

**NATIONAL TRANSPORTATION SAFETY BOARD
PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT**

This form to be used for reporting civil and public use aircraft accidents and incidents

BASIC INFORMATION								
Accident/Incident Location Nearest City/Place: <u>Kenai</u> State: <u>AK</u> ZIP: <u>99611</u> Country: <u>USA</u> Latitude: <u>60°34.40'</u> (dd:mm:ss N/S) Longitude: <u>151°14.69'</u> (ddd:mm:ss E/W)					Date/Time Date: <u>07/14/2012</u> Local Time: <u>15:15</u> <i>mm/dd/yyyy</i> Time Zone: <u>ADT</u>			
Phase of Operation <input type="checkbox"/> Standing <input checked="" type="checkbox"/> Takeoff (incl. initial climb) <input type="checkbox"/> Cruise <input type="checkbox"/> Hover <input type="checkbox"/> Taxi <input type="checkbox"/> Climb <input type="checkbox"/> Maneuvering <input type="checkbox"/> Other <input type="checkbox"/> Descent <input type="checkbox"/> Landing <input type="checkbox"/> Approach <input type="checkbox"/> Unknown					Collision with Other Aircraft <input type="checkbox"/> Midair <input type="checkbox"/> On-ground <input checked="" type="checkbox"/> None		Altitude of In-Flight Occurrence <u>50</u> ft MSL	
AIRCRAFT INFORMATION								
Manufacturer: <u>Piper</u> Model: <u>PA-18-150</u> Serial Number: <u>18-8268</u> Registration Number: <u>N7154Z</u> Amateur-built: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Max Gross Weight: <u>2000</u> lbs Weight at Time of Accident/Incident: <u>2000</u> lbs Location of Center of Gravity at Time of Accident/Incident: <u>16.9</u> inches from <input type="checkbox"/> nose or <input checked="" type="checkbox"/> datum -or- _____ Percent Mean Aerodynamic Cord (% MAC)			
Category of Aircraft <input checked="" type="checkbox"/> Airplane <input type="checkbox"/> Balloon <input type="checkbox"/> Blimp/Dirigible <input type="checkbox"/> Glider <input type="checkbox"/> Gyrocraft <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered lift <input type="checkbox"/> Ultralight <input type="checkbox"/> Unknown		Type of Airworthiness Certificate (Check all that apply) Standard <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Utility <input type="checkbox"/> Acrobatic <input type="checkbox"/> Transport Special <input type="checkbox"/> Restricted <input type="checkbox"/> Limited <input type="checkbox"/> Provisional <input type="checkbox"/> Experimental <input type="checkbox"/> Special Flight <input type="checkbox"/> Light Sport		Number of Seats: <u>2</u> If Large Aircraft, how many seats for: Flight Crew: _____ Cabin Crew: _____ Passengers: _____		Landing Gear <input type="checkbox"/> Retractable Check any additional landing gear configuration that applies: <input type="checkbox"/> Tricycle <input type="checkbox"/> Tailwheel <input type="checkbox"/> Amphibian <input type="checkbox"/> High Skid <input type="checkbox"/> Emergency Float <input type="checkbox"/> Skid <input checked="" type="checkbox"/> Float <input type="checkbox"/> Ski <input type="checkbox"/> Hull <input type="checkbox"/> Ski/Wheel <input type="checkbox"/> Unknown		
Type of Maintenance Program <input checked="" type="checkbox"/> Annual <input type="checkbox"/> Conditional (Amateur-built only) <input type="checkbox"/> Manufacturer's Inspection Program <input type="checkbox"/> Other Approved Inspection Program (AAIP) <input type="checkbox"/> Continuous Airworthiness <input type="checkbox"/> Other, specify: _____			Last Inspection Type <input type="checkbox"/> 100 Hour <input type="checkbox"/> Continuous Airworthiness <input type="checkbox"/> AAIP <input type="checkbox"/> Conditional Inspection <input checked="" type="checkbox"/> Annual <input type="checkbox"/> Unknown			Date Last Inspection: <u>05/05/12</u> <i>mm/dd/yyyy</i> Airframe Total Time: <u>9335.7</u> hrs hours measured at (check one) <input type="checkbox"/> Last Inspection <input checked="" type="checkbox"/> Time of Accident/Incident		
IFR Equipped <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown			Stall Warning System Installed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown			Type of Fire Extinguishing System <input checked="" type="checkbox"/> None <input type="checkbox"/> Specify _____		
ELT Installed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ELT Activated <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			ELT Manufacturer: <u>ACK</u> Model/Series: <u>E-04</u> Serial Number: <u>004625</u> Battery Type: <u>Lithium</u> Battery Exp. Date: <u>01/31/2017</u>					
ELT Aided in Locating Accident/Incident <input type="checkbox"/> Yes <input type="checkbox"/> No			Engine Type <input checked="" type="checkbox"/> Reciprocating <input type="checkbox"/> Turbo Jet <input type="checkbox"/> Turbo Shaft <input type="checkbox"/> Turbo Fan <input type="checkbox"/> Turbo Prop <input type="checkbox"/> Unknown			Reciprocating Fuel System Type <input checked="" type="checkbox"/> Carburetor <input type="checkbox"/> Fuel Injected		
			Propeller <input checked="" type="checkbox"/> Fixed Pitch <input type="checkbox"/> Controllable Pitch Manufacturer: <u>McCauley</u> Model: <u>1A175 GM8242</u>					
Engine	Engine Manufacturer	Engine Model/Series	Manufacturer's Serial Number	Date of Mfg. <i>mm/dd/yyyy</i>	Engine Rated Power Measured as (check one) <input checked="" type="checkbox"/> Horsepower or <input type="checkbox"/> lbs of Thrust	Total Time (hours)	Time Since Inspection (hours)	Time Since Overhaul (hours)
Eng. 1	Lycoming	O-320-B2B	L-9315-39A	06/19/1979	150	4339.5	35.7	2335.7
Eng. 2								
Eng. 3								
Eng. 4								

