



Parent Club Sponsored Reproduction Banks **TOOLKIT**

From AKC...

This toolkit, developed by the American Kennel Club with the help of Dr. Joellen Gregory and Dr. Marti Greer, was created to provide an additional tool for AKC Parent Clubs in their work to protect and preserve their breeds. Following the process herein, an interested Parent Club can establish a Parent Club Sponsored Reproduction Bank with AKC litter registration privileges that could be utilized by the club to effectively impact the long-term health and viability of its breed.

Vanessa Skou, AKC Sr. Breeder Field Rep, is the manager of this project and will continue to be the key contact for any clubs seeking additional information.

Mark Dunn
AKC Executive Vice President



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Embedded Links:

This toolkit contains embedded links to online web pages and documents that will be useful to the user.

Therefore, it is best to share and view this toolkit electronically, so that links may be accessed via internet connection.



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Overview

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BACKGROUND

Preservation of our breeds has become a central issue of focus for many AKC Parent Clubs. Preservation is not just for the breeds with lower than average levels of breeding activity, but for any breed that faces genetic bottlenecks or other genetic difficulties, now or in the future.

In September 2016, the Otterhound Club of America (OHCA) sent a letter to the AKC Board of Directors asking to establish a Reproduction Bank that would be charged with the responsibility of managing Otterhound frozen semen deposits in a manner that would preserve and protect their breed. Simply preserving genetic material without using it, argued the OHCA, would not be useful; the club requested that AKC allow litters produced using the club's banked semen to be AKC registerable.

The AKC Board voted to approve the OHCA request.

The OHCA and AKC Delegate Joellen Gregory have volunteered to share their experience with other Parent Clubs. Check out their website to learn more www.ohca-reprobank.org

This document was inspired by the OHCA's work and its recommendations draw on the experience and knowledge of Dr. Gregory and Dr. Greer.



AKC BOARD POLICY

Approved in February 2017, AKC Board Policy was modified to add the following:

With AKC Board Approval, a Parent Club sponsored, breed specific, frozen semen bank may be allowed to own frozen semen and to apply for frozen semen litter registration as a semen owner. Parent Clubs seeking to establish such an entity must petition the AKC Board via letter signed by the club's current president. The letter should explain the club's purpose for establishing the bank and acceptably document its incorporation and organizational relationship to the petitioning Parent Club. Upon Board approval, the bank must annually provide AKC with a listing of signatories for use in AKC Registration matters.

<https://www.akc.org/rules/policy-manual/policy-manual-registration/>

AKC BOARD POLICY cont.

The AKC Board also approved the addition of the following statement to the *AKC Procedures for Registration Matters, XI., C.:*

5. With AKC Board approval, a Parent Club sponsored, breed specific, frozen semen bank may be allowed to own frozen semen and to apply for frozen semen litter registration as a semen owner, provided all other requirements to register the litter are met. Such an entity must have a valid Annual Breed Reproductive Bank Signatory Authorization form on file listing those semen bank officer(s) authorized to sign the frozen semen litter applications on behalf of the organization. The Annual Breed Reproductive Bank Signatory Authorization must include the signature of the applicable parent club president. The authorization form must be resubmitted annually.

<http://images.akc.org/pdf/rulebooks/RREGS2.pdf>



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Parent Club Letter to the
AKC Board of Directors

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American Kennel Club Board policy states “...*Parent Clubs seeking to establish such an entity must petition the AKC Board via letter signed by the club’s current president. The letter should explain the club’s purpose for establishing the bank and acceptably document its incorporation and organizational relationship to the petitioning Parent Club.*”

On the following page is the Otterhound Club of America’s petition for recognition of the reproduction bank.

