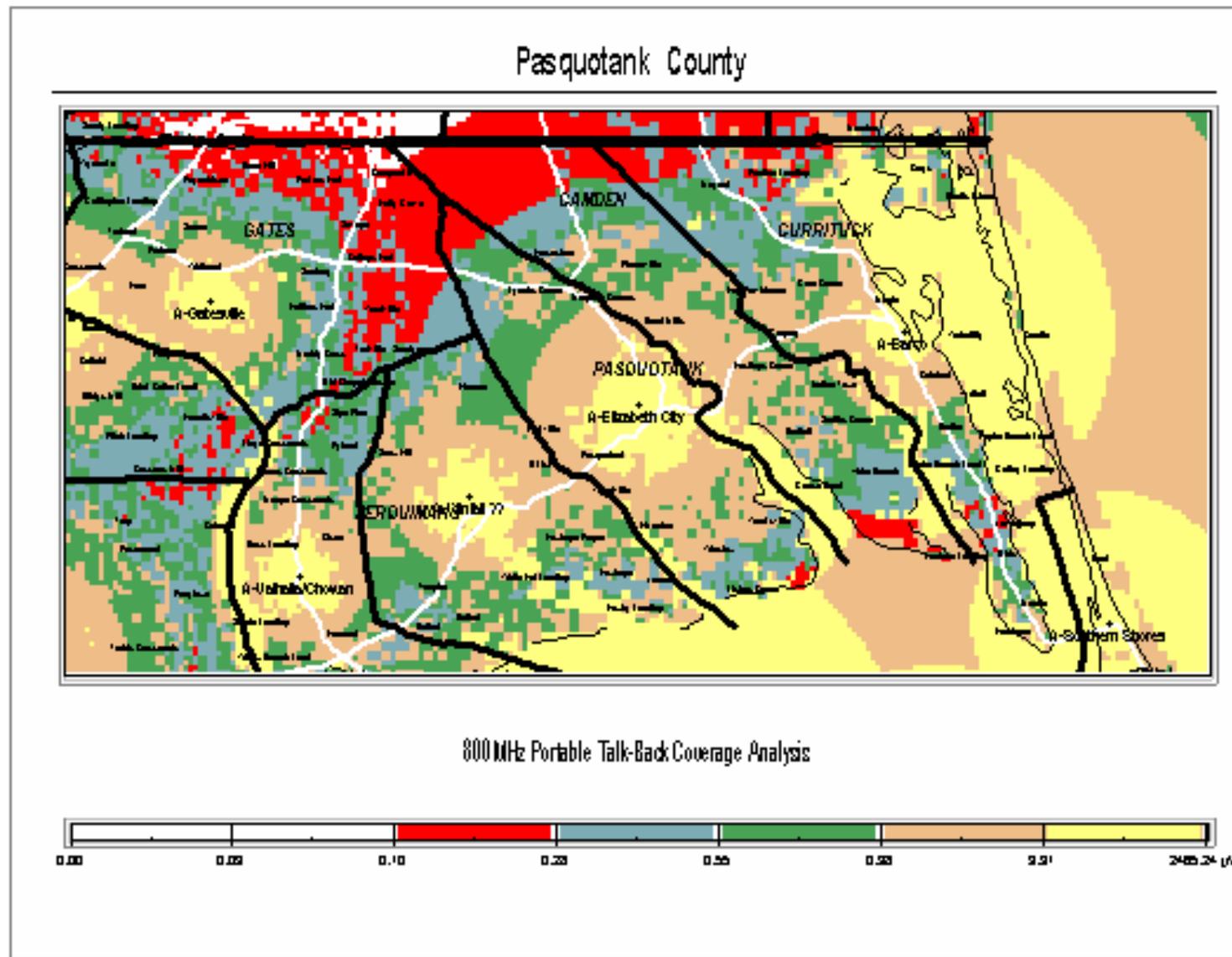
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$5,000.00

Comments Reuse NAVY tower, study required, sufficient building space with upfit, generator needed

PASQUOTANK COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$0.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	\$5,000.00
Grand Total				\$815,000.00





Voice Communications System

VIPER Strategic Estimates

PENDER

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	37	PENDERLEA			19		022	TELCO	855.4625

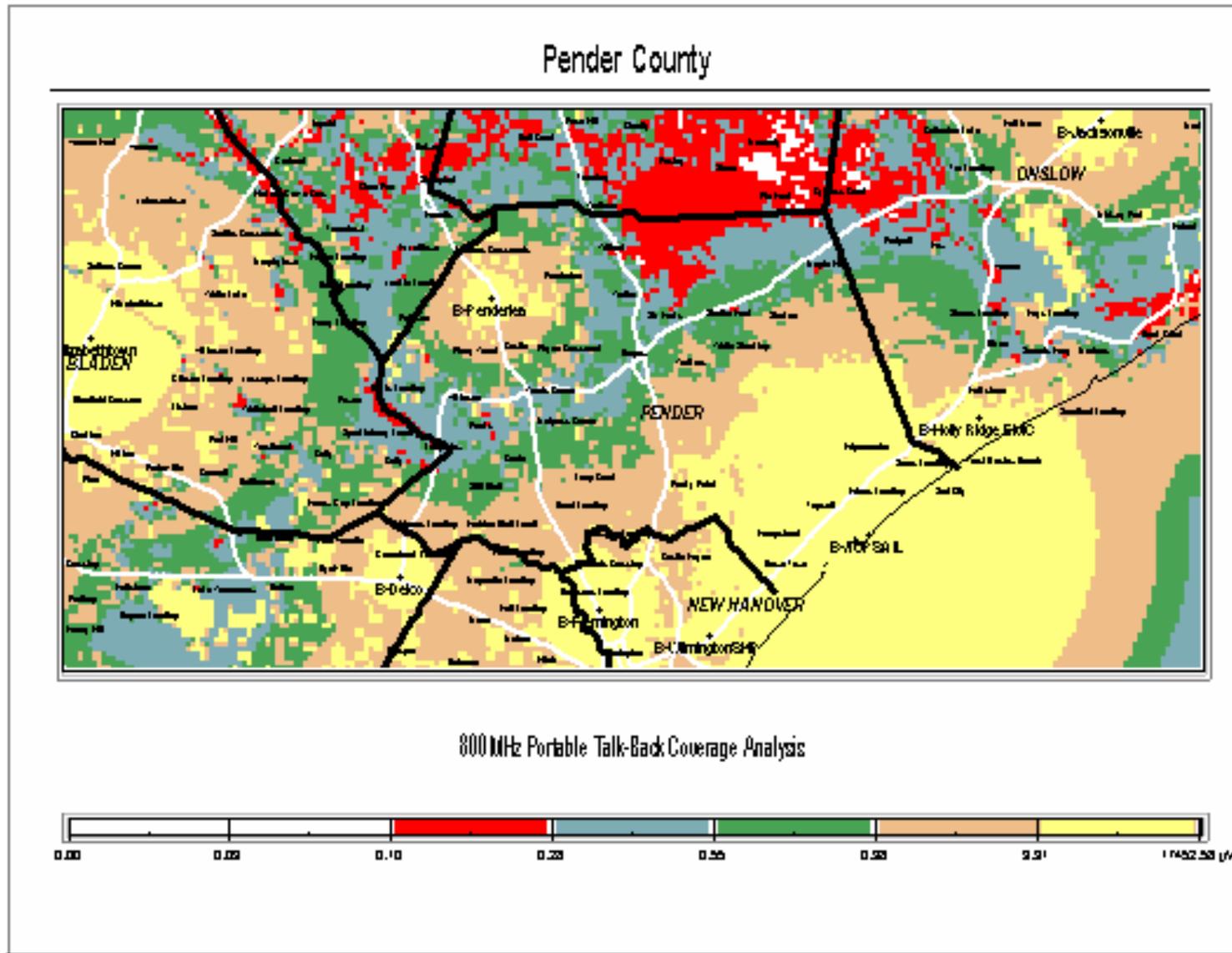
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$0.00

Comments Reuse SHP tower, study required, sufficient building space, no generator needed

PENDER COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	\$0.00
Grand Total				\$40,000.00





Voice Communications System

VIPER Strategic Estimates

PERQUIMANS

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	139	WINFALL			5		090	TELCO	868.1375

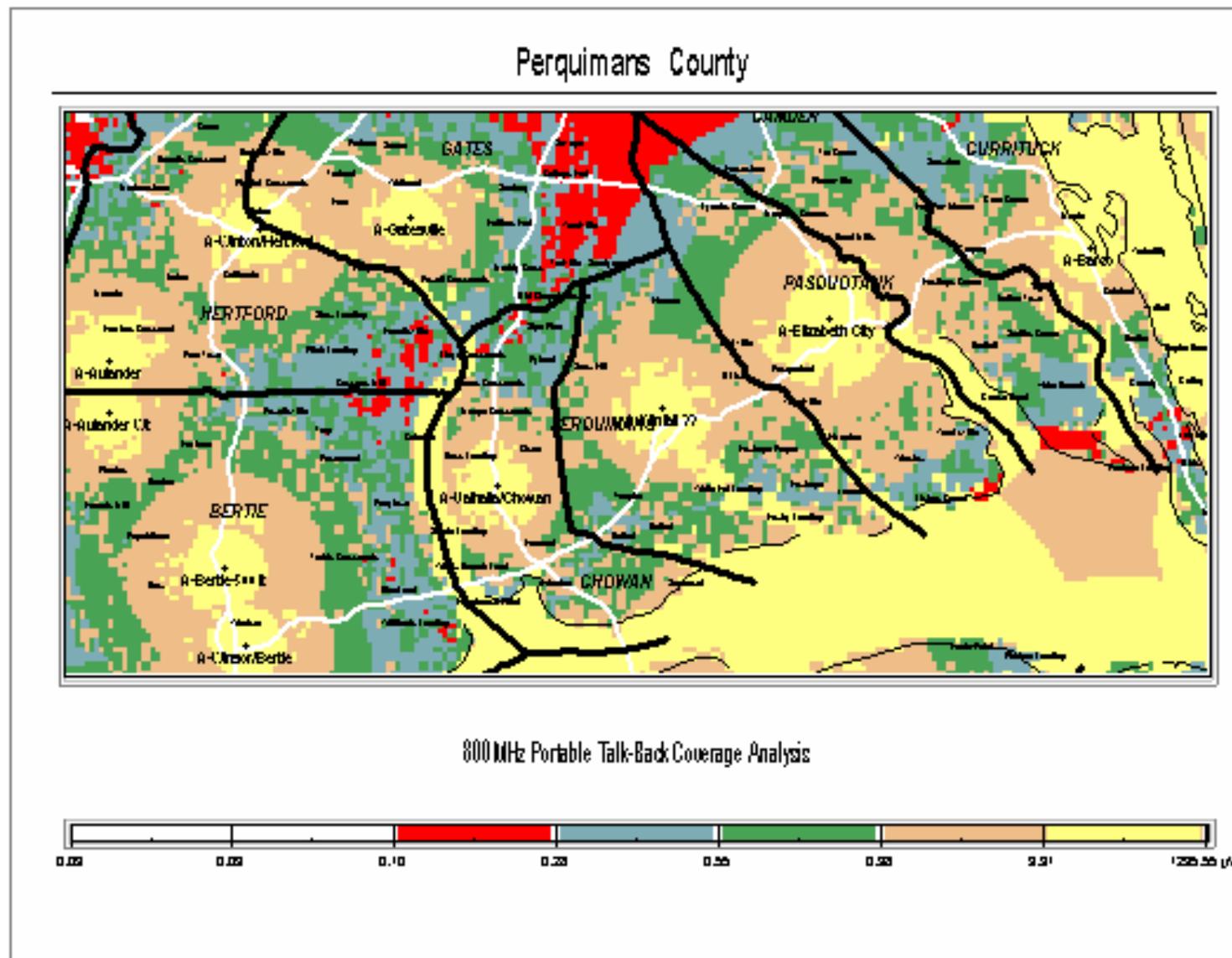
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.

PERQUIMANS COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$0.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	\$5,000.00
Grand Total				\$815,000.00





Voice Communications System

VIPER Strategic Estimates

PERSON

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	NEW	NORTHERN PERSON							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	140	ROXBORO			265		091	TELCO	858.2625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00		\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.



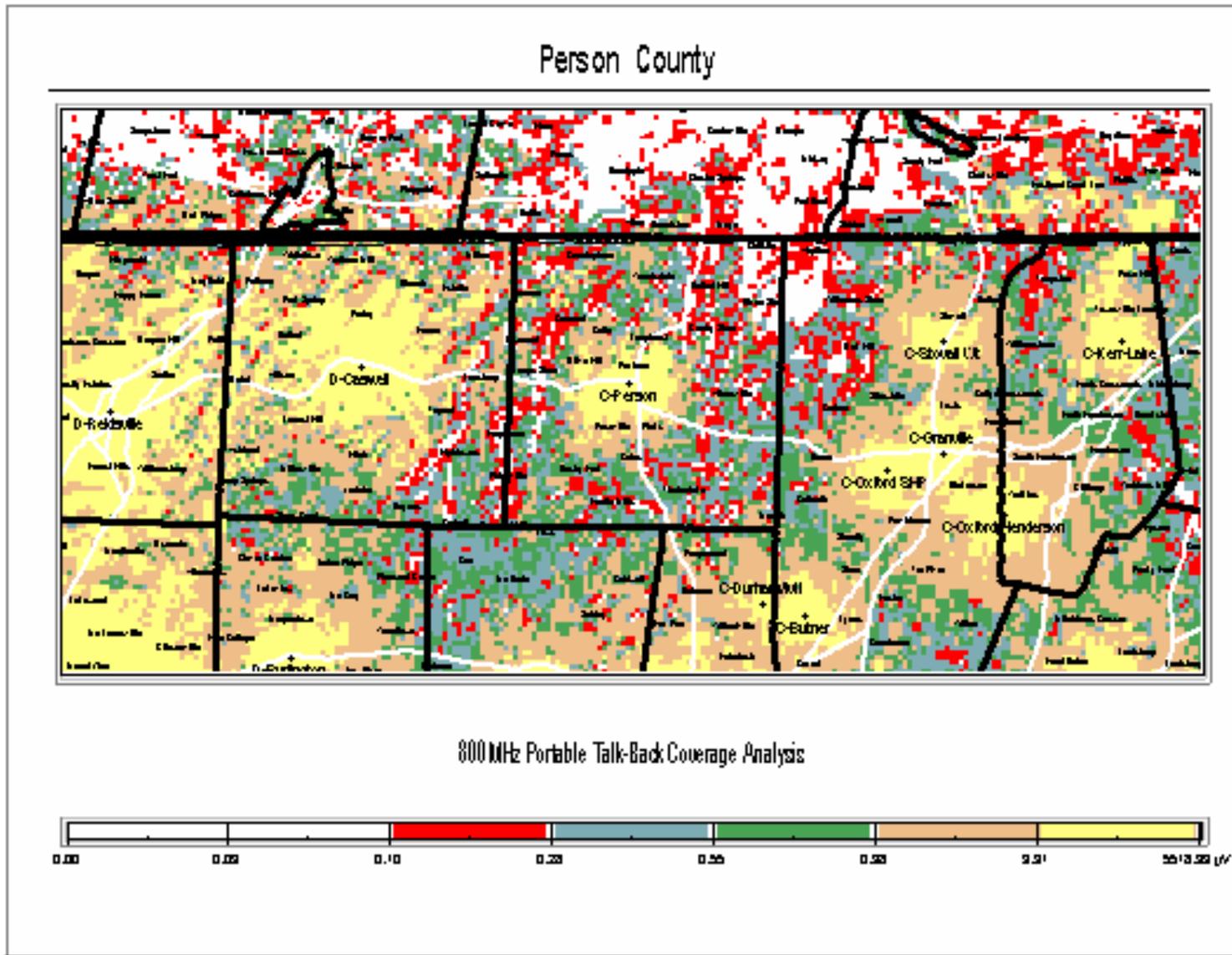
Voice Interoperability Plan for Emergency Responders
A CSN Module

Voice Communications System

VIPER Strategic Estimates

PERSON COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$54,000.00	\$70,000.00	\$20,000.00	\$50,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$500,000.00	\$0.00	\$0.00	\$105,000.00
				Grand Total
				\$1,674,000.0





Voice Communications System

VIPER Strategic Estimates

PITT

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	25	GREENVILLE TV					092	TELCO	854.9625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$10,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$5,000.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$0.00

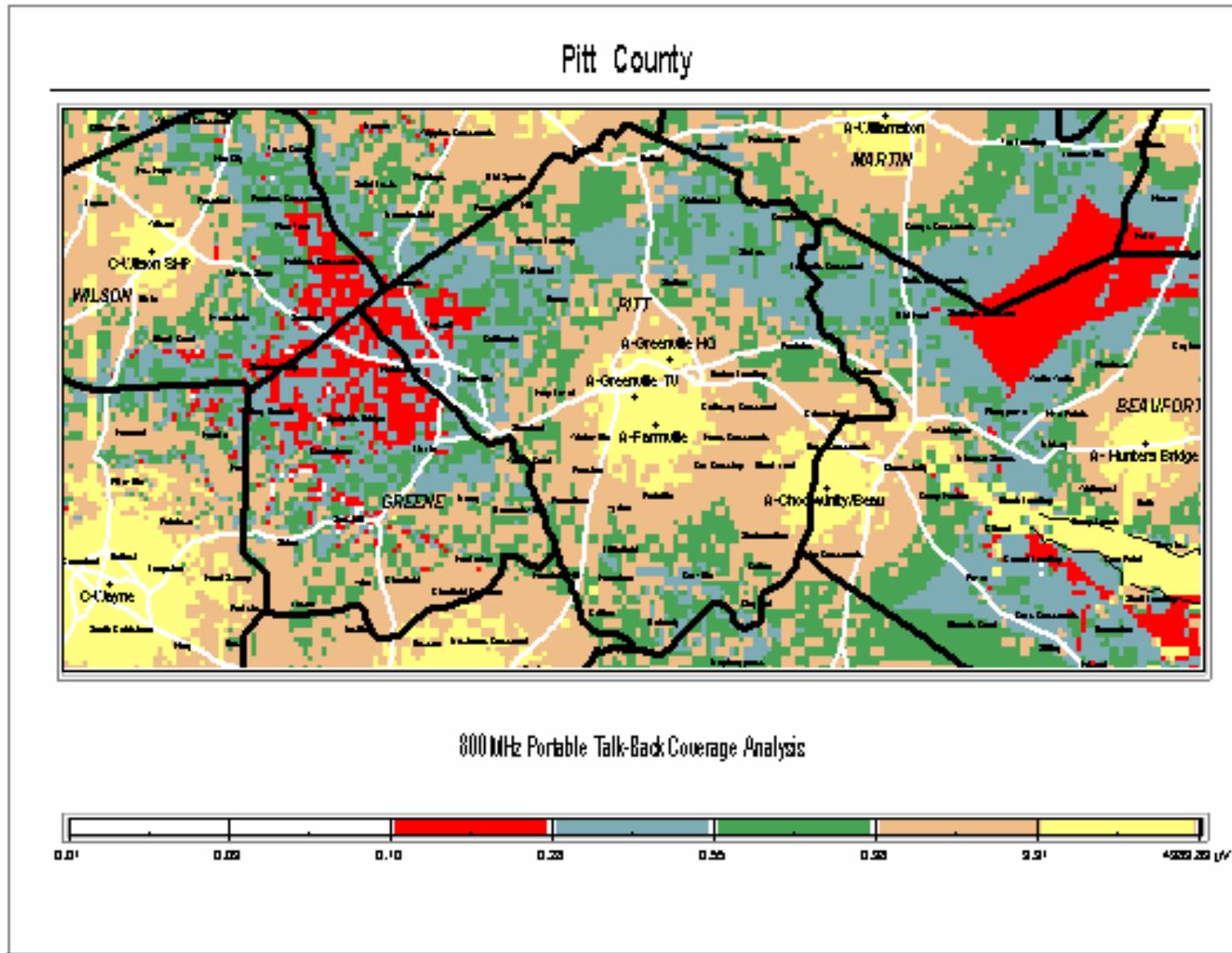
Comments Reuse SHP tower, study required, insufficient building space, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	22	FARMVILLE			24		025	M/W	854.4375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$10,000.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00