OWNER/OPERATOR INFORMATION

<p>Registered Aircraft Owner Name: <u>Cary Foster & Sharmaine Vestal</u></p> <p>Fractional Ownership Aircraft: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>Owner Address City: <u>Anchorage</u> State: <u>AK</u> ZIP: <u>99515</u> Country: <u>USA</u></p>
<p>Operator of Aircraft <input checked="" type="checkbox"/> Same As Registered Owner</p> <p>Name: _____ Doing Business As: _____ Air Carrier/Operator Designator (4 Character Code): _____</p>	<p>Operator Address <input checked="" type="checkbox"/> Same As Registered Owner</p> <p>City: _____ State: _____ ZIP: _____ Country: _____</p>
<p>Regulation Flight Conducted Under</p> <p> <input checked="" type="checkbox"/> FAR 91 <input type="checkbox"/> FAR 129 <input type="checkbox"/> FAR 91 Special Flight <input type="checkbox"/> Public Use (select type) <input type="checkbox"/> FAR 103 <input type="checkbox"/> FAR 133 <input type="checkbox"/> Non-US, Commercial <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Local <input type="checkbox"/> FAR 121 <input type="checkbox"/> FAR 135 <input type="checkbox"/> Non-US, Non-commercial <input type="checkbox"/> Unknown <input type="checkbox"/> FAR 125 <input type="checkbox"/> FAR 137 <input type="checkbox"/> Armed Forces </p>	<p>Revenue Sightseeing Flight <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Air Medical Flight <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>

<p>Purpose of Flight for FAR 91, 103, 133, 137 (Select one)</p> <p> <input checked="" type="checkbox"/> Personal <input type="checkbox"/> Business <input type="checkbox"/> Executive/Corporate <input type="checkbox"/> Other Work Use <input type="checkbox"/> Instructional <input type="checkbox"/> Ferry <input type="checkbox"/> Positioning <input type="checkbox"/> Aerial Application <input type="checkbox"/> Aerial Observation <input type="checkbox"/> Air Drop <input type="checkbox"/> Air Race / Show <input type="checkbox"/> Flight Test <input type="checkbox"/> Public Use <input type="checkbox"/> Unknown </p>	<p>Revenue Operation for FAR 121, 125, 129, 135 (Select one)</p> <p> <input type="checkbox"/> Scheduled or Commuter <input type="checkbox"/> Non-Scheduled or Air Taxi </p> <p>Domestic or International</p> <p> <input type="checkbox"/> Domestic <input type="checkbox"/> International </p> <p>Cargo Operation</p> <p> <input type="checkbox"/> Passenger/Cargo <input type="checkbox"/> Passenger _____ How many? <input type="checkbox"/> Cargo _____ lbs <input type="checkbox"/> Mail </p>	<p>Type of Commercial Operating Certificate Held (Check all that apply)</p> <p> <input checked="" type="checkbox"/> None <input type="checkbox"/> Flag Carrier Operating Certificate (121) <input type="checkbox"/> Supplemental <input type="checkbox"/> Air Cargo <input type="checkbox"/> Foreign Air Carriers (129) <input type="checkbox"/> Commuter Air Carrier (135) <input type="checkbox"/> On-Demand Air Taxi (135) <input type="checkbox"/> Large Helicopter (127) <input type="checkbox"/> Rotorcraft External Load (133) - or - <input type="checkbox"/> Agricultural Aircraft (137) <input type="checkbox"/> Other Operator of Large Aircraft </p>
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OTHER AIRCRAFT – COLLISION (If air or ground collision occurred, complete this section for other aircraft)

Aircraft Registration Number: _____	Manufacturer: _____ Model: _____	Damage to Other Aircraft <input type="checkbox"/> Destroyed <input type="checkbox"/> Minor <input type="checkbox"/> Substantial <input type="checkbox"/> None
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Registered Owner of Other Aircraft