Send the petitioning letter, signed by the Parent Club President to:

AKC Board of Directors
101 Park Avenue, FL 5
New York, NY 10178



September 16, 2016

President: Betsy Conway
114 Grist Mill Road
Schuylkill Haven, PA 17971
570-739-7074
scentasia@aol.com

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920-868-2058
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Board of Directors:
Tom Develin
25 Knoll Circle
Boyertown, PA 19512
610-367-8230

AKC Board of Directors
260 Madison Avenue, 4th fl
New York, NY 10016

Dear AKC Board of Directors:

The Otterhound Club of America's mission is to preserve, protect and promote the Otterhound. The OHCA is also acutely aware of the difficulties that are facing our breed, historically one of the lowest registered breeds. We are looking for improved ways to preserve and protect our breed, so have developed an Otterhound Reproductive Bank. The Reproductive Bank will be an LLC under the umbrella of the OHCA, LLC.

We envision that the Reproductive Bank will be the recipient of frozen semen at this point in time, but we look forward to expanding the scope of the Bank as more options are made available to the canine. The Bank will accept frozen semen from owners, who will transfer ownership to the Bank. The Bank may also request for (and finance) deposits from other male dogs whose genetics are deemed important for the future of the breed. In addition, the Bank can be a recipient of willed semen should the owner of the semen pass. The Bank will also work with owners of frozen semen to provide appropriate legal documents to allow transfer of their property to the Bank.

SAMPLE

Thomden@comcast.net

Wayne Kline
1045 Ridge Rd.
Rising Sun, MD 21911
717-548-1266
w_kline@hotmail.com

Rusty Mellon
714 40th Ave.
Greeley, CO 80634
970-352-3553
howlawray@juno.com

Wayne Plucheck
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Bennett, CO 80102
303-644-4433
Wayneplucheck1@msn.com

Sherri Malone
3779 Sussex Drive NE
Milledgeville, GA 31061
317-730-4369
wrfish@yahoo.com

In order to move forward with the development of the Otterhound Reproductive Bank, we are looking for approval from the AKC Board of Directors to allow an LLC to own semen; and allow for registration of puppies produced by the semen owned by the Reproductive Bank.

We are open to ideas and input from the AKC regarding the setup of the charter and bylaws to best serve the purposes of the Otterhound Reproductive Bank within the rules of AKC registration.

Please contact Joellen Gregory, DVM at joellen.gregory@gmail.com or 301/788-9810 with any questions or comments.

Thank you for your consideration,

Joellen Gregory, DVM, OHCA Health Committee Chair, AKC Delegate

Elizabeth Conway, OHCA President

Rebecca Van Houten, OHCA Secretary

Sarah MacQuiddy, Linda Schrader, Members, Reproductive Bank Committee



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Establish a
Reproduction Bank

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SECTION OUTLINE

- a) Develop Bylaws for the Parent Club Sponsored Reproductive Bank (PCSRB)
- b) Develop Qualifications for participation
- c) Create an Application for collecting semen for frozen storage
- d) Create a Deed of Gift form for semen to be transferred to the PCSRB
 - a) Upon death of a semen owner
 - b) Upon collection
- e) Develop relationships with semen storage facilities that will store deposited PCSRB-owned semen

To establish a PCSRB, the American Kennel Club recommends that the Parent Club seek the counsel of the Parent Club's attorney regarding the establishment of such a legal entity. For example, the Otterhound Club of America created the OHCA Reproduction Bank Inc., an entity separate from the OHCA and designated as a 501(c)(3).

DEVELOP BYLAWS

To maintain consistency in the running of any Reproduction Bank, by-laws should be created to communicate organizational rules so internal disputes and conflict can be avoided.

Following is a link to the Otterhound Club of American Reproduction Bank bylaws:
<https://www.ohca-reprobank.org/documents.html>

QUALIFICATIONS TO PARTICIPATE – STUD DOGS

Following is an example of qualifications that the Otterhound Club of America Reproduction Bank, Inc. developed for stud dog eligibility to donate. Other Parent Clubs may have different or additional requirements.

