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Federal Communications Commission
Office of the Secretary
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STAMP & RETURN

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 Twelfth Street, S.W.
Washington, DC 20554

**Re: Windy City Cellular, LLC Updated Redacted - For Public Inspection
Version of Petition for Waiver in WC Docket Nos. 10-90, 07-135, 05-337 and
03-109; CC Docket Nos. 01-92 and 96-45; WT Docket No. 10-208; GN
Docket No. 09-51**

Dear Ms. Dortch:

On Tuesday, April 3, 2012, Windy City Cellular, LLC ("WCC") filed a Petition for Waiver with a Request for Confidentiality for certain exhibits and an accompanying Redacted – For Public Inspection version in the above referenced dockets. WCC also submitted supplemental filings of certain Exhibits to its petition on April 6, 2012 and April 12, 2012. After further review, WCC discovered that certain Exhibits requested as confidential should be publicly available. Therefore, WCC now resubmits the public version of its Petition for Waiver, incorporating supplements of public information that were subsequently filed, making clear that the following Exhibits can be made public: Exhibits 1, 2, 4, 5, 6, 9, 12, 13, 14 and 15.

Should you have any questions, please contact the undersigned.

Sincerely,



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Counsel For Windy City Cellular, LLC

BEFORE THE
FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C. 20554

In the Matter of)	
)	
Connect America Fund)	WC Docket No. 10-90
)	
A National Broadband Plan for Our Future)	GN Docket No. 09-51
)	
Establishing Just and Reasonable Rates for Local Exchange Carriers)	WC Docket No. 07-135
)	
High-Cost Universal Service Support)	WC Docket No. 05-337
)	
Developing an Unified Intercarrier Compensation Regime)	CC Docket No. 01-92
)	
Federal-State Joint Board on Universal Service)	CC Docket No. 96-45
)	
Lifeline and Link-Up)	WC Docket No. 03-109
)	
Universal Service Reform – Mobility Fund)	WT Docket No. 10-208

To the Wireless Telecommunications Bureau:

PETITION FOR WAIVER OF WINDY CITY CELLULAR, LLC

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Dated: April 3, 2012

EXECUTIVE SUMMARY

Universal Service funding has enabled Windy City Cellular, LLC (“WCC”) to build a mobile network and provide wireless service on Adak Island in Alaska, one of the most remote and insular areas of the United States. Adak Island is located in an earthquake zone and in the vicinity of an active volcano. The area is mountainous, and is characterized by extreme weather conditions including cyclonic storms, wind gusts in excess of 100 knots, fog storms in the summer, and an average accumulation of more than eight feet of snow.

Taking into consideration all three carriers that provide wireline or wireless voice service in the Adak area, WCC is the only carrier that provides voice service throughout the entire Adak area, including areas that extend into the sea and Aleutian Wilderness where critical services and industries operate. This service has been essential in providing E911 and basic communications services to governmental entities, businesses and the resident population of Adak Island. The entities dependent on WCC service include: The Marine Exchange, which operates on Adak one of the most important vessel tracking receiving sites in Alaska; The Aleut Corporation, which provides fuel to the area and operates other businesses on the island; and the United States Geological Survey (“USGS”) Volcano Observatory, which monitors the active volcano on the island. In addition, researchers and subsistence hunters and fisherman rely on WCC service.

The critical service provided by WCC is now in jeopardy. USF funding for WCC was unexpectedly slashed by 84% beginning January 1, 2012, when a \$3,000 annual cap on line support was suddenly implemented six weeks after the *USF/ICC Transformation Order* was issued. If a waiver of the annual cap is not expeditiously granted, the results will be catastrophic for the Adak area: (1) WCC will be forced to cease operating, causing consumers to lose service with no terrestrial alternative, and roaming ability throughout the Adak area will be lost; (2) critical services, government functions, and public safety will be jeopardized; and (3) WCC will

become insolvent, causing the loss of a critical number of jobs for the Adak area. As a result, the cap is having a disproportionate and inequitable impact on WCC. Such consequences are at odds with Commission objectives and do not benefit the public interest.

Moreover, the immediate effective date of the annual cap contradicts one of the Commission's explicit guiding principles from the National Broadband Plan that there should be "no flash cuts" when adopting "Special Access Policies" relating to USF reform.¹ The requested waiver is necessary to ensure that the Administrative Procedures Act and principles of fairness and due process are not violated, and to cure the disproportionate or inequitable impact the cap is already having on WCC.

WCC recognizes the Commission's goal of transitioning from an identical support rule to new recovery mechanisms. WCC has determined that it needs a bare minimum of \$880.09 per line, per month, which is less than half the support it was receiving months ago, in order to cover operating expenses until the transition to Phase II Mobility Funding occurs. WCC is requesting only the amount of support that is necessary given Adak's remote location, volatile climate and extreme weather - not the amount it was previously receiving which it was using to make redundant, expand and improve its service. In summary, WCC requests a time-limited waiver to maintain only the current level of service.

¹ Federal Communications Commission, Omnibus Broadband Initiative, Connecting America: The National Broadband Plan, GN Docket No. 09-51, at 143 (2010) ("National Broadband Plan")(emphasis added)(stating "New rules should be phased in over a reasonable time period. Policymakers must give service providers and investors time to adjust to a new regulatory regime.").

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**BEFORE THE
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Universal Service Reform – Mobility Fund)	WT Docket No. 10-208

To the Wireless Telecommunications Bureau:

PETITION FOR WAIVER OF WINDY CITY CELLULAR, LLC

Windy City Cellular, LLC (“WCC”), pursuant to Section 1.3 of the Commission’s Rules, respectfully requests a waiver of Section 54.307(e) of the Universal Service Fund (“USF”) and Intercarrier Compensation (“ICC”) reform rules adopted by the Commission as part of its *Report and Order* (the “*USF/ICC Transformation Order*”) released on November 18, 2011.²

Specifically, WCC requests a waiver of the Commission’s sudden implementation of the \$3,000

² See *Connect America Fund et al.*, WC Docket No. 10-90 et al., Report and Order and Further Notice of Proposed Rulemaking, FCC 11-161, 26 FCC Rcd 17663, ¶ 508 (2011) (“*USF/ICC Transformation Order*”). The Interim Support for Remote Areas in Alaska rule is to be codified at 47 C.F.R. § 54.307(e)(v).

annual cap on interim USF support, which became effective six weeks after the *USF/ICC Transformation Order* was issued. For WCC, a competitive eligible telecommunications carrier (“CETC”) serving a remote and insular area in Alaska, the continued enforcement of this cap, which immediately reduced WCC’s USF funding by 84%, will have service-ending consequences for WCC and the entire Adak community. Good cause exists to exempt WCC from the new requirements contained in Section 54.307(e) and to grant WCC a limited waiver of the cap until Phase II Mobility Funding is disbursed. The waiver requested by WCC is limited in time and in support level because WCC is only seeking a portion of its prior USF funding – only what is needed to recover operating expenses and the cost of WCC’s prior network investments.

WCC is the only wireless carrier that provides voice service to the entirety of the Adak area in the Aleutian Islands, including areas that extend into the sea and Aleutian Wilderness where critical services, public safety and industries operate (the "Adak area").³ As explained in further detail in this Petition, if a waiver of the annual cap is not granted, WCC service will shut down within six months, and the results will be disastrous for the Adak area: (1) WCC customers will lose service with no terrestrial alternative and no roaming ability outside the downtown area; (2) critical services, government functions, and public safety will be jeopardized; and (3) WCC will become insolvent causing a loss of a critical number of jobs for the area. All of these results are clearly at odds with the Commission’s universal service, wireless and public safety goals, and the Administration’s goals with respect to job creation.

Moreover, since Section 54.307(e) was implemented within weeks of the *USF/ICC Transformation Order*’s release, without notice of the cap and no ability for WCC to prepare for

³ Although there is another wireless carrier operating in Adak, Alaska Wireless, it only operates one cell site in the downtown area and has a much smaller coverage area than WCC. *See Exhibit 2.*

the change, enforcing the rules is having an immediate “disproportionate or inequitable impact”⁴ on WCC. Applying the cap, so suddenly and without notice, violates the Administrative Procedure Act (“APA”) and principles of fairness and due process. Furthermore, it contradicts one of the Commission’s explicit guiding principles from the National Broadband Plan for adopting "Special Access Policies" relating to USF reform:

No flash cuts. New rules should be phased in over a reasonable time period. Policymakers must give service providers and investors time to adjust to a new regulatory regime.⁵

However, to the Commission’s credit, it understood that the national framework created by the *USF/ICC Transformation Order* could be ill-suited to fit individual circumstances, particularly for carriers serving insular areas of Alaska. It therefore wisely provided for an expedited waiver mechanism to deal with such cases speedily.⁶ WCC respectfully requests such expeditious decision-making in this case. Without limited relief from the cap within the next six months, WCC will be forced to shut down its wireless operations in Adak, stranding wireless consumers and threatening critical service and public safety in the region.

I. BACKGROUND ON WCC AND SERVICE TO THE ADAK AREA.

Adak Island is an isolated island located approximately 1,200 miles southwest of Anchorage, Alaska, in the Aleutian Chain of islands. It is situated near an active volcano and in an earthquake zone. The Adak area is represented on the first map contained in Exhibit 5. The area is characterized by frequent cyclonic storms, winter squalls producing wind gusts in excess

⁴ See USF/ICC Transformation Order, ¶ 508.

⁵ Federal Communications Commission, Omnibus Broadband Initiative, Connecting America: The National Broadband Plan, GN Docket No. 09-51, at 143 (2010) (“National Broadband Plan”)(emphasis added).

⁶ See USF/ICC Transformation Order, ¶ 508.

of 100 knots, extensive fog storms in the summer, and an average accumulated snowfall of 100 inches.⁷ Because Adak has a maritime climate with severe storms and high winds during much of the year, it has limited accessibility only by air or by large oceangoing vessels. In the best of circumstances, commercial air service consists of twice-weekly flights and barges arrive only once a year. Adak is undoubtedly one of the most remote, isolated, and climactically inhospitable communities in the United States. Outside of the downtown area, people travel long distances between points and are dependent on wireless communications for safety, particularly due to severe weather.

The Adak service area covers approximately 61,000 acres and consists of that portion of Adak Island that was formerly a United States Naval Complex (roughly, the northern one-half of the island). In 2004, The Aleut Corporation, one of 13 Alaska Native Regional Corporations created under the Alaska Native Claims Settlement Act of 1971 in settlement of aboriginal land claims, purchased Adak land and facilities under a land transfer agreement with the Department of the Interior and the U.S. Navy/Department of Defense. The area includes one of the most important vessel tracking receiving sites in Alaska, and is part of a vessel tracking network to aid safe, secure, efficient and environmentally sound maritime operations in Alaska.⁸ Much of Adak Island is part of the Alaska Maritime National Wildlife Refuge. Based on the most recent United States census data of 2010, Adak has a total population of 326 (the State of Alaska estimates the population at 331). There is also a large number of contractors in Adak who provide various

⁷ See Density, Geographic Characteristics of Study Area at Exhibit 1; *see also* Letter from City Manager of Adak dated March 27, 2012 (“City of Adak Letter”) at Attachment A.

⁸ See Letter from Marine Exchange of Alaska dated March 28, 2012 (“Marine Exchange Letter”) at Attachment A.

critical and governmental services relating to maritime safety, ordinance disposal, environmental remediation, asset evaluation, wildlife preservation, and environmental monitoring.

WCC's wireline affiliate, Adak Eagle Enterprises ("AEE") rebuilt the Island's telecommunications system after it assumed operation of Adak's telephone service. At the time, the telephone plant, which was installed by the military over the course of several decades, was degraded, outdated, and inadequate for long term, reliable provision of regulated local exchange service to customers. As noted by The Aleut Corporation in a letter that is attached hereto in Attachment A, three mid-size and larger telecommunications carriers were also asked to provide service to Adak in 2003, but all declined.⁹ Instead, AEE took on this role when no other carrier was willing to do so, and now provides modern local exchange, broadband, and Internet services in the Adak area through a digital fiber-optic network. All of the personnel that operate WCC's wireless service also work for AEE to provide wireline service to the Adak area. Both AEE and WCC have unmatched knowledge of the local and transient population's needs and are proud to provide quality communications services to Adak. AEE also will be filing a waiver request with respect to the *USF/ICC Transformation Order* in the coming weeks. Without a waiver, AEE will be forced to shut down operations within twelve months.

WCC was certified as an ETC by the Regulatory Commission of Alaska ("RCA") in December 2008. As part of its certification, RCA determined that designating WCC as an ETC served the public interest because, among other reasons, WCC would be able to improve public safety and provide much needed mobile service to underserved and unserved areas in the remote

⁹ See Letter from The Aleut Corporation dated March 28, 2012 ("TAC Letter") at Attachment A.

Adak area.¹⁰ In 2009, WCC launched wireless service on Adak Island through its Downtown Cell Site. Just last year, WCC completed the construction of the White Alice Cell Site which expanded the coverage area toward the harbor and beyond for incoming sea vessels – which has been critical for the Marine Exchange of Alaska, and maritime safety and emergency response.¹¹ The White Alice Cell site also provides coverage for the far side of the Adak Island for environmental researchers and contractors where coverage was previously blocked by mountains. For 2012, WCC had planned to construct the Clam Lagoon Cell Site, projected to cost \$1 million, to enable network redundancy and prevent service interruptions that would otherwise occur if another cell site experienced operational problems, a result that often occurs because of the severe weather in the Adak area. However, in the wake of the *USF/ICC Transformation Order* and its devastating financial impact on WCC, construction was halted.

Since commencing operations on Adak Island, WCC has made substantial investments to support and grow its network and service offerings so that Adak residents and visitors can have increased access to a comprehensive and reliable mobile service, despite Adak's remote location.¹² As a result, WCC is the only wireless carrier that offers wireless service throughout the entire Adak area, including the sea and Aleutian Wilderness. WCC's coverage serves a vital

¹⁰ *Request by WCC Cellular, LLC for Designation as an Eligible Telecommunications Carrier in the Study Area Served by Adak Eagle Enterprises LLC, d/b/a Adak Telephone Utility*, Regulatory Commission of Alaska, U-08-67, ORDER NO.2 (Dec. 3, 2008).

¹¹ See Marine Exchange Letter at Attachment A.

¹² For example, just last year WCC expended funds to enable cellular voice and data traffic backhaul to the outside world, to open a retail location on the Island to help facilitate customer service, to purchase cellular phones and accessories that were broadband capable for texting and accessing the Internet, to expand its handset offerings to provide additional functionality, and to purchase Special Purpose Vehicles that are able to reach the White Alice Site during the repeated snow storms that are a common part of the winter weather on the Island. See WCC's 2011 Annual ETC Report dated March 30, 2012 at Exhibit 14.

role because it includes areas where no other wireline or wireless alternative exists. The wireless service is particularly vital given the distances between points outside downtown and the severe and unpredictable weather conditions. Thus, if WCC were forced to cease operations, groups such as the Marine Exchange of Alaska, government researchers working for the USGS Volcano Observatory and the U.S. Fish and Wildlife Service, subsistence fishermen, subsistence hunters, and other members of the public that venture outside the downtown area or into any areas without a landline option, would be left without any access to voice services and without any ability to communicate, particularly in times of emergency.

II. THE FCC COULD NOT HAVE INTENDED THE RESULT CAUSED BY THE STRICT APPLICATION OF THE ANNUAL CAP FOR THE ADAK AREA.

As reflected above, WCC is committed to providing reliable, comprehensive coverage to the populations, industries and critical government services, including public safety, that reside in Adak, but changes in the funding structure mandated by the *USF/ICC Transformation Order* will make it impossible for WCC to continue. While there are several reforms in *the USF/ICC Transformation Order* that cause WCC concern, the most immediate and catastrophic change is that CETCs are now capped annually at \$3,000 per line (equating to \$250 per line, per month).

This cap explicitly applies to CETCs that are serving remote areas in Alaska:

Interim Support for Remote Areas in Alaska. From January 1, 2012, until December 31, 2013, competitive eligible telecommunications carriers subject to the delayed phase down for remote areas in Alaska shall receive the support, as calculated by the Administrator, each competitive eligible telecommunications carrier would have received under the frozen per-line support amount as of December 31, 2011 capped at \$3,000 per year, provided that the total amount of support for all such competitive eligible telecommunications carriers shall be capped pursuant to subparagraph (A).¹³

¹³ See *USF/ICC Transformation Order*, Final Rule to be codified at 47 C.F.R. § 54.307(e)(v); see also n. 880.

Because the Commission did not provide for a delay or gradual transition in implementing the cap, WCC's disbursement declined in January by 84 percent (from \$136,344 in December 2011 to \$22,356 in January 2012). WCC understands that Adak may be the only community in the United States affected by the cap in this unexpected way. WCC recognizes the Commission's desire to phase down current high-cost funding in order to transition to the Mobility Fund programs, but believes the Commission could not have intended for the annual cap to impose such an immediate, drastic cut on a carrier like WCC.

First, the Commission noted that "[t]here is no indication in the record ... that competitive ETCs need support in excess of \$3,000 per line [per year] to maintain existing service pending transition to the Mobility Fund."¹⁴ However, WCC has been receiving, on average \$1,363 per line, per month to provide wireless service to the people of Adak Island. This substantially higher cost is based on factors that the Commission recognized justifies a flexible approach "to take into account the unique conditions in places like Alaska," such as "remoteness, lack of roads, challenges and costs associated with transporting fuel, lack of scalability per community, satellite and backhaul availability, extreme weather conditions, challenging topography, and short construction season."¹⁵ All of these factors are applicable to Adak. The area is so remote that residents must ship in groceries from Anchorage, which is 1,200 miles away.¹⁶ There are only 16 miles of paved roads in the area – and to reach the cell sites WCC must travel primarily on unpaved, steep, slick and treacherous terrain. It is challenging and expensive to ship in fuel and equipment – a barge arrives once a year, and

¹⁴ *Id.*, ¶ 516.

¹⁵ *Id.*, ¶ 508.

¹⁶ As a point of reference, at the Adak General Store: a ½ gallon of milk costs \$7.99; 16 ounce canned goods are \$4-7 per can; and a gallon of water costs \$15.99.

airplane service is twice per week at best. The area is mountainous, covered in snow for the greater part of the year, covered in fog for much of the summer, has gale winds in all months of the year, and is characterized by extreme and sudden changes in weather.¹⁷

Second, the Commission decided to use a full year of funding to best approximate a carrier's baseline to serve as "a natural starting point for the phase-down of support."¹⁸ Under no circumstances, however, could a baseline which reflects an 84% reduction in funding be considered "a natural starting point" or "a reasonable approximation of the amount that competitive ETCs would currently expect to receive."¹⁹

In addition, the Commission wisely recognized that the unique challenges of serving remote parts of Alaska justify adopting a two-year delay in the phase down of support for such carriers. However, when devising the flash cut annual cap, the Commission failed to appreciate that the very same set of factors that justified a delay in the phase down, are the same ones that necessitate a delay for applying the annual cap to a provider like WCC:

We find persuasive, however, arguments that carriers serving remote parts of Alaska, including Alaska Native villages, should have a slower transition path in order to preserve newly initiated services and facilitate additional investment in still unserved and underserved areas during the national transition to the Mobility Funds. Over 50 remote communities in Alaska have no access to mobile voice service today, and many remote Alaskan communities have access to only 2G services. While carriers serving other parts of Alaska will be subject to the national five-year transition period, we are convinced a more gradual approach is warranted for carriers in remote parts of Alaska. Specifically, in lifting the Covered Locations exception, we delay the beginning of the five-year transition period for a two-year period for remote areas of Alaska. As a result, we expect that ongoing support through the Mobility Fund Phase II, including the Tribal Mobility Fund Phase II, will be implemented prior to the beginning of the five-

¹⁷ See Density, Geographic Characteristics of Study Area at Exhibit 1.

¹⁸ *USF/ICC Transformation Order*, ¶ 515.

¹⁹ *Id.*

year transition period in July 2014 for remote parts of Alaska, providing greater certainty and stability for carriers in these areas. During this two-year period, we establish an interim cap for remote areas of Alaska for high-cost support for competitive ETCs, which balances the need to control the growth in support to competitive ETCs in uncapped areas and the need to provide a more gradual transition for the very remote and very high-cost areas in Alaska to reflect the special circumstances carriers and consumers face in those communities.²⁰

The Commission stated that the phase down's gradual transition period "is desirable in order to avoid shocks to service providers that may result in service disruptions for consumers."²¹ In WCC's case, the immediate imposition of an 84% reduction in funding before the phase down even begins results in the very kind of shock and service disruption that the Commission attempted to avoid by adopting a delayed, gradual approach for other reforms. Moreover, the immediate effective date of the annual cap contradicts one of the Commission's explicit guiding principles from the National Broadband Plan for adopting "Special Access Policies" relating to USF reform:

No flash cuts. New rules should be phased in over a reasonable time period. Policymakers must give service providers and investors time to adjust to a new regulatory regime.²²

While the Commission adhered to this principle in other reforms adopted by the *USF/ICC Transformation Order*, it neglected to apply this important feature when making the annual cap effective only six weeks after the release date. In this case, adopting a flash cut annual cap not only deprived WCC of a reasonable time period "to adjust to a new regulatory regime," but it also made it impossible for WCC to obtain a waiver of the annual cap based on its

²⁰ *Id.*, ¶ 529.

²¹ *Id.*, ¶ 513.

²² Federal Communications Commission, Omnibus Broadband Initiative, Connecting America: The National Broadband Plan, GN Docket No. 09-51, at 143 (2010) ("National Broadband Plan") (emphasis added).

unique circumstances before it was harmed (beginning in January) by the flash cut change in support.

Furthermore, as the Commission correctly points out, its “statutory obligation runs to consumers” and that it “must target limited public funds in a way that expands and sustains the availability of mobile broadband services to maximize consumer benefits.”²³

In this instance, however, if the annual cap is applied to WCC, the public will lose the benefit of the existing comprehensive and reliable WCC wireless access which enables mobile broadband and covers the entire Adak area. Because WCC is the only carrier capable of providing this expanded coverage, if it goes out of business because of the annual cap, the Commission will be responsible for creating new unserved areas in Alaska. Such a result runs directly counter to the Commission’s statutory responsibility and stated goal of ensuring consumers receive supported services.²⁴

To stay true to the goal of “a more gradual transition for the very remote and very high-cost areas in Alaska to reflect the special circumstances carriers and consumers face in those

²³ *USF/ICC Transformation Order*, ¶ 1136. *See also id.* (identifying “Maximize broadband availability” as a guiding principle for adopting special access policies related to USF reform, noting that “[t]he objective should be to maximize the number of households that are served by broadband meeting the National Broadband Availability Target.”); *see also Inquiry Concerning the Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion, and Possible Steps to Accelerate Such Deployment Pursuant to Section 706 of the Telecommunications Act of 1996, as Amended by the Broadband Data Improvement Act; A National Broadband Plan for Our Future*, GN Docket Nos. 09-51, 09-137, Sixth Broadband Deployment Report, FCC 10-129, ¶ 29 (2010) (stating “[t]he goal of the statute, and the standard against which we measure our progress, is universal broadband availability.”); *see also* FCC Creates ‘Connect America Fund’ To Help Extend High-Speed Internet To 18 Million Unserved Americans; Creating Jobs & Increased Consumer Benefits, News Release (Oct. 27, 2011) (stating “the FCC recognizes the growing importance of mobile broadband” making “it an independent universal service objective for the first time in history.”).