First Name: _____ City: _____
 Middle Initial: _____ State: _____ ZIP: _____
 Last Name: _____ Country: _____

Pilot of Other Aircraft

First Name: _____ City: _____
 Middle Initial: _____ State: _____ ZIP: _____
 Last Name: _____ Country: _____

MECHANICAL MALFUNCTION/FAILURE (If more space is needed, continue on separate sheet)

<p>Was there Mechanical Malfunction/Failure? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If yes, list the name of the part, manufacturer, part no., serial no., and describe the failure.)</p> <p>Propeller Fracture of one Blade approximately 9 inches missing.</p> <p>McCauley: Model # 1A175, s/n CD042</p>	<p>Total Time/Cycles On Part</p> <p>_____ Hours _____ Cycles</p> <p>Time Since This Part Inspected/Overhauled</p> <p>_____ Hours</p>
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DAMAGE TO AIRCRAFT AND OTHER PROPERTY

<p>Aircraft Damage</p> <p> <input type="checkbox"/> None <input checked="" type="checkbox"/> Substantial <input type="checkbox"/> Minor <input type="checkbox"/> Destroyed </p>	<p>Aircraft Fire</p> <p> <input checked="" type="checkbox"/> None <input type="checkbox"/> Both Ground and In-Flight <input type="checkbox"/> In-Flight <input type="checkbox"/> Unknown Origin <input type="checkbox"/> On-Ground </p>	<p>Aircraft Explosion</p> <p> <input checked="" type="checkbox"/> None <input type="checkbox"/> Both Ground and In-Flight <input type="checkbox"/> In-Flight <input type="checkbox"/> Unknown Origin <input type="checkbox"/> On-Ground </p>
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Description of Damage to Aircraft and Other Property (use additional sheet if necessary)

The fuselage was damaged at the wing attach points and the float attach points. The engine cowling was damaged. The Wing spars were damaged at the fuselage attach points, as well at both lift struts on both wings. One aileron was damaged. Both the floats and the float rigging was damaged.

AIRPORT INFORMATION (If the accident/incident occurred on approach, takeoff or within 3 miles of an airport, complete this section)

Airport Identifier: _____ **Distance From Airport Center:** _____ SM
Airport Name: _____ **Direction From Airport:** _____ degrees MAG
Proximity to Airport Off Airport/Airstrip On Airport On Airstrip **Airport Elevation:** _____ ft. MSL

Approach Segment (Select one)
 On Instrument Approach Landing Base leg Final Go Around
 Crosswind Downwind Low Approach Aborted Landing (after touchdown)

IFR Approach (Check all that apply)
 None PAR MLS Practice
 ADF/NDB Sidestep LDA GPS
 SDF ILS ASR Loran
 VOR/TVOR Localizer Only Visual Unknown
 VOR/DME LOC-back course Contact
 TACAN RNAV Circling

VFR Approach (Check all that apply)
 None Stop and Go
 Traffic Pattern Touch and Go
 Straight-In Simulated Forced Landing
 Valley/Terrain Following Forced Landing
 Go Around Precautionary Landing
 Full Stop Unknown

Runway Information
Runway ID: _____ (L/R/C) Length: _____ ft Width: _____ ft

Runway/Landing Surface (Check all that apply)
 Asphalt Grass/Turf Macadam Water
 Concrete Gravel Metal/Wood Unknown
 Dirt Ice Snow

Condition of Runway/Landing Surface (Check all that apply)
 Dry Snow-Compacted Water-Calm
 Holes Snow-Crusted Water-Choppy
 Ice Covered Snow-Dry Water-Glassy
 Rough Snow-Wet Wet
 Rubber Deposits Soft Unknown
 Slush Covered Vegetation

FLIGHT ITINERARY INFORMATION

Last Departure Point Airport ID: <u>Konovalof Lake</u> City: <u>Kenai</u> State: <u>AK</u> Country: <u>USA</u>	Time of Departure Time: <u>15:15</u> Time Zone: <u>ADT</u>	Destination Airport ID: <u>LHD</u> City: <u>Anchorage</u> State: <u>AK</u> Country: <u>USA</u>	Type Flight Plan Filed <input checked="" type="checkbox"/> None <input type="checkbox"/> VFR/IFR <input type="checkbox"/> Company VFR <input type="checkbox"/> IFR <input type="checkbox"/> Military VFR <input type="checkbox"/> Unknown <input type="checkbox"/> VFR Activated? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Type of ATC Clearance/Service (Check all that apply)
 None Special VFR Special IFR VFR Flight Following Cruise
 VFR IFR VFR On Top Traffic Advisory Unknown / NA

Airspace where the accident/incident occurred (Check all that apply)
 Class A Class E Prohibited Area Jet Training Area Special
 Class B Class G Restricted Area TRSA Air Traffic Control Area
 Class C Demo Area Military Operations Area (MOA) FAR 93 Unknown
 Class D Warning Area Airport Advisory Area

Aircraft Load Description (Check all that apply)
 None Towing Glider Parachutists Livestock
 Passengers Towing Banner Water Unknown
 Cargo Other External Chemical/Fertilizer/Seeds

FUEL & SERVICES INFORMATION

Fuel on Board at Last Takeoff (convert from pounds, as necessary)
_____ 16 Gallons

Fuel Type
 80/87 115/145 JP3 Other, specify _____
 100 Low Lead Jet A JP4
 100/130 Automotive JP5

Other Services, if Any, Prior to Departure

EVACUATION OF AIRCRAFT

Was an emergency evacuation of the aircraft performed? Yes No

Method of Exit – Describe how the occupants exited and how many occupants evacuated each location

Both Pilot and passenger exited through the front windshield. Two occupants total.