1. Dogs must have CHIC number when semen is used. If a dog is collected prior to age of eligibility to acquire a CHIC number, the owner of the dog is responsible for costs associated with appropriate testing for CHIC number. Note: Should the owner of the dog choose not to complete the appropriate testing by the age of 4, the owner of the dog will owe the semen bank the associated fees from the time it was collected until the age of 4, at which point the semen will be discarded.
2. Must be in good health, of sound temperament and of good disposition as described in the Otterhound standard.
3. The board of the bank will use their discretion to determine if certain dogs would be asked for collection for the Bank.
4. Owners of semen do not need to be members of the OHCA.
5. The Reproduction Bank board will make all decisions on use of or continuation of storage of semen.
6. Dogs must have a negative brucellosis test within one month of semen freezing.

QUALIFICATIONS TO PARTICIPATE – BROOD BITCHES

Following is an example of qualifications that the Otterhound Club of America Reproduction Bank, Inc. developed for Brood Bitches to utilize the stored semen. Other Parent Clubs may have different or additional requirements.

1. Bitches must be a minimum of two years of age but prior to their seventh birthday.
2. Must meet the qualifications for a CHIC number prior to the planned breeding.
3. Must be in good health, of sound temperament and of good conformation as described in the Otterhound standard.
4. Must use quantitative ovulation timing (i.e. progesterone testing).
5. Breeder must be a member in good standing of the Otterhound Club of America.
6. Must be at least 6 months since last heat or 4 months from the last litter with documentation from veterinarian stating bitch is in good health for breeding.
7. Must have negative brucellosis test within 2 weeks of breeding.

CREATE AN APPLICATION

When possible, it is best to have as much information on file regarding the stud dogs that are represented in your semen bank, including health clearances and other phenotypic data.

[Sample of Otterhound Club Application click here](#)

Application for Semen Collection

Application for collecting Otterhound semen for frozen storage

Registered name: _____
Call name: _____
Date of birth: _____
Registered number AKC or other: _____
Microchip and or Tattoo number: _____

Appearance:
Color: registered _____
 current _____
Eye color: _____
Nose color: _____
Height: at shoulder _____
Body length: from chest to base of tail _____
Weight: _____

CHIC number: _____
DNA number: _____
Test scores: all available
HIPS: _____
Elbows: _____
Other list test and scores: _____

Glanzmann's: Clear _____ Carrier _____ Affected _____
Please include copies of all certificates – CHIC, OFA etc.

Health:
Temperament:
Outgoing _____ Friendly _____ Timid _____
Nervous _____ Aggressive _____
Good with strangers _____
Good with other animals _____
Additional information _____

SAMPLE
Page 1

CREATE AN APPLICATION cont.

Bite:
Scissors _____ Overbite _____ Underbite _____ Unknown _____
Thyroid: OK _____ Problem _____ If yes age at onset _____
Allergies: Yes _____ No _____ If yes, to what _____
Additional information _____
Cancer: Yes _____ No _____ If yes what type _____
Additional information _____
Seizures: Yes _____ No _____ When started _____
Additional information _____
Any siblings that seized: Yes _____ No _____ Unknown _____
Other medical conditions: _____

Reproduction:
Has this animal been used for breeding? Yes _____ No _____
If yes, at what ages _____
If yes, were pups born from each breeding: Yes _____ No _____
Type of breeding: Fresh _____ Chilled _____ Frozen _____

Please include photos: front, sides and rear. Also videos showing movement if possible.

Your Name: _____
Address: _____
Phone: _____
Email: _____
Breeders Name: _____
Email, if known: _____

SAMPLE
Page 2

Semen Donations

There are two routes for a Parent Club Sponsored Reproduction Bank (PCSRB) to obtain semen:

1. Gifts

Semen is gifted to the bank, while the dog is alive or upon an owner's death (please see pages 21-23, re: Deed of Gift).