²⁴ *See USF/ICC Transformation Order*, ¶ 222.

communities,” the Wireless Telecommunications Bureau (the “Bureau”) should act expeditiously to correct the ongoing harm to WCC and grant this waiver request.

III. GOOD CAUSE EXISTS AND THE PUBLIC INTEREST WILL BE SERVED BY EXEMPTING WCC FROM THE NEW REQUIREMENTS CONTAINED IN SECTION 54.307(e) AND GRANTING THIS WAIVER.

Application of the \$3,000 annual cap to WCC is causing devastating consequences that will quickly undo the tremendous progress that has been made to ensure that Adak Island has a comprehensive and reliable wireless network. Unlike other CETCs in the nation that may have the option of engaging in some belt-tightening measures under the cap while the transition to Mobility Funds is pending, WCC will have no choice but to shut down all operations due to the insurmountable operating costs caused by Adak’s remote area and harsh weather conditions. As a result, if a waiver is not granted: (1) WCC customers will lose service with no terrestrial alternative and roaming ability outside the downtown area; (2) critical services, government functions and public safety will be jeopardized; and (3) WCC will become insolvent, causing the loss of a critical number of jobs for the Adak area.

If the waiver is granted, however, WCC will continue to provide much needed service to this remote area in Alaska, thereby ensuring consumers retain access to service and roaming capabilities, and critical services and public safety functions will be maintained without disruption.²⁵ This result is consistent with the stated objectives of the *USF/ICC Transformation Order*, promotes the public interest, and is justified by the good cause standard.

²⁵ See *id.*, ¶ 1136.

A. Without a Waiver, WCC Customers Will Lose Service With No Terrestrial Alternative and No Roaming Capabilities Outside the Downtown Area.

While it may be true for the rest of the country that “phasing down and transitioning existing competitive support will not create significant or widespread risks that consumers in areas that currently have service, including mobile service, will be left without any viable mobile service provider serving their area,”²⁶ in the case of WCC, the immediate 84% reduction in funding based on the annual cap is expected to put WCC out of business within the next six months. Because WCC is the only CETC capable of providing voice service throughout the entire Adak area, including the sea and the Aleutian Wilderness, this result clearly “put[s] consumers at risk of losing voice service, with no alternative terrestrial providers available” to provide full coverage.²⁷ See Map at Exhibit 2. This is the precise situation that the Commission had in mind when describing the waiver mechanism in its *USF/ICC Transformation Order*.²⁸

Although there is one other wireless carrier operating in the Adak area, Alaska Wireless, its coverage area, limited to downtown, is significantly smaller than WCC’s service area. See Map at Exhibit 2. Although Alaska Wireless had plans to launch a second cell site to expand its coverage and provide the redundancy needed to increase reliability, it never did so. However, with two fully operational cell sites to provide complete coverage to the area as well as some redundancy needed to ensure reliable access throughout the entire Adak area, WCC reaches all households in Adak as well as critical locations at sea and in the Aleutian Wilderness. Wireless

²⁶ *Id.*, ¶ 522.

²⁷ *Id.*, ¶ 32.

²⁸ *See id.*

access in these more remote locations is particularly vital because there is no alternative that has the capability to replace WCC's service.²⁹

As Exhibit 2 demonstrates, if WCC's service shuts down, there will be no wireless service outside the Alaska Wireless coverage area in downtown Adak. WCC's coverage area is twice as large as the coverage provided by Alaska Wireless. Without WCC service, consumers could either subscribe to Alaska Wireless in the downtown area, or subscribe to the wireline solutions offered by AEE. However, as the map indicates, even the AEE coverage area is not as large as the WCC coverage area. Consequently, without WCC, some customers will be completely without terrestrial voice alternatives (either wireline or wireless). Other customers will be able to switch to Alaska Wireless or to wireline service through AEE (if AEE is able to obtain a waiver and continue providing service). Those customers that choose Alaska Wireless service in downtown will not be able to roam throughout the Adak area if WCC goes out of business.

Given the number of contractors and seasonal workers that come to Adak, principally in the remote areas, roaming ability is crucial to ensure voice access to places where no wireline service is available. The Commission specifically stated in the *USF/ICC Transformation Order* that it would "consider as a factor showings regarding the impact on customers, including roaming customers, if a petitioner is the only provider of CDMA or GSM coverage in the affected area" when evaluating waiver requests.³⁰ WCC is the only provider of wireless services outside the downtown area. Thus, if WCC service shuts down, Alaska Wireless and AT&T

²⁹ Moreover, if AEE is also forced to shut down operations, coverage to Adak will be available only to the downtown area, leaving entities such as the Marine Exchange of Alaska and the USGS Volcano Observatory without wireless coverage and phone service.

³⁰ *USF/ICC Transformation Order*, ¶ 540.

customers that visit Adak (AT&T has a roaming agreement with WCC) will not be able to roam in Adak outside the downtown area, and this includes critical services and public safety that operate solely in the more remote areas. Moreover, if AEE is not granted a waiver of the *USF/ICC Transformation Order's* requirements so that it can continue providing service, the only voice alternative that will be left in Adak will be the Alaska Wireless service which is limited to downtown. Here, the loss of roaming ability in one of the most severe and climactically volatile areas of the United States would be catastrophic.

The loss of service due to the immediate application of the annual cap, both to current customers in remote areas and other consumers who rely on roaming availability, runs directly counter to the Commission's goal of ensuring telecommunications access available to all. A waiver is necessary and should be granted promptly.

B. Without a Waiver, Critical Services, Government Functions and Public Safety Will Be Jeopardized.

In addition to providing the public with essential, life-preserving access to emergency responders, WCC is the only provider of wireless services to critical infrastructure, government functions and public safety entities in the Adak area. Letters from several of these entities, including The Marine Exchange, The Aleut Corporation, and the City of Adak, are attached at Attachment A. As explained by The Aleut Corporation, an Alaska Native Regional Corporation whose shareholders are primarily of Aleut descent, without a waiver the entire Adak area will be in jeopardy:

Without a waiver, the consequences of the FCC Order on AEE and WCC will be felt by nearly the entire island of Adak, including TAC [The Aleut Corporation] and its subsidiaries [which provide fuel to the area], and critical government entities including the U.S. Fish and Wildlife Service, The City of Adak, the Marine Exchange (which is responsible for monitoring fishing vessels in the Bering Sea and the Pacific Ocean), the USGS Albuquerque Seismological Laboratory, and the Alaska Volcano Observatory, as well as government

contractors, tourists, hunters and fisherman. The overall safety, growth and economic development of this remote island will be jeopardized.³¹

Last year, WCC completed the construction of the White Alice Cell Site which expanded its wireless coverage area toward the harbor and beyond for incoming sea vessels. Deployment of this site was critical for the Marine Exchange of Alaska, maritime safety and emergency response.³² The White Alice Cell site also provides coverage for the far side of the Adak Island for environmental researchers and contractors where coverage was previously blocked by mountains. The Marine Exchange of Alaska and Captain Edward E. Page of the U.S. Coast Guard (Retired), offers a helpful perspective on the critical nature of WCC's services for maritime safety:

The Marine Exchange of Alaska . . . has developed a comprehensive vessel tracking network throughout Alaska to aid safe, secure, efficient and environmentally sound maritime operations. One of our most important vessel tracking AIS (Automatic Identification System) receiving sites in Alaska is located in Adak on the White Alice location. This tracking system is relied on by the Coast Guard, State of Alaska and the maritime community to aid maritime safety and emergency response. The operation of this vessel tracking . . . is very dependent on the power and internet connectivity that AEE and Windy City provide. If the FCC Transformation Order is not reversed for Adak, the future of this vessel tracking system is in jeopardy as is the future of the community itself which certainly is not in the best interests of our country.³³

The City of Adak also has weighed in about the need for WCC's service and expertise with respect to an E-911 system for the Adak area.

With the recent arrival of Icicle Seafoods in the community, as well as recognizing other opportunities that have begun to materialize on Adak Island, the City has acknowledged that its 911 system needs to be severely improved . . . The City has reached a point where the existing 911 system has been fully maximized and is not capable of further expansion. To the extent practical, we have sought

³¹ TAC Letter at Attachment A.

³² See Marine Exchange Letter at Attachment A.

³³ *Id.*

to integrate WCC's cellular network in order to provide for E-911 services, however the City lacks the institutional knowledge of newer 911 systems . . . [911 service] is essential, especially as we are inside of an extremely active volcanic, earthquake and severe weather zone. Due to the severity, there are times the City cannot monitor certain areas of town or its facilities. We have sought to utilize the WCC network to start utilizing remote monitoring, yet efforts to stymie the operations of [AEE and WCC] threatens to undermine the city's ability to efficiently deploy staff and resources.³⁴

In addition to The Aleut Corporation, the Marine Exchange, and the City of Adak, WCC provides essential wireless services to the Coast Guard, the U.S. Fish and Wildlife Service, and the USGS Albuquerque Seismological Laboratory which are engaged in environmental remediation, wildlife preservation, and public safety. WCC also provides wireless service to the following:

- The Alaska Volcano Observatory (AVO), which is a joint program of the USGS, the Geophysical Institute of the University of Alaska Fairbanks (UAFGI), and the State of Alaska Division of Geological and Geophysical Surveys (ADGGS). AVO uses federal, state, and university resources to monitor and study Alaska's hazardous volcanoes, to predict and record eruptive activity, and to mitigate volcanic hazards to life and property by providing timely and accurate information on volcanic hazards, and warnings of impending dangerous activity, to local, state, and federal officials and the public.
- The TAC fueling port and crew transfer facility for foreign fishing fleets.
- Icicle Seafood, which runs and operates the fish processing on the island, a primary employer and economic source for the Adak area.
- Alaska Airlines

If WCC is not granted a waiver, the consequences for the foregoing critical services, industries, governmental entities, public safety resources and industrial enterprises in the Adak area will be devastating.³⁵

Equally serious are the public safety consequences for residents of Adak if WCC service is shut down. WCC is the sole provider of wireless services beyond the downtown Adak area,

³⁴ City of Adak Letter at Attachment A.

³⁵ *See id.*

including the sea and the wilderness where subsistence hunting and fishing primarily occurs. Currently, WCC subscribers in these remote areas can access emergency services by dialing 911 on their handset. The emergency call is routed through WCC's soft switch to the local Public Safety Answering Point ("PSAP") on Adak Island. However, if WCC is no longer able to provide wireless service, no voice service, including emergency calls, will be possible from these locations. In rural Alaska, the connection to emergency services can be the difference between life and death.

WCC is a model example for how USF support has been used to successfully turn a remote island with no hope of mobile access, into an area where essential, life-preserving access to wireless service is possible, whether downtown, in the wilderness, or out at sea. The wireless access provided by WCC is the underpinning for important public safety functions, research endeavors, jobs, and day-to-day living for the Adak area. For all of these reasons, good cause exists for the Bureau to grant this waiver request.

C. Without a Waiver, WCC will become Insolvent and Critical Jobs In The Adak Area Will Be Lost.

The Commission specifically stated in the *USF/ICC Transformation Order* that it would consider whether its reforms would cause a carrier to become insolvent when determining the necessity for a waiver.³⁶ Without a waiver of the annual cap, WCC predicts it will run out of money within six months and will, therefore, be unable to continue providing service.

If WCC becomes insolvent, not only will its wireless service cease, but the wireline service provided by WCC's affiliate, AEE, will suffer. WCC and AEE each rely on the same small staff, which is shared between the companies. If WCC is forced to go out of business, AEE will not be able to afford the full cost of keeping shared employees. AEE will have no

³⁶ *USF/ICC Transformation Order*, ¶ 540.

choice but to cut its already lean workforce of 13 employees down to 8 employees – a 1/3 reduction in workforce. As the City of Adak noted in its letter of support:

We expect that [WCC and AEE] would collectively be driven into bankruptcy within 12 months, impacting the Rural Utilities Service (“RUS”) fund by forcing default on loans extended to AEE. Furthermore, at least six (6) people on Adak Island, compris[ed] of highly skilled individuals, will be terminated which will result in a significant hit to the local economy. This community can ill afford another setback to community development and sustainability.³⁷

Clearly, the consequences of applying the cap to WCC, without a waiver, are far reaching for the Adak area, and good cause exists for the Bureau to expeditiously grant this waiver request.

IV. GRANTING WCC’S WAIVER REQUEST IS NECESSARY TO ENSURE THAT THE ADMINISTRATIVE PROCEDURE ACT AND PRINCIPLES OF FAIRNESS AND DUE PROCESS ARE NOT VIOLATED.

The Commission created an expedited waiver program to address situations where “specific proposals have a *disproportionate or inequitable impact* on any carriers (wireline or wireless) serving Alaska.”³⁸ As previously explained, granting WCC’s waiver request will avoid the demise of WCC and loss of vital communications services to consumers in the Adak area. Moreover, as discussed below, granting WCC’s waiver request is also necessary to ensure that the Administrative Procedure Act (APA) and principles of fairness and due process are not violated.

A. The Proposed Rule Failed to Provide Adequate Notice and Opportunity for Comment Regarding the \$3,000 Cap.

Under the APA, an agency may make changes in its proposed rules, but only where such changes are a “logical outgrowth” of the proposal. “In order for a final rule to be a ‘logical outgrowth’ of a proposal, however, the agency must have provided proper notice of the proposal.

³⁷ See City of Adak letter at Attachment A.

³⁸ USF/ICC Transformation Order, ¶ 508 (emphasis added).

The necessary predicate ... is that the agency has alerted interested parties to the possibility of the agency's adopting a rule different than the one proposed."³⁹

Here, the Commission's proposed rule described transitioning CETC support to the CAF by reducing the interim cap on CETC support in five equal installments, with the initial 20 percent reduction to occur in 2012.⁴⁰ Further, the Commission sought comments regarding the creation of a waiver process, including "any information that would permit the Commission to identify any areas in which consumers would not have access to mobile service as a result of a uniform transition of [CETC] funding to the CAF."⁴¹ No mention was made of a baseline support amount or specific cap amount that would be implemented.

In the *USF/ICC Transformation Order*, the Commission adopted a "baseline support amount," capped annually at \$3,000 per reported line.⁴² The proposed rule lacked even a hint of the cap and, as a consequence, the Commission failed to meet the "logical outgrowth" standard for its final rule. More specifically, here, the Commission's rulemaking process did not "alert interested parties," such as WCC, of the possibility that it may adopt such a rule, especially one that could put those in very unique circumstances out of business in just a few months. Thus, because the Commission failed to provide adequate notice, implementation of the service-ending

³⁹ *Sprint Corp. v. FCC*, 315 F.3d 369, 375-76 (D.C. Cir. 2003) (internal quotations omitted).

⁴⁰ *Connect America Fund et al.*, WC Docket No. 10-90 et al., Report and Order and Further Notice of Proposed Rulemaking, FCC 11-13, 26 FCC Rcd 4554, ¶ 248 (2011) ("Proposed Rule").

⁴¹ *Id.*, ¶¶ 250-54.

⁴² *USF/ICC Transformation Order*, ¶ 515.

\$3,000 cap does not pass muster under the APA's notice and comment requirements.⁴³ Granting WCC's request for waiver will rectify the lack of notice.

B. By Failing To Consider Relevant Factors During Its Rulemaking, the Commission Acted In a Manner That is Arbitrary and Capricious In Applying the \$3,000 Cap To High-Cost Entities Serving Remote Areas, Such As WCC.

It is a longstanding tenet of administrative law that an agency must consider all the "relevant factors" when taking action to avoid a court finding that it has acted in a manner that is "arbitrary and capricious," under Section 706(2)(A) of the APA. For example, in the seminal *Citizens to Preserve Overton Park v. Volpe* case,⁴⁴ the Supreme Court held that in addition to examining an agency's statutory authority, a reviewing court must consider "whether the decision was based on a consideration of the relevant factors and whether there has been a clear error of judgment."⁴⁵ Further, in *Florida Power & Light Co. v. Lorion*, the Court held that an agency action should typically be remanded, if the "agency has not considered all relevant factors."⁴⁶

Here, the Commission undoubtedly invested significant time and resources in developing the \$3,000 cap. However, for the reasons described above, it is unfathomable that it was the Commission's intent to put carriers such as WCC that serve remote, high-cost areas out of business (*See* Section II herein) or to create new unserved areas. Under these circumstances, it is reasonable to conclude that the Commission simply did not take into account or was not aware of

⁴³ 5 U.S.C. § 553(b).

⁴⁴ 401 U.S. 402 (1971).

⁴⁵ *Id.* at 416.

⁴⁶ 470 U.S. 729, 744 (1985).

certain relevant factors, specifically the facts and circumstances leading to the extreme and immediate impact on very unique carriers, like WCC, when developing the cap.

This apparent failure to consider all the relevant factors associated with setting the \$3,000 cap means that the Commission's action may be deemed arbitrary and capricious under Section 706(2)(A) of the APA. Conversely, the Commission's utilization of a waiver process, as requested here, can address the unique situation presented by Adak and avoid a potentially time-consuming and costly remand.

C. As Applied To WCC, the \$3,000 Cap Violates Principles of Fairness and Due Process.

The immediate and high impact imposition of the cap violates principles of fairness and due process in the case of WCC and Adak. In its proposed rule, the Commission described a 20% annual decrease in funding over five years. But when the rule was finalized, WCC was hit with an immediate 84% decrease in support. This material and unexpected change in the transition plan is patently unfair and violates traditional principles of due process, especially for a small organization of limited resources that is serving a remote and insular Alaska community. As described above, WCC has played by the rules, provides valuable service to the entire Adak community, built and provided communications service as required by the RCA and the FCC, and met its obligations under the pertinent federal and state regulations.

WCC understands the need to reconsider its strategies in light of a changing universal service support picture, but WCC and its customers on a remote Alaskan island now stand at the brink of disaster. With forethought and wisdom, the Commission anticipated such extreme circumstances and provided for a fair resolution through individual waivers. WCC's dire situation is just the type anticipated by the Commission. Granting WCC's request for a waiver will avoid an unfair and inequitable result – the stated intent and purpose for such waivers.

V. REQUESTED RELIEF

Waiver is justified in this case because, as the *USF/ICC Order* provides, WCC “can demonstrate that the reduction in existing high-cost support would put consumers at risk of losing voice service, with no alternative terrestrial providers available to provide voice telephony.”⁴⁷ Without question, imposition of Section 54.307(e) under these circumstances will create new unserved areas and roaming service gaps, will impose a hardship on WCC and the population of Adak Island, and will cause an end result that is at odds with the Commission's universal service and wireless goals to make more mobile wireless service available, especially in remote areas, for the general population and for public safety.

A. WCC Is Entitled to Expedited Review.

The Commission created an expedited waiver program to address WCC's particular situation in which a specific reform has “a disproportionate or inequitable impact” on a carrier serving Alaska.⁴⁸ Because WCC has very significant fixed costs associated with the need for extensive investment to provide modern telecommunications to the remote area of Adak, there is no amount of cost cutting that can bring costs in line with the drastic revenue reduction from the FCC's reforms. Moreover, customers cannot be expected to pay the extreme rates that would be required to make up the shortfall. The cost to each customer of the wireless voice and data service offered by WCC would have to increase by \$885 per month just to cover WCC's operating expenses. This is prohibitive. The harm to WCC caused by the annual cap is exacerbated by the fact that the Commission did not provide for a delay or gradual transition in its implementation, as it did for other reforms. As already mentioned, WCC's disbursement

⁴⁷ *USF/ICC Transformation Order*, ¶ 32.

⁴⁸ *Id.*, ¶ 508

declined by 84 percent (from \$136,344 in December 2011 to \$22,356 in January 2012) the first month after the annual cap took effect. As a result, without a waiver, WCC anticipates that its wireless service on Adak will shut down within the next six months. It is urgent that this waiver request be resolved expeditiously.

B. Granting a Waiver That is Limited in Time and Support Level Will Allow WCC to Continue Service During the Transition and Is Consistent With Commission Objectives.

WCC has ceased its efforts to provide a more reliable service due to the changed regulatory landscape, and it will no longer construct an additional cell site at Clam Lagoon to provide network redundancy and mitigate signal degradation caused by the notoriously harsh weather of the Adak area. However, more critically, the massive and immediate reduction in monthly support will force current operations to cease altogether. Without grant of a limited waiver, all of WCC's efforts to build and maintain a modern wireless telecommunications system in the remote and insular Adak area will come to a grinding halt and substantial portions of the Adak area will become unserved. Furthermore, if WCC is forced to cease operations, a tremendous amount of resources and investment dollars will be wasted. WCC has consistently made substantial investments to increase redundancy and expand coverage in the Adak area. WCC's second cell site, White Alice, which has been operational for only a few months, was built at substantial cost to achieve these long-term goals. Yet, without a waiver, this just-built site, along with all of WCC's other investments made to increase consumer access and service in Adak, will become unused and wasted.

As noted, WCC is requesting a waiver that is limited in two respects. First, it seeks waiver of the cap only until the Commission transitions to the Connect America Fund ("CAF") programs so that it can remain operational at current levels. Specifically, WCC only needs some

portion of the USF support it was previously receiving until Phase II Mobility Funds are disbursed, not indefinitely.

Second, WCC understands the Commission's desire to move away from the identical support rule and is therefore not seeking a waiver to allow it to receive the same the amount of USF it was previously receiving.⁴⁹ Furthermore, as evidenced by its work stoppage for Clam Lagoon, WCC is not looking for support above the cap "to expand deployment and service offerings to new areas."⁵⁰ Instead, WCC is requesting, for a limited period of time, only the amount of support that is necessary to cover its operating expenses less its revenues, to maintain the sites it already operates to provide wireless service to Adak residents, workers, and visitors, and to ensure critical services and public safety are not jeopardized. Specifically, WCC seeks support of \$880.09 per line, per month, which is approximately half of what WCC had been receiving under the identical support rule. The annual amount of support sought represents a five-year average of what WCC will need each year to receive a return on its ratebase and cover its operating expenses, depreciation expenses and taxes. In calculating this figure, WCC used a 10% return on investment as the return element in the development of the revenue requirement. From the total revenue requirement, the revenues generated from customers sales and service were used to lower the support amount necessary for WCC to stay in business.