WEATHER INFORMATION AT THE ACCIDENT/INCIDENT SITE

Weather Observation Facility

Facility ID: Observation

Observation Time: 15:00

Time Zone: ADT

Distance from Accident Site: 0 NM

Direction from Accident Site: 0 degrees MAG

Source of Weather Information

(Check all that apply)

- | | |
|-------------------------------------------------------------|-----------------------------------|
| <input type="checkbox"/> National Weather Service | <input type="checkbox"/> Company |
| <input type="checkbox"/> Flight Service Station | <input type="checkbox"/> Military |
| <input type="checkbox"/> TV/Radio | <input type="checkbox"/> Internet |
| <input type="checkbox"/> Automated Report | <input type="checkbox"/> Unknown |
| <input type="checkbox"/> Commercial Weather Service (DUATS) | |

Method of Briefing

(Check all that apply)

- | |
|---------------------------------------------|
| <input type="checkbox"/> In Person |
| <input type="checkbox"/> Teletype |
| <input type="checkbox"/> Telephone/Computer |
| <input type="checkbox"/> Aircraft Radio |
| <input type="checkbox"/> TV/Radio |
| <input type="checkbox"/> Unknown |

Briefing Type/Completeness

- | | |
|-------------------------------------------------------|----------------------------------------|
| <input type="checkbox"/> Full | <input type="checkbox"/> Abbreviated |
| <input type="checkbox"/> Partial / Limited By Pilot | <input type="checkbox"/> Unknown |
| <input type="checkbox"/> Partial / Limited By Briefer | <input type="checkbox"/> Not Pertinent |

Light Condition

- | | | |
|-----------------------------------------|--------------------------------|---------------------------------------|
| <input type="checkbox"/> Dawn | <input type="checkbox"/> Dusk | <input type="checkbox"/> Dark Night |
| <input checked="" type="checkbox"/> Day | <input type="checkbox"/> Night | <input type="checkbox"/> Bright Night |
| <input type="checkbox"/> Not Reported | | |

Visibility

10+ miles

Sky/Lowest Cloud Condition

- | | |
|----------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Clear | <input type="checkbox"/> Thin Broken |
| <input type="checkbox"/> Few | <input checked="" type="checkbox"/> Thin Overcast |
| <input type="checkbox"/> Partial Obscuration | <input type="checkbox"/> Unknown |
| <input type="checkbox"/> Scattered | |

Ceiling

- | | |
|----------------------------------------------|-------------------------------------|
| <input type="checkbox"/> None (clear) | <input type="checkbox"/> Obscured |
| <input type="checkbox"/> Broken | <input type="checkbox"/> Indefinite |
| <input checked="" type="checkbox"/> Overcast | <input type="checkbox"/> Unknown |

Restriction to Visibility *(Check all that apply)*

- | | |
|------------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> None | <input type="checkbox"/> Fog |
| <input type="checkbox"/> Blowing Dust | <input type="checkbox"/> Ground Fog |
| <input type="checkbox"/> Blowing Sand | <input type="checkbox"/> Haze |
| <input type="checkbox"/> Blowing Snow | <input type="checkbox"/> Ice Fog |
| <input type="checkbox"/> Blowing Spray | <input type="checkbox"/> Smoke |
| <input type="checkbox"/> Dust | <input type="checkbox"/> Unknown |

Lowest Cloud Condition Height

estimated 4000 ft AGL

Ceiling Height

estimated 5000 ft AGL

Wind Direction

- Indicated:
_____ degrees MAG
- Variable

Wind Speed

Velocity: _____ KTS

-or-

Calm

Light and Variable

Wind Gusts

Velocity: _____ KTS

Gusting

Not Gusting

Type of Turbulence *(Check all that apply)*

- | | |
|------------------------------------------|---------------------------------------------------|
| <input checked="" type="checkbox"/> None | <input type="checkbox"/> In Clouds |
| <input type="checkbox"/> Clear Air | <input type="checkbox"/> Vicinity of Thunderstorm |

Severity of Turbulence

- | | | |
|----------------------------------|----------------------------------------|--------------------------------|
| <input type="checkbox"/> Extreme | <input type="checkbox"/> Moderate | <input type="checkbox"/> Light |
| <input type="checkbox"/> Severe | <input type="checkbox"/> Moderate Chop | |