Comments Reuse SHP tower, no study required, sufficient building space, no generator needed





Voice Communications System

VIPER Strategic Estimates

POLK

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	102	TRYON PEAK			979		018	TELCO	855.9625

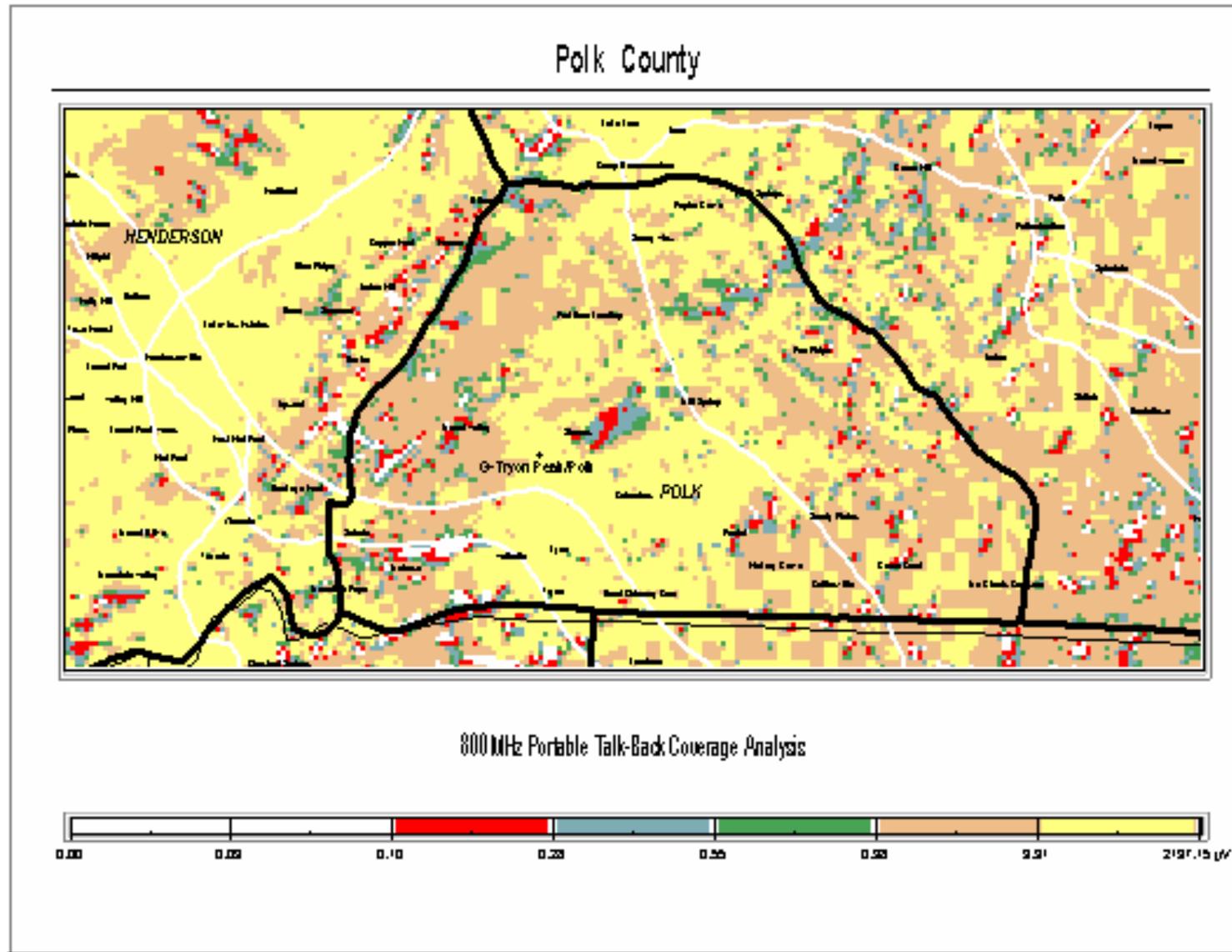
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$150,000.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Rebuild existing tower, study required, insufficient building space, generator needed.

POLK COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$150,000.00	\$0.00	\$0.00	\$5,000.00
Grand Total				\$737,000.00





Voice Communications System

VIPER Strategic Estimates

RANDOLPH

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	196	DAVES MOUNTAIN			318		164	TELCO	854.9875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$25,000.00	Yes	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	50	SHEPHERD MT			351		041	M/W	855.2375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	Yes	\$5,000.00

Comments Reuse SHP tower, study required, sufficient building space, no generator needed



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	NEW	SEAGROVE							

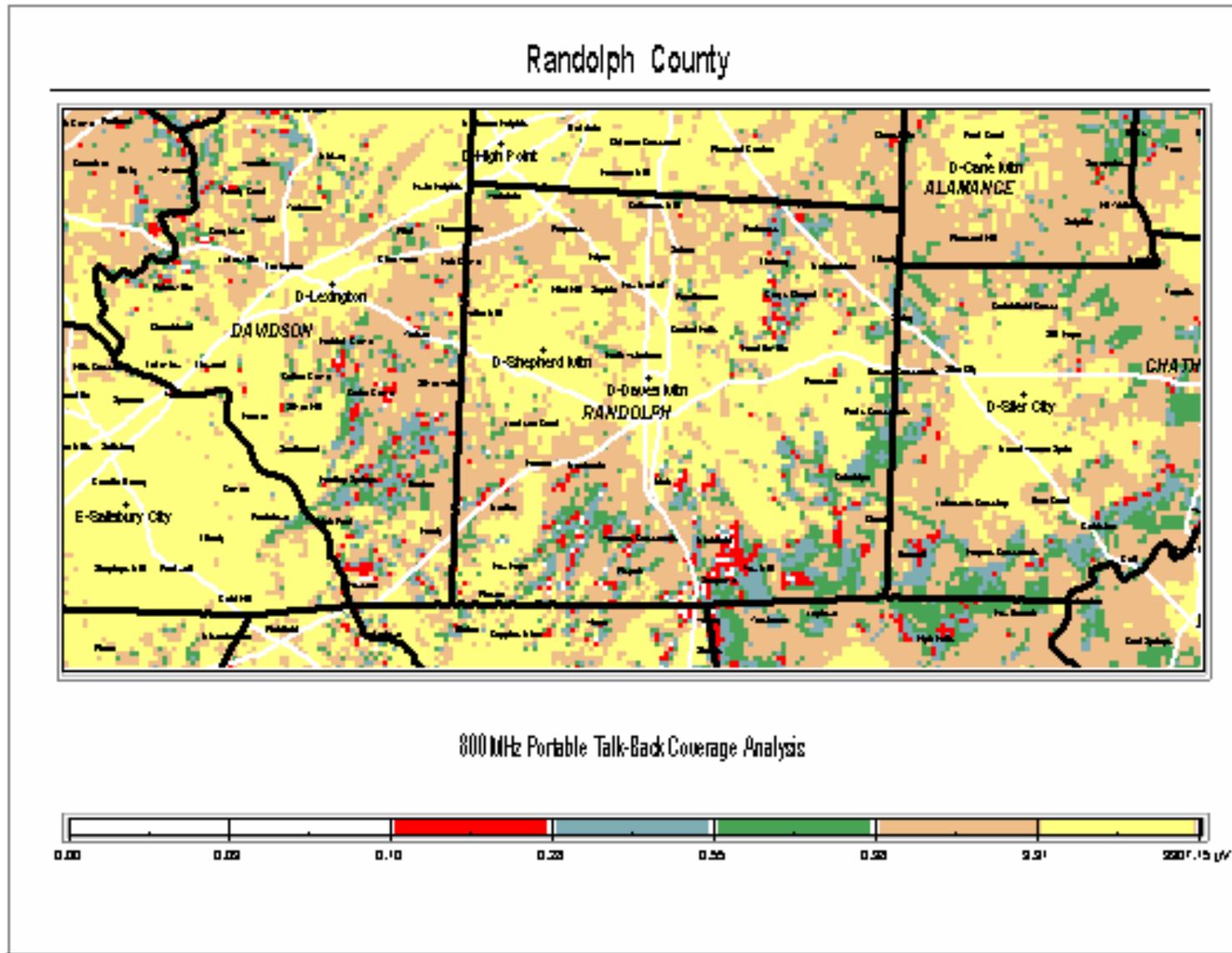
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

RANDOLPH COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse	
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$5,000.00	
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New		
\$54,000.00	\$70,000.00	\$30,000.00	\$50,000.00		
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis	
\$15,000.00	\$250,000.00	\$5,000.00	\$30,000.00	\$110,000.00	
				Grand Total	\$1,489,000.0





Voice Communications System

VIPER Strategic Estimates

RICHMOND

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	72	ELLERBE			168		093	TELCO	854.9875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$15,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	YES	\$5,000.00

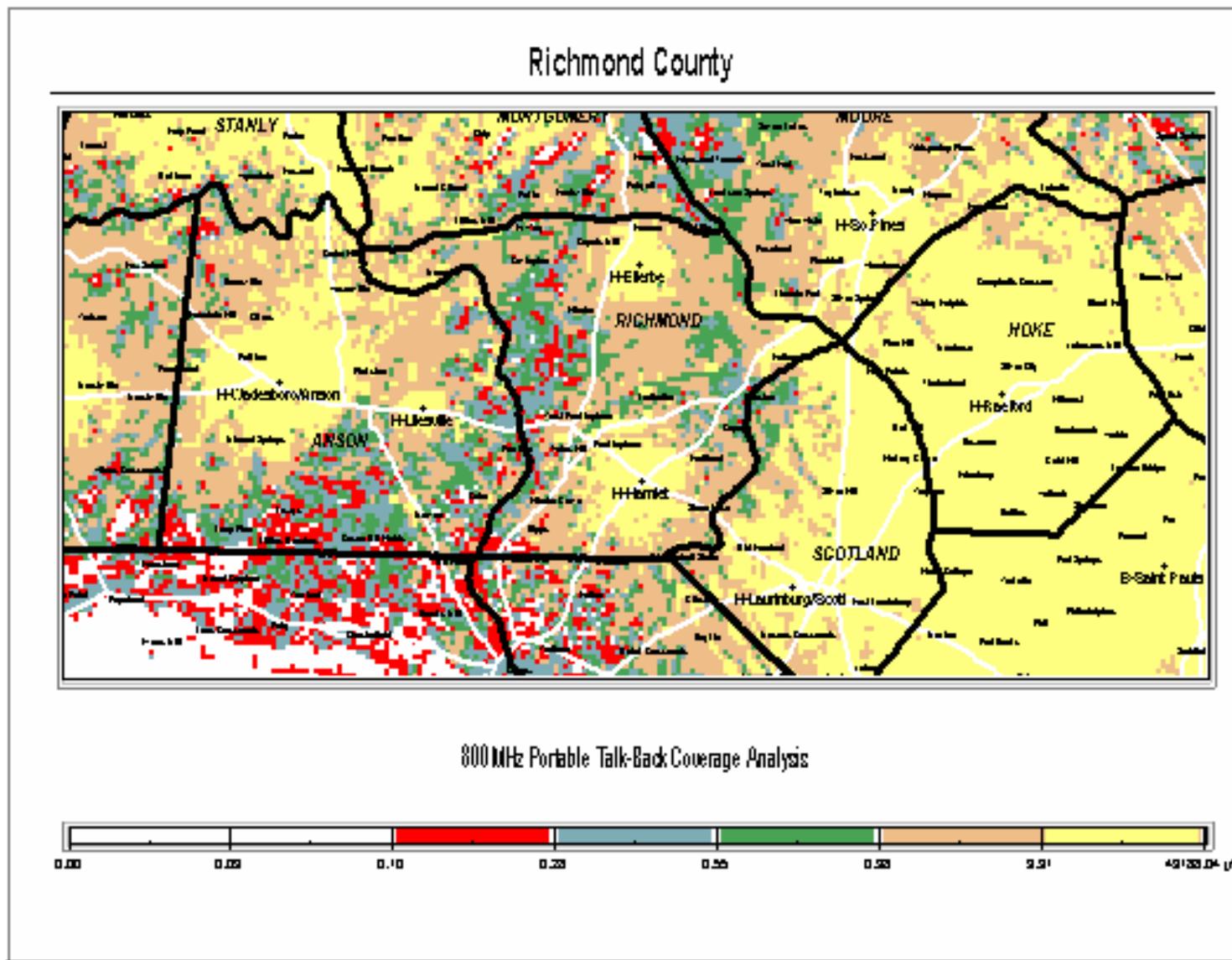
Comments Reuse SHP tower, study required, sufficient building space, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	NEW	RICHMOND - PE							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.





Voice Communications System

VIPER Strategic Estimates

ROBESON

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	42	SAINT PAULS			56		017	M/W	853.0125

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$0.00

Comments Reuse SHP tower, study required, sufficient building space, no generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	NEW	SOUTHERN ROBESON							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.



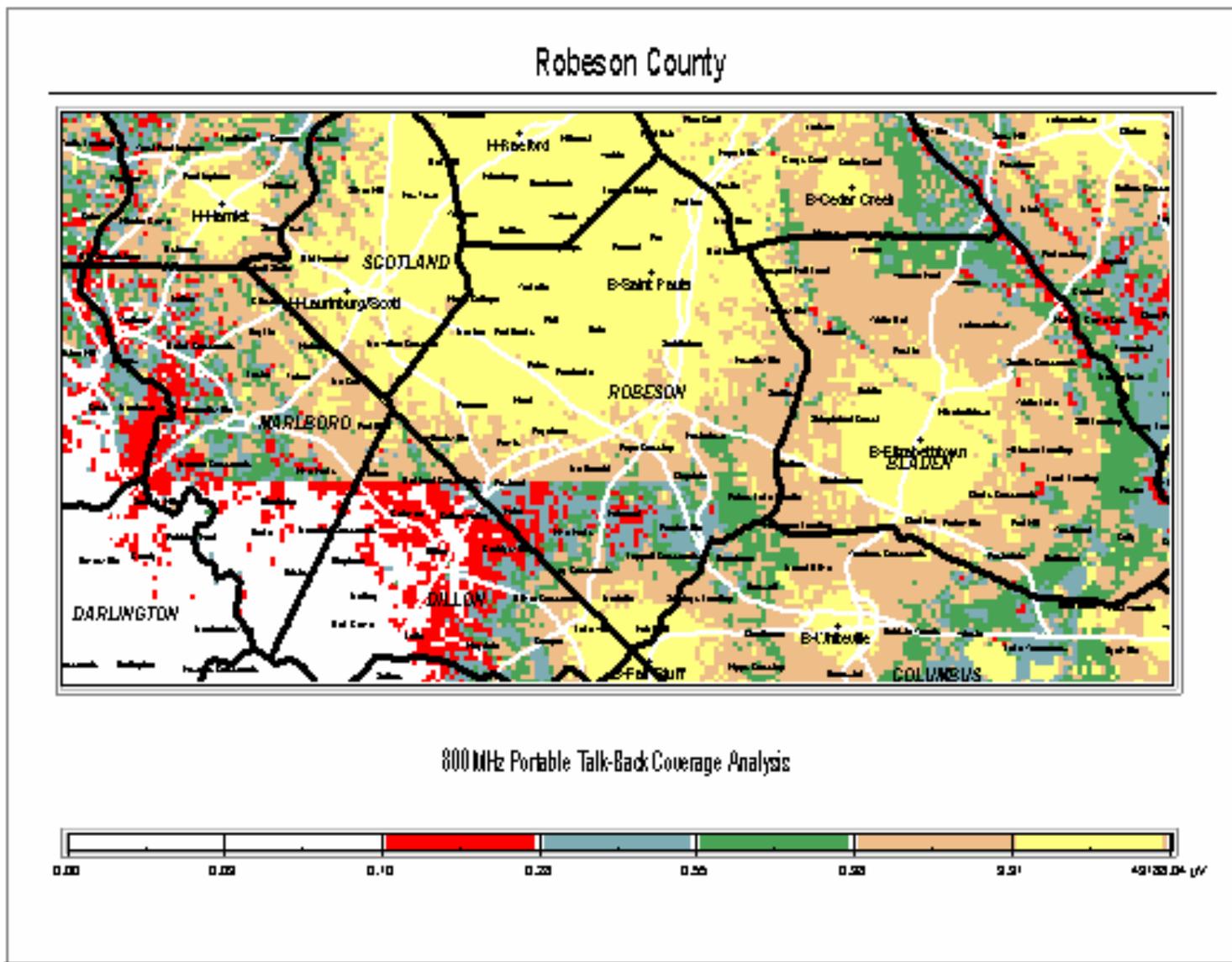
Voice Interoperability Plan for Emergency Responders
A CSN Module

Voice Communications System

VIPER Strategic Estimates

ROBESON COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$27,000.00	\$20,000.00	\$5,000.00	\$185,000.00	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$15,000.00	\$250,000.00		\$5,000.00	\$100,000.00
				Grand Total
				\$877,000.00





Voice Communications System

VIPER Strategic Estimates

ROCKINGHAM

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	NEW	EDEN (NEW)							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	NEW	WESTERN ROCKINGHAM							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
D	NEW	REIDSVILLE (NEW)							