As demonstrated by the financial forecast in Exhibits 7 and 8, this level of recovery does not allow WCC to act in any of the ways the Commission has prohibited in the USF/ICC Transformation Order, such as to over earn or store excess cash for additional plant investment. Instead, WCC is merely requesting recovery of the frozen revenue requirement until the details

⁴⁹ *Id.*, ¶ 278.

⁵⁰ *Id.*, ¶ 523.

of Mobility Phase II funding are confirmed and WCC can determine the CAF support it will be eligible to receive under the new recovery mechanism. Significantly, this means that even if WCC is able to increase line counts, WCC will receive no more money from the Universal Service Fund.⁵¹ This formula sets a predictable revenue recovery level going forward with the built-in assurance that WCC will not be earning more than is necessary to keep its business afloat and to secure the existing needed cell coverage for customers in the Adak area.

WCC hopes its effort to comply with the Commission's expectations by requesting a time-limited and support-limited waiver to maintain only the current level of service, will allow the Bureau to grant the requested waiver quickly.

VI. CONCLUSION

For all the reasons stated in this Petition, the Bureau should expeditiously grant WCC's request for waiver of the annual cap for interim support for remote areas of Alaska.

An expedited waiver of the \$3,000 annual cap is necessary to ensure that WCC can continue its essential wireless operations that provide the residents, workers, and visitors of the insular, weather-challenged Adak area access to comprehensive, reliable voice service. Without the waiver, wireless service in Adak will be limited to the downtown area only, while the most remote areas in Adak where telecommunications service is critical - including at sea and the Aleutian Wilderness - will be without voice service altogether.

The Commission could not have intended to set back the tremendous progress that has been made with USF support to provide the people in Adak with critical voice service by imposing a cap that would force the only wireless carrier operating outside the downtown area to

⁵¹ Any increase in line count will only drive the cost per line down, not the total revenue recovery up.

go out of business. Instead, the Commission failed to consider WCC's unique situation in which its annual expenses substantially exceed \$3,000 per line due to the unavoidably high operating costs of providing service in the remote, inhospitable Adak area.

As this petition demonstrates and the attached exhibits support, good cause exists and the public would be served by the Bureau's grant of WCC's requested waiver. Without the waiver, the consequences for this insular area will be devastating and inconsistent with Commission objectives: (1) WCC customers will lose service within six months with no terrestrial alternative and no roaming capabilities outside the downtown area; (2) critical services, government functions and public safety will be jeopardized; and (3) WCC will become insolvent and critical jobs in the Adak area will be lost. Moreover, the immediate imposition of the annual cap contradicts one of the Commission's guiding principles from the National Broadband Plan that new USF rules should be "phased in over time" to provide service providers and investors an opportunity to adjust. Furthermore, given the lack of notice concerning the \$3,000 cap, along with the immediate imposition of the cap, the requested waiver is necessary to ensure that the APA and principles of fairness and due process are not violated and to cure the "disproportionate or inequitable impact" the cap is already having on WCC.

By expeditiously granting a waiver that is limited in both time and level of support, the Bureau will balance the Commission's goal of reducing funding levels based on the inefficiencies in the current USF system with the needs of a carrier serving a remote, insular area in Alaska to receive support higher than the \$3,000 cap simply to stay afloat until it can access funds under Phase II of the Mobility Fund.

Respectfully submitted,

/s/

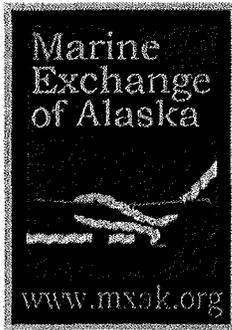
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Counsel to Windy City Cellular, LLC

Dated: April 3, 2012

Letters of Support

Attachment A



Safe, Secure, Efficient and Environmentally Responsible Maritime Operations

1000 Harbor Way, Suite 204, Juneau, Alaska 99801

Ph: (907) 463-2607 Fax: (800) 682-2898

March 28, 2012

Mr. Larry Mayes
President/ CEO
Adak Eagle Enterprises

Ms. Andilea Weaver
Vice President/ COO

Dear Mr. Mayes and Ms. Weaver,

I'm writing to offer my support for Adak Eagle Enterprises LLC dba Adak Telephone Utility ("AEE") and Windy City Cellular LLC in obtaining a reversal of the Federal Communications Commission's "*USF/ICC Transformation Order*" that if implemented will have a serious negative impact on the community of Adak as well as on maritime safety.

The Marine Exchange of Alaska is a non-profit maritime organization that has developed a comprehensive vessel tracking network throughout Alaska to aid safe, secure, efficient and environmentally sound maritime operations. One of our most important vessel tracking AIS (Automatic Identification System) receiving sites in Alaska is located in Adak on the White Alice location. This tracking system is relied on by the Coast Guard, State of Alaska and the maritime community to aid maritime safety and emergency response. The operation of this vessel tracking that tracks vessels up to 100+ miles offshore is very dependent on the power and internet connectivity that AEE and Windy City provide. If the FCC Transformation Order is not reversed for Adak, the future of this vessel tracking system is in jeopardy as is the future of the community itself which certainly is not in the best interests of our country.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Page", is written over a horizontal line.

Captain Edward E. Page, U.S. Coast Guard (Retired)
Executive Director
Marine Exchange of Alaska



March 28, 2012

Marlene H. Dortch, Secretary
 Federal Communications Commission
 Office of the Secretary
 445 12th Street, SW
 Room TW-A325
 Washington, DC 20554

The Aleut Corporation ("TAC") is a for-profit corporation with approximately 3,410 Alaska Native shareholders primarily of Aleut descent originating in the Alaska Peninsula, Aleutian Islands, Pribilof Islands, and Shumagin Islands of Alaska. TAC is one of Alaska Native Regional Corporations created under the Alaska Native Claims Settlement Act of 1971 ("ANCSA") in settlement of aboriginal land claims. It was incorporated on June 21, 1972 and is headquartered in Anchorage, Alaska.

The island of Adak has had a US military presence since 1942 and, at its peak, had a population of over 6,000 people. Adak Naval Air Station continued to be a military base during the Cold War, but was designated a Base Realignment and Closure ("BRAC") site in 1995 and closed in March 1997. In March 2004, TAC purchased Adak's land and facilities under a land transfer agreement with the Department of the Interior and the U.S. Navy/Department of Defense. TAC also owns a number of subsidiary companies that operate on Adak Island, including a fuel farm with over 20 million gallons of storage, commercial and residential properties, and the Adak Inn (Hotel).

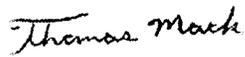
In 2003, TAC asked three mid-size and larger telecommunication organizations to provide service on Adak, but all three organizations declined. Adak Eagle Enterprises LLC ("AEE") now provides Adak Island the modern communications services it needs in order to survive and thrive. Through its affiliate, Windy City Cellular LLC ("WCC"), mobile wireless service is available throughout the island. These services have been made possible through support from the Universal Service Fund ("USF"), and in the case of AEE, a loan from the United States Department of Agriculture Rural Utilities Service ("RUS"). All of TAC's companies rely on the telecommunications services provided by AEE and WCC.

TAC is aware that the Federal Communications Commission ("FCC") adopted an Order to reform the USF rules which went into effect for all wireless carriers in January 2012 and will go into effect for all Wireline carriers in July 2012. As a result of the changes in funding levels prescribed by this Order, TAC has been informed by AEE and WCC that each company will have to stop all new projects and that it is likely that WCC will be out of business within six months and AEE will cease operations within two years unless each is granted a waiver by the FCC.

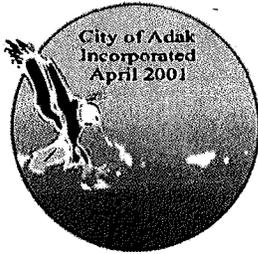
Without a waiver, the consequences of the FCC Order on AEE and WCC will be felt by nearly the entire island of Adak, including TAC and its subsidiaries, and critical government entities including the U.S. Fish and Wildlife Service, The City of Adak, the Marine Exchange (which is responsible for monitoring fishing vessels in the Bering Sea and the Pacific Ocean), the USGS Albuquerque Seismological Laboratory, and the Alaska Volcano Observatory, as well as government contractors, tourists, hunters, and fishermen. The overall safety, growth and economic development of this remote island will be jeopardized.

Adak is a very young, rural community that needs substantial help to grow in order to off-set the high cost of operating in such a remote area with extreme weather conditions. We respectfully urge the FCC to please take into consideration the unique factors involved in servicing an area like Adak and to grant the requested waivers to AEE and WCC. These waivers will allow the Adak community to continue to have access to the reliable telecommunications services that are necessary for it to grow and be safe.

Sincerely,

A handwritten signature in cursive script that reads "Thomas Mack".

Thomas Mack, President
Aleut Corporation



City of Adak

P.O. Box 2011 • Adak, Alaska 99546
 (907) 592-4500 • Fax: (907) 592-4262

March 27, 2012

Marlene H. Dortch, Secretary
 Federal Communications Commission
 Office of the Secretary
 445 12th Street, SW
 Room TW-A325
 Washington, DC 20554

RE: Impact of Recent Universal Service Support in Adak, Alaska

Dear Ms. Dortch:

As the local government for the island and community of Adak, Alaska, on behalf of the City I have begun to educate myself on the changes of Universal Service Support that our community currently receives through our primary telecommunications provider, Adak Eagle Enterprises (“AEE”). As you may be familiar AEE and its affiliate Windy City Cellular (“WCC”) provide local exchange, broadband and Internet services in Adak. We are concerned of the impact that recent regulatory changes by the Federal Communications Commission (“FCC”) will have on the provision of telecommunications services in our community.

The City is aware that in the FCC’s recent *Report and Order* issued November 18, 2011,¹ (referred to as the “*USF/ICC Transformation Order*”), your agency adopted rules that profoundly alter federal Universal Service Fund (“USF”) support for carriers that provide telecommunications services in rural, high-cost areas of the country. As you are aware, Adak is one of the most remote, isolated, and climatically inhospitable communities in the United States. The cost of providing modern telecommunications here is commensurately high. Federal USF support has been essential to AEE’s ability to provide telecommunications services and access the capital required to install modern telecommunications infrastructure in Adak. This support is critical to provide affordable, modern telecommunications services to the community. The reforms announced by the FCC in the *USF/ICC Transformation Order* will drastically reduce the amount of support the Companies will receive. Due to the extremely high costs of providing services in Adak, the effect of the FCC’s new rules will be felt more strongly in the community than any other place in the nation. Unless the Companies are able to obtain waivers of the new rules or the relevant portions of the *USF/ICC Transformation Order* are reversed on appeal, we fear the Companies will not be able to continue to provide service on Adak. We expect that the Companies would collectively be driven into bankruptcy within 12 months, impacting the Rural Utilities Service (“RUS”) fund by forcing default on loans extended to AEE. Furthermore, at least six (6) people on Adak Island, comprising of highly skilled individuals, will be terminated which will result in a significant hit to the local economy. This community can ill afford

¹ *In the Matter of Connect America Fund*, WC Docket No. 10-90, et al., Report and Order FCC 11-161, adopted on October 27, 2011 and released on November 18, 2011.

another setback to community development and sustainability. The City and community members have fought over and over for the last five years to fix long standing issues that prevented the growth of the economy of Adak. Over the last 12 months, the City and other entities have worked together more than ever to seek opportunities to develop commerce and community sustainability yet has received more and more pressure from the federal government to overcome obstacles that seem akin to torture. Not only has the FCC, in this order, made severe changes without recognizing the needs of rural Alaska communities, Adak has faced new obstacles and challenges from the National Marine Fisheries Service, seeking to close important fisheries around Adak Island. The United States Department of Transportation is at this time also seeking to impose severe limitations to transportation services by pressuring Alaska Airlines to succumb to a lower performing airline in order to obtain what is an obscure vision of "lower cost".

Adak was originally a Naval Air Facility that closed during the Base Realignment and Closure process in 1997 and was turned over as property to the Aleut Corporation, the area's regional native corporation to develop the island and turn Adak into a community. At the time of transfer the island's basic infrastructure including but not limited the water, sewer, electrical and telecommunications systems were determined to be deficient and in severe need for upgrading. Of all these items, only the telecommunications systems have been upgraded, wholly due to AEE's ability to secure USF funding and RUS loans.

AEE was able to secure approximately \$6.2 million in loans from the United States Department of Agriculture, Rural Utility Service to fund the costs necessary for the provision of adequate and reliable local exchange service, including the establishment of a fiber optic distribution system. AEE, in obtaining these loans, properly considered anticipated USF support revenues. In good measure, RUS conditioned approval of the loans on AEE obtaining waivers to allow it to receive USF funding immediately, rather than with a two-year lag under existing historical cost rules. Therefore, not only were USF revenues considered in planning the needed replacement of facilities on Adak, the government lenders **required** AEE be able to immediately receive USF support as a condition of providing financing for the necessary replacement of Adak's inadequate telecommunications system. When AEE received the funding in June 2006, the company was able to construct and complete installation by November 2006, an extremely rare feat, especially in rural Alaska. This upgraded system allows for provisioning of advanced services such as 911, E-911 capability, caller ID, call waiting, call forwarding and other advanced services, including Broadband and Internet capacity.

In 2008, WCC began providing cellular telecommunications in Adak after obtaining FCC approval to complete construction and provide service. USF funding was relied upon on to construct and maintain the Downtown cellular tower, a key component of the cellular system. Last summer, WCC constructed a second cellular tower in a location that better expanded service and allowed for the start of triangulation, a key component in being able to expand public safety services in and around Adak Island. To date over \$2 million has been invested in this system without obtaining additional financing, a formidable feat to maintain a balanced leverage ratio. It is important to note that prior to WCC, no cellular service was provided on Adak and though there is another cellular provider on Adak, their service is extremely limited and is not controlled from Adak, rather Dutch Harbor, almost 400 miles away. Furthermore, it should be noted in constructing the second tower at White Alice, WCC employed 10 local people to construct the site and bring it online while also completing the installation in one construction season.

With the recent arrival of Icicle Seafoods in the community, as well as recognizing other opportunities that have begun to materialize on Adak Island, the City has acknowledged that its 911 system needs to be severally improved. The City currently relies on the AEE network to provide switching and routing capabilities to Public Safety staff in order to provide emergency services. The City has reached a point where the existing 911 system has been fully maximized and is not capable of further expansion. To the extent practical, we have sought to integrate WCC's cellular network in order to provide for E-911 services, however the City lacks the institutional knowledge of newer 911 systems.

The staff of the Companies provides above average community service to Adak. It should be noted that their dedication to the community is unparalleled in terms of personal hours and resources dedicated to those less fortunate. The Companies have helped the new City administration, to the extent practical and possible, to become efficient while integrating best telecommunications practices. In 2011, their staff consulted and assisted the City in developing a new corporate network that has allowed the City to internalize server storage, electronic mail as well as provide for secure, automatic, off-site backup in order to ensure continuity of government. They have also begun assisting the City in obtaining proper E-911 equipment in order to provide the best emergency service possible. This service is essential, especially as we are inside of an extremely active volcanic, earthquake and severe weather zone. Due to the severity, there are times the City cannot monitor certain areas of town or its facilities. We have sought to utilize the WCC network to start utilizing remote monitoring, yet efforts to stymie the operations of the Companies threatens to undermine the City's ability to efficiently deploy staff and resources.

Moreover, the City is concerned about the impact of taxpayers in and outside of Adak. While the idea of reduced government subsidies is in everyone's best interest over the long-term, the success of investments should be given a chance to be realized. Given RUS determined that the necessity of USF funding for construction of the AEE telecommunications network, one would assume that elements of the same Federal government would understand the impacts to each other before subjecting those affected to severe situations which would result in ultimate losses to the Federal government. It is reasonable to expect that RUS will not forgive the loans and the FCC will continue to mandate capital expenditures in operating telecommunications networks, yet expects firms to find areas to cut expenditures, expecting firms like the Companies to have overabundance when there is none.

AEE's business plans and financing arrangements were premised on adequate USF support based on AEE's costs. Currently, AEE receives monthly high-cost support of approximately \$1,400.00 per line. The *USF/ICC Transformation Order* adopted regulations providing for a per-line monthly cap of \$250 per line, to be implemented beginning on July 1, 2012 and phased in over a two-year period.

For WCC, the impact is even more dramatic. As a competitive wireless carrier, WCC received support under the so-call identical support rule, which provides support based on the incumbent carrier's (in this case AEE's) costs. The *USF/ICC Transformation Order* eliminates the identical support rule, to be implemented beginning (for Alaska) in two years and phased out over the five year period following. Of more immediate concern, however, is that competitive wireless carriers are subject to capped annual support of \$3,000 annually per-line (equating to \$250 per month), but with no delayed effective date and no phase-in period. Apparently, Adak is the only community in the United States affected by this rule. As a result, it has come to our attention that WCC's disbursements

for January 2012, the first month after the effective date of the *USF/ICC Transformation Order*, were only **16 percent** of the expected disbursements.

As the Companies have very significant fixed costs associated with the need for extensive investment to provide modern telecommunications to Adak, no amount of cost cutting can bring costs in line with the drastic revenue reduction from the FCC's reforms. Nor can our citizens, AEE's clients, be expected to pay the extreme rates that would be required to make up the shortfall. The City would be unable to afford the service at the extreme rates necessary under the FCC's reforms. If the FCC's reforms set forth in the *USF/ICC Transformation Order* are applied as written, as mentioned previously, the Companies could be driven to bankruptcy within 12 months.

In addition, the City is quite concerned that the order is being processed ambiguously and in selective pieces. Most concerning is that at this point there seems to be no component in funding broadband services until at least 2015. If the Companies cannot survive that long, the mission of this order will be lost on the community of not only Adak, but other communities in Alaska.

In reviewing the Regulatory Commission of Alaska's comments to the FCC, there was mention of the allowance of satellite technology for backup or backhaul capability. As the Regulatory Commission mentioned, **most** communities in Alaska, including Adak, are only able to utilize satellite technology for telecommunications outside the communities. In fact AEE has attempted to develop a regional fiber optic network that would allow for primary traffic that Adak and other communities could use to connect to other fiber networks. As recently as two years ago a proposal was made and subsequently rejected with no consideration of a partial system. If companies like AEE cannot be allowed to develop these primary alternatives, then the communities are forced to utilize satellite providers, who increasingly are raising rates and moving satellites to areas they decide will generate more profit.

In closing, we support our local Companies in their efforts to obtain waivers of the new rules. If AEE is forced into bankruptcy there is absolutely no guarantee another firm will move into Adak and provide service. When the Adak assets were previously made available to firms like General Communications, Inc. and AT&T Alascom, these carriers declined to take over service in Adak. The City is aware that this same situation is currently occurring on Shemya Island with the potential departure of AT&T Alascom. Consequently, the City is in no position to intervene and operate a telecommunications company and does not have the desire to do so. In either case, the failure of AEE or WCC would result in greater losses to taxpayers than by granting the waivers sought by the Companies.

We appreciate your consideration of our comments and thank you for your time. If you have any questions regarding our comments please feel free to contact me at (907) 592-4500.

Sincerely,



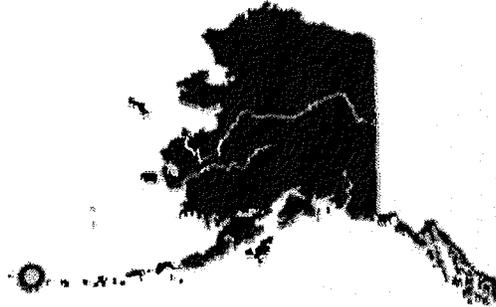
Layton J. Lockett
City Manager
City of Adak, Alaska

Density, Geographic Characteristics of Study Area

Exhibit 1

Alaska Community Database Community Information Summaries (CIS)

State of Alaska > Commerce > DCRA Home Page > Community Database Online > CIS > Results



Adak

(A-dack); formerly Adak Station

For Photos of Adak click here

Current Population:	331 (2011 Alaska Department of Labor Estimate)
Incorporation Type:	2nd Class City
Located In:	Aleutians West Census Area
Taxes:	Sales: 4%, Property: None, Special: 5% Transient Lodging Tax

Location and Climate

Adak is located on Kuluk Bay on Adak Island. It lies 1,300 miles southwest of Anchorage and 350 miles west of Unalaska or its port Dutch Harbor in the Aleutian Island Chain. Flight time to Anchorage is three hours. Adak is the southern-most community in Alaska, on the latitude of Vancouver Island in Canada. The community lies at approximately 51.872500° North Latitude and -176.628610° West Longitude. (Sec. 10, T096S, R195W, Seward Meridian.) Adak is located in the Aleutian Islands Recording District. The area encompasses 122.4 sq. miles of land and 4.9 sq. miles of water.

Topographic
map of
Adak
area

Adak lies in the maritime climate zone, characterized by persistently overcast skies, high winds, and frequent cyclonic storms. Winter squalls produce wind gusts in excess of 100 knots. During the summer, extensive fog forms over the Bering Sea and North Pacific. Average temperatures range from 20 to 60 °F. Total precipitation is 64 inches annually, with an average accumulated snowfall of 100 inches.

TopoZone.com

History, Culture and Demographics

The Aleutian Islands were historically occupied by the Unangas. The once heavily-populated island was eventually abandoned in the early 1800s, as the Aleutian Island hunters followed the Russian fur trade eastward, and famine set in on the Andreanof Island group. The Native population continued to actively hunt and fish around the island over the years, until World War II broke out. Adak's military installations allowed U.S. forces to mount a successful offensive against the Japanese-held islands of Kiska and Attu. After the war, Adak was developed as a Naval Air Station, playing an important role during the Cold War as a submarine surveillance center. Large earthquakes rocked the island in 1957, 1964, and 1977. The naval station officially closed on March 31, 1997. The Aleut Corporation acquired Adak's facilities under a land transfer agreement with the Department of the Interior and the U.S. Navy branch of the Department of Defense. In 2001, a community formed as a second-class city.

After World War II, the U.S. Navy developed facilities and recreation opportunities at Adak. The base was a full service base. At its peak, the station housed 6,000 naval personnel and their families. As of 2009, all of naval installations were closed. Ownership of the facilities passed to the Aleut Corporation and the City of Adak.

According to Census 2010, there were 500 housing units in the community and 44 were occupied. Its population was 5.5 percent American Indian or Alaska Native; 19.6 percent white; 4 percent black; 52.5 percent Asian; 1.5 percent Pacific Islander; 10.7 percent of the local residents had multi-racial backgrounds. Additionally, 8.9 percent of the population was of Hispanic decent.

Facilities, Utilities, Schools and Health Care

Water is derived from Lake Bonnie Rose, Lake De Marie, and Nurses Creek, stored in any of the seven water tanks throughout the community, and piped to facilities and housing units. The wastewater treatment system discharges through a marine outfall line to Kuluk Bay. Husky Road landfill is a class III permitted landfill. Electricity is provided by City of Adak. There is one school located in the community, attended by 20 students. Local hospitals or health clinics include Adak Medical Clinic. Adak Medical Center is a qualified Emergency Care Center and Primary Health Care facility. The clinic is staffed by a physician's assistant and provides emergency care family practice and referral services. Lab pharmacy and public health services are available. Adak is an isolated town/sub-regional center located in the Southern EMS Region. Emergency Services have coastal and airport access to Adak. Auxiliary health care is provided by Adak Volunteer Fire Dept. (907-592-4513).