NOTAMS (D, L and FDC), AIRMETS, SIGMETs, PIREPs in effect at the time of the accident/incident

Temperature: _____ (C)
or _____ (F)

Altimeter Setting: _____ in. HG
or _____ MB

Density Altitude: _____ ft

Dew Point: _____ (C)
or _____ (F)

Icing Forecast

- | | | |
|------------------------------------------|-----------------------------------|--------------------------------|
| Amount | | Type |
| <input checked="" type="checkbox"/> None | <input type="checkbox"/> Moderate | <input type="checkbox"/> Rime |
| <input type="checkbox"/> Trace | <input type="checkbox"/> Severe | <input type="checkbox"/> Clear |
| <input type="checkbox"/> Light | | <input type="checkbox"/> Mixed |

Icing Actual

- | | | |
|------------------------------------------|-----------------------------------|--------------------------------|
| Amount | | Type |
| <input checked="" type="checkbox"/> None | <input type="checkbox"/> Moderate | <input type="checkbox"/> Rime |
| <input type="checkbox"/> Trace | <input type="checkbox"/> Severe | <input type="checkbox"/> Clear |
| <input type="checkbox"/> Light | | <input type="checkbox"/> Mixed |

Type of Precipitation *(Check all that apply)*

- | | |
|------------------------------------------|---------------------------------------------|
| <input checked="" type="checkbox"/> None | <input type="checkbox"/> Drizzle |
| <input type="checkbox"/> Rain | <input type="checkbox"/> Ice Pellets |
| <input type="checkbox"/> Snow | <input type="checkbox"/> Snow Pellets |
| <input type="checkbox"/> Hail | <input type="checkbox"/> Snow Grains |
| <input type="checkbox"/> Rain Showers | <input type="checkbox"/> Ice Crystals |
| <input type="checkbox"/> Freezing Rain | <input type="checkbox"/> Ice Pellets Shower |
| <input type="checkbox"/> Snow Shower | <input type="checkbox"/> Freezing Drizzle |

Intensity of Precipitation

- Light Moderate Heavy

PILOT "A" INFORMATION

Pilot "A" Responsibilities at the Time of Accident/Incident

- Pilot
 Co-Pilot
 Student Pilot
 Flight Instructor
 Check Pilot
 Flight Engineer
 Other Flight Crew

Pilot "A" Identification

First Name: Tyler City: Anchorage
 Middle Initial: S State: AK ZIP: 99517
 Last Name: Renner Country: USA
 Age at time of Accident/Incident: 42 Date of Birth: ____/1970 Certificate Number: _____

Degree of Injury <input checked="" type="checkbox"/> None <input type="checkbox"/> Fatal <input type="checkbox"/> Minor <input type="checkbox"/> Unknown <input type="checkbox"/> Serious	Seat Occupied <input type="checkbox"/> Left <input checked="" type="checkbox"/> Front <input type="checkbox"/> Unknown <input type="checkbox"/> Right <input type="checkbox"/> Rear <input type="checkbox"/> Center <input type="checkbox"/> Single	Seat Belt Used <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Available <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Shoulder Harness Used <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Available <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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Pilot Certificate(s) *(Check all that apply)*

None
 Student
 Recreational
 Commercial
 Flight Engineer
 Foreign
 Private
 Flight Instructor
 Sport
 Airline Transport
 U.S. Military

Principal Occupation <input checked="" type="checkbox"/> Pilot <input type="checkbox"/> Other <input type="checkbox"/> Unknown	Medical Certificate <input type="checkbox"/> None <input type="checkbox"/> Class 3 <input checked="" type="checkbox"/> Class 1 <input type="checkbox"/> Driver's License (Sport Pilot only) <input type="checkbox"/> Class 2 <input type="checkbox"/> Unknown	Medical Certificate Validity <input checked="" type="checkbox"/> Without limitations/waivers <input type="checkbox"/> With limitations/waivers <input type="checkbox"/> Unknown	Date of Last Medical <u>12/22/2011</u> <i>mm/dd/yyyy</i>
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Medical Certificate Limitations

None

Medical Certificate Waivers

None

Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks: 01/06/2012
mm/dd/yyyy

Flight Review Aircraft
 Make: Cessna CE-560 Simulator at SimuFlite in Dallas, TX.
 Model: _____

Airplane Rating(s) <i>(Check all that apply)</i> <input type="checkbox"/> None <input checked="" type="checkbox"/> Single-Engine Land <input checked="" type="checkbox"/> Single-Engine Sea <input checked="" type="checkbox"/> Multiengine Land <input type="checkbox"/> Multiengine Sea	Other Aircraft Rating(s) <i>(Check all that apply)</i> <input checked="" type="checkbox"/> None <input type="checkbox"/> Airship <input type="checkbox"/> Free Balloon <input type="checkbox"/> Glider <input type="checkbox"/> Gyroplane <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered Lift	Instrument Rating(s) <i>(Check all that apply)</i> <input type="checkbox"/> None <input checked="" type="checkbox"/> Airplane <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered Lift	Instructor Rating(s) <i>(Check all that apply)</i> <input checked="" type="checkbox"/> None <input type="checkbox"/> Airplane Single-Engine <input type="checkbox"/> Airplane Multi-Engine <input type="checkbox"/> Gyroplane <input type="checkbox"/> Powered Lift <input type="checkbox"/> Instrument Airplane <input type="checkbox"/> Instrument Helicopter <input type="checkbox"/> Helicopter <input type="checkbox"/> Glider <input type="checkbox"/> Sport
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Type Ratings
CE-500, CE-560XL