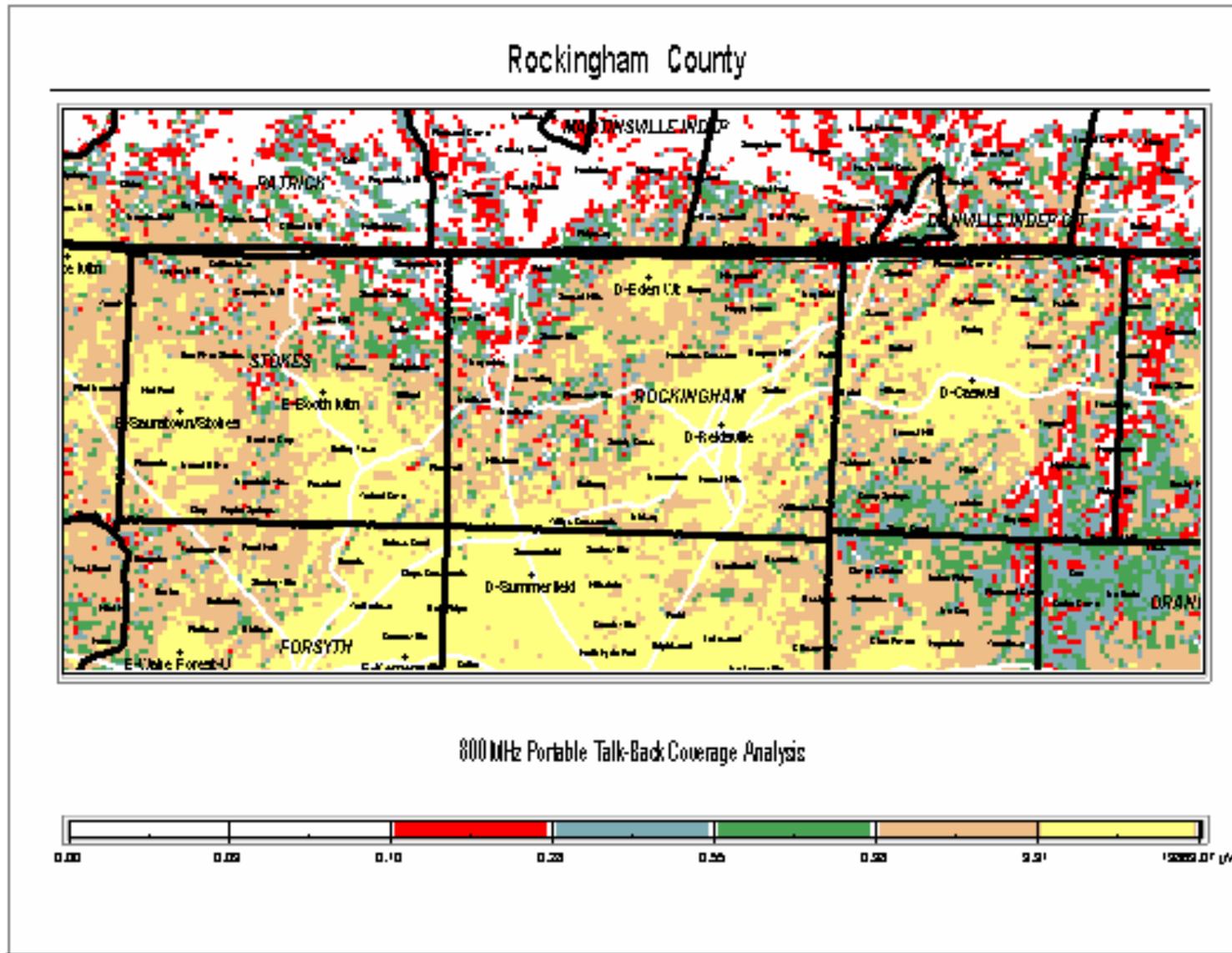
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

ROCKINGHAM COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$750,000.00	\$30,000.00	\$30,000.00	\$105,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$81,000.00	\$105,000.00	\$30,000.00	\$75,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$750,000.00	\$0.00	\$0.00	\$300,000.00
Grand Total				\$2,511,000.0





Voice Communications System

VIPER Strategic Estimates

ROWAN

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	53	SALISBURY			233				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	52	FAITH			296				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$0.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	Yes	\$5,000.00

Comments Reuse SHP tower, study required, insufficient building space, generator needed



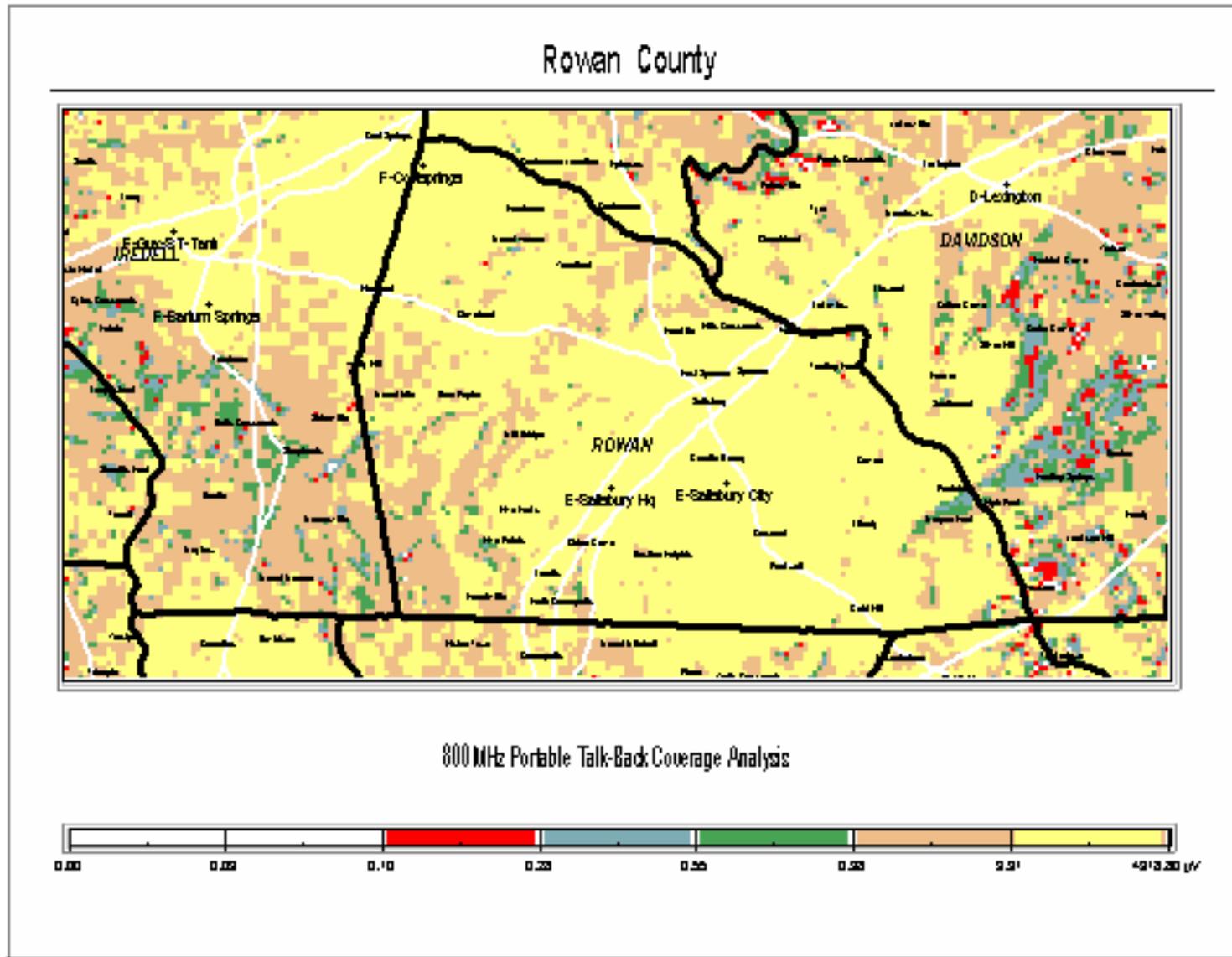
Voice Interoperability Plan for Emergency Responders
A CSN Module

Voice Communications System

VIPER Strategic Estimates

ROWAN COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$54,000.00	\$20,000.00	\$5,000.00	\$185,000.00	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$15,000.00	\$0.00		\$10,000.00	\$10,000.00
				Grand Total
				\$654,000.00





Voice Communications System

VIPER Strategic Estimates

RUTHERFORD

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	194	APPLE VALLEY LK LURE			442		162	TELCO	859.4375

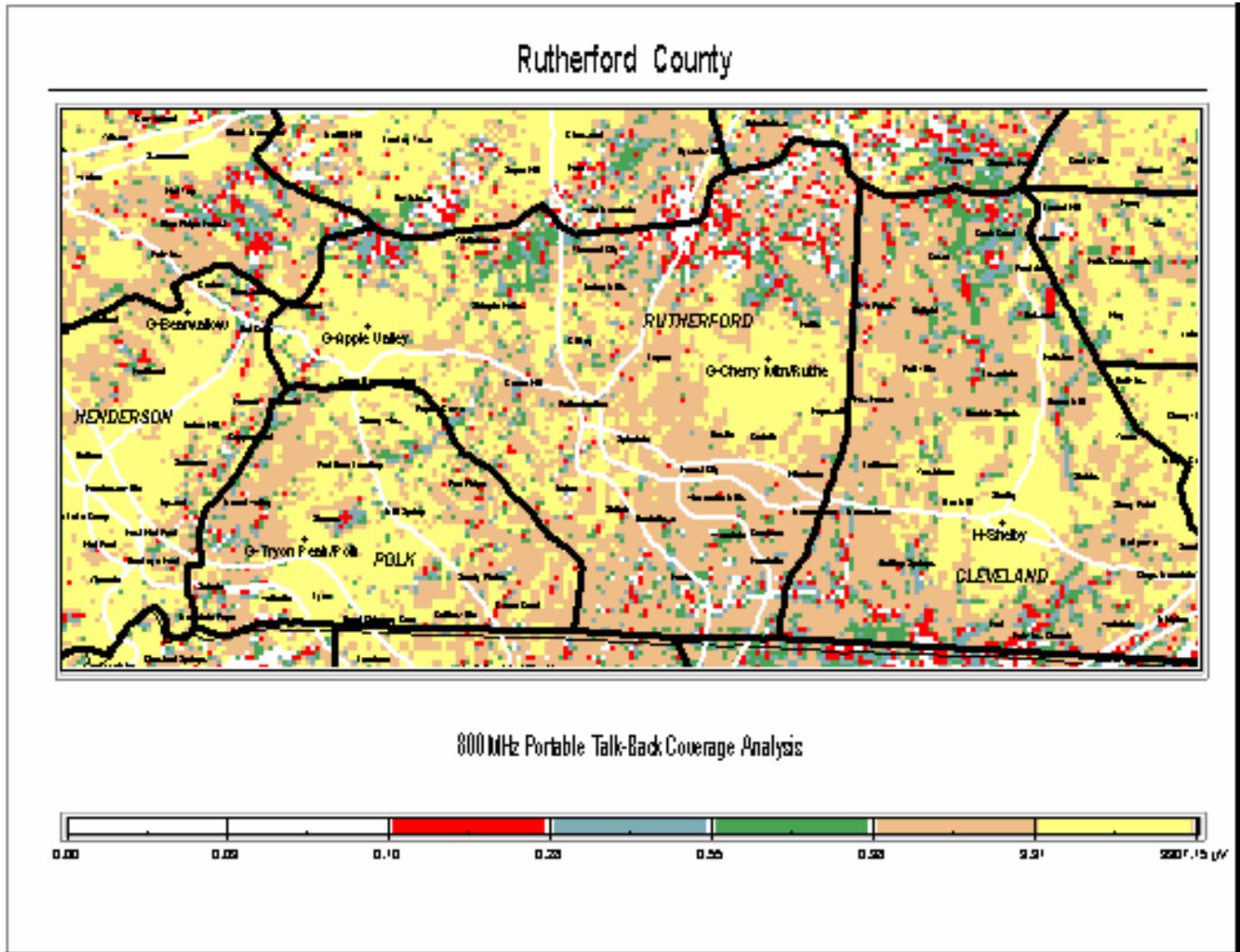
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$150,000.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Rebuild existing tower, study required, insufficient building space, generator needed.

RUTHERFORD COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$150,000.00	\$0.00	\$0.00	\$5,000.00
Grand Total				\$737,000.00





Voice Communications System

VIPER Strategic Estimates

SAMPSON

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	46	NEWTON GROVE			57				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$75,000.00	\$5,000.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$5,000.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00

Comments Reuse SHP tower, add channels, sufficient building space, no generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	79	CLINTON			43		030	TELCO	855.4875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Rebuild SHP tower, insufficient building space, generator needed



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	NEW	ROSEBORO							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

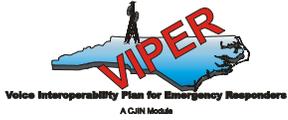
Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
B	NEW	TAYLORS BRIDGE							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$0.00	NO	\$0.00

Comments Use SAMPSON new tower, sufficient building space, no generator needed

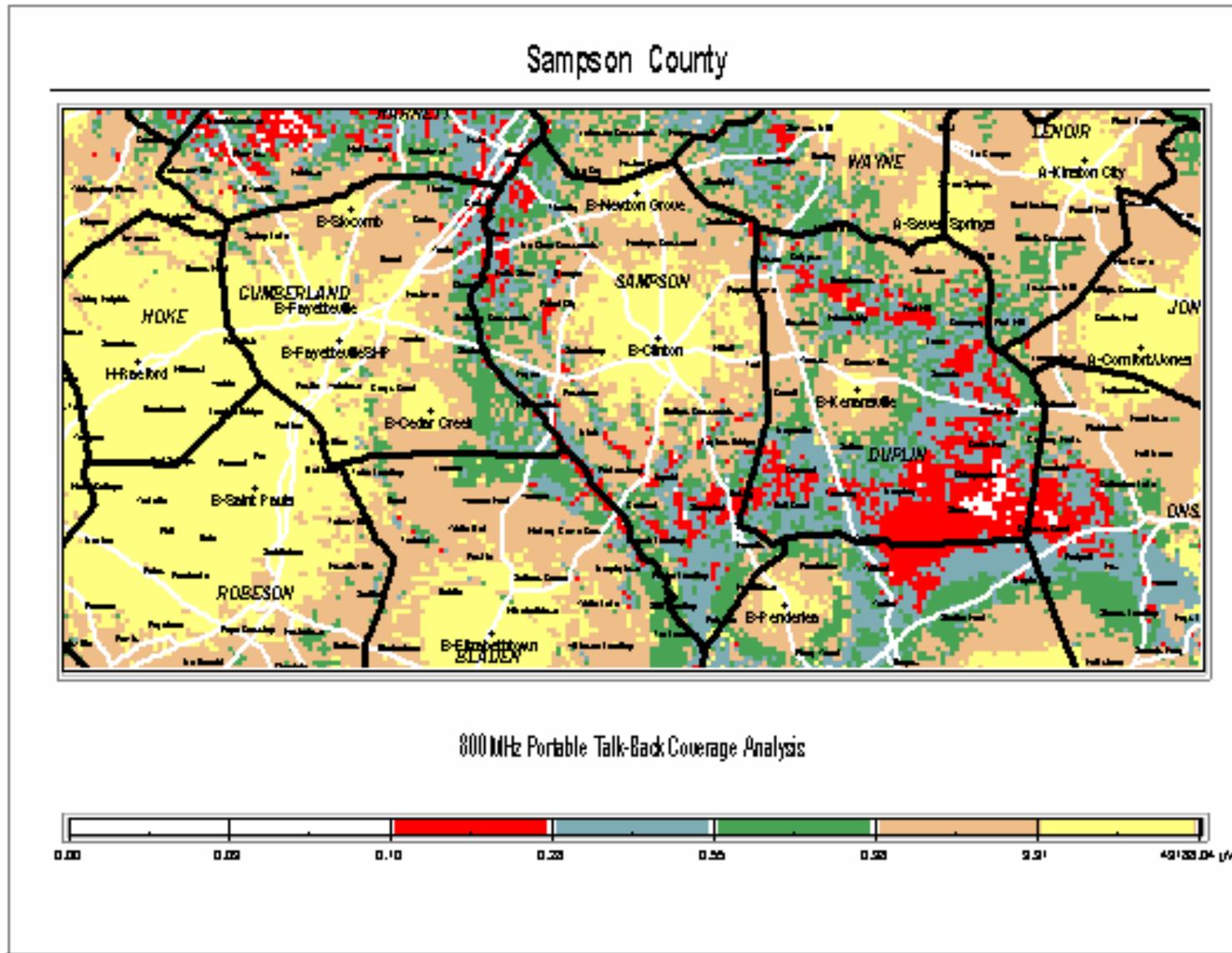


Voice Communications System

VIPER Strategic Estimates

SAMPSON COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$825,000.00	\$35,000.00	\$30,000.00	\$105,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$54,000.00	\$40,000.00	\$0.00	\$555,000.00	\$50,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$20,000.00	\$500,000.00		\$0.00	\$105,000.00
				Grand Total
				\$2,319,000.0





Voice Communications System

VIPER Strategic Estimates

SCOTLAND

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	NEW	LAURINBURG - PE							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

SCOTLAND COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00
Grand Total				\$592,000.00



Voice Communications System

VIPER Strategic Estimates

STANLY

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	142	ALBEMARLE			207		096	TELCO	868.1

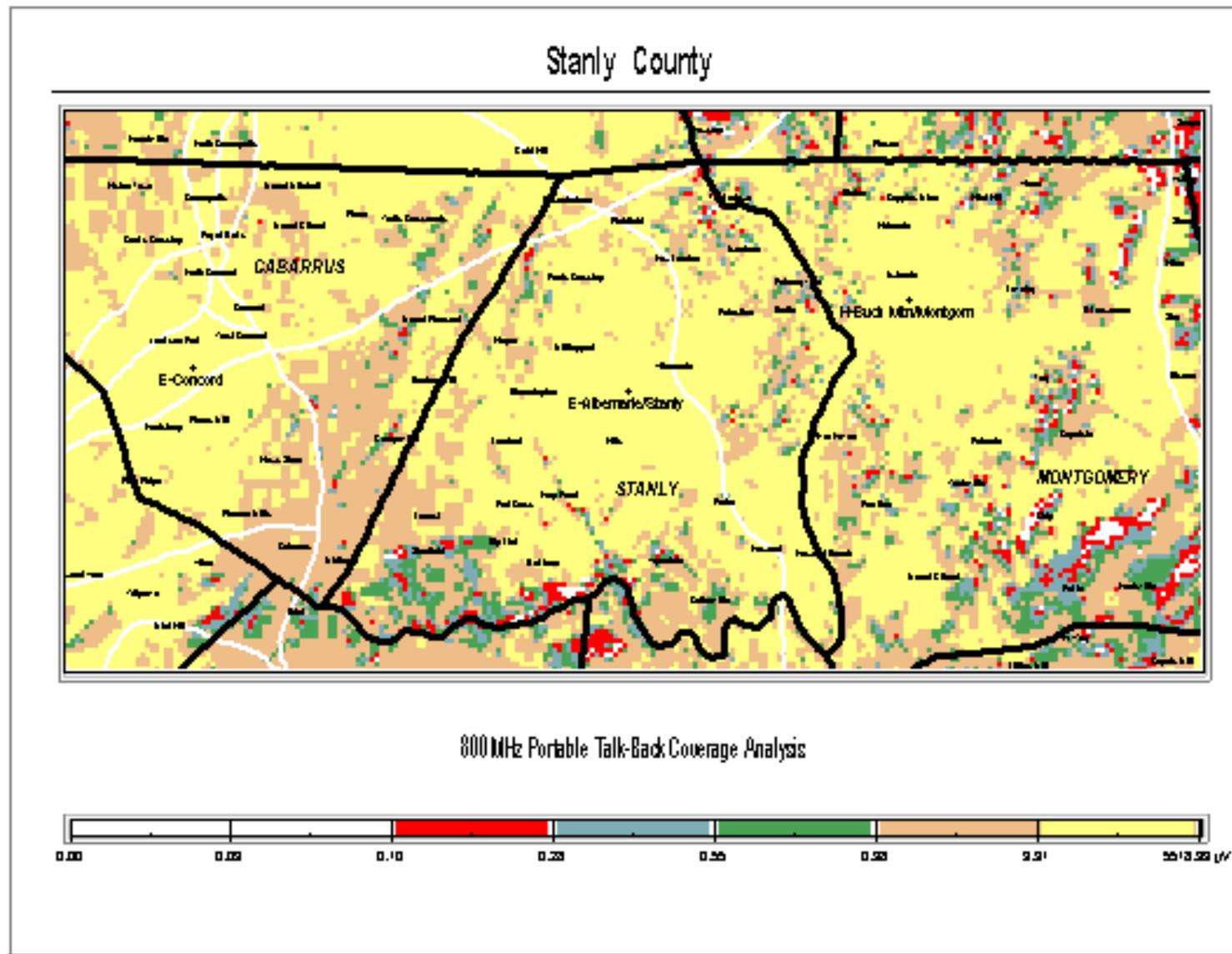
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$25,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