2. Abandonment

Semen storage facilities typically have an agreement on file with the frozen semen owner stating what happens upon the abandonment of the semen. Abandonment typically results when storage invoices go unpaid for a predetermined amount of time. It is common for the abandoned semen to become the legal property of the storage facility in these situations, whereupon it is commonly destroyed. However, under the new processes outlined in this document, semen banks may donate the abandoned material to a PCSRB.

UNDERSTANDING THE PROCESSES cont.

STORAGE

- Semen in the PCSRB can be physically stored in one or multiple locations.
- It can be moved to one central location or kept where it currently is stored to save shipping of containers.
- No matter how many locations, it is up to the PCSRB to keep a track of all the frozen semen and its whereabouts. (See page 24 for more on this topic.)

USAGE

- The approval allowing a bitch owner to use semen from the PCSRB is a decision for the PCSRB. (See the example of the Qualifications developed by the OHCA, page 16.)
- For any litters resulting from semen owned by a PCSRB to be registered with the American Kennel Club, an Annual Breed Reproductive Bank Signatory Authorization must be on file and current. (See page 27.)

CREATE A 'DEED of GIFT' FORM.

A deed of gift is a signed legal document that voluntarily and without recompense transfers ownership of real, personal, or intellectual property – such as a gift of materials – from one person or institution to another. It should include any possible conditions specifying access, use, preservation, etc. of the gift, and is considered voluntary.

[OHCA Deed of Gift Forms samples here](#)

EXAMPLE: 'DEED of GIFT' FORM (at time of collection)

DEED OF GIFT
TO
THE OTTERHOUND CLUB OF AMERICA
REPRODUCTION BANK

THIS DEED OF GIFT is made the _____ day of _____ 20____.

I, _____
Of _____
HEREBY GIVE to The OTTERHOUND CLUB OF AMERICA REPRODUCTION BANK and thereby relinquish on behalf of myself, my executors and heirs for all time, all rights to the Semen to be collected this day and stored with

_____ (facility name)
_____ (address)
_____ (phone)

From the following Otterhound registered with the American Kennel Club.

_____ (Registered name)
_____ (Registration #)
_____ (Date of birth)
_____ (Microchip/tattoo #)

I nominate the COMMITTEE of THE OHCA REPRODUCTION BANK for the time being to hold such semen entirely at their discretion to be used in accordance with the terms of the Reproductive Bank. All fees for the use of such Semen will be used to support the future work of the Reproduction Bank.

Signed _____ (donor)
Signed _____ (Committee Representative)

Witness _____
Name & Address _____

SAMPLE

EXAMPLE: 'DEED of GIFT' FORM (transfer-on-death)

DEED OF GIFT
TO
THE OTTERHOUND CLUB OF AMERICA
REPRODUCTION BANK

THIS DEED OF GIFT is made the _____ day of _____ 20____.

I, _____
Of _____

UPON MY DEATH, I HEREBY DONATE to The OTTERHOUND CLUB OF AMERICA REPRODUCTION BANK and thereby relinquish on behalf of my executors and heirs for all time, all rights to the Semen of the following (stated below) Otterhound(s) that is stored with

_____ (facility name)
_____ (address)
_____ (phone)

From the following Otterhound(s) registered with the American Kennel Club.

_____ (Registered name)
_____ (Registration #)
_____ (Date of birth)
_____ (Microchip/tattoo #)

_____ (Registered name)
_____ (Registration #)
_____ (Date of birth)
_____ (Microchip/tattoo #)

(complete additional form(s) if necessary)

I nominate the COMMITTEE of THE OHCA REPRODUCTION BANK for the time being to hold such semen entirely at their discretion to be used in accordance with the terms of the Reproduction Bank. All fees for the use of such Semen will be used to support the future work of the Reproduction Bank.

Signed _____ (donor)

Signed _____ (Committee Representative)

Witness _____
Name & Address _____

SAMPLE

SEMEN STORAGE FACILITIES

Your PCSRB will need to decide where to store the donated/gifted/abandoned frozen semen. Physically the semen can be stored in one or multiple locations. There are many semen storage facilities throughout the country that could store the semen.