Economy

Adak provides a fueling port and crew transfer facility for foreign fishing fleets, and an airport, docks, housing facilities, restaurant, grocery store, and ship supply store are available. The seafood processing facility can process more than 5,000 pounds of fish per day. In 2010, two residents held commercial fishing permits.

The 2006-2010 American Community Survey (ACS) estimated 39¹ residents as employed. The local unemployment rate was 2.5%¹. The percentage of workers not in labor force was 9.1%¹. The ACS surveys established that average median household income (in 2010 inflation-adjusted dollars) was \$75,417 (MOE +/- \$30,563)¹. The per capita income (in 2010 inflation-adjusted dollars) was \$36,947 (MOE +/- \$10,869)¹. About 1.7%¹ of all residents had incomes below the poverty level.

¹ All ACS statistics are published with their respective margin of error (MOE). Some of the statistics here are calculated from the original ACS data. The MOE was unable to be carried through the calculations.

For additional ACS information please click [here](#).

For current Local Labor Market Information please click [here](#)

Transportation

Adak Airport is a State of Alaska owned & maintained certificated airport. It has two asphalt paved runways; one measures 7,790' long by 200' wide, and the other runway measures 7,605' by 200' wide. Alaska Airlines operates passenger and cargo jet service. There are three deep water docks and fueling facilities. In 2009, the city was in the process of expanding the Sweeper Cove small boat harbor to include new breakwaters, a 315' dock, and new moorage floats. Adak has approximately 16 miles of paved roads, as well as gravel and dirt roads.

Organizations with Local Offices

City - City of Adak
P.O. Box 2011
Adak, AK 99546
Phone 907-592-4500
Fax 907-592-4262
E-mail clerk@adak-ak.gov; Manager@adak-ak.gov
Web www.adak-ak.us

Electric Utility - TDX Adak Generating LLC
10082 Hillside Blvd
Adak, AK 99546
Phone 907-592-2490
Fax 907-592-4262
E-mail serviceTAG@tdxpower.com

School District - Aleutian Region School District
P.O. Box 92230
Anchorage, AK 99509

Phone 907-277-2648
Fax 907-277-2649
E-mail aleutreg@aleutregion.org
Web <http://www.aleutregion.org>

Regional Organizations

School District - Aleutian Region School District
P.O. Box 92230
Anchorage, AK 99509
Phone 907-277-2648
Fax 907-277-2649
E-mail aleutreg@aleutregion.org
Web <http://www.aleutregion.org>

Regional Native Health Corporation - Aleutian Pribilof Islands Association, Incorporated
1131 E. International Airport Rd.
Anchorage, AK 99518
Phone 907-276-2700
Fax 907-279-4351
E-mail apiai@apiai.org
Web <http://www.apiai.org>

Native Housing Authority - Aleutian Housing Authority
520 E. 32nd Ave
Anchorage, AK 99503
Phone 907-563-2146
Fax 907-563-3105
E-mail dand@aleutian-housing.com
Web <http://www.aleutian-housing.com/>

Regional Development - Southwest Alaska Municipal Conference
3300 Arctic Blvd., Suite 203
Anchorage, 99503
Phone 907-562-7380
Fax 907-562-0438
E-mail avarner@swamc.org
Web <http://www.swamc.org>

Services Webmaster

Adak, Alaska

From Wikipedia, the free encyclopedia

Adak (ⓘ[ⓘ] /ˈeɪdæk/), formerly **Adak Station**, is a city in the Aleutians West Census Area, Alaska, United States. At the 2010 census the population was 326. It is the westernmost municipality in the United States and the southernmost city in Alaska.^[1] (See Extreme points of the United States.) The city is the former location of the Adak Army Base and Adak Naval Operating Base, NavFac Adak. There are no radio stations within 200 miles (320 km) of Adak; radio can be received in Adak only through satellite or shortwave receivers.

Contents

- 1 Location and climate
- 2 History and culture
- 3 Demographics
- 4 Utilities, schools, and health care
- 5 Facilities, economy and transportation
- 6 Tourism
- 7 Education
- 8 References
- 9 External links

Location and climate

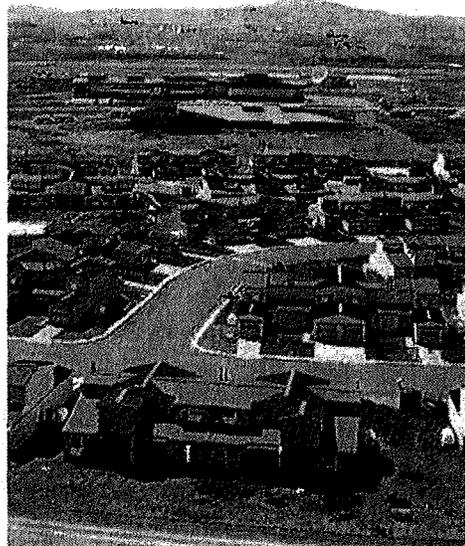
Adak is located at 51.872° North, 176.636° West (Sec. 10, T096S, R195W, Seward Meridian).^[2] Adak is located in the Aleutian Islands Recording District, and the 3rd Judicial District.

According to the U.S. Census Bureau, the city has a total area of 127.3 square miles (330 km²), of which, 122.4 square miles (317 km²) of it is land and 4.9 square miles (13 km²) of it (3.87%) is water.

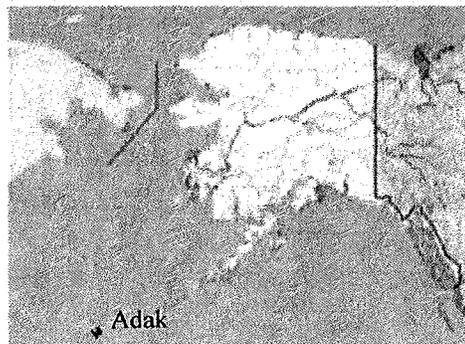
Adak is located on Kuluk Bay on Adak Island in the Andreanof Islands group of the Aleutian Islands. It lies 1,200 miles (1,930 km) southwest of Anchorage and 450 miles (724 km) west of Dutch Harbor, near the Russian end of the arc that

Adak

— CDP —



Adak



Location in Alaska

Coordinates: 51°53′0″N 176°38′42″W

Country	United States
State	Alaska
Census Area	Aleutians West
Area	
• Total	127.3 sq mi (329.7 km ²)
• Land	122.4 sq mi (316.9 km ²)
• Water	4.9 sq mi (12.8 km ²)

makes up this volcanic island chain. Flight time to Anchorage is three hours or longer depending on weather. Adak is the southern-most community in Alaska and on the same latitude as Vancouver Island in Canada, and Brussels, Belgium.

Adak lies in the subpolar oceanic climate zone, characterized by persistently overcast skies, moderated temperatures, high winds, and frequent cyclonic storms. Winter squalls produce wind gusts in excess of 100 knots (120 mph; 190 km/h). During the summer, extensive fog forms over the Bering Sea and North Pacific. Average temperatures range from 20 to 60 °F (-7 to 16 °C), but wind chill factors can be severe. Total precipitation is 64 inches (1,600 mm) annually, with an average accumulated snowfall of 100 inches (2,500 mm), which however tends to melt soon after falling. With 263 rainy days per year, Adak has the second highest number of any inhabited locality in the United States after Hilo in Hawaii.

Elevation	164 ft (50 m)
Population (2010)	
• Total	326
Time zone	Hawaii-Aleutian (HST) (UTC-10)
• Summer (DST)	HDT (UTC-9)
ZIP code	99546
Area code(s)	907
FIPS code	02-00065

History and culture

The Aleutian Islands were historically occupied by the Unanga, more commonly known now as the Aleuts. The once heavily-populated island was eventually abandoned in the early 19th century as the Aleutian Island hunters followed the Russian fur trade eastward, and famine set in on the Andreanof Island group. However, they continued to actively hunt and fish around the island over the years, until World War II broke out. Adak Army installations allowed U.S. forces to mount a successful offensive against the Japanese-held islands of Kiska and Attu. After the war, Adak was developed as a naval air station, playing an important role during the Cold War as a submarine surveillance center. Large earthquakes rocked the island in 1957, 1964 and 1977.

At its peak, the station housed over 6,000 naval and Coast Guard personnel and their families. In 1994, the base was downsized, and both family housing and schools were closed. The station officially closed on March 31, 1997. The Aleut Corporation purchased Adak's facilities under a land transfer agreement with the Department of the Interior and the U.S. Navy/Department of Defense. This agreement was finalized in March, 2004. About 30 families with children relocated to Adak in September 1998, most of them Aleut Corp. shareholders, and the former high school was reopened at that time as a K-12 institution. The community incorporated as a second-class city in April 2001. Substantially all of the infrastructure and facilities on Adak are owned by Aleut Corporation, who is currently developing Adak as a commercial center via their subsidiary companies. For example, properties in active use are leased by Adak Commercial Properties, LLC.

Since World War II, the U.S. Navy and Coast Guard developed facilities and recreation opportunities at Adak. At its peak, Adak had a college, a McDonalds restaurant, movie theater, roller skating rink, swimming pool, ski lodge, bowling alleys, skeet range, auto hobby shop, photo lab, and racquetball and tennis courts. A new \$18-million hospital was built in 1990, just seven years prior to the closure of the station. By March 2003, six years after the closure of the station, most of these facilities had closed. For a time, Adak became a virtual ghost town. In recent years, trespassing and vandalism have been problematic for the Aleut Corp. The harsh Aleutian wind and weather have all but destroyed the majority of facilities remaining on Adak that are not in active use.

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Record high °F (°C)	50 (10)	51 (11)	51 (11)	56 (13)	65 (18)	67 (19)	73 (23)	75 (24)	71 (22)	61 (16)	57 (14)	55 (13)	75 (24)
Average high °F (°C)	37.2 (2.9)	37.0 (2.8)	38.6 (3.7)	41.3 (5.2)	45.1 (7.3)	49.1 (9.5)	54.0 (12.2)	55.8 (13.2)	52.3 (11.3)	46.9 (8.3)	41.4 (5.2)	38.0 (3.3)	44.7 (7.1)
Average low °F (°C)	28.9 (−1.7)	28.5 (−1.9)	30.1 (−1.1)	32.9 (0.5)	36.6 (2.6)	40.8 (4.9)	44.7 (7.1)	46.6 (8.1)	43.6 (6.4)	38.2 (3.4)	33.0 (0.6)	29.9 (−1.2)	36.2 (2.3)
Record low °F (°C)	3 (−16)	3 (−16)	12 (−11)	20 (−7)	20 (−7)	29 (−2)	33 (1)	34 (1)	28 (−2)	22 (−6)	12 (−11)	8 (−13)	3 (−16)
Precipitation inches (mm)	6.74 (171.2)	5.43 (137.9)	6.14 (156)	4.33 (110)	4.84 (122.9)	3.34 (84.8)	2.99 (75.9)	4.30 (109.2)	5.52 (140.2)	7.00 (177.8)	7.33 (186.2)	7.66 (194.6)	65.62 (1,666.7)
Snowfall inches (cm)	18.1 (46)	18.4 (46.7)	20.1 (51.1)	10.0 (25.4)	1.5 (3.8)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (0.3)	1.5 (3.8)	10.4 (26.4)	19.3 (49)	99.4 (252.5)
Avg. precipitation days (≥ 0.01 inch)	24	22	25	22	22	17	16	19	21	25	25	25	263

Source: WRCC^[3]

Demographics

As of the census^[5] of 2000, there were 316 people, 159 households, and 61 families residing in the city. The population density was 2.6 people per square mile (1.0/km²). There were 884 housing units at an average density of 7.2 per square mile (2.8/km²). The racial makeup of the city was 49.68% White, 1.27% Black or African American, 35.13% Native American, 9.81% Asian, 1.90% Pacific Islander, and 2.22% from two or more races. 5.06% of the population were Hispanic or Latino of any race.

Historical populations

Census	Pop.	%±
1970	2,249	—
1980	3,315	47.4%
1990	4,633	39.8%
2000	316	−93.2%
2010	326	3.2%

There were 159 households out of which 18.2% had children under the age of 18 living with them, 28.9% were married couples living together, 2.5% had a female householder with no husband present, and 61.6% were non-families. 46.5% of all households were made up of individuals and none had someone living alone who was 65 years of age or older. The average household size was 1.99 and the average family size was 2.90.

In the city the population was spread out with 18.7% under the age of 18, 9.5% from 18 to 24, 44.3% from 25 to 44, 26.3% from 45 to 64, and 1.3% who were 65 years of age or older. The median age was 35 years. For every 100 females there were 184.7 males. For every 100 females age 18 and over, there were 188.8 males.

The median income for a household in the city was \$52,727, and the median income for a family was \$53,889. Males had a median income of \$46,429 versus \$35,000 for females. The per capita income for the city was \$31,747. About 3.3% of families and 4.7% of the population were below the poverty line, none of whom were under the age of eighteen or over the age of sixty-five.

Utilities, schools, and health care

Water is derived from Lake Bonnie Rose, Lake De Marie, and Nurses Creek, stored in seven water tanks throughout the community, and piped to facilities and housing units. The wastewater treatment system discharges through a marine outfall line to Kuluk Bay. The permitted landfill, Roberts Landfill, is a Class 2 with balefill. Electricity is provided by TDX Adak. There is one school located in the community, attended by 18 students.

Local hospitals or health clinics include Adak Community Health Center, managed by Eastern Aleutian Tribes, Inc (EAT). The health center provides Family Medicine, Chronic Care and Acute Emergency Care services and is staffed by a physician's assistant and a community health practitioner. Behavioral Health is also provided via tele-video and quarterly site visits. EAT sends a Dentist one week per year to provide limited dental services, otherwise, dental services must be referred outside of Adak. Tele-Radiology(Xray)and Tele-Medicine are also present. Limited lab, pharmacy, and public health services are also available. The pharmacy medications are limited to acute medications. Filling of prescriptions from outside facilities can be accommodated. However, all visitors should bring plenty of their own medications as the health center stocks a very limited supply of chronic medications. Adak is classified as an isolated town/sub-regional center, located in EMS Region 2H in the Aleutian/Pribilof Region. Emergency Services have coastal and airport access to Adak. Auxiliary health care is provided by Adak Volunteer Fire Department/EMS.

Facilities, economy and transportation

A land exchange between Aleut Corp., the U.S. Navy, and the Department of the Interior transferred most of the former naval facilities to the Aleut Corp. in March 2004. A portion of the island remains within the Alaska Maritime National Wildlife Refuge, managed by the United States Fish and Wildlife Service. The U.S. Navy retains part of the north end of Adak Island (Parcel 4) and does annual sweeps of the Andrew Lake Seawall for unexploded ordnance. Their website lists the Institutional Controls in place for all of Adak as part of the land exchange or Interim Conveyance. The Navy provides the trail maps as part of the ordnance awareness information required to be shown to all Adak residents and visitors. Adak currently provides a fueling port and crew transfer facility for a combination of Seattle and Alaskan based fishing fleet — an airport, docks, housing facilities, restaurant, grocery, and ship supply store are available. Adak Fisheries, LLC, an employer of a large seasonal staff, processes Pacific cod, pollock, mackerel, halibut, snow and king crabs. Four residents hold commercial fishing permits, primarily for groundfish. However, commercial fishing vessels based out of Seattle and other parts of Alaska provide most of the work for the fish plant by regularly offloading their catch in Adak.

Because of its naval aviation past, Adak has an unusually large and sophisticated airport for the Aleutian Islands. The airport is currently operated by the State of Alaska Department of Transportation. Complete with an Instrument Landing System, Adak Airport has no control tower and two 200' wide asphalt paved runways at 19' elevation. One runway measures 7,790' long while the other runway measures 7,605'. Alaska Airlines operates twice weekly 737-400 Combi passenger and cargo jet service from Anchorage. At present, flights operate each Sunday and Thursday (weather permitting). Occasionally, extra seasonal flights are operated to meet the demand of the fishing season. Other facilities in Adak include three deep water docks and fueling facilities. The city has requested funds to greatly expand the Sweeper Cove small boat harbor, including new breakwaters, a 315-foot (96 m) dock and new moorage floats. There are approximately 16 miles (26 km) of paved and primitive roads on Adak, all privately owned by the Aleut Corporation.

The Aleut are also seeking to develop the water system which has been well maintained and designed for a larger Naval population as an export industry.

Tourism

Land use permits are required for all non-residents visiting Aleut Corporation land. Permits can be obtained from the Aleut Enterprise LLC office in Anchorage, or from the Harbormaster at the Port of Adak.

Aleutian Housing Authority (AHA) is the only provider of lodging on Adak, and offers both long-term and short-term accommodations in former Naval officer housing. Housing units are heated, furnished, and include local telephone and cable TV service. It is advisable to make reservations in advance.

The cabins once maintained within the Alaska Maritime National Wildlife Refuge have fallen into disrepair and are unsafe to occupy. The cabin at Three Arm Bay sits on an archaeological site that was transferred to the Aleut Corporation, and is no longer available for rental to the general public.

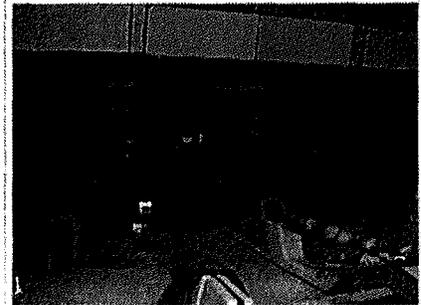
Camping is possible without a permit on Alaska Maritime National Wildlife Refuge lands, but is generally not recommended due to the harsh climate. The wind on Adak is highly variable and often unpredictable. Gusts can exceed 100 knots (190 km/h) or more (the record speed is unknown because the wind ripped the anemometer off of the tower). During the calmer summer months, sustained wind speeds average in the low double digits gusting to 50 knots (93 km/h) or more.

Adak offers 16 miles (26 km) of paved and gravel roads. These can be explored on foot, by bicycle, or by renting a truck. There is only one vehicle rental business on Adak.

Hunting and fishing are bountiful sports in Adak. Hunters particularly prize Adak caribou, the largest of which can exceed 700 pounds. There is no bag limit for cows, but in 2007, the Board of Game passed new regulations for bulls. If you want to get to the South end of the island where the majority of the caribou are there are currently two licensed local boat charter services - Aleutian Adventure Tours and Homeward Bound Charters. Anglers can find large to enormous halibut in the Kagalaska Straits. Hunters must possess an Alaska state hunting license and a harvest ticket for each animal taken. Non-residents of Alaska must also possess the appropriate big game tag. Anglers require a sport fishing license. All areas of the island with roads are owned by the Aleut Corporation, and a special permit is required for all non-residents accessing this private property. No ATVs are permitted within the wildlife refuge and the Aleut Corporation only allows ATVs on the roads and trails - not on the tundra. Under Alaska state law, wastage is illegal.

Audubon enthusiasts generally do not consider Adak as exciting as Attu. That being said, the high winds are a blessing for birders; many vagrants from Asia and elsewhere can be spotted. Indigenous (but often rare) shore birds abound, and eagles are ubiquitous. Visitors not insistent upon scoring "First North America" sightings will find plenty of variety to enjoy.

Developed trails are limited and most are not maintained. It is possible to hike on the tundra, but visitors are advised both to prepare for frequent weather changes and to never hike alone.



At Kuluk Bowl for bowling August 2007

Nightlife and dining opportunities are few on Adak. The Aleutian Sports Bar and Grill (aka ASBAG) is located in the former VFW hall. In addition to a fully licensed bar, ASBAG offers a typical bar menu. Across town is a liquor store. Adak General Store operates out of the former Housing Community Center, as does the Cold Rock Cafe which is open for breakfast and lunch during weekdays only. The bowling alley (Kuluk Bowl), as of 2009, opens for summers only.

Education

Adak is served by the Aleutian Region Schools.

The Adak School serves grades K-12.

References

- [^] Attu Station, Alaska is technically east and is not incorporated.
 - [^] "US Gazetteer files: 2010, 2000, and 1990" (<http://www.census.gov/geo/www/gazetteer/gazette.html>) . United States Census Bureau. 2011-02-12. <http://www.census.gov/geo/www/gazetteer/gazette.html>. Retrieved 2011-04-23.
 - [^] "ADAK, ALASKA (500026)" (<http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?akadak>) (PDF). Western Regional Climate Centre. May 2011. <http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?akadak>. Retrieved 2011-10-31.
 - [^] "Census Of Population And Housing" (<http://www.census.gov/prod/www/abs/decennial/index.htm>) . U.S. Census Bureau. Archived (<http://web.archive.org/web/20110414033021/http://www.census.gov/prod/www/abs/decennial/index.htm>) from the original on 14 April 2011. <http://www.census.gov/prod/www/abs/decennial/index.htm>. Retrieved 2011-04-26.
 - [^] "American FactFinder" (<http://factfinder.census.gov>) . United States Census Bureau. <http://factfinder.census.gov>. Retrieved 2008-01-31.
- State of Alaska, Division of Community Advocacy, Community Information Summary (http://www.commerce.state.ak.us/dca/commdb/CIS.cfm?Comm_Boro_Name=Adak)
 - Aleut Corporation's official Adak page (<http://www.adakisland.com/>)
 - Adak Maps (<http://climate.gi.alaska.edu/history/aleutians/adak.html>)
 - Community Photos (http://www.commerce.state.ak.us/dca/photos/comm_photos.cfm?comm=Adak)
 - Fish and Wildlife Service information for Adak hunters (<http://alaskamaritime.fws.gov/visitors-educators/caribhunting/adak.htm>)
 - US Navy site documenting Adak environmental hazards (<http://www.adakupdate.com/>)
 - Alaska Journal: Aleut seek to export Adak Water (http://www.alaskajournal.com/stories/082010/loc_adw.shtml)

External links

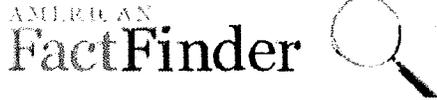
- Article and pictures of visit to Adak July 2006 by retired Navy veteran (<http://navycthistory.com/adakhoyt01.html>)
- Narrative travelogue of Adak trip taken August, 2006 (<http://www.tprophet.org/dialtone/adak.htm>)
- Pictures of Adak taken August, 2006 (<http://www.tprophet.org/alaska2006/adak/>)
- Marine Barracks Adak (http://www.geocities.com/kwajsurf/Marine_Barracks_Adak_Alaska.html) (Archived (<http://www.webcitation.org/query?id=1256430686471312>) 2009-10-25)

- Photographs of Adak from 1944 from many contributors. (<http://www.orn.gov/4228>)^{176.636°W}
- Adak Memoirs (<http://www.adakmemoirs.com>) Memoirs and photos of Adak wanted to preserve history, Nov 2011]

Retrieved from "http://en.wikipedia.org/w/index.php?title=Adak,_Alaska&oldid=483475940"

Categories: [Populated places in Aleutians West Census Area, Alaska](#) | [Cities in Alaska](#)

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DP-1

Profile of General Population and Housing Characteristics: 2010

2010 Demographic Profile Data

NOTE: For more information on confidentiality protection, nonsampling error, and definitions, see <http://www.census.gov/prod/cen2010/doc/dpsf.pdf>.