STANLY COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$0.00	\$0.00	\$25,000.00	\$5,000.00
Grand Total				\$612,000.00





Voice Communications System

VIPER Strategic Estimates

STOKES

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	NEW	NORTHEASTERN STOKES							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	193	BOOTH MOUNTAIN			341		161	TELCO	858.9875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	51	SAURATOWN			725		032	M/W	860.9875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$15,000.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	Yes	\$5,000.00

Comments Reuse SHP tower, study required, sufficient building space, no generator needed

STOKES COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$750,000.00	\$30,000.00	\$30,000.00	\$105,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$54,000.00	\$85,000.00	\$30,000.00	\$370,000.00	\$50,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$15,000.00	\$250,000.00	\$5,000.00	\$10,000.00	\$110,000.00
Grand Total				\$1,789,000.0



Voice Communications System

VIPER Strategic Estimates

SURRY

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	NEW	ELKIN							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

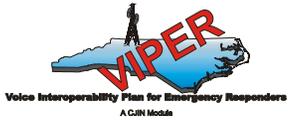
Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	177	FISHERS PEAK			1033		139	TELCO	855.4875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$5,000.00	\$25,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	115	TURNER MOUNTAIN			590		048	M/W	859.9875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	191	SLATE MOUNTAIN			532		159	TELCO	858.9875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

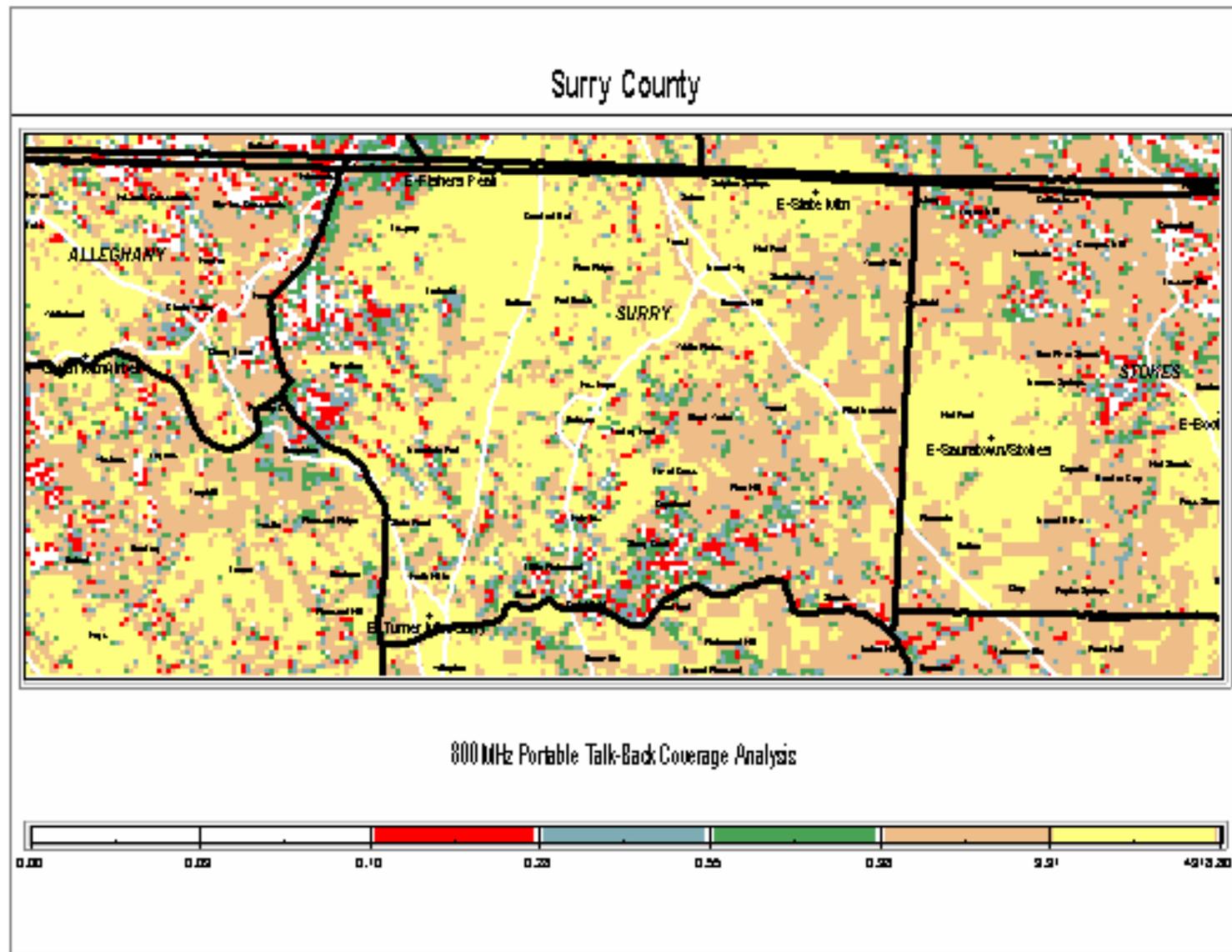


Voice Communications System

VIPER Strategic Estimates

SURRY COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$1,000,000.00	\$40,000.00	\$40,000.00	\$140,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$108,000.00	\$40,000.00	\$5,000.00	\$740,000.00	\$100,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$0.00	\$250,000.00		\$35,000.00	\$115,000.00
				Grand Total
				\$2,638,000.0





Voice Communications System

VIPER Strategic Estimates

SWAIN									
Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	SOUTHWESTERN SWAIN							

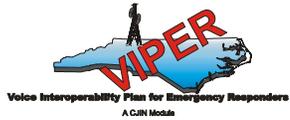
Costs									
Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse				
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00				
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator					
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00				
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis				
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00				

Comments Construct new tower on to be purchased land, building and generator needed.

NORTHWESTERN SWAIN									
Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	NORTHWESTERN SWAIN							

Costs									
Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse				
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00				
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator					
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00				
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis				
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00				

Comments Construct new tower on to be purchased land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	154	FREY MOUNTAIN			1370		114	TELCO	856.7375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$10,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Rebuild existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	155	BARNETTS KNOB			1422		115	TELCO	857.4875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Rebuild existing tower, study required, insufficient building space, generator needed.



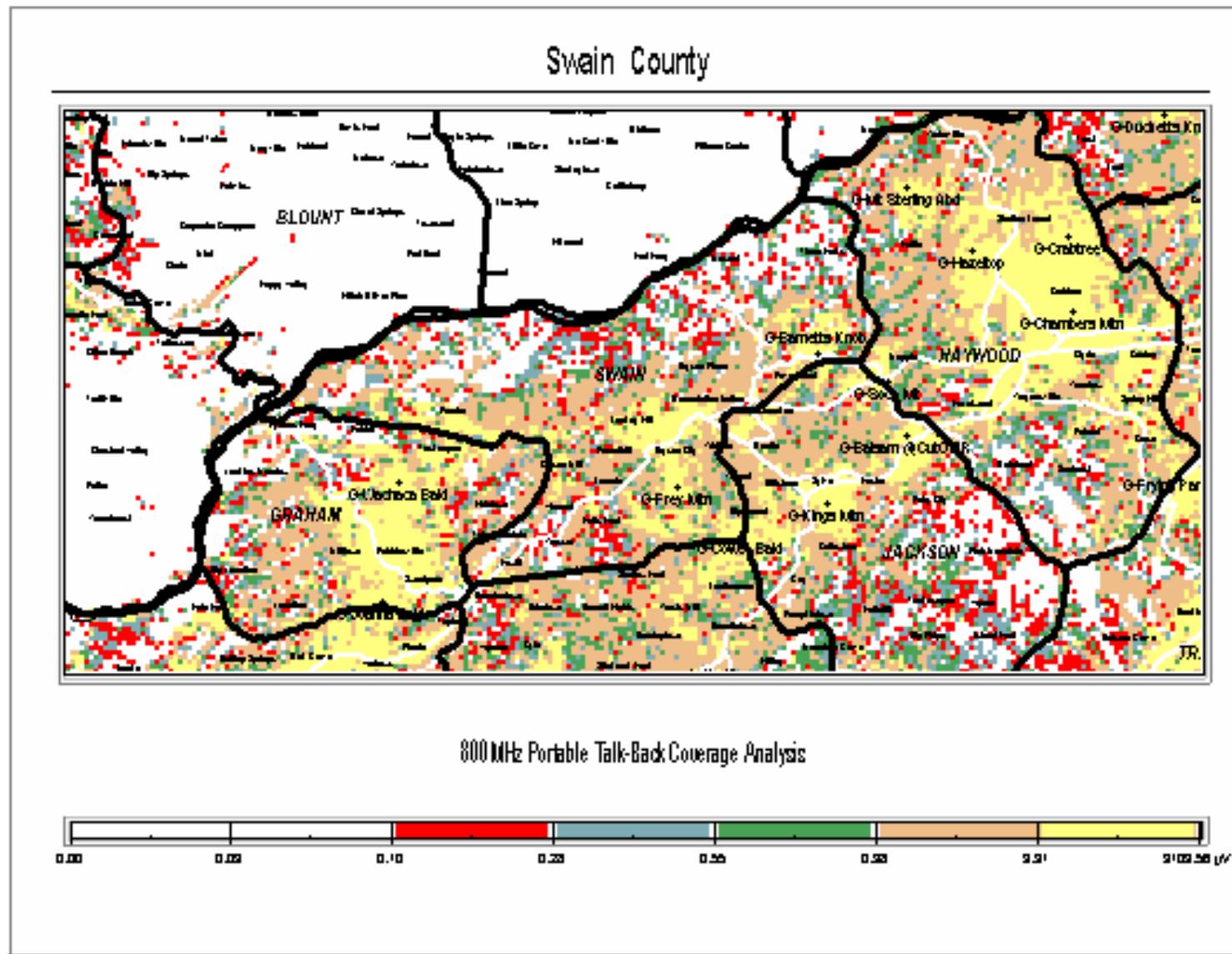
Voice Interoperability Plan for Emergency Responders
A CSN Model

Voice Communications System

VIPER Strategic Estimates

SWAIN COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$1,000,000.00	\$40,000.00	\$40,000.00	\$140,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$108,000.00	\$40,000.00	\$0.00	\$740,000.00	\$100,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$0.00	\$1,200,000.00		\$0.00	\$210,000.00
				Grand Total
				\$3,523,000.0





VIPER Strategic Estimates

TRANSYLVANIA

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	WEST CENTRAL							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

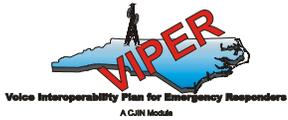
Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	159	TOXAWAY			1456		120	TELCO	855.9875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$150,000.00	\$0.00	\$0.00	YES	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	66	RICH MT-BREVARD			1153		121	TELCO	857.7375

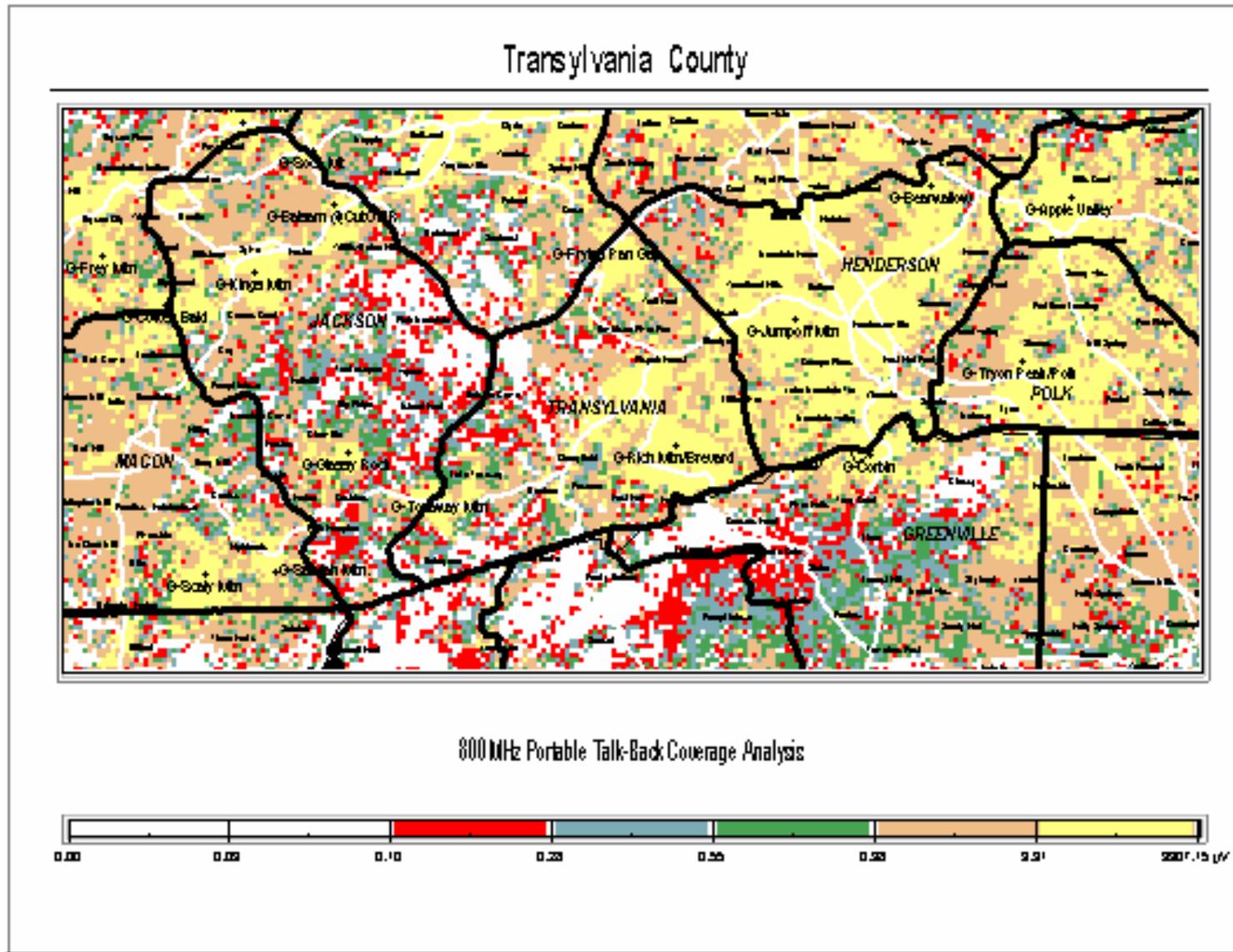
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	YES	\$5,000.00

Comments Reuse SHP tower, study required, sufficient building space, no generator needed.

TRANSYLVANIA COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$750,000.00	\$30,000.00	\$30,000.00	\$105,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$54,000.00	\$105,000.00	\$30,000.00	\$370,000.00	\$75,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$15,000.00	\$400,000.00	\$5,000.00	\$5,000.00	\$110,000.00
Grand Total				\$1,979,000.0





Voice Communications System

VIPER Strategic Estimates

TYRRELL

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	NEW	MANNS HARBOR							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$500,000.00	\$0.00	\$0.00	NO	\$5,000.00

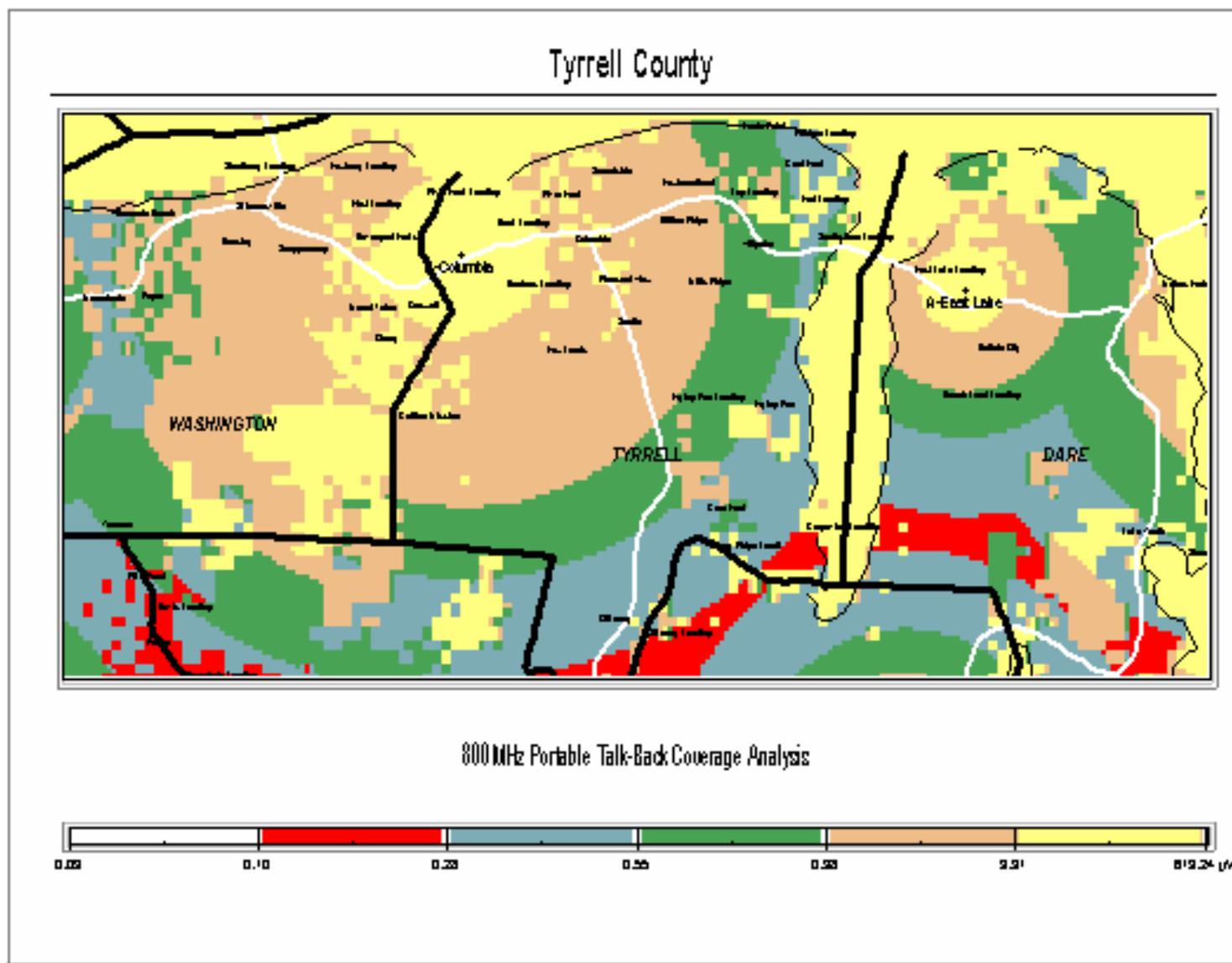
Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	29	COLUMBIA			2		097	TELCO	856.2625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse SHP tower, study required, insufficient building space, generator needed