Student Endorsements *(Include dates)*

Flight Time <i>(enter appropriate number of hours in each box)</i>	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air
						Actual	Simulated			
Total Time	5837	18.4	1198	4639	1241	350.4	64	0	0	0
Pilot in Command (PIC)	3597	18.4	1143	2669	836	262.8	64	0	0	0
Time as Instructor	0	0	0	0	0	0	0	0	0	0
This Make/Model					0	0	0			
Last 90 Days	76	3.2	43.2	40	0	8.4	0	0	0	0
Last 30 Days	25	0	16.2	15	0	2.7	0	0	0	0
Last 24 Hours	.6	.6	.6	0	0	0	0	0	0	0

PILOT "B" INFORMATION

Pilot "B" Responsibilities at the Time of Accident/Incident

Pilot
 Co-Pilot
 Student Pilot
 Flight Instructor
 Check Pilot
 Flight Engineer
 Other Flight Crew

Pilot "B" Identification

First Name: _____ City: _____
 Middle Initial: _____ State: _____ ZIP: _____
 Last Name: _____ Country: _____
 Age at time of Accident/Incident: _____ Date of Birth: _____ Certificate Number: _____
mm/dd/yyyy

Degree of Injury <input type="checkbox"/> None <input type="checkbox"/> Fatal <input type="checkbox"/> Minor <input type="checkbox"/> Unknown <input type="checkbox"/> Serious	Seat Occupied <input type="checkbox"/> Left <input type="checkbox"/> Front <input type="checkbox"/> Unknown <input type="checkbox"/> Right <input type="checkbox"/> Rear <input type="checkbox"/> Center <input type="checkbox"/> Single	Seat Belt Used <input type="checkbox"/> Yes <input type="checkbox"/> No Available <input type="checkbox"/> Yes <input type="checkbox"/> No	Shoulder Harness Used <input type="checkbox"/> Yes <input type="checkbox"/> No Available <input type="checkbox"/> Yes <input type="checkbox"/> No
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Pilot Certificate(s) (Check all that apply)

None Student Recreational Commercial Flight Engineer Foreign
 Private Flight Instructor Sport Airline Transport U.S. Military

Principal Occupation <input type="checkbox"/> Pilot <input type="checkbox"/> Other <input type="checkbox"/> Unknown	Medical Certificate <input type="checkbox"/> None <input type="checkbox"/> Class 3 <input type="checkbox"/> Class 1 <input type="checkbox"/> Driver's License (Sport Pilot only) <input type="checkbox"/> Class 2 <input type="checkbox"/> Unknown	Medical Certificate Validity <input type="checkbox"/> Without limitations/waivers <input type="checkbox"/> With limitations/waivers <input type="checkbox"/> Unknown	Date of Last Medical _____ <i>mm/dd/yyyy</i>
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Medical Certificate Limitations

Medical Certificate Waivers

Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks: _____ <i>mm/dd/yyyy</i>	Flight Review Aircraft Make: _____ Model: _____
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Airplane Rating(s) <i>(Check all that apply)</i> <input type="checkbox"/> None <input type="checkbox"/> Single-Engine Land <input type="checkbox"/> Single-Engine Sea <input type="checkbox"/> Multiengine Land <input type="checkbox"/> Multiengine Sea	Other Aircraft Rating(s) <i>(Check all that apply)</i> <input type="checkbox"/> None <input type="checkbox"/> Airship <input type="checkbox"/> Free Balloon <input type="checkbox"/> Glider <input type="checkbox"/> Gyroplane <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered Lift	Instrument Rating(s) <i>(Check all that apply)</i> <input type="checkbox"/> None <input type="checkbox"/> Airplane <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered Lift	Instructor Rating(s) <i>(Check all that apply)</i> <input type="checkbox"/> None <input type="checkbox"/> Airplane Single-Engine <input type="checkbox"/> Airplane Multi-Engine <input type="checkbox"/> Gyroplane <input type="checkbox"/> Powered Lift <input type="checkbox"/> Instrument Airplane <input type="checkbox"/> Instrument Helicopter <input type="checkbox"/> Helicopter <input type="checkbox"/> Glider <input type="checkbox"/> Sport
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Type Ratings	Student Endorsements <i>(Include dates)</i>
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Flight Time <i>(enter appropriate number of hours in each box)</i>	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air
						Actual	Simulated			
Total Time										
Pilot in Command (PIC)										
Time as Instructor										
This Make/Model										
Last 90 Days										
Last 30 Days										
Last 24 Hours										