Geography: Adak city, Alaska

Subject	Number	Percent
SEX AND AGE		
Total population	326	100.0
Under 5 years	13	4.0
5 to 9 years	16	4.9
10 to 14 years	5	1.5
15 to 19 years	2	0.6
20 to 24 years	17	5.2
25 to 29 years	23	7.1
30 to 34 years	25	7.7
35 to 39 years	27	8.3
40 to 44 years	33	10.1
45 to 49 years	39	12.0
50 to 54 years	33	10.1
55 to 59 years	39	12.0
60 to 64 years	36	11.0
65 to 69 years	13	4.0
70 to 74 years	5	1.5
75 to 79 years	0	0.0
80 to 84 years	0	0.0
85 years and over	0	0.0
Median age (years)	45.5	(X)
16 years and over	291	89.3
18 years and over	291	89.3
21 years and over	287	88.0
62 years and over	38	11.7
65 years and over	18	5.5
Male population	199	61.0
Under 5 years	6	1.8
5 to 9 years	11	3.4
10 to 14 years	1	0.3
15 to 19 years	2	0.6
20 to 24 years	6	1.8
25 to 29 years	14	4.3
30 to 34 years	16	4.9
35 to 39 years	12	3.7
40 to 44 years	22	6.7
45 to 49 years	19	5.8
50 to 54 years	25	7.7
55 to 59 years	25	7.7
60 to 64 years	26	8.0
65 to 69 years	9	2.8
70 to 74 years	5	1.5
75 to 79 years	0	0.0
80 to 84 years	0	0.0
85 years and over	0	0.0

Subject	Number	Percent
Median age (years)	48.5	(X)
16 years and over	180	55.2
18 years and over	180	55.2
21 years and over	176	54.0
62 years and over	31	9.5
65 years and over	14	4.3
Female population	127	39.0
Under 5 years	7	2.1
5 to 9 years	5	1.5
10 to 14 years	4	1.2
15 to 19 years	0	0.0
20 to 24 years	11	3.4
25 to 29 years	9	2.8
30 to 34 years	9	2.8
35 to 39 years	15	4.6
40 to 44 years	11	3.4
45 to 49 years	20	6.1
50 to 54 years	8	2.5
55 to 59 years	14	4.3
60 to 64 years	10	3.1
65 to 69 years	4	1.2
70 to 74 years	0	0.0
75 to 79 years	0	0.0
80 to 84 years	0	0.0
85 years and over	0	0.0
Median age (years)	40.7	(X)
16 years and over	111	34.0
18 years and over	111	34.0
21 years and over	111	34.0
62 years and over	7	2.1
65 years and over	4	1.2
RACE		
Total population	326	100.0
One Race	291	89.3
White	64	19.6
Black or African American	13	4.0
American Indian and Alaska Native	18	5.5
Asian	171	52.5
Asian Indian	3	0.9
Chinese	2	0.6
Filipino	159	48.8
Japanese	0	0.0
Korean	0	0.0
Vietnamese	3	0.9
Other Asian [1]	4	1.2
Native Hawaiian and Other Pacific Islander	5	1.5
Native Hawaiian	0	0.0
Guamanian or Chamorro	0	0.0
Samoan	5	1.5
Other Pacific Islander [2]	0	0.0
Some Other Race	20	6.1
Two or More Races	35	10.7
White; American Indian and Alaska Native [3]	22	6.7
White; Asian [3]	0	0.0
White; Black or African American [3]	0	0.0
White; Some Other Race [3]	0	0.0
Race alone or in combination with one or more other races: [4]		
White	90	27.6
Black or African American	13	4.0
American Indian and Alaska Native	46	14.1

Subject	Number	Percent
Asian	178	54.6
Native Hawaiian and Other Pacific Islander	10	3.1
Some Other Race	28	8.6
HISPANIC OR LATINO		
Total population	326	100.0
Hispanic or Latino (of any race)	29	8.9
Mexican	29	8.9
Puerto Rican	0	0.0
Cuban	0	0.0
Other Hispanic or Latino [5]	0	0.0
Not Hispanic or Latino	297	91.1
HISPANIC OR LATINO AND RACE		
Total population	326	100.0
Hispanic or Latino	29	8.9
White alone	5	1.5
Black or African American alone	0	0.0
American Indian and Alaska Native alone	0	0.0
Asian alone	0	0.0
Native Hawaiian and Other Pacific Islander alone	0	0.0
Some Other Race alone	20	6.1
Two or More Races	4	1.2
Not Hispanic or Latino	297	91.1
White alone	59	18.1
Black or African American alone	13	4.0
American Indian and Alaska Native alone	18	5.5
Asian alone	171	52.5
Native Hawaiian and Other Pacific Islander alone	5	1.5
Some Other Race alone	0	0.0
Two or More Races	31	9.5
RELATIONSHIP		
Total population	326	100.0
In households	109	33.4
Householder	44	13.5
Spouse [6]	20	6.1
Child	33	10.1
Own child under 18 years	31	9.5
Other relatives	0	0.0
Under 18 years	0	0.0
65 years and over	0	0.0
Nonrelatives	12	3.7
Under 18 years	4	1.2
65 years and over	0	0.0
Unmarried partner	4	1.2
In group quarters	217	66.6
Institutionalized population	0	0.0
Male	0	0.0
Female	0	0.0
Noninstitutionalized population	217	66.6
Male	143	43.9
Female	74	22.7
HOUSEHOLDS BY TYPE		
Total households	44	100.0
Family households (families) [7]	26	59.1
With own children under 18 years	14	31.8
Husband-wife family	20	45.5
With own children under 18 years	9	20.5
Male householder, no wife present	2	4.5
With own children under 18 years	2	4.5
Female householder, no husband present	4	9.1
With own children under 18 years	3	6.8

Subject	Number	Percent
Nonfamily households [7]	18	40.9
Householder living alone	15	34.1
Male	9	20.5
65 years and over	1	2.3
Female	6	13.6
65 years and over	0	0.0
Households with individuals under 18 years	14	31.8
Households with individuals 65 years and over	3	6.8
Average household size	2.48	(X)
Average family size [7]	3.04	(X)
HOUSING OCCUPANCY		
Total housing units	500	100.0
Occupied housing units	44	8.8
Vacant housing units	456	91.2
For rent	20	4.0
Rented, not occupied	2	0.4
For sale only	39	7.8
Sold, not occupied	182	36.4
For seasonal, recreational, or occasional use	33	6.6
All other vacants	180	36.0
Homeowner vacancy rate (percent) [8]	15.5	(X)
Rental vacancy rate (percent) [9]	55.6	(X)
HOUSING TENURE		
Occupied housing units	44	100.0
Owner-occupied housing units	30	68.2
Population in owner-occupied housing units	75	(X)
Average household size of owner-occupied units	2.50	(X)
Renter-occupied housing units	14	31.8
Population in renter-occupied housing units	34	(X)
Average household size of renter-occupied units	2.43	(X)

X Not applicable.

[1] Other Asian alone, or two or more Asian categories.

[2] Other Pacific Islander alone, or two or more Native Hawaiian and Other Pacific Islander categories.

[3] One of the four most commonly reported multiple-race combinations nationwide in Census 2000.

[4] In combination with one or more of the other races listed. The six numbers may add to more than the total population, and the six percentages may add to more than 100 percent because individuals may report more than one race.

[5] This category is composed of people whose origins are from the Dominican Republic, Spain, and Spanish-speaking Central or South American countries. It also includes general origin responses such as "Latino" or "Hispanic."

[6] "Spouse" represents spouse of the householder. It does not reflect all spouses in a household. Responses of "same-sex spouse" were edited during processing to "unmarried partner."

[7] "Family households" consist of a householder and one or more other people related to the householder by birth, marriage, or adoption. They do not include same-sex married couples even if the marriage was performed in a state issuing marriage certificates for same-sex couples. Same-sex couple households are included in the family households category if there is at least one additional person related to the householder by birth or adoption. Same-sex couple households with no relatives of the householder present are tabulated in nonfamily households. "Nonfamily households" consist of people living alone and households which do not have any members related to the householder.

[8] The homeowner vacancy rate is the proportion of the homeowner inventory that is vacant "for sale." It is computed by dividing the total number of vacant units "for sale only" by the sum of owner-occupied units, vacant units that are "for sale only," and vacant units that have been sold but not yet occupied; and then multiplying by 100.

[9] The rental vacancy rate is the proportion of the rental inventory that is vacant "for rent." It is computed by dividing the total number of vacant units "for rent" by the sum of the renter-occupied units, vacant units that are "for rent," and vacant units that have been rented but not yet occupied; and then multiplying by 100.

Source: U.S. Census Bureau, 2010 Census.

Description of Density Characteristics and Subscribership Levels

Windy City Cellular ("WCC") and Windy City Broadband ("WCB") Total Number of Customers (as of 12/31/2011):

WCC: 80 customers
WCB: 51 customers

Square Mile Characteristics

Total Square Miles: 127.3 square miles
Population Density: 2.6 people per square mile
Subscribers Per Square Mile
WCC: 1.59 subscribers per mile
WCB: 2.5 subscribers per mile

Road Mile Characteristics

Paved Miles: 16 miles
Unpaved Miles: 44 miles
Total Road Miles 60 miles
Subscribers Per Road Mile
WCC: .75 subscribers per road mile
WCB: .85 subscribers per road mile

Information Regarding Lack of Alternative Providers

Exhibit 2

Explanation of Map

This Map shows the coverage area of the three carriers that provide service to the Adak Area.

- The small red circle represents the Alaska Wireless coverage area for its wireless service. The area inside the circle is downtown Adak.
- The area inside the black hash marks represents the Adak Eagle Enterprises service area in which it provides wireline local exchange service.
- The green area represents the WCC wireless service area.

Please Note:

The area in green outside of the red circle represents the area in which WCC is the only provider of wireless service.

The area in green outside of both the red circle and the black hash marks represents the area in which WCC is the only provider of terrestrial voice service, taking into consideration all wireline and wireless options for the Adak area.

Two versions of the map are included, presenting different views of the same service area. One map provides a close-up view of the service area, and the other map provides a view from a greater distance so that the Commission can see the entire geography of the area.

**ADAK ISLAND
TOTAL CELLULAR
COVERAGE AREA**

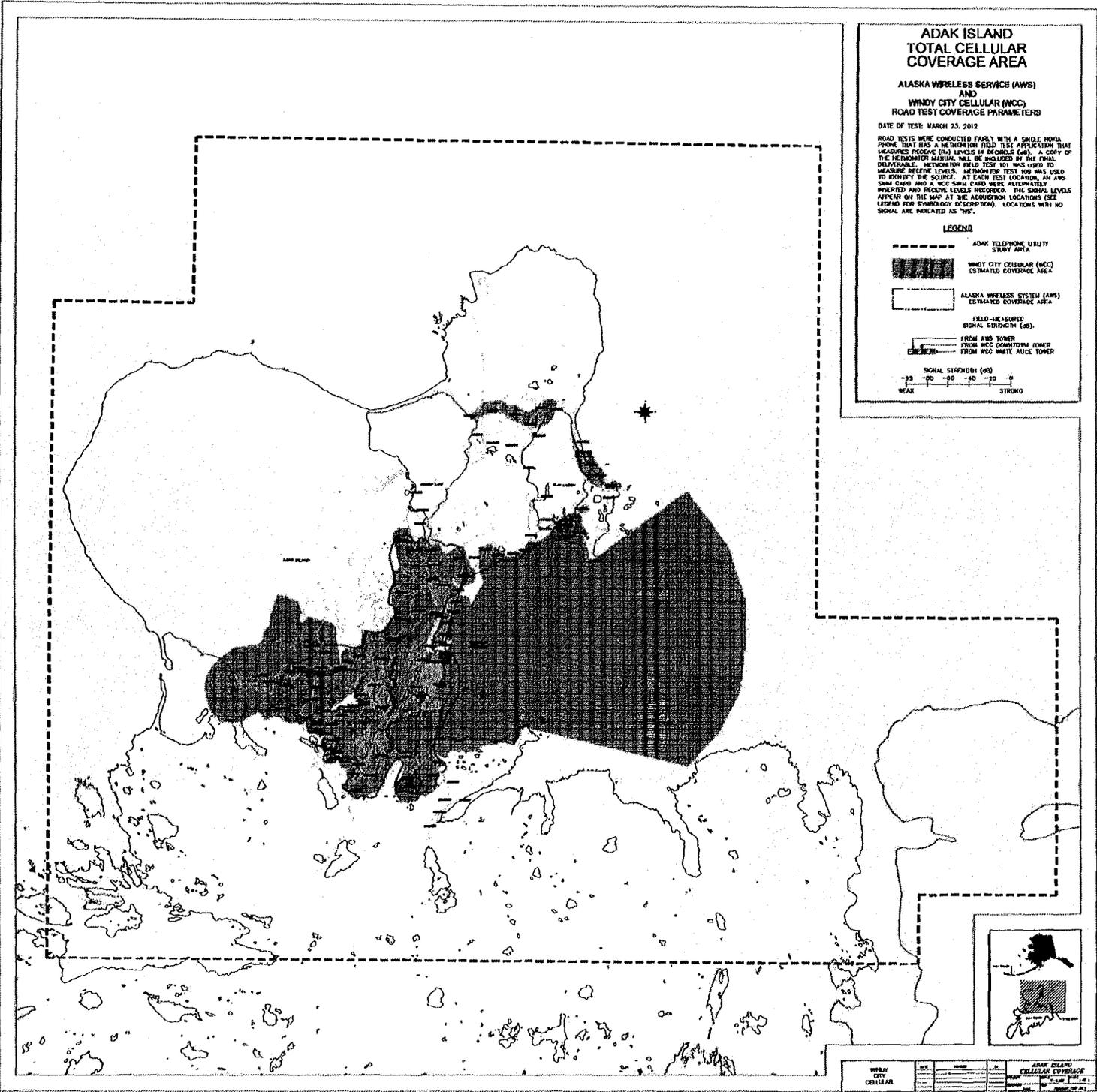
ALASKA WIRELESS SERVICE (AWS)
AND
WINDY CITY CELLULAR (WCC)
ROAD TEST COVERAGE PARAMETERS

DATE OF TEST: MARCH 25, 2012

ROAD TESTS WERE CONDUCTED EARLY WITH A SINGLE NOKIA PHONE THAT HAS A NETWORK ID TEST APPLICATION THAT MEASURES RECEIVED (RX) LEVELS IN DECIBELS (dB). A COPY OF THE NETWORK ID APPLICATION WILL BE PROVIDED BY THE FINAL DELIVERABLE. NETWORK ID TEST 101 WAS USED TO MEASURE RECEIVED LEVELS. NETWORK TEST 100 WAS USED TO IDENTIFY THE SOURCE. AT EACH TEST LOCATION, AN AWS SIM CARD AND A WCC SIM CARD WERE ALTERNATELY INSERTED AND RECEIVED LEVELS RECORDED. THE SIGNAL LEVELS APPEAR ON THE MAP AT THE RECORDING LOCATIONS (SEE LEGEND FOR SYMBOLOLOGY DESCRIPTION). LOCATIONS WITH NO SIGNAL ARE INDICATED AS "NS".

LEGEND

- ADAK TELEPHONE UTILITY STUDY AREA
 -  WINDY CITY CELLULAR (WCC) ESTIMATED COVERAGE AREA
 -  ALASKA WIRELESS SERVICE (AWS) ESTIMATED COVERAGE AREA
 - FIELD-MEASURED SIGNAL STRENGTH (dB)
 -  FROM AWS TOWER
 -  FROM WCC DOWNTOWN TOWER
 -  FROM WCC WATKINS TOWER
- SIGNAL STRENGTH (dB)**
- 20 ---30 ---40 ---50
- WEAK STRONG



WINDY CITY CELLULAR	DATE	TIME	LOCATION	STRENGTH (dB)	REMARKS



ADAK ISLAND CELLULAR COVERAGE AREA

**ADAK ISLAND
TOTAL CELLULAR
COVERAGE AREA**

ALASKA WIRELESS SERVICE (AWS)
AND
WINDY CITY CELLULAR (WCC)
ROAD TEST COVERAGE PARAMETERS

DATE OF TEST: MARCH 23, 2012

ROAD TESTS WERE CONDUCTED FAIRLY WITH A SMOKE MOUNTAIN PHONE THAT HAS A NETWORKING FIELD TEST APPLICATION THAT MEASURES RECEIVE (RX) LEVELS IN DECIBELS (dB). A COPY OF THE NETWORKING MANUAL WILL BE INCLUDED IN THE FINAL DELIVERABLE. THE NETWORK FIELD TEST USES TWO TESTS TO MEASURE RECEIVE LEVELS. INFORMATION TEST 108 WAS USED TO IDENTIFY THE SOURCE. AT EACH TEST LOCATION AN AWS SIM CARD AND A WCC SIM CARD WERE ALTERNATELY INSERTED AND RECEIVE LEVELS RECORDED. THE SIGNAL LEVELS APPEAR ON THE MAP AT THE ACQUISITION LOCATIONS (SEE LEGEND FOR SYMBOLOLOGY DESCRIPTION). LOCATIONS WITH NO SIGNAL ARE INDICATED AS "N/A".

LEGEND

-  WINDY CITY CELLULAR (WCC) ESTIMATED COVERAGE AREA
 -  ALASKA WIRELESS SYSTEM (AWS) ESTIMATED COVERAGE AREA
 -  FIELD-MEASURED SIGNAL STRENGTH (dB)
 -  FROM AWS TOWER
 -  FROM WCC DOWNHILL TOWER
 -  FROM WCC WHEAT ALICE TOWER
- SIGNAL STRENGTH (dB)
- 90 80 70 60 50 40 30 20 10 0
- WEAK STRONG



ADAK ISLAND



WINDY CITY CELLULAR	DATE	BY	FOR	CELLULAR COVERAGE

Explanation of Drive Test Data Attachment

Road tests were conducted by WCC's consultant, Mid-State Consultants from Nephi, UT on March 23, 2012. Mid-State used a single Nokia phone that has a Netmonitor Field Test application that measures Receive (Rx) levels in decibels (dB). Netmonitor Field Test 101 was used to measure receive levels. Netmonitor Test 109 was used to identify the source. At each test location, an Alaska Wireless simm card and a WCC simm card were alternately inserted and receive levels recorded. The attached charts shows highlighted in yellow the locations where the drive tests indicate that Alaska Wireless does not have any signal. There is no detectable voice or data service in these locations. Conversely, WCC is able to offer both voice and data service in all of these locations.

TEST DRIVE DATA

Map #	Loc #	AWS Rx dB	WCC DT Rx dB	WCC WA Rx dB	Location	Data/WCC	SMS/WCC	Voice/WCC
1	1	-70	-53		Bay Shore Drive	Yes	Yes	Yes
1	2	-78	-70		Bay Shore Drive	Yes	Yes	Yes
1	3	-68	-61		Bay Shore Drive	Yes	Yes	Yes
1	4	-90	-64		Bay Shore Drive	Yes	Yes	Yes
1	5	NS	NS	NS	Bay Shore Drive	NO	NO	NO
2	6	NS		-85	Bay Shore Drive	Yes	Yes	Yes
1	7	NS		-73	Main Road	Yes	Yes	Yes
1	8	-73		-60	Main Road	Yes	Yes	Yes
1	9	-58	-61		Main Road	Yes	Yes	Yes
1	10	-73	-71		Kuhuk	Yes	Yes	Yes
2	11	NS		-79	Main Road	Yes	Yes	Yes
2	12	NS		-77	Main Road	Yes	Yes	Yes
2	13	NS		-81	Main Road	Yes	Yes	Yes
2	14	-93	-95		Main Road	Yes	Yes	Yes
3	15	-95		-76	Clam Lagoon Road	Yes	Yes	Yes
3	16	-67	-78		Clam Lagoon Road	Yes	Yes	Yes
3	17	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
3	18	NS	-94		Clam Lagoon Road	Yes	Yes	Yes
3	19	NS	-93		Clam Lagoon Road	Yes	Yes	Yes
3	20	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
3	21	NS	-85		Clam Lagoon Road	Yes	Yes	Yes
3	22	NS	-85		Clam Lagoon Road	Yes	Yes	Yes
3	23	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
3	24	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
4	25	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
4	26	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
4	27	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
4	28	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
4	29	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
4	30	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
4	31	NS	-93		Clam Lagoon Road	Yes	Yes	Yes
4	32	NS	-94		Clam Lagoon Road	Yes	Yes	Yes
4	33	NS	-91		Clam Lagoon Road	Yes	Yes	Yes
4	34	NS		-94	Clam Lagoon Road	Yes	Yes	Yes
4	35	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
4	36	NS		-92	Clam Lagoon Road	Yes	Yes	Yes
4	37	NS	-89		Clam Lagoon Road	Yes	Yes	Yes
3	38	-90	-88		Clam Lagoon Road	Yes	Yes	Yes
3	39	NS	-95		WCC Clam Lagoon Site	Yes	Yes	Yes
3	40	-80	-75		Candlestick Bridge	Yes	Yes	Yes
4	41	NS		-81	NSGA Depot Building by Reservoir	Yes	Yes	Yes
4	42	NS		-93	Above NSGA towards Lorrain Station	Yes	Yes	Yes
4	43	NS		-98	Above NSGA towards Lorrain Station	Yes	Yes	Yes
4	44	NS		-88	Above NSGA towards Lorrain Station	Yes	Yes	Yes
4	45	NS		-90	Res Center Lake Andrew	Yes	Yes	Yes
4	46	NS	NS	NS	Lake Andrew Road North Side	NO	NO	NO
4	47	NS	NS	NS	Lake Andrew Road North Side	NO	NO	NO
4	48	NS	NS	NS	Lake Andrew Road North Side	NO	NO	NO
1	49	-45	-51		Telex Yard	Yes	Yes	Yes
2	50	-85	-77		City Dump	Yes	Yes	Yes
5	51	-85	-84		Lake Andrew Road South Side	Yes	Yes	Yes
5	52	-85	-84		Lake Andrew Road South Side	Yes	Yes	Yes
5	53	-74	-70		Lake Andrew Road South Side	Yes	Yes	Yes
5	54	-77	-77		Lake Andrew Road South Side	Yes	Yes	Yes
5	55	-89	-73		Lake Andrew Road South Side	Yes	Yes	Yes
5	56	NS	NS	NS	Lake Andrew Road South Side	NO	NO	NO
5	57	NS	NS	NS	Lake Andrew Road South Side	NO	NO	NO
5	58	NS	NS	NS	Lake Andrew Road South Side	NO	NO	NO
2	59	-60	-62		Towards Power Plant NS	Yes	Yes	Yes
2	60	-88		-67	Airport Road	Yes	Yes	Yes
2	61	-63	-80		Airport Road	Yes	Yes	Yes
2	62	-93	-80		Airport Road by ADAC, Inc.	Yes	Yes	Yes
2	63	-63	-55		Airport Road	Yes	Yes	Yes
2	64	-56	-56		Airport Road	Yes	Yes	Yes
6	65	-58	-55		Airport Road	Yes	Yes	Yes
6	66	-64	-61		Airport Road	Yes	Yes	Yes
6	67	-55	-52		Airport Road	Yes	Yes	Yes
9	68	-51	-48		Airport Road	Yes	Yes	Yes
6	69	-80	-62		White Alice Area	Yes	Yes	Yes
6	70	-83	-74		White Alice Area	Yes	Yes	Yes
6	71	-92	-52		White Alice Area	Yes	Yes	Yes
6	72	-89	-57		White Alice Area	Yes	Yes	Yes
6	73	-85	-58		White Alice Area	Yes	Yes	Yes
6	74	-85	-52		White Alice Area by USGS Road	Yes	Yes	Yes
6	75	NS	-54		White Alice Area by Hand Hole #7	Yes	Yes	Yes
6	76	NS	-55		White Alice Area	Yes	Yes	Yes