Following is one option that said it would welcome Parent Clubs at a discounted rate.

Iowa State University

Iowa State University has agreed to offer any AKC Parent Club Sponsored Reproduction Bank a special rate on storage fees.

Charges: \$15.00* per cane/ per year for storage.

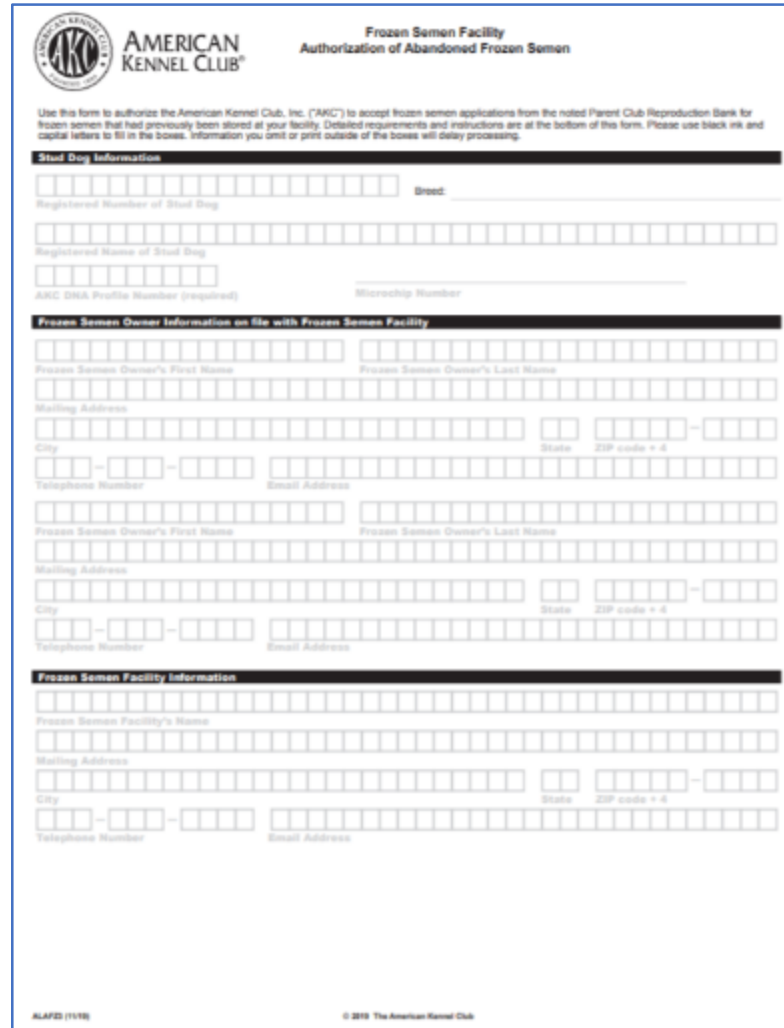
- Each cane holds up to 10 straws or 3 cryo vials of pelleted semen
- One animal and collection date per cane
- PCSRB responsible for shipment to University

If interested, please contact 515-294-1500 or cryolab@iastate.edu to arrange details.

*Price subject to change

SEMEN BANK FACILITIES – Abandoned Semen

- New process developed by AKC to allow Semen Banks to transfer abandoned semen to PCSRBs.
- Creates opportunity to make usable what would be destroyed, but only by Parent Club sponsored entity.
- Form is located under Downloadable forms on akc.org or click [here](#).



AMERICAN KENNEL CLUB®
Frozen Semen Facility
Authorization of Abandoned Frozen Semen

Use this form to authorize the American Kennel Club, Inc. ("AKC") to accept frozen semen applications from the noted Parent Club Reproduction Bank for frozen semen that had previously been stored at your facility. Detailed requirements and instructions are at the bottom of the form. Please use black ink and capital letters to fill in the boxes. Information you omit or print outside of the boxes will delay processing.