Voice Communications System

VIPER Strategic Estimates

UNION									
Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	55	MONROE			194				

Costs									
Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse				
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	Yes	\$5,000.00				
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator					
\$0.00	\$15,000.00	\$10,000.00	\$0.00	No	\$25,000.00				
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis				
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	YES	\$5,000.00				

Comments Reuse SHP tower, study required, sufficient building space, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
H	118	WINGATE			163		053	TELCO	859.7125

Costs									
Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse				
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00				
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator					
\$27,000.00	\$0.00	\$0.00	\$185,000.00	No	\$0.00				
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis				
\$0.00	\$0.00	\$0.00	\$0.00	YES	\$0.00				

Comments

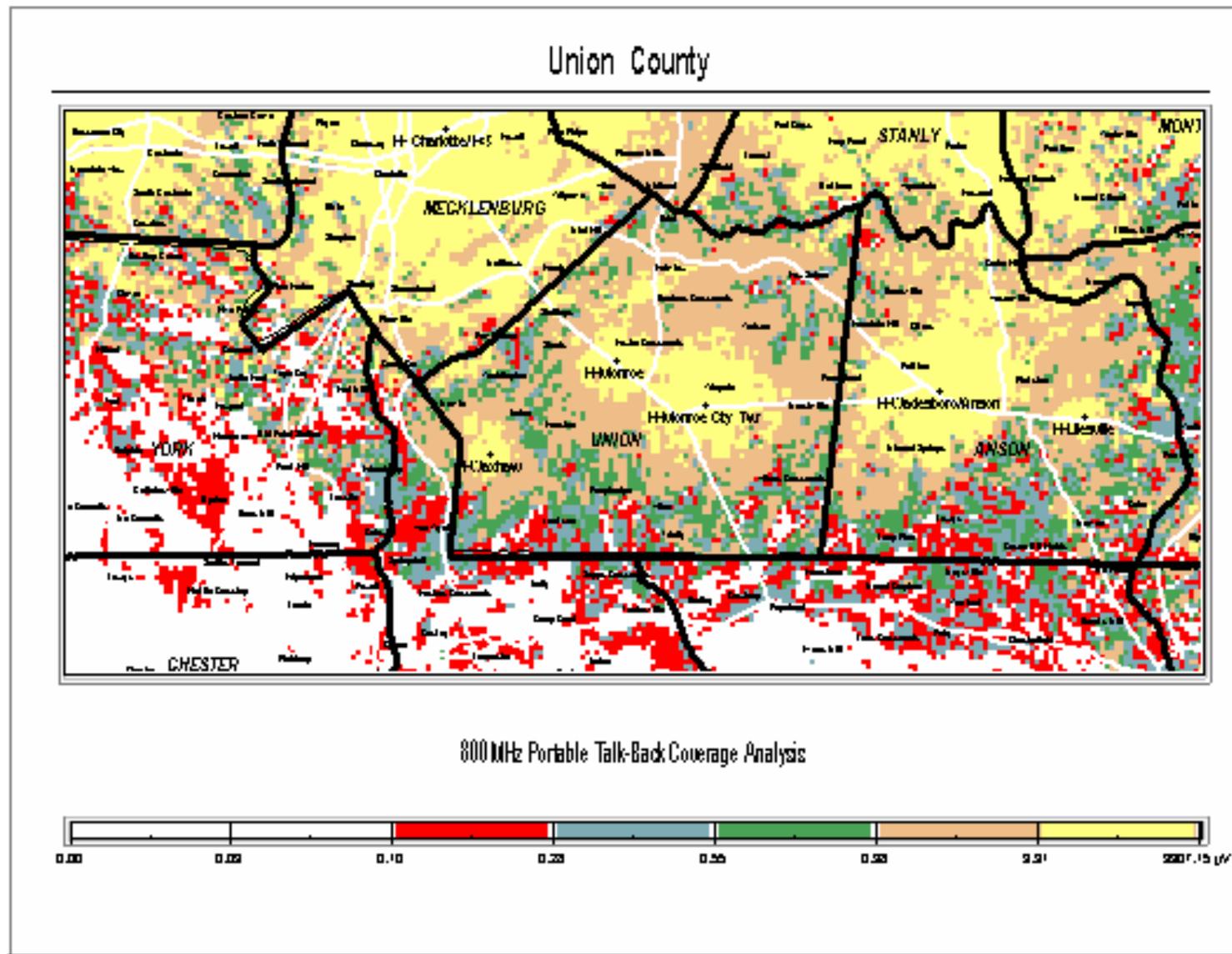


Voice Communications System

VIPER Strategic Estimates

UNION COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$15,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
				Grand Total
				\$902,000.00





Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	NEW	KERR LAKE TOWER							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	108	HENDERSON			111		035	TELCO	858.4875

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$0.00

Comments Reuse BICOMM tower, building sufficient, no generator needed.

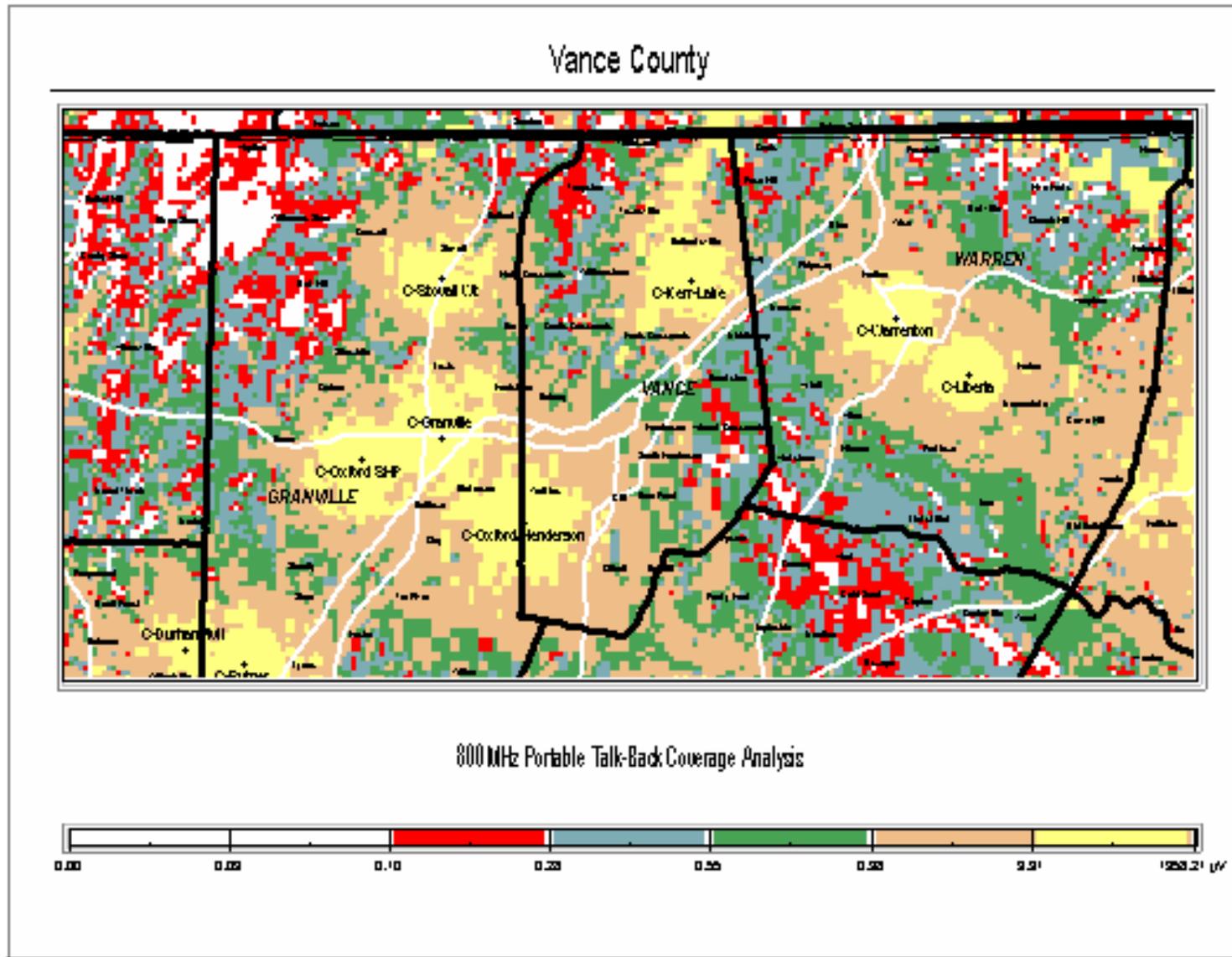


Voice Communications System

VIPER Strategic Estimates

VANCE COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$27,000.00	\$20,000.00	\$5,000.00	\$370,000.00	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$0.00	\$250,000.00		\$5,000.00	\$100,000.00
				Grand Total
				\$1,382,000.0





Voice Communications System

VIPER Strategic Estimates

WAKE									
Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	9	BAY LEAF WTR TANK			122				

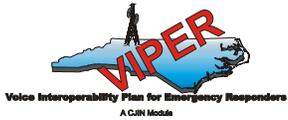
Costs									
Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse				
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00				
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator					
\$0.00	\$0.00	\$0.00	Yes	\$0.00					
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis				
\$0.00	\$0.00	\$0.00	\$0.00	NO	\$0.00				

Comments Reuse WAKE site, no improvements required

WAKE									
Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	10	WAKE SOUTH			106				

Costs									
Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse				
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00				
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator					
\$0.00	\$0.00	\$0.00	Yes	\$0.00					
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis				
\$0.00	\$0.00	\$0.00	\$0.00	NO	\$0.00				

Comments Reuse WAKE site, no improvements required



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	NEW	HARRIS PLANT							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

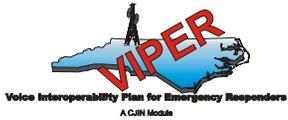
Comments Reuse Progress Energy Site, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	6	LITTLE RIVER Zebulon			90				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$0.00	NO	\$0.00

Comments Reuse WAKE site, no improvements required



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	7	WAKE NORTH DURANT			150		039	M/W	856.2625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$0.00	Yes	\$0.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$0.00	NO	\$0.00

Comments Reuse SHP site, no improvements required



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	2	RALEIGH ARCHDALE			103				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$0.00	Yes	\$0.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$0.00	NO	\$0.00

Comments Reuse SHP site, no improvements required

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	15	FUQUAY FIRE STA			102				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$0.00	Yes	\$0.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$0.00	NO	\$0.00

Comments Reuse WAKE site, no improvements required



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	19	RTP WAKE CO			101				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$0.00	Yes	\$0.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$0.00	NO	\$0.00

Comments Reuse WAKE site, no improvements required

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	8	WAKE FOREST			125				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$0.00	Yes	\$0.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$0.00	NO	\$0.00

Comments Reuse WAKE site, no improvements required



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	3	TRAINING ACADEMY			104				

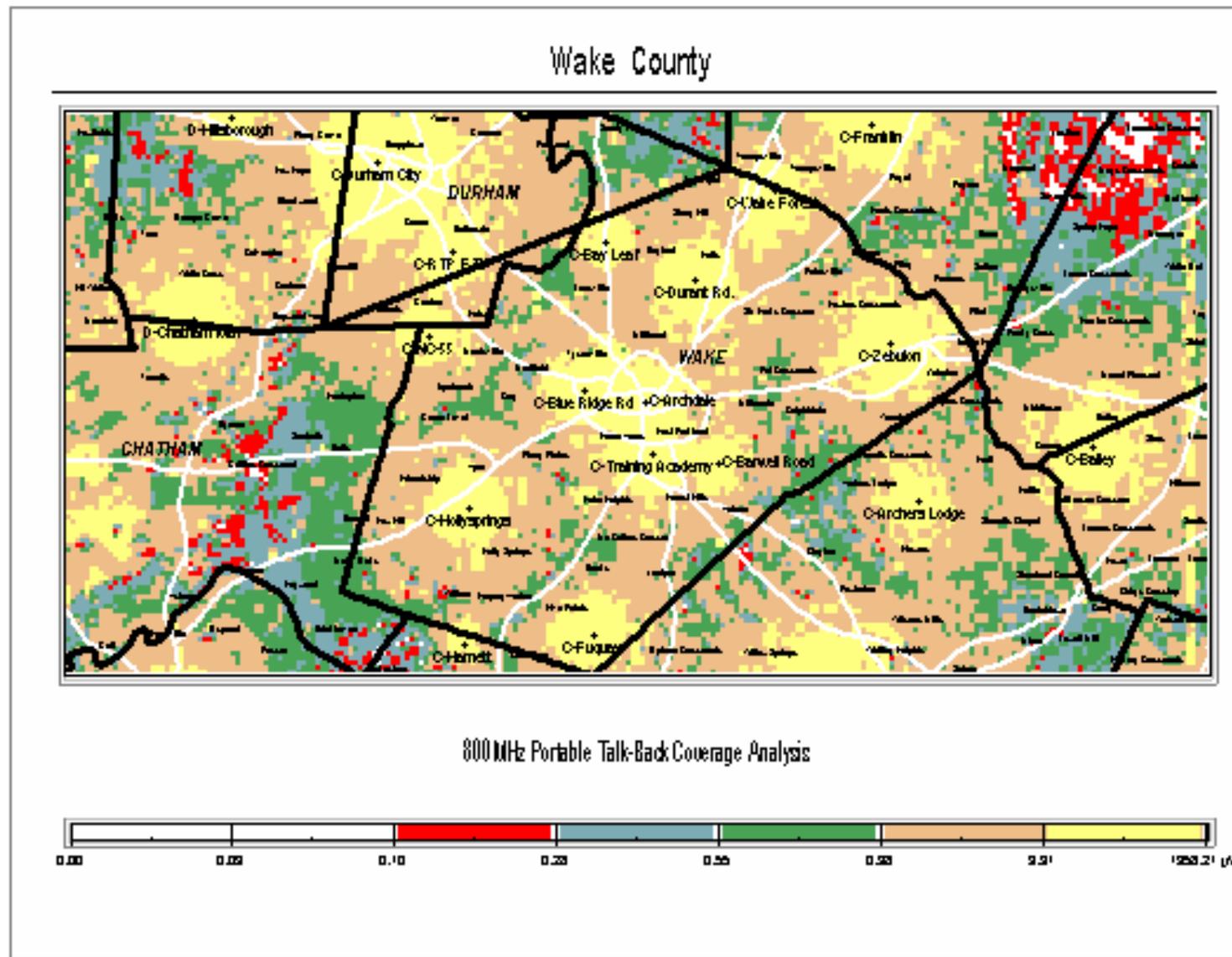
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$0.00	\$0.00	\$0.00	\$0.00	Yes	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$0.00	Yes	\$0.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	Yes		\$0.00

Comments Reuse WAKE site, no improvements required

WAKE COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$10,000.00	\$185,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00
Grand Total				\$592,000.00





Voice Communications System

VIPER Strategic Estimates

WARREN

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	206	LIBERIA			148				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$185,000.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$5,000.00

Comments Reuse SHP tower, study required, insufficient building space, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	NEW	NORTHEASTERN WARREN							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

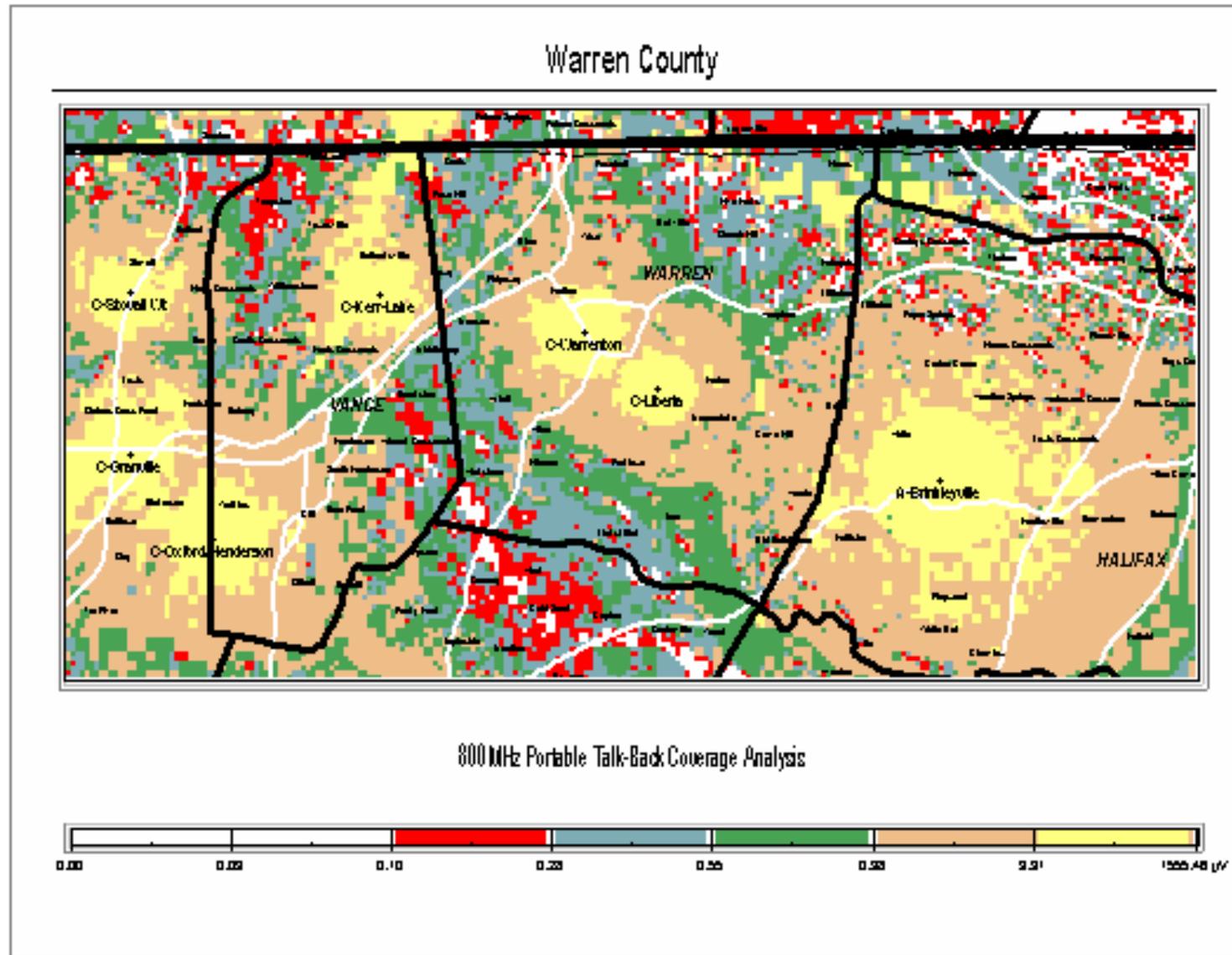


Voice Communications System

VIPER Strategic Estimates

WARREN COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$27,000.00	\$20,000.00	\$5,000.00	\$370,000.00	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$0.00	\$250,000.00		\$5,000.00	\$105,000.00
				Grand Total
				\$1,352,000.0