TEST DRIVE DATA

Map #	Loc #	AWS Rx dB	WCC DTRx dB	WCC WA Rx dB	Location	Data/WCC	SMS/WCC	Voice/WCC
6	77	-86	-46		White Alice Area	Yes	Yes	Yes
6	78	NS	-95		White Alice Area	Yes	Yes	Yes
7	79	NS	-31		White Alice Area by WCC Tower	Yes	Yes	Yes
7	80	NS	-45		White Alice Area	Yes	Yes	Yes
6	81	NS	-63		White Alice Area	Yes	Yes	Yes
6	82	NS	-78		White Alice Area	Yes	Yes	Yes
6	83	-71	-68		Beding Hill	Yes	Yes	Yes
6	84	NS	-97		Munitions Area	Yes	Yes	Yes
8	85	NS	NS	NS	Munitions Area	NO	NO	NO
8	86	-90	-71		Munitions Area	Yes	Yes	Yes
8	87	-82	-77		Munitions Area	Yes	Yes	Yes
9	88	-82	-79		Munitions Area	Yes	Yes	Yes
8	89	-81	-71		Munitions Area	Yes	Yes	Yes
8	90	-83	-86		Munitions Area	Yes	Yes	Yes
8	91	NS		-61	Munitions Area	Yes	Yes	Yes
8	92	NS		-82	Munitions Area	Yes	Yes	Yes
8	93	NS		-66	Heart Lake	Yes	Yes	Yes
8	94	NS		-60	Heart Lake	Yes	Yes	Yes
8	95	NS		-60	Heart Lake	Yes	Yes	Yes
9	96	-76	-58		Heart Lake	Yes	Yes	Yes
9	97	NS		-86	Heart Lake	Yes	Yes	Yes
9	98	NS		-62	Near FRV1	Yes	Yes	Yes
9	99	NS	-87		FRV1	Yes	Yes	Yes
9	100	-90	-75		Toward Lake DeMarie	Yes	Yes	Yes
9	101	-79	-64		Nife Range	Yes	Yes	Yes
9	102	-56	-53		Small Boat Harbor	Yes	Yes	Yes
9	103	-70	-71		Finger Bay Road	Yes	Yes	Yes
10	104	-93	-80		Finger Bay Road by Lake Lenora	Yes	Yes	Yes
10	105	-76		-90	Finger Bay Road	Yes	Yes	Yes
10	106	-78	-69		Finger Bay Road at Top of Hill	Yes	Yes	Yes
10	107	NS	NS	NS	Finger Bay Road	NO	NO	NO
10	108	NS	NS	NS	Finger Bay Road	NO	NO	NO
10	109	NS	NS	NS	Finger Bay Road	NO	NO	NO
10	110	NS	NS	NS	Finger Bay Road	NO	NO	NO
10	111	NS	NS	NS	Finger Bay Road	NO	NO	NO

Range of Service:

Range of -31 to -95 is good quality
 Range of -96 and above is poor quality to no Service

Testing:

Tests attempts were made for each type of call feature
 (3) attempts per feature type were made in each location
 We swapped AWS & WCC simms at each test location and recorded the readings
 The Location numbers on the Excel sheet correspond to the numbers on the maps

Equipment used:

(2) All terrain vehicles (ATV)
 (1) Nokia phone with a Net monitor Field Test that gives us the receive levels in decibels

WCC DRIVE TEST - AWS HAD NO SIGNAL

Make-Up of Corporate Operations Expenses

Exhibit 3

Redacted—For Public Inspection

Information on End User Rate Plans

Exhibit 4

WINDY CITY CELLULAR

Plans				Long Distance		Roaming			Texting/Data		Other		
Type	Minutes	Cost per Minute	Monthly Fee	In State	Out of State	In Network Cell to Cell	Roaming Minutes	Out of Network	SMS	Data Transmissions	Nights & Weekends	Additional Minutes	Shared Lines Available
Emergency	20	0.5	\$10.00	Included	Included	Included	0	\$0.25	Not Available		Included	\$0.60	None
Adak Smart Plan	Unlimited		\$20.00	Included	Included	Included	200	\$0.25	Included	included	Included	\$0.00	3
Adak Smarter Plan	Unlimited		\$30.00	Included	Included	Included	600	\$0.25	Included	included	Included	\$0.00	3
Adak Smartest Plan	Unlimited		\$50.00	Included	Included	Included	unlimited	\$0.00	Included	included	Included	\$0.00	3
* Lifeline	Adak Smarter Plan \$30.00 minus discount of \$28.50 for a total pretaxed cost of \$1.50											\$0.00	None

Setup Fee: \$0.00 All plans

Shared Lines: \$5.00 per shared line on all plans
 Roaming: All roaming charges included in Monthly Fee
 Long Distance: All In-State LD included in Monthly Fee
 SMS/Data Included in Monthly Fee

City Local Tax .04%
 AUSF Surcharge .095%

Windy City Cellular Prepaid Rate Plan

PREPAID PLANS

Phones (includes sim)

Sim only: \$25.00



<u>PLANS</u>	<u>MINUTES</u>	<u>COST</u>	<u>LONG DISTANCE</u>	<u>ROAMING</u>	<u>COST PER MINUTE</u>
PINKS	200	\$60.00	Included	Included	\$0.30
SILVER	300	\$90.00	Included	Included	\$0.30
REDS	400	\$100.00	Included	Included	\$0.25
KINGS	700	\$105.00	Included	Included	\$0.15
ADAK	1000	\$150.00	Included	Included	\$0.15
EAGLE	1500	\$225.00	Included	Included	\$0.15
DENALI	2000	\$300.00	Included	Included	\$0.15

Taxes and Surcharges Apply

Local Tax .04%

AUSF .093%

**Windy City Cellular, LLC
List of Services Other Than Voice
Provided Over USF Plant**

In Addition to cellular voice services WCC provides the following over the cellular network:

**Long Distance Calling - state and national
Roaming - In Network and Out of Network
SMS - Text Messaging Prepaid and Post Paid
Data Transmission - Prepaid and Post Paid
Voicemail services**

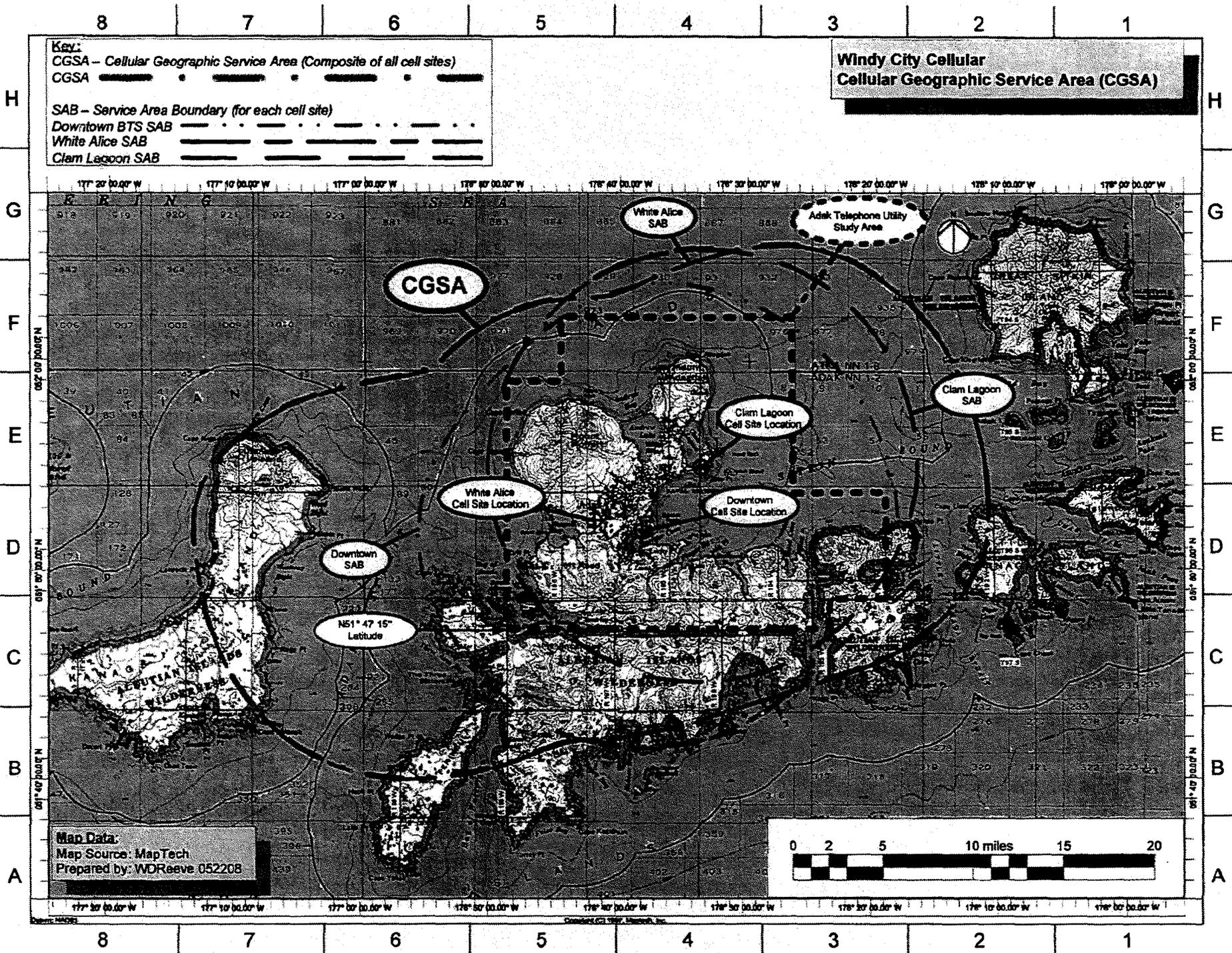
Maps Showing Service Areas

Exhibit 5

Explanation of Contents of Exhibit 5

This Exhibit includes the following:

- 1 – A map showing the area in which WCC is licensed to serve.
- 2 – The area in which WCC actually provides service.
- 3 – The area in which WCC is designated as a CETC.
- 4 – The area in which WCC is the sole provider of mobile service (both a map and drive test data are included).
- 5- The location of each WCC cell site (including the planned, but abandoned, site for Clam Lagoon).
- 6 – The number of road miles – 59 miles total, 14 miles of which are paved.
- 7 – The Population – See the census information contained in Exhibit 1 (population of 326-331).
- 8 – The Square Miles of the Adak Area – See Exhibit 1 (122.4 square miles of land and 4.9 square miles of water).



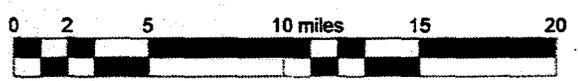
Key:
 CGSA – Cellular Geographic Service Area (Composite of all cell sites)
 CGSA ———— • ———— • ———— • ———— • ————
 SAB – Service Area Boundary (for each cell site)
 Downtown BTS SAB ———— • ———— • ———— • ———— • ————
 White Alice SAB ———— ———— ———— ———— ————
 Clam Lagoon SAB ———— ———— ———— ———— ————

**Windy City Cellular
 Cellular Geographic Service Area (CGSA)**

177° 20' 00.00" W 177° 10' 00.00" W 177° 00' 00.00" W 176° 50' 00.00" W 176° 40' 00.00" W 176° 30' 00.00" W 176° 20' 00.00" W 176° 10' 00.00" W

177° 20' 00.00" W 177° 10' 00.00" W 177° 00' 00.00" W 176° 50' 00.00" W 176° 40' 00.00" W 176° 30' 00.00" W 176° 20' 00.00" W 176° 10' 00.00" W

Map Data:
 Map Source: MapTech
 Prepared by: WDRreeve 052208



REDACTED - FOR PUBLIC INSPECTION

Explanation of Map

This Map shows the coverage area of the three carriers that provide service to the Adak Area.

- The small red circle represents the Alaska Wireless coverage area for its wireless service. The area inside the circle is downtown Adak.
- The area inside the black hash marks represents the Adak Eagle Enterprises service area in which it provides wireline local exchange service.
- The green area represents the WCC wireless service area.

Please Note:

The area in green outside of the red circle represents the area in which WCC is the only provider of wireless service.

The area in green outside of both the red circle and the black hash marks represents the area in which WCC is the only provider of terrestrial voice service, taking into consideration all wireline and wireless options for the Adak area.

Two versions of the map are included, presenting different views of the same service area. One map provides a close-up view of the service area, and the other map provides a view from a greater distance so that the Commission can see the entire geography of the area.

**ADAK ISLAND
TOTAL CELLULAR
COVERAGE AREA**

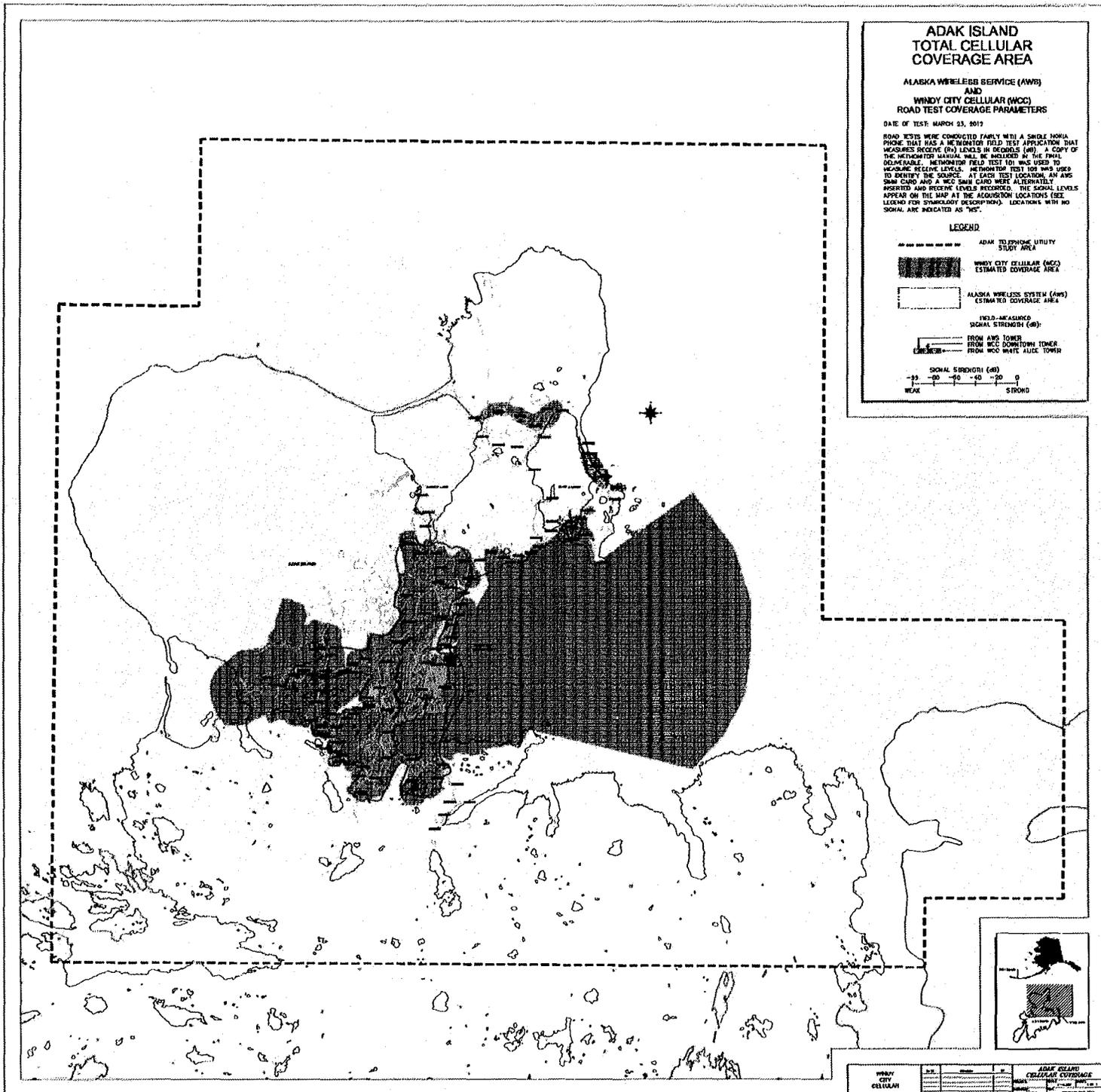
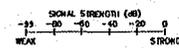
ALASKA WIRELESS SERVICE (AWS)
AND
WINDY CITY CELLULAR (WCC)
ROAD TEST COVERAGE PARAMETERS

DATE OF TEST: MARCH 23, 2012

ROAD TESTS WERE CONDUCTED EARLY WITH A SINGLE NOKIA PHONE THAT HAS A REPEATED FIELD TEST APPLICATION THAT MEASURES RECEIVE (R) LEVELS IN DECIBELS (dB). A COPY OF THE INSTRUMENT MANUAL WILL BE INCLUDED IN THE FINAL DOCUMENT. NETWORKING FIELD TEST (FT) WAS USED TO MEASURE RECEIVE LEVELS. NETWORKING TEST USE WAS USED TO VERIFY THE SOURCE. AT EACH TEST LOCATION, AN AWS SIM CARD AND A WCC SIM CARD WERE ALTERNATELY INSERTED AND RECEIVE LEVELS RECORDED. THE SIGNAL LEVELS APPEAR ON THE MAP AT THE ACQUISITION LOCATIONS (SEE LEGEND FOR SYMBOLS/NOTATION). LOCATIONS WITH NO SIGNAL ARE INDICATED AS "NS".

LEGEND

-  ADAK TO PRINCE OF WILHELM STUDY AREA
-  WINDY CITY CELLULAR (WCC) ESTIMATED COVERAGE AREA
-  ALASKA WIRELESS SYSTEM (AWS) ESTIMATED COVERAGE AREA
- FIELD-MEASURED SIGNAL STRENGTH (dB):**
 -  FROM AWS TOWER
 -  FROM WCC DOWNTOWN TOWER
 -  FROM WCC WHITE ALICE TOWER



WINDY CITY CELLULAR	DATE	TIME	BY	ADAK ISLAND CELLULAR COVERAGE

Explanation of Drive Test Data Attachment

Road tests were conducted by WCC's consultant, Mid-State Consultants from Nephi, UT on March 23, 2012. Mid-State used a single Nokia phone that has a Netmonitor Field Test application that measures Receive (Rx) levels in decibels (dB). Netmonitor Field Test 101 was used to measure receive levels. Netmonitor Test 109 was used to identify the source. At each test location, an Alaska Wireless simm card and a WCC simm card were alternately inserted and receive levels recorded. The attached charts shows highlighted in yellow the locations where the drive tests indicate that Alaska Wireless does not have any signal. There is no detectable voice or data service in these locations. Conversely, WCC is able to offer both voice and data service in all of these locations.