Stud Dog Information

Registered Number of Stud Dog _____ Breed _____
Registered Name of Stud Dog _____
AKC DNA Profile Number (required) _____ Membership Number _____

Frozen Semen Owner Information on file with Frozen Semen Facility

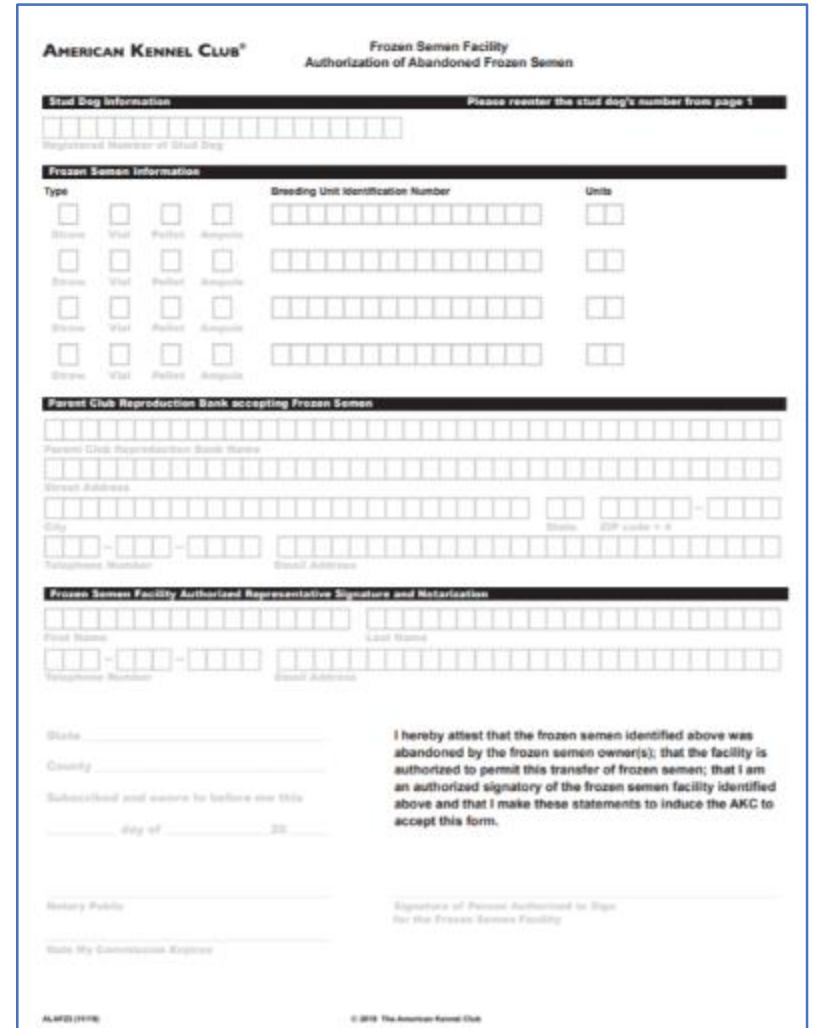
Frozen Semen Owner's First Name _____ Frozen Semen Owner's Last Name _____
Mailing Address _____
City _____ State _____ ZIP code + 4 _____
Telephone Number _____ Street Address _____

Frozen Semen Owner's First Name _____ Frozen Semen Owner's Last Name _____
Mailing Address _____
City _____ State _____ ZIP code + 4 _____
Telephone Number _____ Street Address _____

Frozen Semen Facility Information

Frozen Semen Facility's Name _____
Mailing Address _____
City _____ State _____ ZIP code + 4 _____
Telephone Number _____ Street Address _____

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AMERICAN KENNEL CLUB®
Frozen Semen Facility
Authorization of Abandoned Frozen Semen