Voice Communications System

VIPER Strategic Estimates

WASHINGTON

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
A	28	PLYMOUTH			14		099	TELCO	855.4875

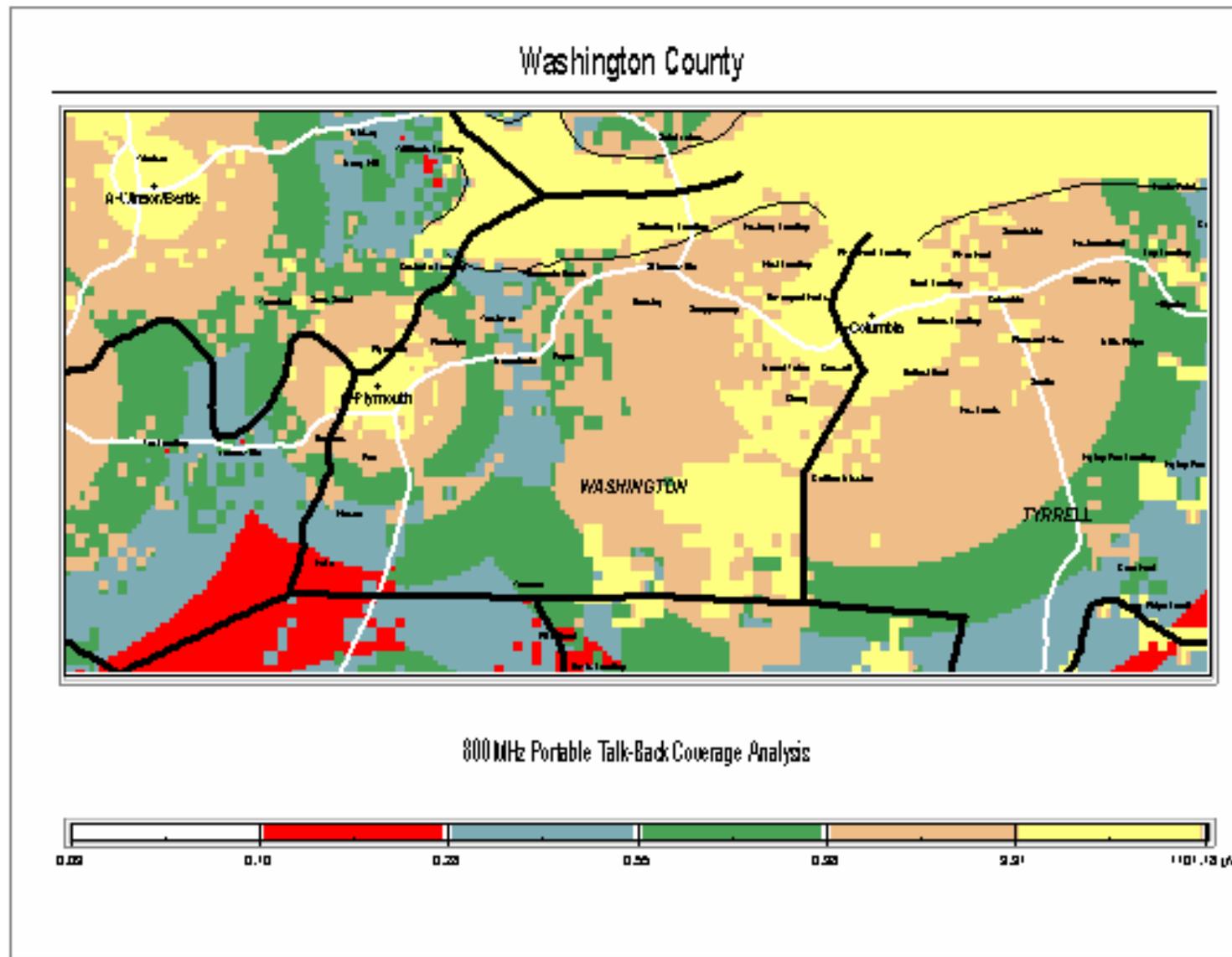
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Rebuild existing SHP tower, insufficient building space, generator needed.

WASHINGTON COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$0.00	\$35,000.00	\$10,000.00	\$25,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$15,000.00	\$250,000.00	\$0.00	\$0.00	\$5,000.00
Grand Total				\$645,000.00





Voice Communications System

VIPER Strategic Estimates

WATAUGA

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	186	GREEN HILL MTN			1195		152	TELCO	855.4625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	87	RICH MOUNTAIN			1458		100	TELCO	860.4375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	NEW	WESTERN WATAUGA							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	NEW	EASTERN WATAUGA							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

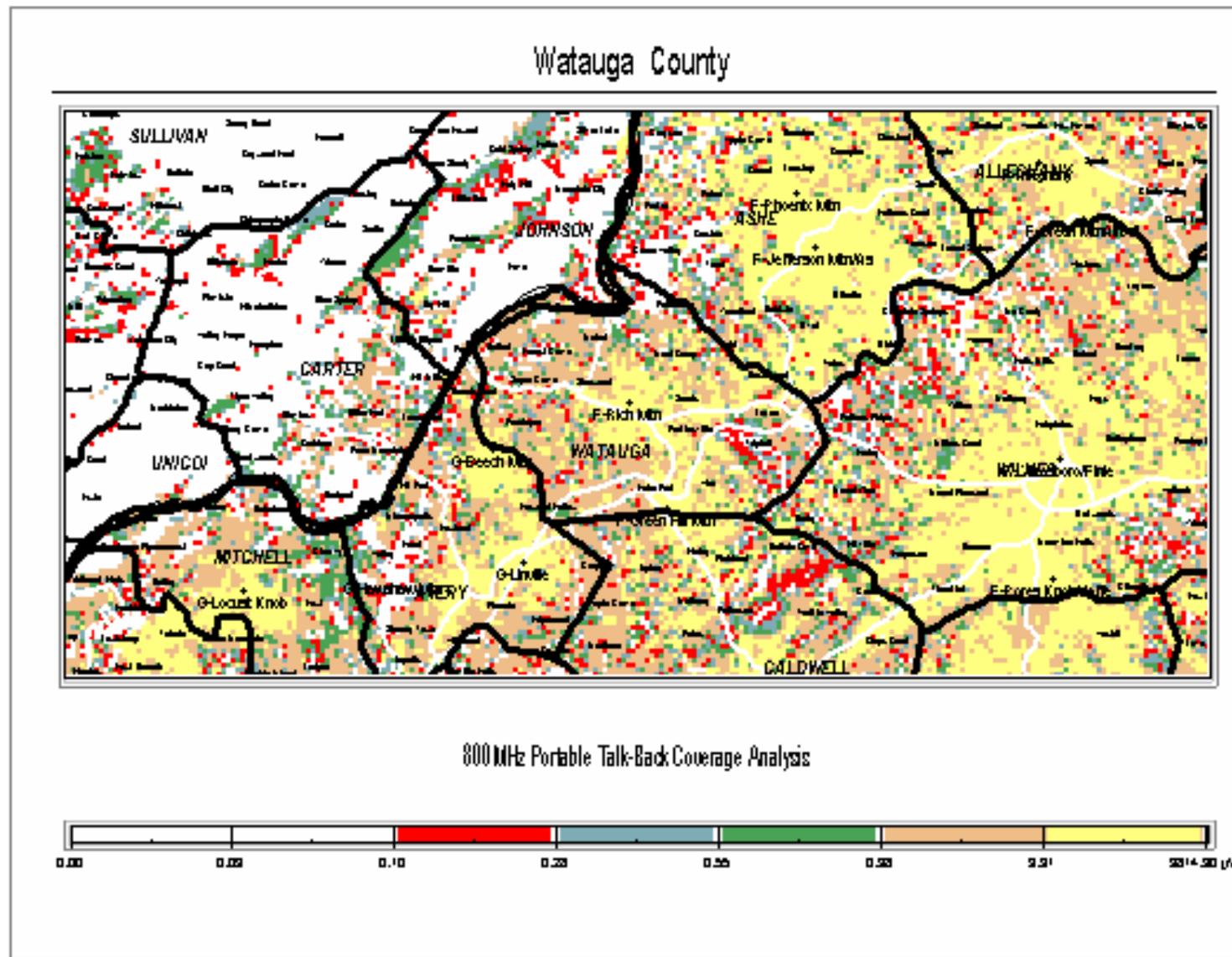


Voice Communications System

VIPER Strategic Estimates

WATAUGA COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$1,000,000.00	\$40,000.00	\$40,000.00	\$140,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$108,000.00	\$40,000.00	\$740,000.00	\$100,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$1,200,000.00	\$0.00	\$0.00	\$210,000.00
				Grand Total
				\$3,548,000.0





Voice Communications System

VIPER Strategic Estimates

WAYNE

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	NEW	LEE PLANT							

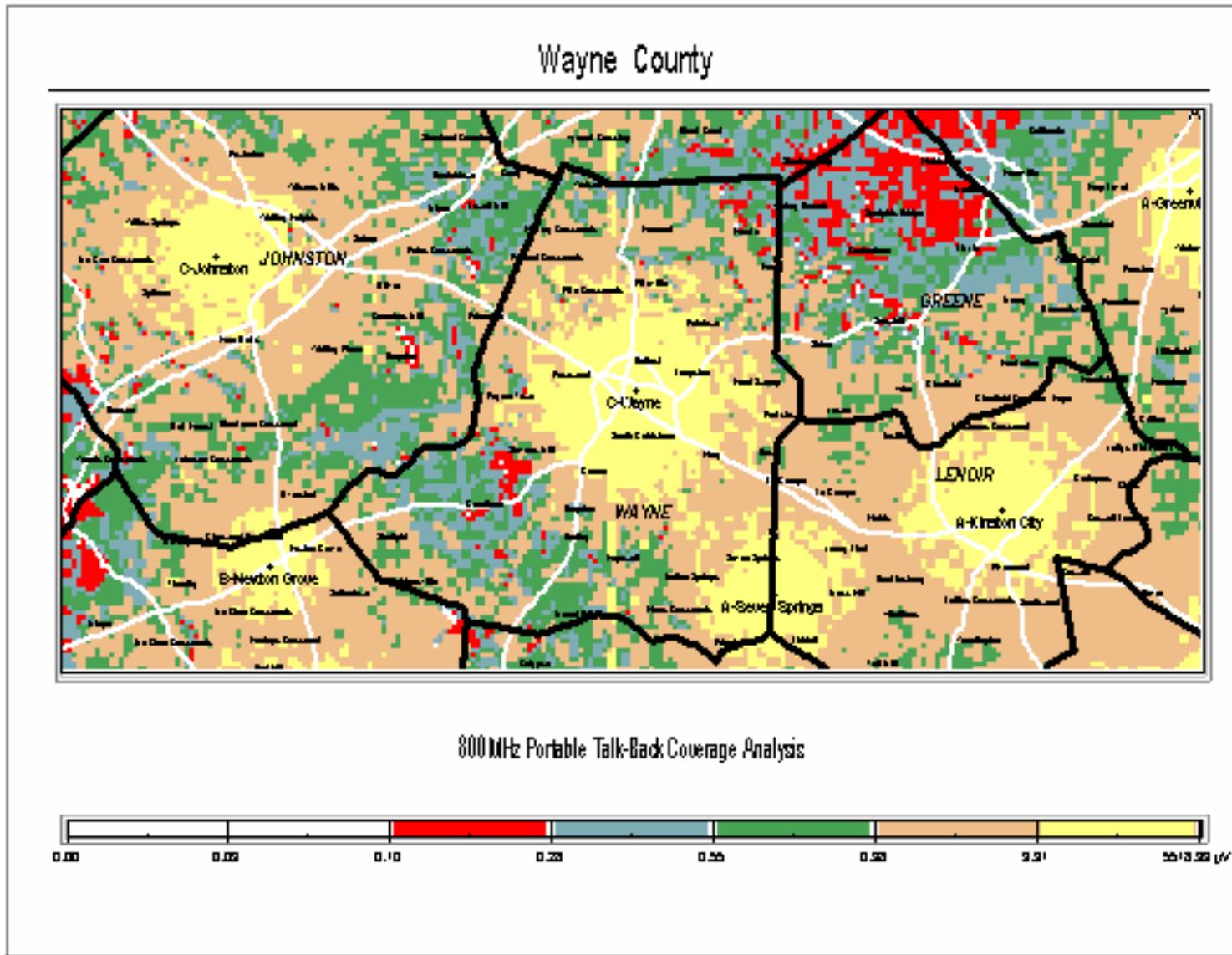
Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

Comments Reuse Progress Energy Site, study required, insufficient building space, generator needed.

WAYNE COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Upgrade/New	
\$27,000.00	\$35,000.00	\$10,000.00	\$25,000.00	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00
Grand Total				\$592,000.00





Voice Communications System

VIPER Strategic Estimates

WILKES

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	NEW	WESTERN WILKES							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$5,000.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	NEW	WILKESBORO (NEW)							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$5,000.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	160	GREEN MOUNTAIN			1201		122	TELCO	855.2375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$0.00	\$25,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, insufficient building space, generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
F	60	PORES KNOB			762		101	M/W	860.4375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$250,000.00	\$0.00	\$0.00	NO	\$5,000.00

Comments Rebuild SHP tower, study required, insufficient building space, generator needed.



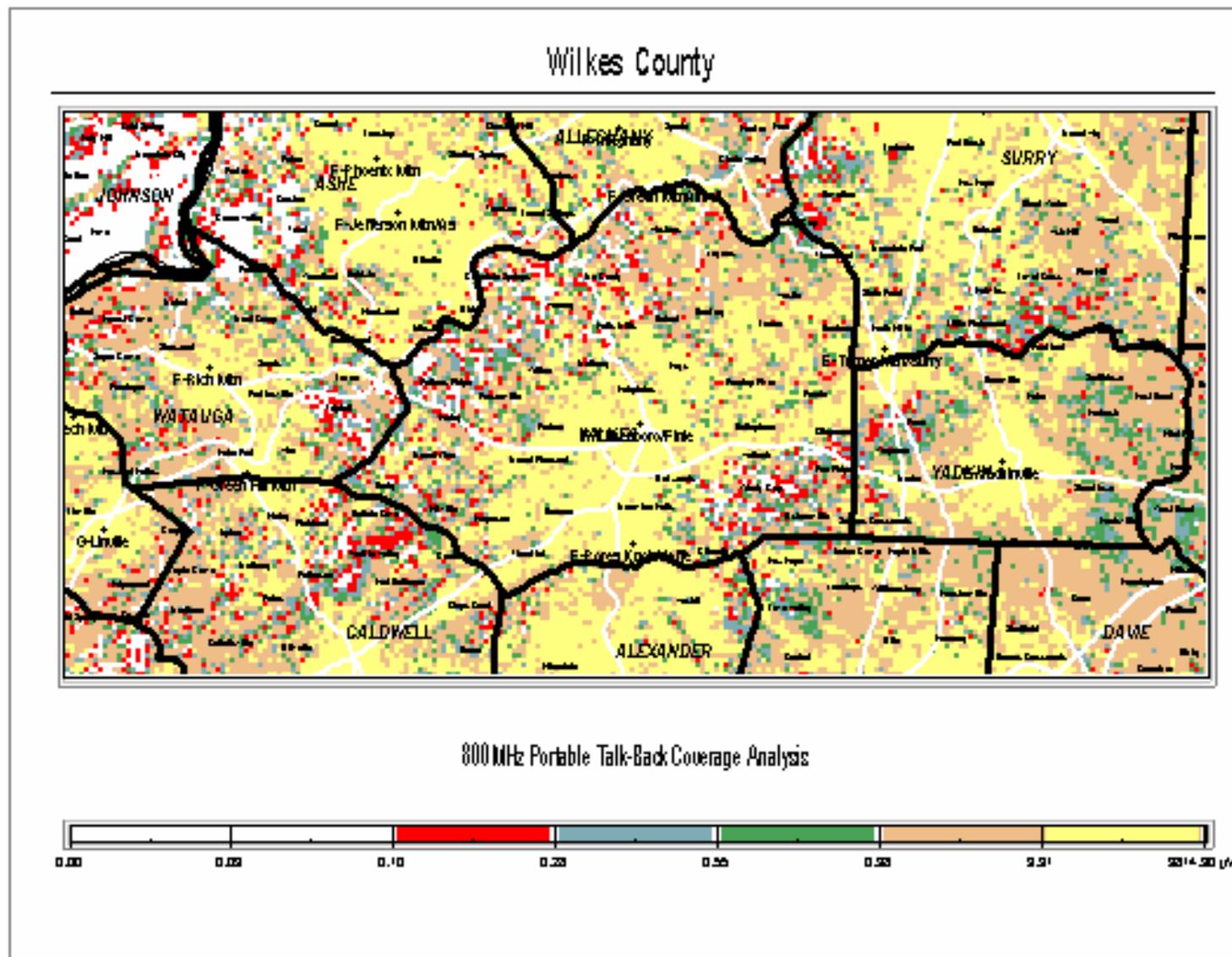
Voice Interoperability Plan for Emergency Responders
A CSN Module

Voice Communications System

VIPER Strategic Estimates

WILKES COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$1,000,000.00	\$40,000.00	\$40,000.00	\$140,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$108,000.00	\$40,000.00	\$0.00	\$555,000.00	\$100,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$15,000.00	\$950,000.00		\$35,000.00	\$210,000.00
				Grand Total
				\$3,163,000.0





Voice Communications System

VIPER Strategic Estimates

WILSON

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	21	WILSON			37				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$0.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$10,000.00	\$0.00	\$0.00	\$5,000.00	NO	\$5,000.00