ADDITIONAL FLIGHT CREW MEMBERS (Exclusive of cabin attendants, complete the following information)

Pilot Name and Address		Degree of Injury	
First Name: _____	City: _____	<input type="checkbox"/> None	<input type="checkbox"/> Fatal
Middle Initial: _____	State: _____ ZIP: _____	<input type="checkbox"/> Minor	<input type="checkbox"/> Unknown
Last Name: _____	Country: _____	<input type="checkbox"/> Serious	
Pilot Certificate(s) (Check all that apply)		Seat Occupied	
<input type="checkbox"/> None	<input type="checkbox"/> Student	<input type="checkbox"/> Recreational	<input type="checkbox"/> Commercial
<input type="checkbox"/> Private	<input type="checkbox"/> Flight Instructor	<input type="checkbox"/> Sport	<input type="checkbox"/> Airline Transport
		<input type="checkbox"/> Flight Engineer	<input type="checkbox"/> Foreign
		<input type="checkbox"/> U.S. Military	
Type Rating/Endorsement for Accident/Incident Aircraft? <input type="checkbox"/> Yes <input type="checkbox"/> No		Total Flight Time at the Time of this Accident/Incident: _____ hrs	

Pilot Name and Address		Degree of Injury	
First Name: _____	City: _____	<input type="checkbox"/> None	<input type="checkbox"/> Fatal
Middle Initial: _____	State: _____ ZIP: _____	<input type="checkbox"/> Minor	<input type="checkbox"/> Unknown
Last Name: _____	Country: _____	<input type="checkbox"/> Serious	
Pilot Certificate(s) (Check all that apply)		Seat Occupied	
<input type="checkbox"/> None	<input type="checkbox"/> Student	<input type="checkbox"/> Recreational	<input type="checkbox"/> Commercial
<input type="checkbox"/> Private	<input type="checkbox"/> Flight Instructor	<input type="checkbox"/> Sport	<input type="checkbox"/> Airline Transport
		<input type="checkbox"/> Flight Engineer	<input type="checkbox"/> Foreign
		<input type="checkbox"/> U.S. Military	
Type Rating/Endorsement for Accident/Incident Aircraft? <input type="checkbox"/> Yes <input type="checkbox"/> No		Total Flight Time at the Time of this Accident/Incident: _____ hrs	

Pilot Name and Address		Degree of Injury	
First Name: _____	City: _____	<input type="checkbox"/> None	<input type="checkbox"/> Fatal
Middle Initial: _____	State: _____ ZIP: _____	<input type="checkbox"/> Minor	<input type="checkbox"/> Unknown
Last Name: _____	Country: _____	<input type="checkbox"/> Serious	
Pilot Certificate(s) (Check all that apply)		Seat Occupied	
<input type="checkbox"/> None	<input type="checkbox"/> Student	<input type="checkbox"/> Recreational	<input type="checkbox"/> Commercial
<input type="checkbox"/> Private	<input type="checkbox"/> Flight Instructor	<input type="checkbox"/> Sport	<input type="checkbox"/> Airline Transport
		<input type="checkbox"/> Flight Engineer	<input type="checkbox"/> Foreign
		<input type="checkbox"/> U.S. Military	
Type Rating/Endorsement for Accident/Incident Aircraft? <input type="checkbox"/> Yes <input type="checkbox"/> No		Total Flight Time at the Time of this Accident/Incident: _____ hrs	

PASSENGER(S) / OTHER PERSONNEL (Include flight attendants; continue on separate sheet if necessary)

Name and Address	Seat	Crew	Non-Revenue	Revenue	Non-Occupant	FAA	Fatal	Serious Injury	Minor Injury	No Injury	Unknown
First Name: <u>Michael</u> City: <u>Anchorage</u> Middle Initial: <u>J</u> State: <u>AK</u> ZIP: <u>99516</u> Last Name: <u>Makar</u> Country: <u>USA</u>	Rear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NARRATIVE HISTORY OF FLIGHT (Please type or print in ink)

Describe what occurred in chronological order, including circumstances leading to and nature of accident/incident. Describe terrain and include wreckage distribution sketch if pertinent. Attach extra sheets if needed. State time and point of departure, intended destination, and services obtained.

The accident occurred on July 14th, 2012 at approximately 15:15 LCL ADT on Konovalof Lake, Kenai, AK. with a destination of Lake Hood Seaplane base in Anchorage, AK. no services were obtained. The terrain was a lake surrounded by trees with small rises in the terrain.

I started my take-off from northeast end of the lake and the take-off was normal. I lowered the nose to gain airspeed at about 50 feet. Twelve seconds after lift-off approximately 9 inches broke off of one blade of the propeller. The aircraft shook violently and lost airspeed rapidly. I pulled the throttle to idle, with no change to the vibration I pulled out the mixture and started a left turn to avoid trees as I was at the end of the lake. I impacted the water nine seconds after initial indication of a problem in a nose low attitude as I could not get out of the sink rate that I was in. The aircraft remained intact and upright in the water approximately 20 yards from an island at the end of the lake.