Stud Dog Information Please reenter the stud dog's number from page 1

Registered Number of Stud Dog _____

Frozen Semen Information

Type	Breeding Unit Identification Number	Units
Strom <input type="checkbox"/> Vat <input type="checkbox"/> Pellet <input type="checkbox"/> Sperm <input type="checkbox"/>	_____	<input type="checkbox"/>
Strom <input type="checkbox"/> Vat <input type="checkbox"/> Pellet <input type="checkbox"/> Sperm <input type="checkbox"/>	_____	<input type="checkbox"/>
Strom <input type="checkbox"/> Vat <input type="checkbox"/> Pellet <input type="checkbox"/> Sperm <input type="checkbox"/>	_____	<input type="checkbox"/>
Strom <input type="checkbox"/> Vat <input type="checkbox"/> Pellet <input type="checkbox"/> Sperm <input type="checkbox"/>	_____	<input type="checkbox"/>

Parent Club Reproduction Bank accepting Frozen Semen

Parent Club Reproduction Bank Name _____
Mailing Address _____
City _____ State _____ ZIP code + 4 _____
Telephone Number _____ Street Address _____

Frozen Semen Facility Authorized Representative Signature and Notarization

First Name _____ Last Name _____
Telephone Number _____ Street Address _____

State _____
County _____
Subscribed and sworn to before me this _____ day of _____, 20____.

I hereby attest that the frozen semen identified above was abandoned by the frozen semen owner(s); that the facility is authorized to permit this transfer of frozen semen; that I am an authorized signatory of the frozen semen facility identified above and that I make these statements to induce the AKC to accept this form.

Notary Public _____
Signature of Person Authorized to Sign for the Frozen Semen Facility _____

State My Commission Expires _____

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Annual Signatory Form

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SUBMIT ANNUAL SIGNATORY FORM TO AKC

AMERICAN KENNEL CLUB
Annual Breed Reproductive Bank Signatory Authorization

Use this form to authorize the AKC® to accept the signature of the individual(s) listed as sire owner on frozen semen litter applications for frozen semen owned by the organization. Must be submitted annually.

Information about the Organization

Organization Name
Street Address
City State ZIP code + 4
Telephone Number Email Address
Principal Officer Name
Signature of Principal Officer Date: Month Day Year

I, the above named party, acknowledge that the person(s) listed below have been granted authority for a period of one year to sign as sire owner on Frozen Semen Litter Applications. A completed authorization, including parent club acknowledgment, must be on file before any litters will be registered.

Information about individuals authorized to sign for the Organization

First Name Last Name Title
Signature
First Name Last Name Title
Signature

Acknowledgement of Parent Club

First Name Last Name Title
Signature of Club President Date: Month Day Year

General Information and Instructions

Purpose	Use this form to ensure that AKC records accurately and consistently reflect required information about your organization. Once submitted, this form becomes the property of the American Kennel Club.
Mailing Address	Send the completed form to: The American Kennel Club 8051 Arco Corporate Drive, Suite 100 Raleigh, NC 27617-3300
Assistance	Email AKC at info@akc.org or call 919-233-3629 to speak to AKC Customer Registration Support, Monday – Friday, 8:30 AM – 8:00 PM. Information about the registration and recording processes and downloadable forms are available on our website: www.akc.org .
Notice	Each organization is responsible for the individuals who sign AKC applications for the organization. However, Parent Club acknowledgement is required per board policy. If an application contains any error or misrepresentation, the AKC may correct or cancel the registration or recording and the registration or recording of any descendants. By supplying email address(es), and/or telephone numbers, you consent to receive communications from AKC and third parties. Misrepresentation may also result in the loss of AKC privileges for the organization and the individual signer.

ASORP3 1118 v1.1 © 2019 The American Kennel Club

For the AKC to accept litter applications on behalf of a PCSRB, the “Annual Breed Reproductive Bank Signatory Authorization” form must be submitted **annually**.