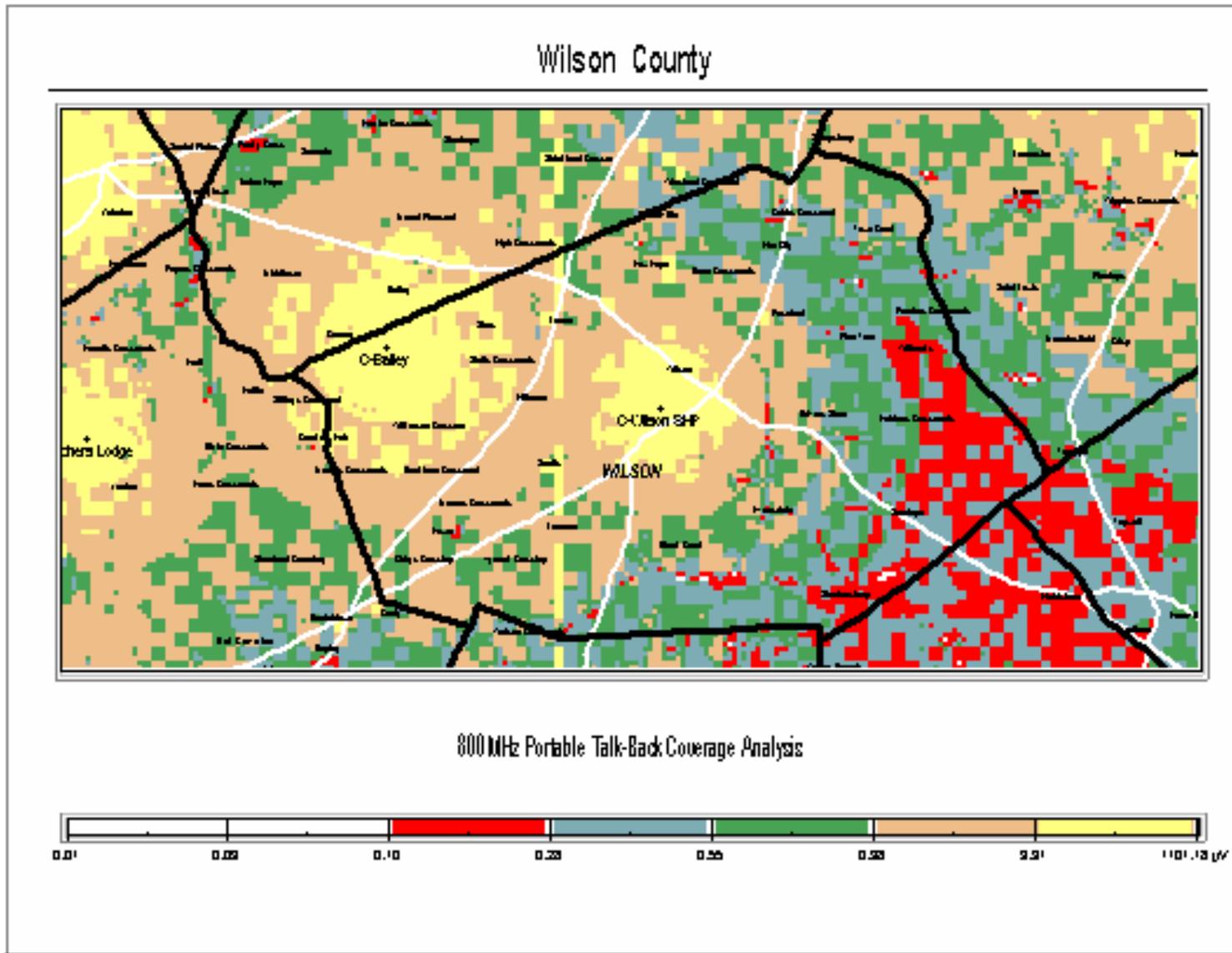
Comments Reuse SHP tower, study required, insufficient building space, generator needed

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
C	20	BAILEY			80		037	TELCO	855.9625

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$100,000.00	\$0.00	\$0.00	\$0.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$0.00	\$10,000.00	\$185,000.00	Yes	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$5,000.00	\$25,000.00	NO	\$5,000.00

Comments Reuse SHP tower with improvements, add channels, sufficient building space, generator needed.





Voice Communications System

VIPER Strategic Estimates

YADKIN

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	120	YADKINVILLE			278		056	TELCO	855.2375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$250,000.00	\$0.00	\$0.00	Yes	\$5,000.00

Comments Construct new tower on existing land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
E	NEW	WESTERN YADKIN							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$150,000.00

Comments Construct new tower on to be purchased land, building and generator needed.



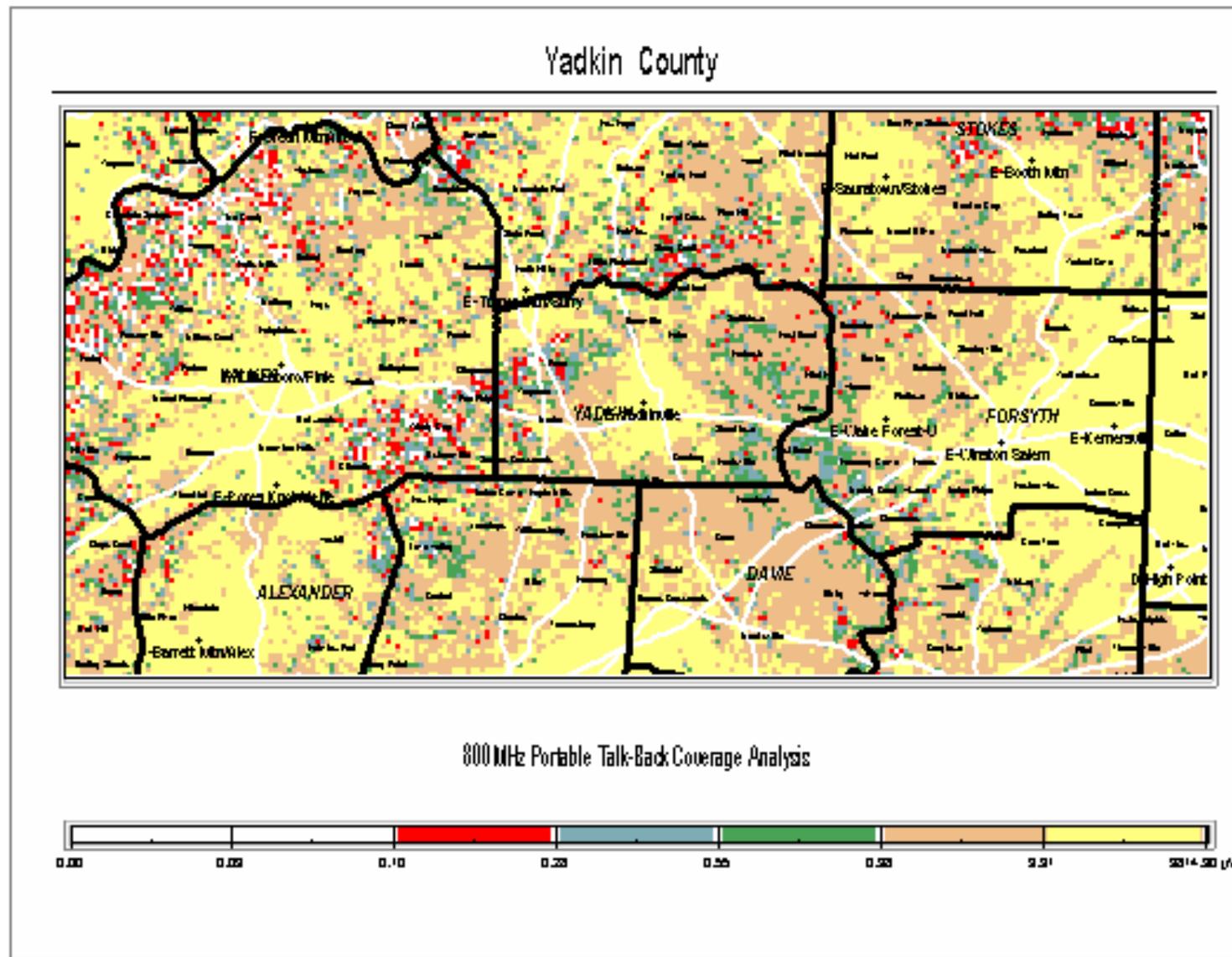
Voice Interoperability Plan for Emergency Responders
A CSN Model

Voice Communications System

VIPER Strategic Estimates

YADKIN COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$500,000.00	\$20,000.00	\$20,000.00	\$70,000.00	\$0.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$54,000.00	\$20,000.00	\$0.00	\$370,000.00	\$50,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$0.00	\$600,000.00		\$0.00	\$155,000.00
				Grand Total
				\$1,774,000.0





Voice Communications System

VIPER Strategic Estimates

YANCEY

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	93	MT MITCHEL			2038				

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$50,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$150,000.00	\$0.00	\$0.00	YES	\$25,000.00

Comments Construct new tower on existing land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	148	PHILLIPS KNOB			1322		108	TELCO	855.2125

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$185,000.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$5,000.00

Comments Reuse existing tower, study required, sufficient building space, no generator needed.



Voice Communications System

VIPER Strategic Estimates

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	NEW	BURNSVILLE							

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	No	\$0.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$27,000.00	\$35,000.00	\$10,000.00	\$185,000.00	No	\$25,000.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$0.00	\$350,000.00	\$0.00	\$0.00	NO	\$100,000.00

Comments Construct new tower on to be purchased land, building and generator needed.

Troop	SHP Site #	Site Name	Latitude	Longitude	ELEV	Tower Height	MDN Site #	Circuit	MDN Freq.
G	63	CLINGMANS			1998		015	M/W	855.7375

Costs

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Suitable Y/N	Building Reuse
\$250,000.00	\$10,000.00	\$10,000.00	\$35,000.00	Yes	\$5,000.00
Building Replacement/New Antenna/Line/Dish Material Upgrade/New	UPS	Microwave	Generator Suitable Y/N	Generator	
\$0.00	\$35,000.00	\$10,000.00	\$0.00	Yes	\$0.00
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Suitable for Reuse Y/N	Land Acquis
\$15,000.00	\$0.00	\$5,000.00	\$5,000.00	NO	\$5,000.00

Comments Reuse SHP tower, study required, sufficient building space, no generator needed.

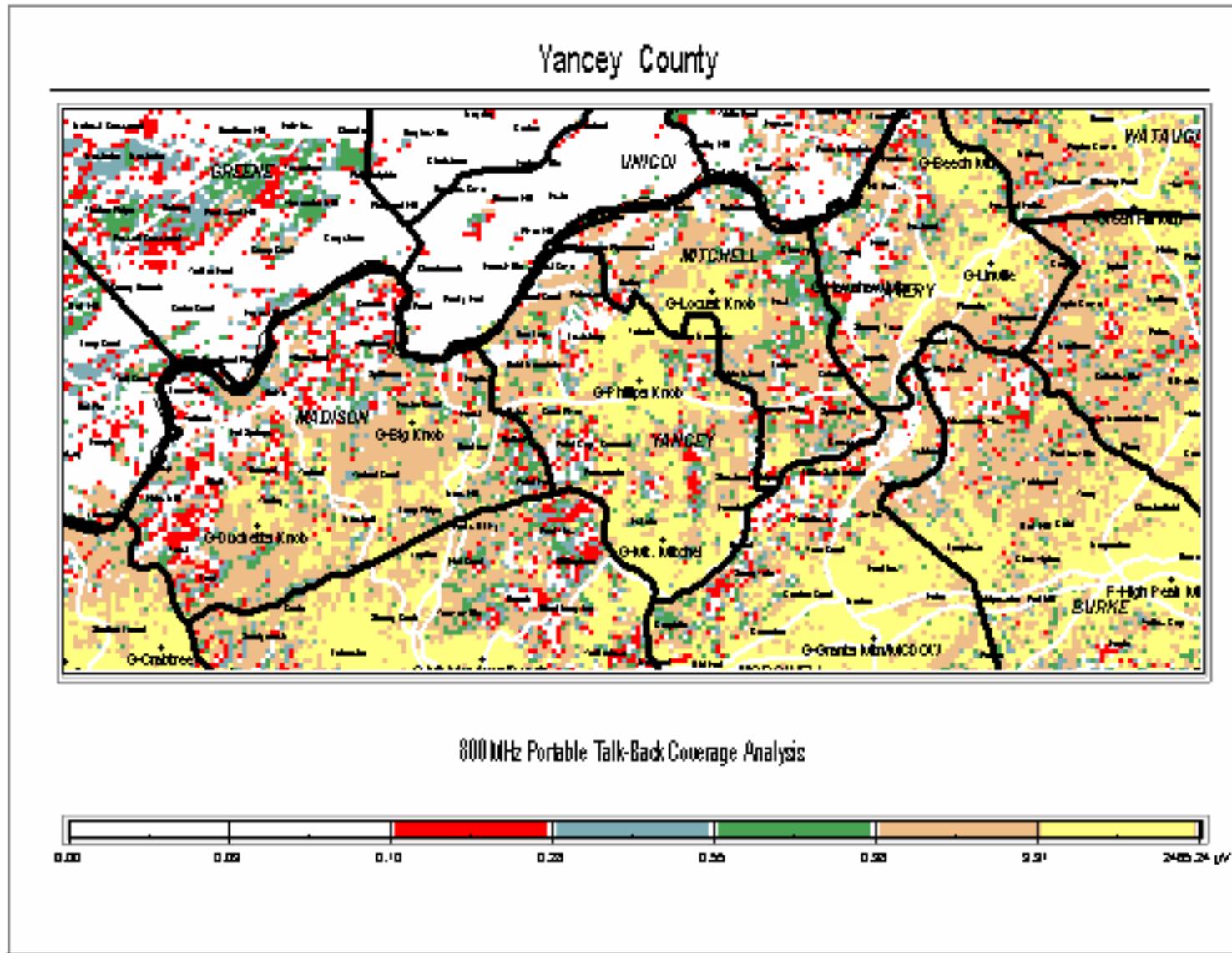


Voice Communications System

VIPER Strategic Estimates

YANCEY COUNTY TOTALS:

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$1,000,000.00	\$40,000.00	\$40,000.00	\$140,000.00	\$10,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Microwave	Generator Upgrade/New	
\$77,000.00	\$40,000.00	\$555,000.00	\$50,000.00	
Mux Gear w/Fees/Permits	Tower w/Install	Equipment Room Upfit	Tower Study/Reuse	Land Acquis
\$15,000.00	\$500,000.00	\$10,000.00	\$10,000.00	\$135,000.00
				Grand Total
				\$2,627,000.0





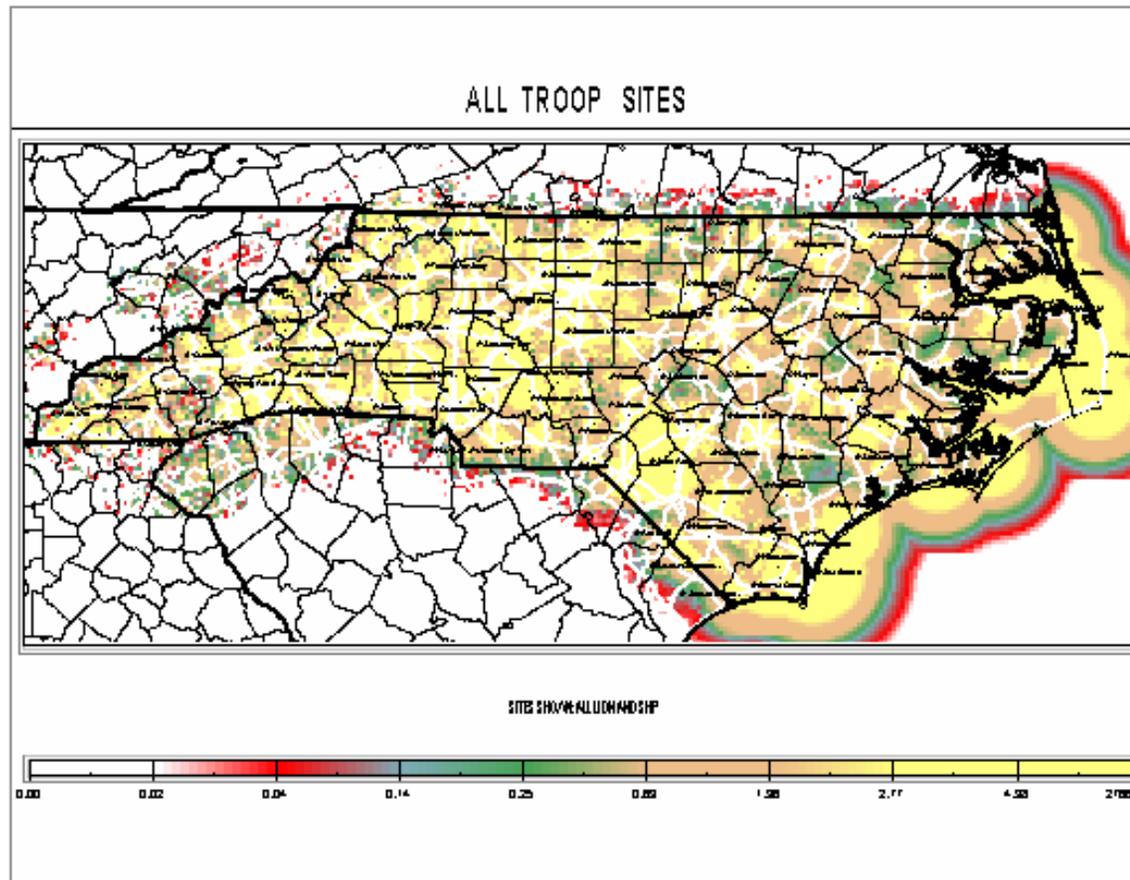
Voice Communications System

VIPER Strategic Estimates

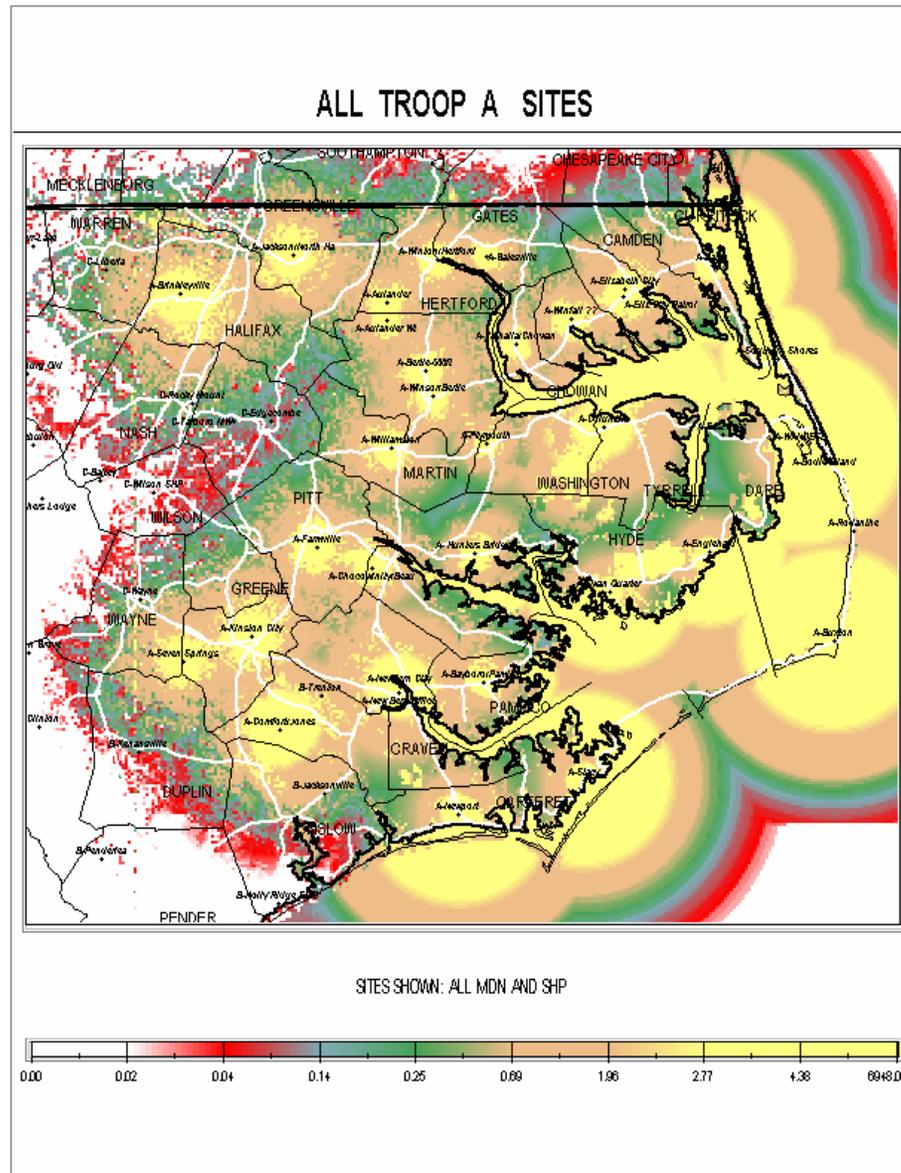
SUMMARY ALL COUNTIES

Intellirepeater 5Ch Site	Physical Install	Antenna/Line/Dish Install	SZ Port w/install	Building Reuse
\$52,185,000.00	\$2,090,000.00	\$2,085,000.00	\$7,200,000.00	\$250,000.00
Building Replacement/New Antenna/Line/Dish Material	UPS	Equipment Room Upfit	Microwave	Generator Upgrade/New
\$4,343,000.00	\$2,250,000.00	\$165,000.00	\$33,440,000.00	\$4,875,000.00
Mux Gear w/Fees/Permits	Tower w/Install		Tower Study/Reuse	Land Acquis
\$645,000.00	\$32,827,460.00		\$915,000.00	\$6,845,000.00
			Grand Total All Costs, All	\$149,880,460.00