TEST DRIVE DATA

Map #	Loc #	AWS Rx dB	WCC DT Rx dB	WCC WA Rx dB	Location	Data/WCC	SMS/WCC	Voice/WCC
1	1	-70	-53		Bay Shore Drive	Yes	Yes	Yes
1	2	-78	-70		Bay Shore Drive	Yes	Yes	Yes
1	3	-58	-61		Bay Shore Drive	Yes	Yes	Yes
1	4	-90	-64		Bay Shore Drive	Yes	Yes	Yes
1	5	NS	NS	NS	Bay Shore Drive	NO	NO	NO
1	6	NS		-85	Bay Shore Drive	Yes	Yes	Yes
1	7	NS		-72	Main Road	Yes	Yes	Yes
1	8	-73		-80	Main Road	Yes	Yes	Yes
1	9	-58	-61		Main Road	Yes	Yes	Yes
1	10	-73	-71		Kukuluk	Yes	Yes	Yes
2	11	NS		-79	Main Road	Yes	Yes	Yes
2	12	NS		-77	Main Road	Yes	Yes	Yes
2	13	NS		-81	Main Road	Yes	Yes	Yes
2	14	-93	-98		Main Road	Yes	Yes	Yes
3	15	-95		-76	Clam Lagoon Road	Yes	Yes	Yes
3	16	-67	-78		Clam Lagoon Road	Yes	Yes	Yes
3	17	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
3	18	NS	-94		Clam Lagoon Road	Yes	Yes	Yes
3	19	NS	-93		Clam Lagoon Road	Yes	Yes	Yes
3	20	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
3	21	NS	-85		Clam Lagoon Road	Yes	Yes	Yes
3	22	NS	-86		Clam Lagoon Road	Yes	Yes	Yes
3	23	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
3	24	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
4	25	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
4	26	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
4	27	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
4	28	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
4	29	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
4	30	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
4	31	NS	-93		Clam Lagoon Road	Yes	Yes	Yes
4	32	NS	-84		Clam Lagoon Road	Yes	Yes	Yes
4	33	NS	-91		Clam Lagoon Road	Yes	Yes	Yes
4	34	NS		-84	Clam Lagoon Road	Yes	Yes	Yes
4	35	NS	NS	NS	Clam Lagoon Road	NO	NO	NO
4	36	NS		-92	Clam Lagoon Road	Yes	Yes	Yes
4	37	NS	-89		Clam Lagoon Road	Yes	Yes	Yes
4	38	-90	-88		Clam Lagoon Road	Yes	Yes	Yes
4	39	NS	-95		WCC Clam Lagoon Site	Yes	Yes	Yes
4	40	-90	-78		Candlish Bridge	Yes	Yes	Yes
4	41	NS		-81	NSGA Upper Building by Reservoir	Yes	Yes	Yes
4	42	NS		-93	Above NSGA towards Lorrain Station	Yes	Yes	Yes
4	43	NS		-88	Above NSGA towards Lorrain Station	Yes	Yes	Yes
4	44	NS		-88	Above NSGA towards Lorrain Station	Yes	Yes	Yes
4	45	NS		-80	Res Center Lake Andrew	Yes	Yes	Yes
4	46	NS	NS	NS	Lake Andrew Road North Side	NO	NO	NO
4	47	NS	NS	NS	Lake Andrew Road North Side	NO	NO	NO
4	48	NS	NS	NS	Lake Andrew Road North Side	NO	NO	NO
1	49	-45	-51		Telex Yard	Yes	Yes	Yes
2	50	-65	-77		City Dump	Yes	Yes	Yes
5	51	-85	-84		Lake Andrew Road South Side	Yes	Yes	Yes
5	52	-65	-64		Lake Andrew Road South Side	Yes	Yes	Yes
5	53	-74	-70		Lake Andrew Road South Side	Yes	Yes	Yes
5	54	-77	-77		Lake Andrew Road South Side	Yes	Yes	Yes
5	55	-89	-72		Lake Andrew Road South Side	Yes	Yes	Yes
5	56	NS	NS	NS	Lake Andrew Road South Side	NO	NO	NO
5	57	NS	NS	NS	Lake Andrew Road South Side	NO	NO	NO
5	58	NS	NS	NS	Lake Andrew Road South Side	NO	NO	NO
2	59	-60	-62		Towards Power Plant NS	Yes	Yes	Yes
2	60	-88		-67	Airport Road	Yes	Yes	Yes
2	61	-69	-80		Airport Road	Yes	Yes	Yes
2	62	-93	-80		Airport Road by ADAC, Inc.	Yes	Yes	Yes
2	63	-63	-55		Airport Road	Yes	Yes	Yes
2	64	-56	-58		Airport Road	Yes	Yes	Yes
6	65	-58	-55		Airport Road	Yes	Yes	Yes
6	66	-64	-61		Airport Road	Yes	Yes	Yes
6	67	-55	-52		Airport Road	Yes	Yes	Yes
9	68	-51	-48		Airport Road	Yes	Yes	Yes
6	69	-60	-62		White Alice Area	Yes	Yes	Yes
6	70	-83	-74		White Alice Area	Yes	Yes	Yes
6	71	-92	-52		White Alice Area	Yes	Yes	Yes
6	72	-89	-57		White Alice Area	Yes	Yes	Yes
6	73	-85	-58		White Alice Area	Yes	Yes	Yes
6	74	-85	-52		White Alice Area by USGS Road	Yes	Yes	Yes
6	75	NS	-54		White Alice Area by Hand Hole #7	Yes	Yes	Yes
6	76	NS	-56		White Alice Area	Yes	Yes	Yes

TEST DRIVE DATA

Map #	Loc #	AWS Rx dB	WCC DT Rx dB	WCC WA Rx dB	Location	Data/WCC	SMS/WCC	Voice/WCC
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6	78	NS	-55		White Alice Area	Yes	Yes	Yes
7	79	NS	-21		White Alice Area by WCC Tower	Yes	Yes	Yes
7	80	NS	-45		White Alice Area	Yes	Yes	Yes
6	81	NS	-83		White Alice Area	Yes	Yes	Yes
6	82	NS	-78		White Alice Area	Yes	Yes	Yes
6	83	-71	-68		Bering Hill	Yes	Yes	Yes
6	84	NS	-97		Munitions Area	Yes	Yes	Yes
8	85	NS	NS	NS	Munitions Area	NO	NO	NO
8	86	-90	-71		Munitions Area	Yes	Yes	Yes
8	87	-82	-77		Munitions Area	Yes	Yes	Yes
8	88	-82	-79		Munitions Area	Yes	Yes	Yes
8	89	-81	-71		Munitions Area	Yes	Yes	Yes
8	90	-83	-86		Munitions Area	Yes	Yes	Yes
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8	94	NS		-60	Heart Lake	Yes	Yes	Yes
8	95	NS		-60	Heart Lake	Yes	Yes	Yes
9	96	-76	-58		Heart Lake	Yes	Yes	Yes
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9	103	-70	-71		Finger Bay Road	Yes	Yes	Yes
10	104	-93	-80		Finger Bay Road by Lake Lenore	Yes	Yes	Yes
10	105	-78		-90	Finger Bay Road	Yes	Yes	Yes
10	106	-78	-59		Finger Bay Road at Top of Hill	Yes	Yes	Yes
10	107	NS	NS	NS	Finger Bay Road	NO	NO	NO
10	108	NS	NS	NS	Finger Bay Road	NO	NO	NO
10	109	NS	NS	NS	Finger Bay Road	NO	NO	NO
10	110	NS	NS	NS	Finger Bay Road	NO	NO	NO
10	111	NS	NS	NS	Finger Bay Road	NO	NO	NO

Range of Service

Range of -31 to -95 is good quality
 Range of -96 and above is poor quality to no Service

Testing

Tests attempts were made for each type of call feature
 (3) attempts per feature type were made in each location
 We swapped AWS & WCC alims at each test location and recorded the readings
 The location numbers on the Excel sheet correspond to the numbers on the maps

Equipment used:

- (2) All terrain vehicles (ATV)
- (1) Nokia phone with a Net monitor field Test that gives us the receive levels in decibels

WCC DRIVE TEST -- AWS HAD NO SIGNAL

**Evidence Demonstrating WCC
Is Only Provider of Mobile Service in
Significant Portion of Study Area**

Exhibit 6

Explanation of Map

This Map shows the coverage area of the three carriers that provide service to the Adak Area.

- The small red circle represents the Alaska Wireless coverage area for its wireless service. The area inside the circle is downtown Adak.
- The area inside the black hash marks represents the Adak Eagle Enterprises service area in which it provides wireline local exchange service.
- The green area represents the WCC wireless service area.

Please Note:

The area in green outside of the red circle represents the area in which WCC is the only provider of wireless service.

The area in green outside of both the red circle and the black hash marks represents the area in which WCC is the only provider of terrestrial voice service, taking into consideration all wireline and wireless options for the Adak area.

Two versions of the map are included, presenting different views of the same service area. One map provides a close-up view of the service area, and the other map provides a view from a greater distance so that the Commission can see the entire geography of the area.

**ADAK ISLAND
TOTAL CELLULAR
COVERAGE AREA**

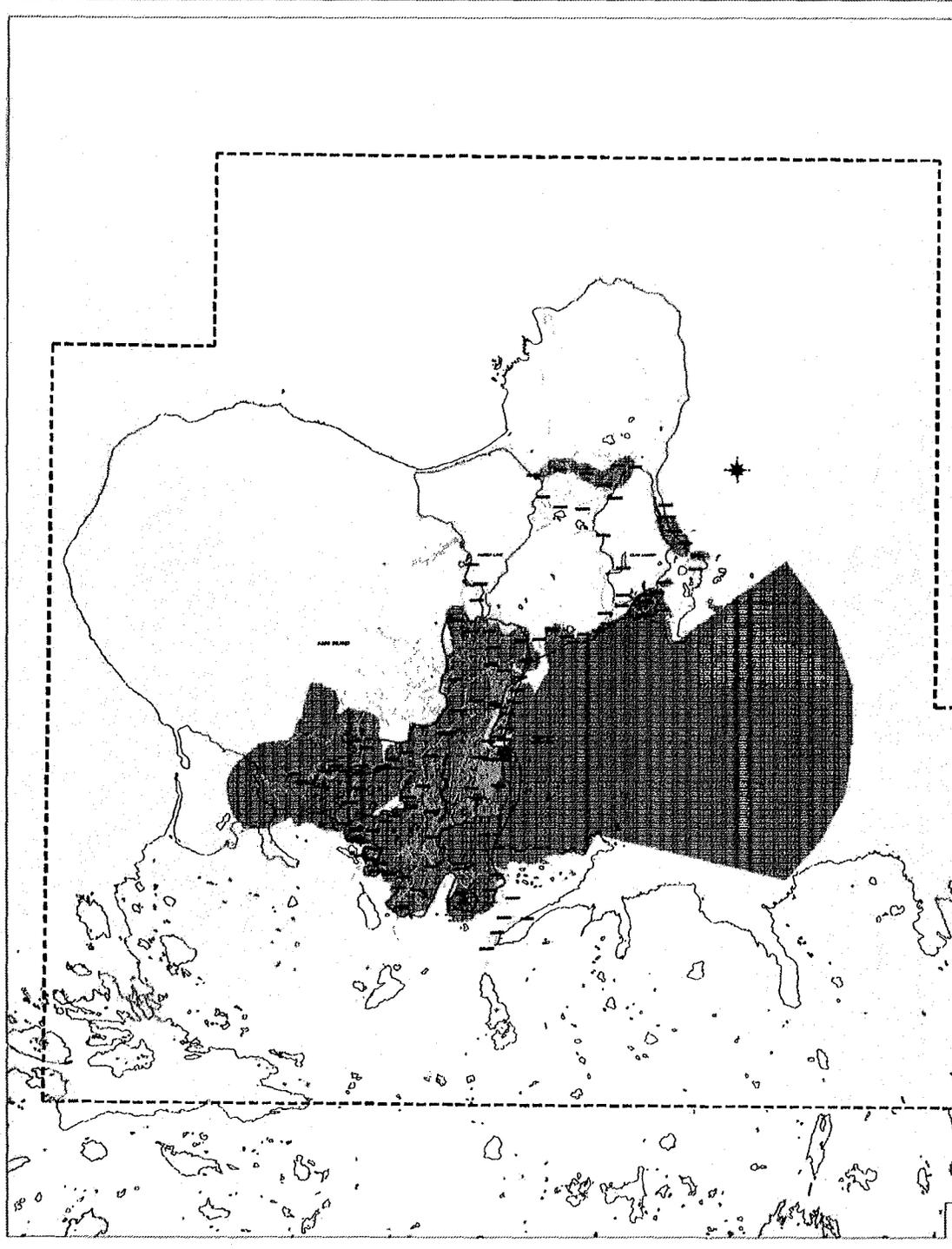
ALASKA WIRELESS SERVICE (AWS)
AND
WINDY CITY CELLULAR (WCC)
ROAD TEST COVERAGE PARAMETERS

DATE OF TEST: MARCH 23, 2012

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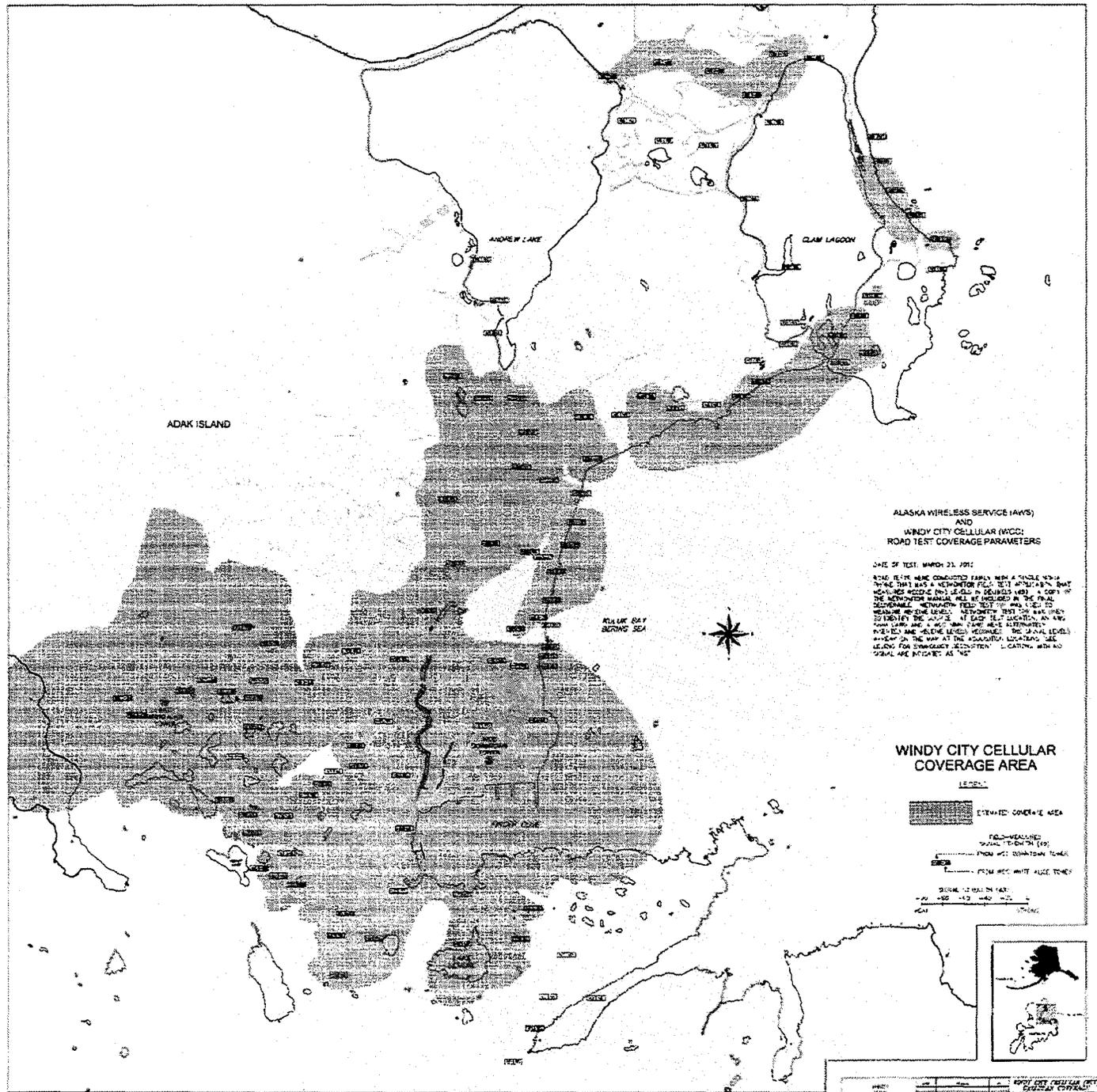
LEGEND

- ADAK TELEPHONE UTILITY STUDY AREA
-  WINDY CITY CELLULAR (WCC) ESTIMATED COVERAGE AREA
-  ALASKA WIRELESS SYSTEM (AWS) ESTIMATED COVERAGE AREA
- FIELD-MEASURED SIGNAL STRENGTH (dB):
 -  FROM AWS TOWER
 -  FROM WCC DOWNTOWN TOWER
 -  FROM WCC WHITE ALICE TOWER
- SIGNAL STRENGTH (dB):
 - PS -90 -80 -70 -60 -50 -40 -30 0
 - WEAK STRONG



WINDY CITY CELLULAR	DATE	BY	PROJECT	NO.	SCALE	ADAK ISLAND CELLULAR COVERAGE





ALASKA WIRELESS SERVICE (AWS)
AND
WINDY CITY CELLULAR (WCC)
ROAD TEST COVERAGE PARAMETERS

DATE OF TEST: MARCH 21, 2001

SOME OF THE WIRELESS SERVICE (AWS) AND WINDY CITY CELLULAR (WCC) TEST RESULTS THAT WERE OBTAINED DURING THIS TEST ARE LISTED IN THE ATTACHED TABLES. A COPY OF THE WINDY CITY CELLULAR (WCC) TEST RESULTS IS AVAILABLE TO THE PUBLIC AT THE WINDY CITY CELLULAR (WCC) OFFICE, 1000 W. 10TH AVENUE, SUITE 100, ANCHORAGE, ALASKA 99501. THE WINDY CITY CELLULAR (WCC) OFFICE IS LOCATED AT THE WINDY CITY CELLULAR (WCC) OFFICE, 1000 W. 10TH AVENUE, SUITE 100, ANCHORAGE, ALASKA 99501. THE WINDY CITY CELLULAR (WCC) OFFICE IS LOCATED AT THE WINDY CITY CELLULAR (WCC) OFFICE, 1000 W. 10TH AVENUE, SUITE 100, ANCHORAGE, ALASKA 99501.

WINDY CITY CELLULAR
COVERAGE AREA

- LEGEND:
- ESTIMATED COVERAGE AREA
 - FIELD-MEASURED SIGNAL STRENGTH (dBm)
 - FROM WCC DATABASE NUMBER
 - FROM WCC WHITE PAGES NUMBER
- SCALE: 1:50,000
- 1" = 1.64 KM (1.01 MI)



TEST DATE	TEST TIME	TEST LOCATION	TEST RESULTS
03/21/01	08:00	ADAK ISLAND	...
03/21/01	09:00	ADAK ISLAND	...
03/21/01	10:00	ADAK ISLAND	...
03/21/01	11:00	ADAK ISLAND	...
03/21/01	12:00	ADAK ISLAND	...
03/21/01	13:00	ADAK ISLAND	...
03/21/01	14:00	ADAK ISLAND	...
03/21/01	15:00	ADAK ISLAND	...
03/21/01	16:00	ADAK ISLAND	...
03/21/01	17:00	ADAK ISLAND	...
03/21/01	18:00	ADAK ISLAND	...
03/21/01	19:00	ADAK ISLAND	...
03/21/01	20:00	ADAK ISLAND	...
03/21/01	21:00	ADAK ISLAND	...
03/21/01	22:00	ADAK ISLAND	...
03/21/01	23:00	ADAK ISLAND	...

Explanation of Drive Test Data Attachment

Road tests were conducted by WCC's consultant, Mid-State Consultants from Nephi, UT on March 23, 2012. Mid-State used a single Nokia phone that has a Netmonitor Field Test application that measures Receive (Rx) levels in decibels (dB). Netmonitor Field Test 101 was used to measure receive levels. Netmonitor Test 109 was used to identify the source. At each test location, an Alaska Wireless simm card and a WCC simm card were alternately inserted and receive levels recorded. The attached charts shows highlighted in yellow the locations where the drive tests indicate that Alaska Wireless does not have any signal. There is no detectable voice or data service in these locations. Conversely, WCC is able to offer both voice and data service in all of these locations.

TEST DRIVE DATA

Map #	Loc #	AWS Rx dB	WCC DT Rx dB	WCC WA Rx dB	Location	Data/WCC	SMS/WCC	Voice/WCC
1	1	-70	-53		Bay Shore Drive	Yes	Yes	Yes
1	2	-78	-70		Bay Shore Drive	Yes	Yes	Yes
1	3	-68	-61		Bay Shore Drive	Yes	Yes	Yes
1	4	-90	-64		Bay Shore Drive	Yes	Yes	Yes
1	5	N5	N5	N5	Bay Shore Drive	NO	NO	NO
2	6	N5		-85	Bay Shore Drive	Yes	Yes	Yes
1	7	N5		-72	Main Road	Yes	Yes	Yes
1	8	-73		-60	Main Road	Yes	Yes	Yes
1	9	-58	-61		Main Road	Yes	Yes	Yes
1	10	-73	-71		Kuluk	Yes	Yes	Yes
2	11	N5		-78	Main Road	Yes	Yes	Yes
2	12	N5		-77	Main Road	Yes	Yes	Yes
2	13	N5		-81	Main Road	Yes	Yes	Yes
2	14	-93	-98		Main Road	Yes	Yes	Yes
3	15	-95		-76	Clam Lagoon Road	Yes	Yes	Yes
3	16	-67	-78		Clam Lagoon Road	Yes	Yes	Yes
3	17	N5	N5	N5	Clam Lagoon Road	NO	NO	NO
3	18	N5	-94		Clam Lagoon Road	Yes	Yes	Yes
3	19	N5	-93		Clam Lagoon Road	Yes	Yes	Yes
3	20	N5	N5	N5	Clam Lagoon Road	NO	NO	NO
3	21	N5	-85		Clam Lagoon Road	Yes	Yes	Yes
3	22	N5	-86		Clam Lagoon Road	Yes	Yes	Yes
3	23	N5	N5	N5	Clam Lagoon Road	NO	NO	NO
3	24	N5	N5	N5	Clam Lagoon Road	NO	NO	NO
4	25	N5	N5	N5	Clam Lagoon Road	NO	NO	NO
4	26	N5	N5	N5	Clam Lagoon Road	NO	NO	NO
4	27	N5	N5	N5	Clam Lagoon Road	NO	NO	NO
4	28	N5	N5	N5	Clam Lagoon Road	NO	NO	NO
4	29	N5	N5	N5	Clam Lagoon Road	NO	NO	NO
4	30	N5	N5	N5	Clam Lagoon Road	NO	NO	NO
4	31	N5	-83		Clam Lagoon Road	Yes	Yes	Yes
4	32	N5	-84		Clam Lagoon Road	Yes	Yes	Yes
4	33	N5	-91		Clam Lagoon Road	Yes	Yes	Yes
4	34	N5		-84	Clam Lagoon Road	Yes	Yes	Yes
4	35	N5	N5	N5	Clam Lagoon Road	NO	NO	NO
4	36	N5		-82	Clam Lagoon Road	Yes	Yes	Yes
4	37	N5	-89		Clam Lagoon Road	Yes	Yes	Yes
3	38	-90	-86		Clam Lagoon Road	Yes	Yes	Yes
3	39	N5	-95		WCC Clam Lagoon Site	Yes	Yes	Yes
3	40	-90	-78		Conductivity Bridge	Yes	Yes	Yes
4	41	N5		-83	NSGA Upper Building by Reservoir	Yes	Yes	Yes
4	42	N5		-83	Above NSGA towards Lorrain Station	Yes	Yes	Yes
4	43	N5		-86	Above NSGA towards Lorrain Station	Yes	Yes	Yes
4	44	N5		-88	Above NSGA towards Lorrain Station	Yes	Yes	Yes
4	45	N5	-80		Rec Center Lake Andrew	Yes	Yes	Yes
4	46	N5	N5	N5	Lake Andrew Road North Side	NO	NO	NO
4	47	N5	N5	N5	Lake Andrew Road North Side	NO	NO	NO
4	48	N5	N5	N5	Lake Andrew Road North Side	NO	NO	NO
1	49	-45	-51		Telex Yard	Yes	Yes	Yes
2	50	-85	-77		City Dump	Yes	Yes	Yes
5	51	-85	-84		Lake Andrew Road South Side	Yes	Yes	Yes
5	52	-65	-64		Lake Andrew Road South Side	Yes	Yes	Yes
5	53	-74	-70		Lake Andrew Road South Side	Yes	Yes	Yes
5	54	-77	-77		Lake Andrew Road South Side	Yes	Yes	Yes
5	55	-89	-72		Lake Andrew Road South Side	Yes	Yes	Yes
5	56	N5	N5	N5	Lake Andrew Road South Side	NO	NO	NO
5	57	N5	N5	N5	Lake Andrew Road South Side	NO	NO	NO
5	58	N5	N5	N5	Lake Andrew Road South Side	NO	NO	NO
2	59	-60	-62		Towards Power Plant NS	Yes	Yes	Yes
2	60	-88		-67	Airport Road	Yes	Yes	Yes
2	61	-83	-80		Airport Road	Yes	Yes	Yes
2	62	-93	-80		Airport Road by ADAC, Inc.	Yes	Yes	Yes
2	63	-63	-95		Airport Road	Yes	Yes	Yes
2	64	-56	-58		Airport Road	Yes	Yes	Yes
6	65	-58	-55		Airport Road	Yes	Yes	Yes
6	66	-64	-61		Airport Road	Yes	Yes	Yes
6	67	-55	-52		Airport Road	Yes	Yes	Yes
9	68	-51	-48		Airport Road	Yes	Yes	Yes
6	69	-60	-62		White Alice Area	Yes	Yes	Yes
6	70	-83	-74		White Alice Area	Yes	Yes	Yes
6	71	-92	-52		White Alice Area	Yes	Yes	Yes
6	72	-89	-57		White Alice Area	Yes	Yes	Yes
6	73	-85	-58		White Alice Area	Yes	Yes	Yes
6	74	-85	-52		White Alice Area by USGS Road	Yes	Yes	Yes
6	75	N5	-54		White Alice Area by Hand Hole #7	Yes	Yes	Yes
6	76	N5	-56		White Alice Area	Yes	Yes	Yes