RECOMMENDATION (How could this accident/incident have been prevented?)

Operator/Owner Safety Recommendation

Unknown at this time.

ADDITIONAL INFORMATION (Please type or print in ink)

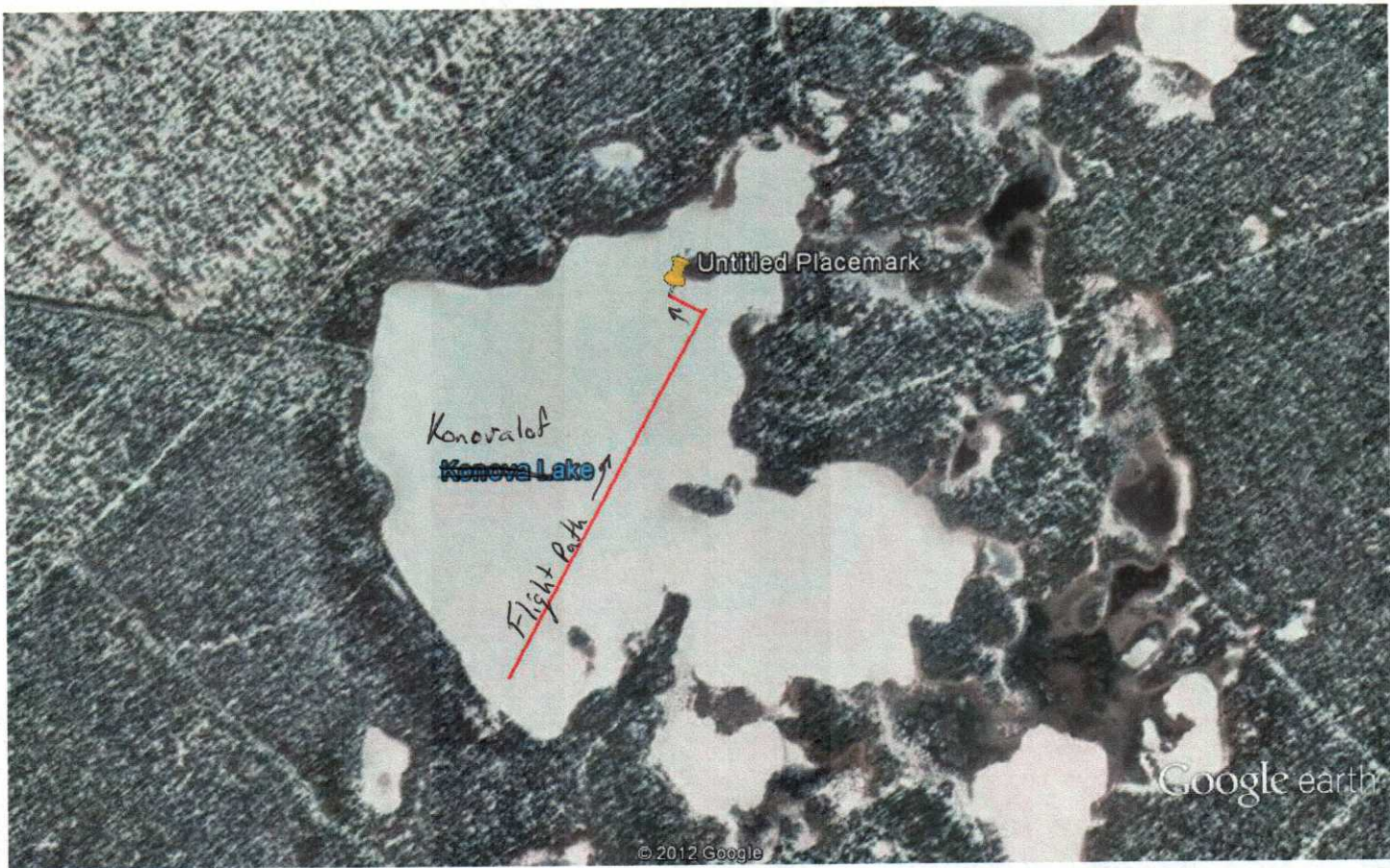
Use this space if additional space is needed for any answers.

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Date of this Report 07/31/2012 <i>mm/dd/yyyy</i>	Signature and Name of Pilot/Operator Signature: _____ Type or Print Name: <u>Tyler S. Renner</u>
Signature and Name of Person Filing Report if Other than Pilot/Operator Signature: _____ Type or Print Name: _____ Title: _____	

FOR NTSB USE ONLY

NTSB Accident/Incident No. ANC124A075	Reviewed by NTSB Regional Office Anchorage, ALASKA	Name of Investigator Johnson	Date Report Received 08/05/12
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Untitled Placemark

Konovalof
Konovalof Lake

Flight Path

Google earth

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