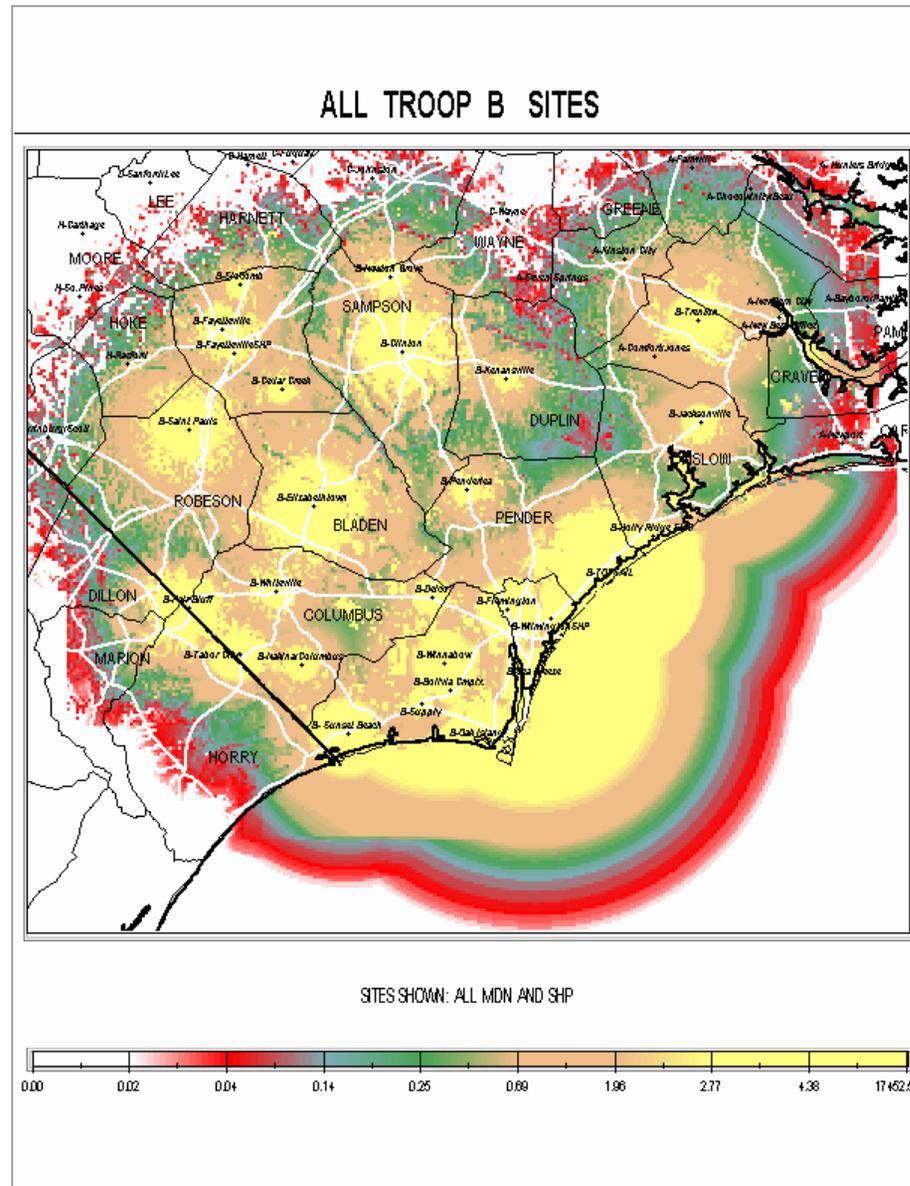
Voice Communications System



Voice Communications System

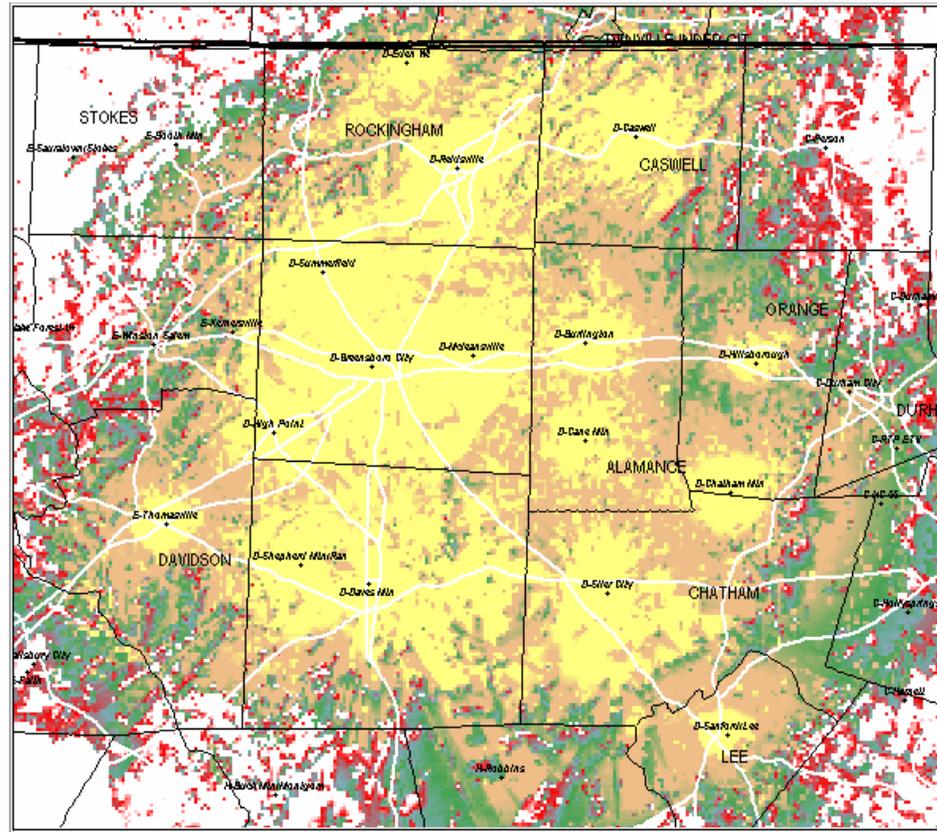


Voice Communications System



Voice Communications System

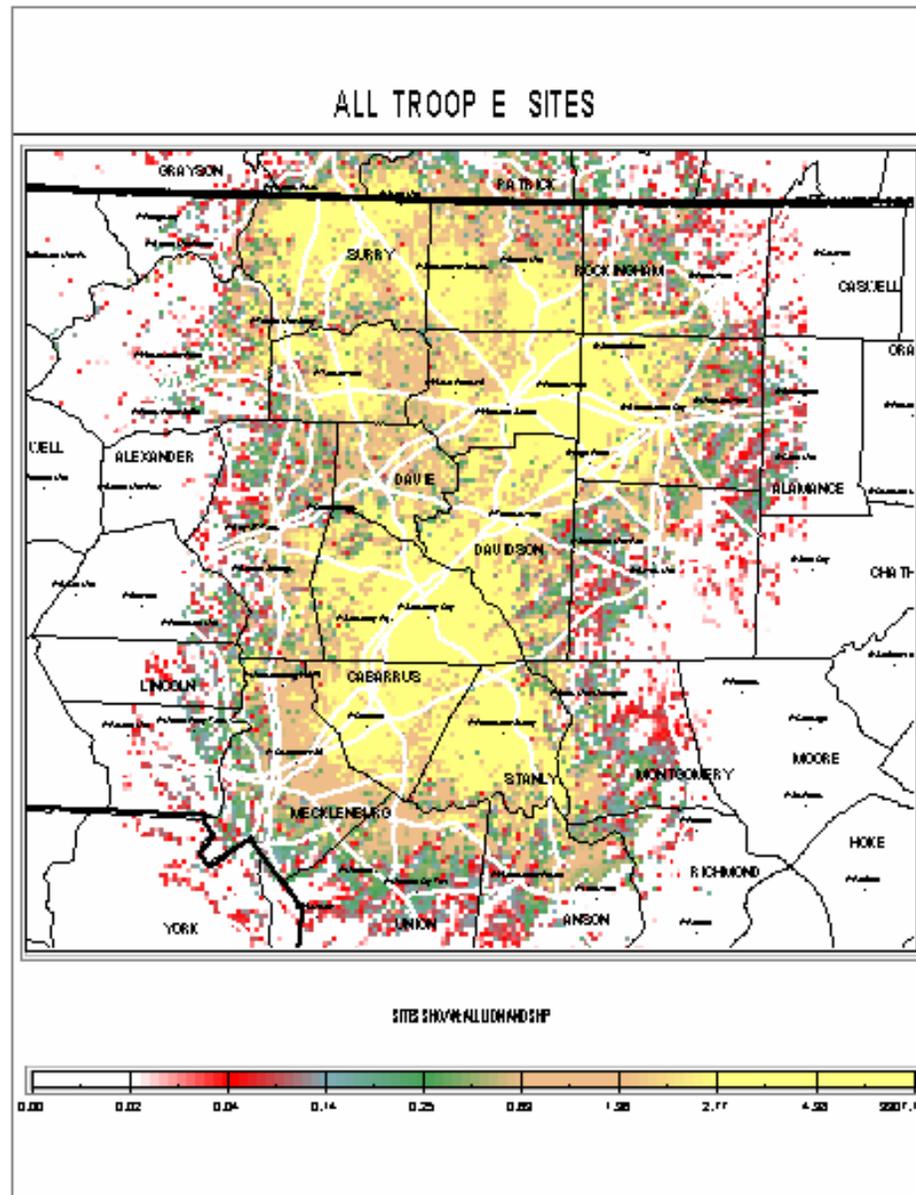
ALL TROOP D SITES



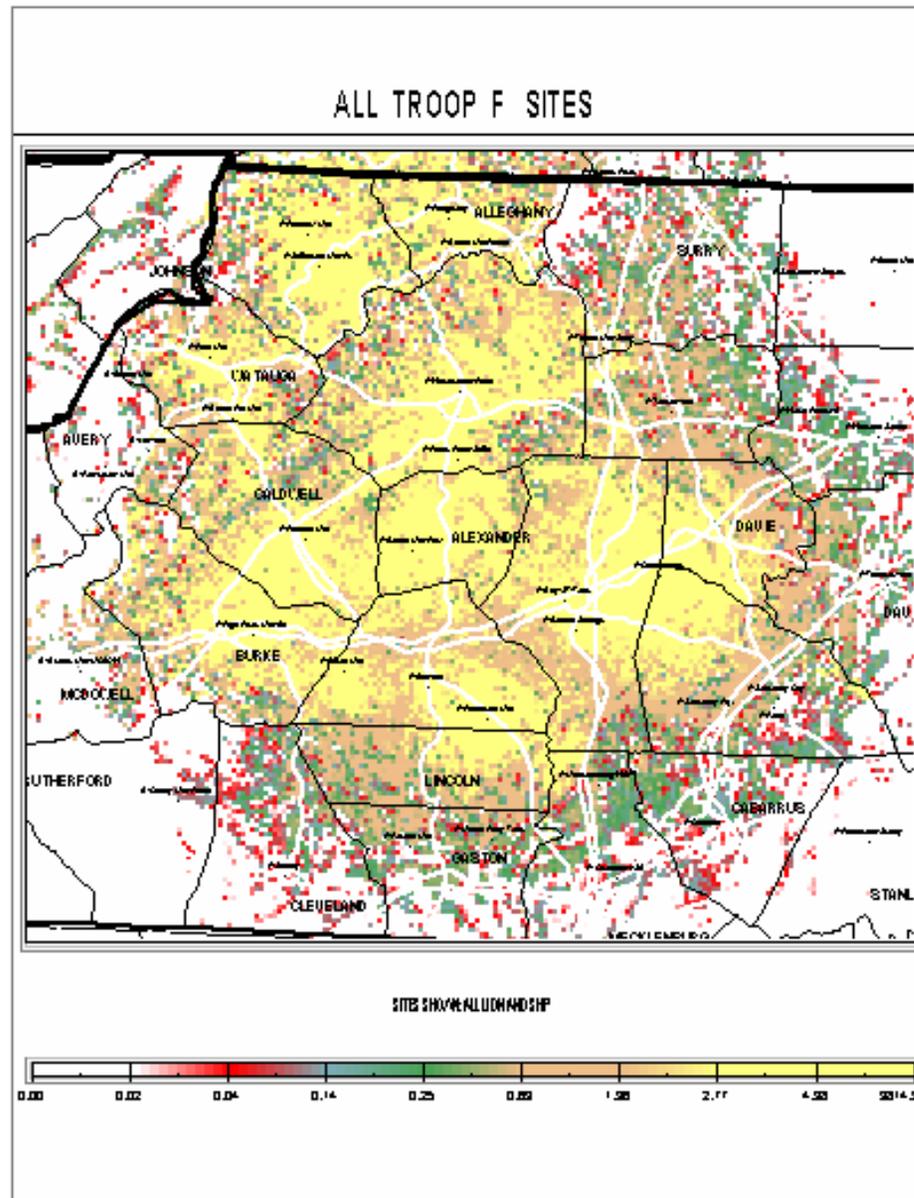
SITES SHOWN: ALL MDN AND SHP



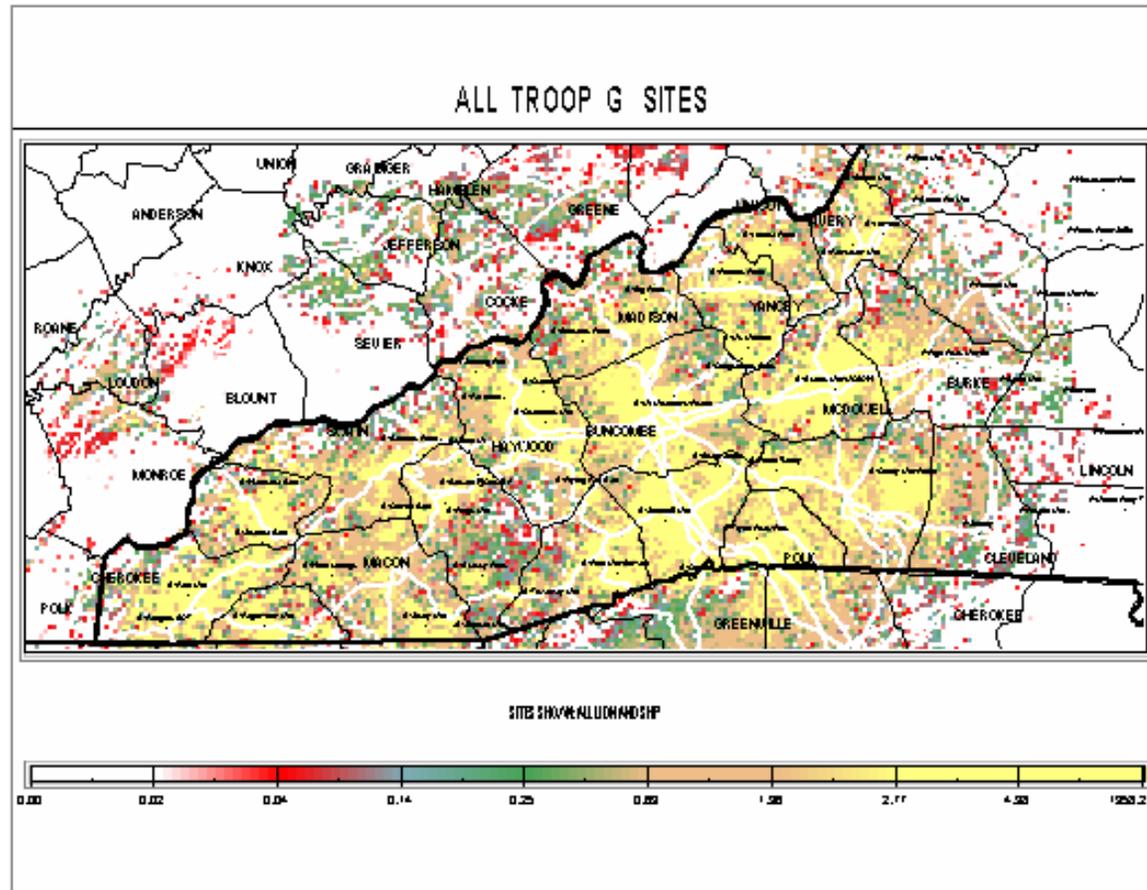
Voice Communications System



Voice Communications System



Voice Communications System



Voice Communications System