The principal officer of the PCSRB gives authorization to an individual(s) to be listed as semen owner on frozen semen litter applications for frozen semen owned by the organization. The person(s) listed are granted authority for a period of one year to sign as semen owner on Frozen Semen Litter Applications. This completed authorization, which includes parent club acknowledgment, must be on file at AKC before any litters will be registered.

This form [ASORP3] is available on akc.org under Downloadable Forms <http://images.akc.org/pdf/ASORP3.pdf>



{ 5

Glossary

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GLOSSARY of COMMON SEMEN STORAGE TERMS

Breeding unit – the # of morphologically normal, progressively motile sperm determined by the semen freezing facility to be necessary to successfully impregnate a normal fertile female dog.

Cane – the metal or plastic device used to hold vials or goblets containing frozen semen in the cannister of the tank.

Cannister – the container – usually 6 to a tank – that supports and contains the canes.

Cryo vials – special vials that can withstand liquid nitrogen temperatures used to hold the frozen pelleted semen.

Cryopreservation – the process by which semen and other genetic material is frozen with the expectation of future use.

Dewar – a vacuum flask used to transport frozen genetic material by common carrier, insulating the frozen material and keep it in a frozen state. Also known as a “dry shipper”.

Dry ice – the solid form of carbon dioxide (CO₂). It's called "dry ice" because it does not melt like wet ice. Instead, dry ice converts into carbon dioxide gas. Because dry ice is extremely cold (-109°F/-78.5°C), non-toxic, and completely dry, it is

commonly used as an expendable refrigerant to ship frozen food or medical products or to cool materials during production.

Extender – is a liquid diluent which is added to semen to preserve its fertilizing ability. It acts as a buffer to protect the sperm cells from their own toxic byproducts, and it protects the sperm cells from cold shock and osmotic shock during the chilling and shipping process (the sperm is chilled to reduce metabolism and allow it to live longer). The extender allows the semen to be shipped to the female, rather than requiring the male and female to be near to each other.

Freeze media - Special freezing extender allows cryogenic preservation of sperm ("frozen semen"), which may be transported for use, or used on-site at a later date.

Goblet – typically a cylindrical tube to hold straws

Liquid nitrogen - LN₂, is nitrogen in a liquid state at an extremely low temperature (-195.79 °C, -320 °F) boiling point at sea level).

Mobility – see Motility

GLOSSARY cont

Morphology - describes the shape of the sperm. The sperm are examined under a microscope and must meet specific sets of criteria for several characteristics in order to be considered normal. Some abnormal sperm are usually found in every semen sample.

Motility - (sometimes referred to as the "mobility" or sperm movement) this describes the percentage of sperm that are moving. For fresh canine sperm, at least 70% or more of the sperm should be moving in a normal forward movement.

P Score – a subjective judgement of the speed of the sperm moving in a forward direction. Range is from 0-5, with 0 being non-motile and 5 moving so fast across the microscope that they can't be individually counted

Pellets – a method of freezing sperm in pellets. An imprint is made onto dry ice with a metal mold and the semen is poured into the divots to freeze in pellets.

Sperm count - This is a measurement of how many million sperm there are in the ejaculate. The amount considered

normal depends on the size of the dog. This can be presented on a "per ml" basis, but it is the TOTAL sperm produced that matters. (# of sperm /ml x # of ml collected.)

Straw – A method of freezing sperm in straws. Straws are typically 1/2ml when freezing canine sperm. Typically, 5 straws will fit in 1 goblet.

Tank – A storage place for the frozen sperm that keeps it in liquid nitrogen. Tanks range in size from small (~4 canisters that are ½ sized) to large (holding up to 10 large canisters).

Thaw media – An extender that helps protect the frozen sperm when thawing – can affect the pH, osmolality and therefore helps cell membranes. Need for "thaw media" depends on the initial brand of extender used when freezing.

Thawing – taking semen from a frozen state in liquid nitrogen to a warmed state for evaluation or use

Vial – a small container, typically cylindrical and made of glass, used especially for holding liquid medicines.



{ For any questions please contact vanessa.skou@akc.org }