TEST DRIVE DATA

Map #	Loc #	AWS Rx dB	WCC DT Rx dB	WCC WA Rx dB	Location	Data/WCC	SMS/WCC	Voice/WCC
6	77	-86	-46		White Alice Area	Yes	Yes	Yes
6	78	NS	-55		White Alice Area	Yes	Yes	Yes
7	79	NS	-31		White Alice Area by WCC Tower	Yes	Yes	Yes
7	80	NS	-45		White Alice Area	Yes	Yes	Yes
6	81	NS	-63		White Alice Area	Yes	Yes	Yes
6	82	NS	-78		White Alice Area	Yes	Yes	Yes
6	83	-71	-68		Bering Hill	Yes	Yes	Yes
6	84	NS	-97		Munitions Area	Yes	Yes	Yes
8	85	NS	NS	NS	Munitions Area	NO	NO	NO
8	86	-90	-71		Munitions Area	Yes	Yes	Yes
8	87	-82	-77		Munitions Area	Yes	Yes	Yes
8	88	-82	-79		Munitions Area	Yes	Yes	Yes
8	89	-81	-71		Munitions Area	Yes	Yes	Yes
8	90	-83	-86		Munitions Area	Yes	Yes	Yes
8	91	NS		-61	Munitions Area	Yes	Yes	Yes
8	92	NS		-82	Munitions Area	Yes	Yes	Yes
8	93	NS		-66	Heart Lake	Yes	Yes	Yes
8	94	NS		-60	Heart Lake	Yes	Yes	Yes
8	95	NS		-60	Heart Lake	Yes	Yes	Yes
9	96	-76	-58		Heart Lake	Yes	Yes	Yes
9	97	NS		-86	Heart Lake	Yes	Yes	Yes
9	98	NS		-82	Near PVI	Yes	Yes	Yes
9	99	NS	-87		PVI	Yes	Yes	Yes
9	100	-90	-75		Toward Lake DeMarie	Yes	Yes	Yes
9	101	-79	-64		Rifle Range	Yes	Yes	Yes
9	102	-56	-51		Small Boat Harbor	Yes	Yes	Yes
9	103	-70	-71		Finger Bay Road	Yes	Yes	Yes
10	104	-93	-80		Finger Bay Road by Lake Lenore	Yes	Yes	Yes
10	105	-76		-90	Finger Bay Road	Yes	Yes	Yes
10	106	-76	-59		Finger Bay Road at Top of Hill	Yes	Yes	Yes
10	107	NS	NS	NS	Finger Bay Road	NO	NO	NO
10	108	NS	NS	NS	Finger Bay Road	NO	NO	NO
10	109	NS	NS	NS	Finger Bay Road	NO	NO	NO
10	110	NS	NS	NS	Finger Bay Road	NO	NO	NO
10	111	NS	NS	NS	Finger Bay Road	NO	NO	NO

Range of Service

Range of -31 to -95 is good quality

Range of -96 and above is poor quality to no service

Testing

Tests attempts were made for each type of call feature

(3) attempts per feature type were made in each location

We swapped AWS & WCC simms at each test location and recorded the readings

The location numbers on the Excel sheet correspond to the numbers on the maps

Equipment used:

(2) All terrain vehicles (ATV)

(1) Nokia phone with a Net monitor Field Test that gives us the receive levels in decibels

WCC DRIVE TEST - AWS HAD NO SIGNAL

Supplemental Maps

**ADAK ISLAND
TOTAL CELLULAR
COVERAGE AREA**

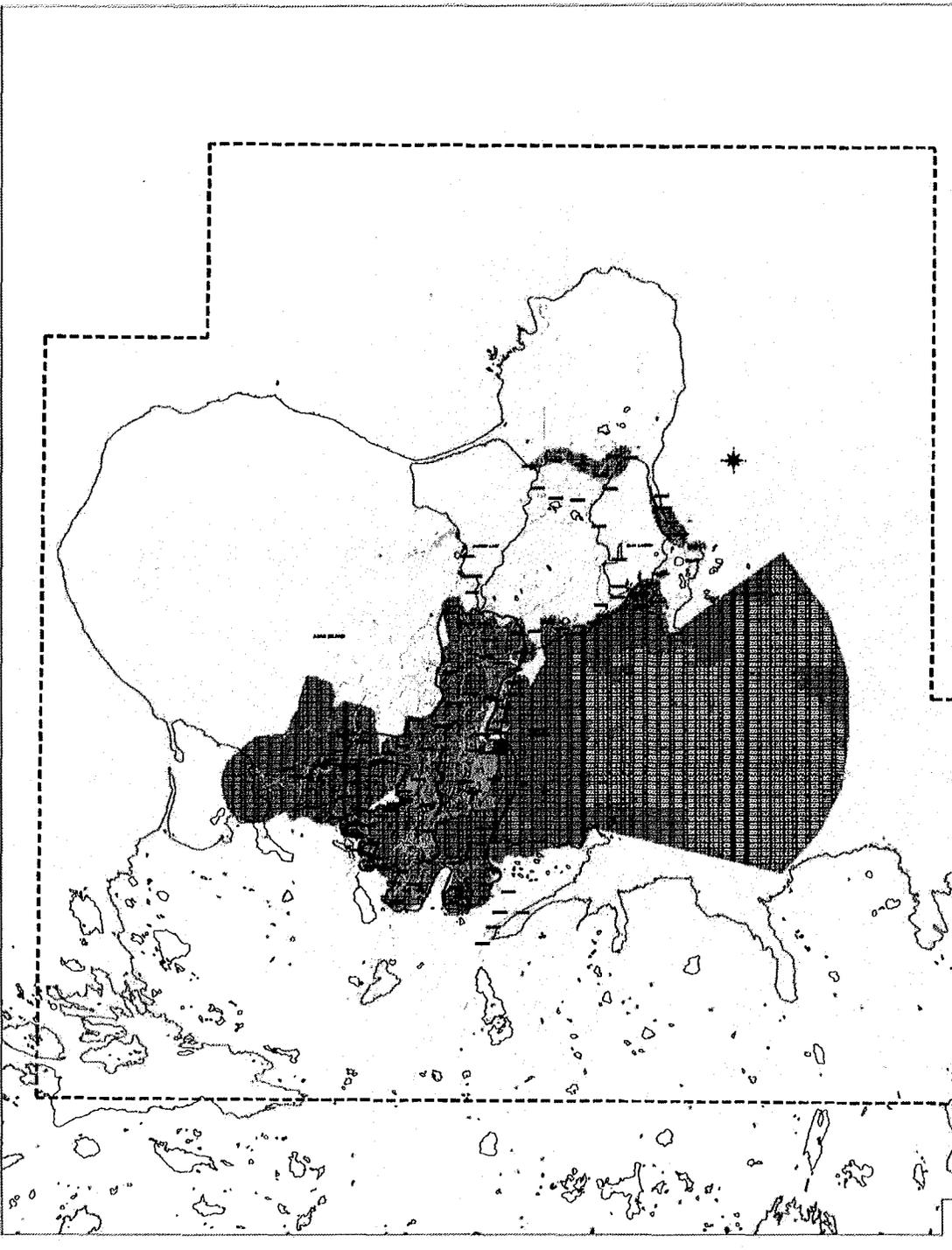
**ALASKA WIRELESS SERVICE (AWS)
AND
WINDY CITY CELLULAR (WCC)
ROAD TEST COVERAGE PARAMETERS**

DATE OF TEST: MARCH 23, 2012

ROAD TESTS WERE CONDUCTED PURVY WITH A SINGLE MOBILE PHONE THAT HAS A METROMETER FIELD TEST APPLICATION THAT MEASURES RECEIVE (RX) LEVELS IN DECIBELS (dB). A COPY OF THE METROMETER MANUAL WILL BE INCLUDED IN THE FINAL DELIVERABLE. METROMETER FIELD TEST 101 WAS USED TO MEASURE RECEIVE LEVELS. METROMETER TEST 100 WAS USED TO IDENTIFY THE SOURCE. AT EACH TEST LOCATION, AN AWS SIMM CARD AND A WCC SIMM CARD WERE ALTERNATELY INSERTED AND RECEIVE LEVELS RECORDED. THE SIGNAL LEVELS APPEAR ON THE MAP AT THE ACQUISITION LOCATIONS (SEE LEGEND FOR TECHNOLOGY DESCRIPTION). LOCATIONS WITH NO SIGNAL ARE INDICATED AS "NO".

LEGEND

- ADAM TELEPHONE UTILITY STUDY AREA
 - WCC WINDY CITY CELLULAR (WCC) ESTIMATED COVERAGE AREA
 - AWSS ALASKA WIRELESS SYSTEM (AWS) ESTIMATED COVERAGE AREA
 - FIELD-MEASURED SIGNAL STRENGTH (dB):
 - FROM AWS TOWER
 - FROM WCC DOWN TOWN TOWER
 - FROM WCC WHITE ALICE TOWER
- SIGNAL STRENGTH (dB)
- | | | | | | |
|------|-----|-----|-----|-----|--------|
| -10 | -20 | -30 | -40 | -50 | 0 |
| WEAK | | | | | STRONG |



WINDY CITY CELLULAR	DATE	TIME	BY	ADAK ISLAND CELLULAR COVERAGE

**ALASKA WIRELESS SYSTEM
COVERAGE AREA**

ALASKA WIRELESS SERVICE (AWS)
AND
WINNY CITY CELLULAR (WCC)
ROAD TEST COVERAGE PARAMETERS

DATE OF TEST: MARCH 23, 2012

ROAD TESTS WERE CONDUCTED EARLY WITH A SMOKE HOOD PHONE THAT HAS A METROMONITOR FIELD TEST APPLICATION THAT MEASURES RECEIVED (RS) LEVELS IN DECIBELS (dB). A COPY OF THE METROMONITOR MANUAL WILL BE INCLUDED IN THE FINAL DELIVERABLE. METROMONITOR FIELD TEST (FT) WAS USED TO MEASURE RECEIVED LEVELS. METROMONITOR TEST 100 WAS USED TO VERIFY THE SIGNALS. AT EACH TEST LOCATION, AN APP SWAN CARD AND A WCC SWAN CARD WERE ALTERNATELY INSERTED AND RECEIVED LEVELS RECORDED. THE SIGNAL LEVELS APPEAR ON THE MAP AT THE ACQUISITION LOCATIONS (SEE LEGEND FOR SYMBOLOLOGY DESCRIPTION). LOCATIONS WITH NO SIGNAL ARE INDICATED AS "N".

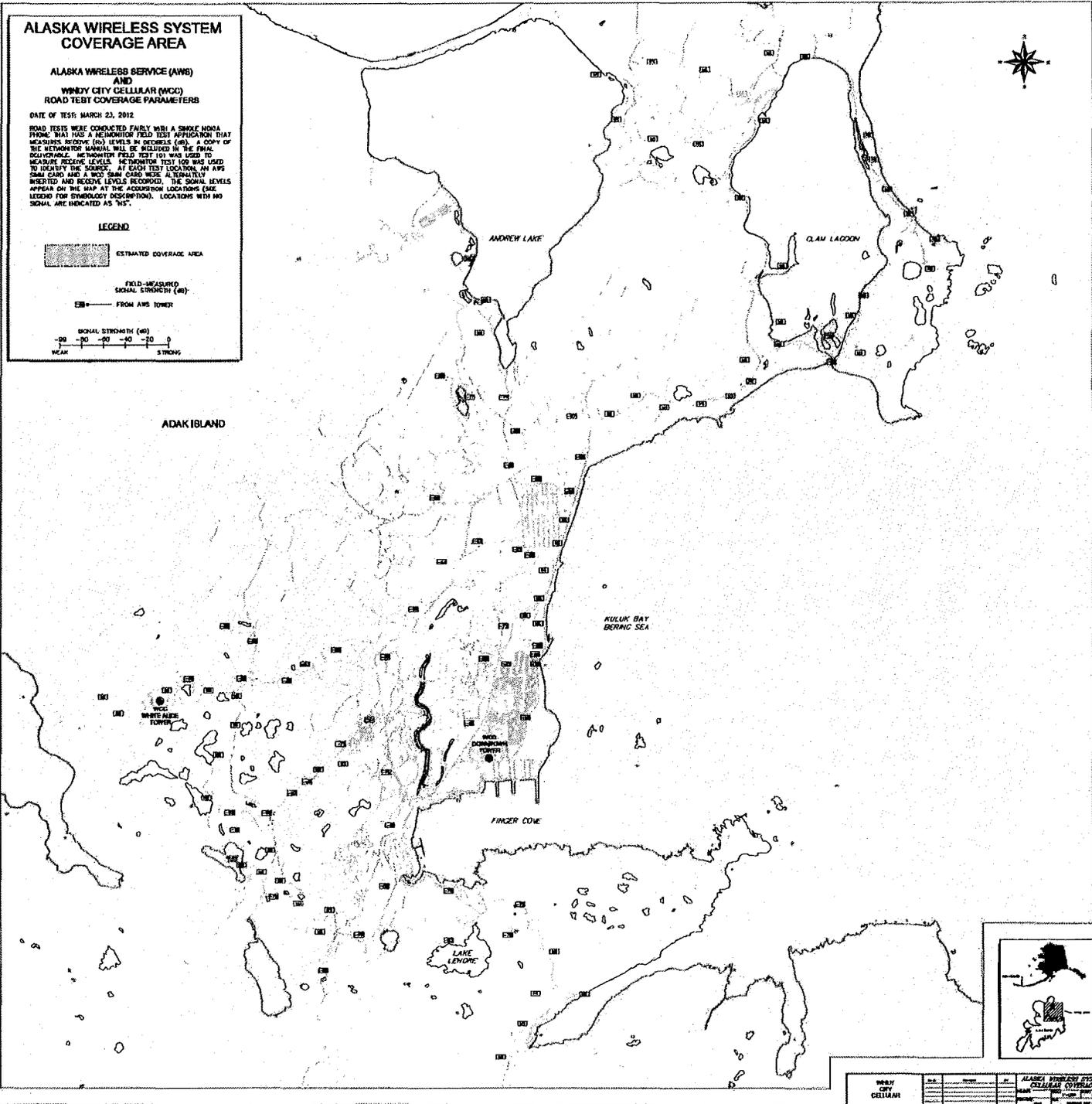
LEGEND

 ESTIMATED COVERAGE AREA

 FIELD-MEASURED SIGNAL STRENGTH (dB)

 FROM AWS TOWER

SIGNAL STRENGTH (dB)
-20 -30 -40 -50
WEAK STRONG



WINNY CITY CELLULAR	DATE	PROJECT	BY

ALASKA WIRELESS SYSTEM
CELLULAR COVERAGE

**ADAK ISLAND
TOTAL CELLULAR
COVERAGE AREA**

ALASKA WIRELESS SERVICE (AWS)
AND
WINDY CITY CELLULAR (WCC)
ROAD TEST COVERAGE PARAMETERS

DATE OF TEST: MARCH 23, 2012

ROAD TESTS WERE CONDUCTED FAIRLY WITH A SINGLE ANOVA PHONE THAT WAS A NONMOTION FIELD TEST APPLICATION THAT MEASURES RECEIVED (RX) LEVELS IN DECIBELS (DB). A COPY OF THE MEASUREMENT MANUAL WILL BE INCLUDED IN THE FINAL DELIVERABLE. THE SPECTRUM FIELD TEST (SFT) WAS USED TO MEASURE RECEIVED LEVELS. THE SPECTRUM TEST 100 WAS USED TO VERIFY THE SOURCE. AT EACH TEST LOCATION, AN AWS SIM CARD AND A WCC SIM CARD WERE ALTERNATELY INSERTED AND RECEIVED LEVELS RECORDED. THE SIGNAL LEVELS APPEAR ON THE MAP AT THE ACQUISITION LOCATIONS (SEE LEGEND FOR SYMBOLIC DESCRIPTION). LOCATIONS WITH NO SIGNAL ARE INDICATED AS "N/A".

LEGEND

-  WINDY CITY CELLULAR (WCC) ESTIMATED COVERAGE AREA
-  ALASKA WIRELESS SYSTEM (AWS) ESTIMATED COVERAGE AREA
-  FIELD-MEASURED SIGNAL STRENGTH (dB)
-  FROM AWS TOWER
-  FROM WCC DOWNTOWN TOWER
-  FROM WCC WHITE ALICE TOWER

SIGNAL STRENGTH (dB)
-90 -80 -70 -60 -50
WEAK STRONG

ADAK ISLAND



WINDY CITY CELLULAR	DATE	TIME	BY	CELLULAR COVERAGE

**WINDY CITY CELLULAR
DOWNTOWN TOWER**

ALASKA WIRELESS SERVICE (AWS)
AND
WINDY CITY CELLULAR (WCC)
ROAD TEST COVERAGE PARAMETERS

DATE OF TEST: MARCH 23, 2012

ROAD TESTS WERE CONDUCTED PAIRWISE WITH A SINGLE NORA PHONE THAT HAS A RETROFITTED FIELD TEST APPLICATION THAT MEASURES RECEIVE (RX) LEVELS IN DECIBELS (dB). A COPY OF THE RETROFITTED MANUAL WILL BE INCLUDED IN THE FINAL DELIVERABLE. RETROFITTED FIELD TEST 101 WAS USED TO MEASURE RECEIVE LEVELS. RETROFITTED TEST 100 WAS USED TO VERIFY THE SOURCE. AT EACH TEST LOCATION, AN AWS SIMM CARD AND A WCC SIMM CARD WERE ALTERNATELY INSERTED AND RECEIVE LEVELS RECORDED. THE SIGNAL LEVELS APPEAR ON THE MAP AT THE ACQUISITION LOCATIONS (SEE LEGEND FOR SYMBOLOLOGY DESCRIPTION). LOCATIONS WITH NO SIGNAL ARE INDICATED AS "N".

LEGEND

 ESTIMATED COVERAGE AREA

 FIELD-MEASURED SIGNAL STRENGTH (dB)
 FROM WCC DOWNTOWN TOWER

SIGNAL STRENGTH (dB)
-99 -90 -80 -70 -60 -50 0
WEAK STRONG



ADAK ISLAND

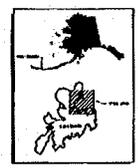
ANDREW LAKE

GLAM LAGOON

ADAK BAY
BERING SEA

PINDER CONE

LAKE
LONORIC



WINDY CITY CELLULAR	DATE	REVISION	BY	WCC DOWNTOWN TOWER CELLULAR COVERAGE

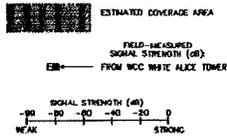
**WINDY CITY CELLULAR
WHITE ALICE TOWER**

ALASKA WIRELESS SERVICE (AWS)
AND
WINDY CITY CELLULAR (WCC)
ROAD TEST COVERAGE PARAMETERS

DATE OF TEST: MARCH 23, 2012

ROAD TESTS WERE CONDUCTED EARLY WITH A SINGLE HOKA PHONE THAT HAS A NETWORKER FIELD TEST APPLICATION THAT MEASURES RECEIVE (RX) LEVELS IN DECIBELS (dB). A COPY OF THE NETWORKER MANUAL WILL BE INCLUDED IN THE FINAL DELIVERABLES. NETWORKER FIELD TEST (N) WAS USED TO MEASURE RECEIVE LEVELS. NETWORKER TEST (O) WAS USED TO IDENTIFY THE SOURCE. AT EACH TEST LOCATION, AN AWS SIM CARD AND A WCC SIM CARD WERE ALTERNATELY INSERTED AND RECEIVE LEVELS RECORDED. THE SIGNAL LEVELS APPEAR ON THE MAP AT THE LOCATION/COORDINATE (SEE LEGEND FOR SYMBOLOLOGY DESCRIPTION). LOCATIONS WITH NO SIGNAL ARE INDICATED AS "N/A".

LEGEND



WINDY CITY CELLULAR	DATE	BY	FOR

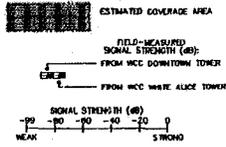
WINDY CITY CELLULAR COVERAGE AREA

ALASKA WIRELESS SERVICE (AWS)
AND
WINDY CITY CELLULAR (WCC)
ROAD TEST COVERAGE PARAMETERS

DATE OF TEST: MARCH 23, 2012

ROAD TESTS WERE CONDUCTED EARLY WITH A SINGLE NOKIA PHONE THAT HAS A RECOMMENDED FIELD TEST APPLICATION THAT MEASURES RECEIVE (R) LEVELS IN DECIBELS (dB). A COPY OF THE NETWORKER MANUAL WILL BE INCLUDED IN THE FINAL DELIVERABLE. THE NETWORKER FIELD TEST LOG WAS USED TO MEASURE RECEIVE LEVELS. RECOMMENDATION TEST LOG WAS USED TO IDENTIFY THE SOURCE. AT EACH TEST LOCATION, AN AWS SIM CARD AND A WCC SIM CARD WERE ALTERNATELY INSERTED AND RECEIVE LEVELS RECORDED. THE SIGNAL LEVELS APPEAR ON THE MAP AT THE ACQUISITION LOCATIONS (SEE LEGEND FOR SYMBOLOLOGY DESCRIPTION). LOCATIONS WITH NO SIGNAL ARE INDICATED AS "N/A".

LEGEND



WINDY CITY CELLULAR	DATE	BY	PROJECT
			WINDY CITY CELLULAR / WCC CELLULAR COVERAGE
			SCALE: 1:50,000
			DATE: 03/23/12